





# A MESSAGE FROM OUR CEO

#### **DEAR FELLOW STOCKHOLDERS**

Quanta continues to perform well, and in 2021 we produced record revenues, profits and backlog, while also expanding our ability to collaborate with customers on their energy-transition objectives. We believe our 2021 results reflect the success of our strategic initiatives and the strength of our relationships, as well as sustainable and visible end-market drivers. Our portfolio of operating companies, diversity of service offerings and exceptional field leadership have allowed us to persevere through uncertainties and challenges, including those presented by the global pandemic over the past couple years, and deliver four consecutive years of record adjusted EBITDA and five consecutive years of record adjusted earnings per share.

Our commitment to our people, who are dedicated to serving the needs of our customers, continues to drive our success. We build people, not just projects, and our continued investment in safety, training and career development is critical to attracting a diverse workforce and fostering an inclusive culture that positions Quanta for future growth.

# Many Accomplishments in 2021

We accomplished a great deal in 2021 that has positioned us well for the future. Some of our significant accomplishments are described below.

- We continued to develop our front-end solutions strategy, both organically and through acquisitions, which is focused on strengthening our design, engineering, permitting, environmental and program management capabilities and allows us to expand our solutions offerings, better manage risk and increase our total addressable market.
- We expanded our emergency response capabilities while generating another year of record emergency restoration services revenues by supporting our customers' efforts to restore power to millions of people impacted by severe weather events. Our ability to quickly mobilize significant resources in times of need is unmatched in our industry.
- LUMA Energy, LLC (LUMA), our joint venture with ATCO, successfully transitioned to managing Puerto Rico's more than 18,000-mile electric transmission and distribution system. Though many years of challenges and work remain, LUMA has made significant progress in improving customer service, response times, customer communication and system reliability. We continue to believe this opportunity is transformative for Quanta and the people of Puerto Rico and remain committed to supporting LUMA's mission to provide reliable electricity while building a modern and sustainable transmission and distribution system.



- In support of our commitment to the workforce and people of Puerto Rico, Quanta, along with ATCO, funded and commenced operations at the LUMA College for Technical Training in Puerto Rico, which is supported by our postsecondary educational institution – Northwest Lineman College. The first class of electric utility line workers graduated in October 2021, and hundreds of workers from LUMA have received additional training with the support of Quanta and ATCO at this new facility.
- We increased our communications services revenues by approximately 25 percent and ended the year with record communications total backlog of approximately 1.3 billion dollars. We also developed and rolled out wireless infrastructure solutions to strengthen our opportunities to capitalize on 5G network deployment and ongoing enhancement of 4G wireless networks.
- We completed the acquisition of Blattner Holding Company (Blattner), a premier utility-scale renewable energy infrastructure solutions provider in North America, with decades of experience and a strong safety culture. This is Quanta's largest acquisition to date, and we believe it positions Quanta to be a leader in the energy transition and transforms our ability to collaborate early with our customers on their energy-transition strategies.
- We invested approximately \$350 million in other strategic acquisitions, which primarily support our electric power and front-end services solutions and are additive to our base business self-perform capabilities.
- We made meaningful progress in our initiative to apply certain skill sets and expertise from operations within the Underground Utility and Infrastructure Solutions segment to certain aspects of electric power and communications services. We believe our ability to leverage resources in this manner allows us to increase our self-perform capabilities and improve our operating efficiency and profitability, and is a further demonstration of the strength of our portfolio approach.
- We maintained our investment grade credit rating while issuing \$1.5 billion of senior notes and expanding our credit facility to fund the acquisition of Blattner, which we believe points to the merits of the transaction, our strong

- financial profile, the resiliency and sustainability of our business model and our positive multi-year outlook.
- We demonstrated our commitment to stockholder value and our confidence in Quanta's financial strength and growth opportunities through the repurchase of approximately \$64 million of our common stock and a 20% increase in the per share amount of dividends paid during 2021.
- And finally, we continue to increase our efforts and dedicate resources towards implementing sustainable business practices throughout the organization and to improve the data we capture to manage our operations sustainably and better communicate our ESG impact and initiatives to our stakeholders.

We believe our strategic position in the marketplace remains strong and that we are well positioned for continued profitable growth over the near and longer term. While we are proud of our achievements last year, we remain focused on getting better and ensuring that Quanta continues to evolve to effectively collaborate with our customers and business partners and capitalize on the opportunities ahead of us.

## Leveraged to Favorable Long-Term Drivers

The reliability of the power grid, access to abundant sources of affordable energy and Internet connectivity for commerce and entertainment can often be taken for granted. The impact of a hurricane, winter storm, wildfire or other severe event can quickly change our perspective and highlight how critical the infrastructure that we design, build and maintain is to our everyday wellbeing. Quanta's infrastructure solutions support our customers' efforts to increase reliability, safety, efficiency and connectivity. Additionally, our services are at the forefront of providing solutions necessary to enable the energy transition, the adoption of new technology and the deployment of technology into underserved markets. As a result, we believe our business is levered to favorable and sustainable long-term trends.



# Utilities Remain Focused on Grid Modernization and Resilience

Demand for grid modernization, system hardening, electric vehicle charging infrastructure and renewable energy interconnection services is robust, and we believe will remain so for the foreseeable future. This activity, primarily through significant multi-year master services agreements with utilities, drove our electric power results and backlog strength during 2021. Further, we believe we are in the early stages of utilities undergrounding transmission and distribution lines to protect against the effects of severe weather events and wildfires. For example, several utilities in the western United States are planning to invest tens of billions of dollars in the aggregate to underground thousands of miles of electric power lines in high fire threat areas. Other initiatives to underground critical infrastructure include electric transmission projects in the northeast, distribution circuits along the coast lines and electric transmission line projects for offshore wind generation. Many of these initiatives are part of large-scale, multi-year system hardening programs.

We also believe North America is at an inflection point for significant investment in electric vehicle-related infrastructure, including charging infrastructure and the electric distribution system upgrades necessary to support the anticipated increase in electric cars, trucks and commercial fleet vehicles in the coming years. Quanta continues its work with multiple leading electric vehicle charging companies and utilities to build out the infrastructure necessary to make fast, affordable charging possible in numerous states across the country. In many of these locations, Quanta is serving as the program manager, providing a full suite of engineering, development, and construction services.

# Growing Communications Services, with Opportunity for Improved Profitability

The outlook for our communications operations, which is within our Electric Power Infrastructure Solutions segment, remains bright. Our communications services support the critically important technology we use every day for work, education, entertainment and connecting with friends and family. Revenues and backlog increased significantly in 2021, but our profitability levels did not achieve our goals. While we encountered some difficulties with respect to project closeouts and de-scoping of certain contracts, as well as permitting delays and other inefficiencies that resulted in higher costs on certain jobs, we believe these issues are approaching resolution. And outside of these isolated challenges, the remainder of our communications operations operated close to our target margin profile for the year. The demand for our communications services remains high, and we expect continued revenue growth and a return to our expected operating income margins in the near term.

## Enhancing Our Role in Leading North America's Energy Transition

Moving towards a carbon-neutral economy is estimated by industry sources to require hundreds of billions of dollars of investment over the next several decades. Renewable developers and utilities are leading the effort to reduce carbon emissions through aggressive efforts to expand their renewable generation portfolios and implement new technologies for current and future needs.

Achieving their goals will also require substantial incremental investment in transmission and substation infrastructure to interconnect new renewable generation facilities to the power grid and to ensure grid reliability when adding this intermittent power to the system.

Over the near and longer term, we believe substantial load growth and the overall positive sentiment in support of a greener environment will increasingly drive North America's power generation toward renewables. We believe Blattner's utility scale renewable generation solutions, coupled with Quanta's existing holistic grid solutions, positions us at the tip of the spear to collaborate with our customers to shape their energy-transition initiatives. We are increasingly confident in the growth synergy opportunities we have with the addition of Blattner, and to that end, believe we have only scratched the surface on what is possible.

As a result, in the fourth quarter of last year we added a new operating segment – Renewable Energy Infrastructure Solutions - which consists of services and solutions for infrastructure that supports renewable energy, including renewable energy generation facilities and other infrastructure that support delivery and storage of renewable energy (e.g., transmission, substations and battery technology).

# Underground Utility and Infrastructure Solutions – Poised for Recovery

Our Underground Utility and Infrastructure Solutions segment generally performed well in 2021, despite continuing to face challenges that were largely outside our control, such as the negative impact from the global pandemic, work disruptions along the Gulf Coast due to severe weather and a customer bankruptcy. Despite these challenges, our operations persevered and our gas utility and pipeline integrity operations performed well. Consistent with our strategy over the last five years, we expect to continue to focus on growing our gas utility and pipeline integrity businesses, which are generally aligned with favorable long-term trends driven by safety, reliability and environmental regulations. We also believe the recovery of certain of our markets and operations has begun and expect meaningful improvement in our industrial services, Canadian and Australian operations in the near term.

Looking to the coming years, we believe Quanta also has significant opportunities in this segment as customers are expected to increasingly pursue strategies to reduce their carbon footprint and transition their operations and assets towards "greener" business opportunities. For example, gas utilities are implementing system modernization initiatives to reduce methane emissions and that position them to blend hydrogen into their natural gas flow, and certain

refiners, utilities and developers are building renewable natural gas and bio-fuel processing facilities. We are also actively pursuing sizable carbon sequestration projects.

#### Well Positioned for Sustainable, Profitable Growth

In summary, 2021 was another year of solid results that included numerous financial records and notable achievements. We are successfully executing on our strategic growth initiatives and continue to make meaningful progress on growing the portfolio of services we can deliver. We have built a solid platform that positions us well to capitalize on favorable long-term trends, particularly the transition toward a carbon-neutral economy and the adoption of new technologies.

Quanta is a portfolio of exceptional companies with geographic and service line diversity and innovative solutions that differentiate us in the marketplace in the eyes of our customers, employees and stakeholders. We are anchored by our commitment to craft skill labor and our self-perform capabilities, and we owe special recognition to our family of Quanta employees, whose hard work and commitment to excellence resulted in another record year. We are focused on operating the business for the long term and expect to continue to distinguish ourselves through safe execution and best-in-class field leadership. We will pursue opportunities to enhance Quanta's base business and leadership position in the industry and provide innovative solutions to our customers. We believe Quanta's diversity, unique operating model and entrepreneurial mindset form the foundation that will allow us to continue to succeed. Considering our organic growth opportunities and the levers available to us to allocate future cash flow generation into value-creating opportunities, such as acquisitions, strategic investments, stock repurchases and dividends, we believe Quanta will continue to generate meaningful stockholder value going forward. In closing, we appreciate the ongoing support of our stockholders and your confidence in Quanta.

EARL C. "DUKE" AUSTIN, JR.

President and Chief Executive Officer





# 2021 AT A GLANCE

# Always Getting Better

We continue to invest time and resources in our employees, our customers and the communities where we live and work.

\$742M

In diverse supplier spend

31%

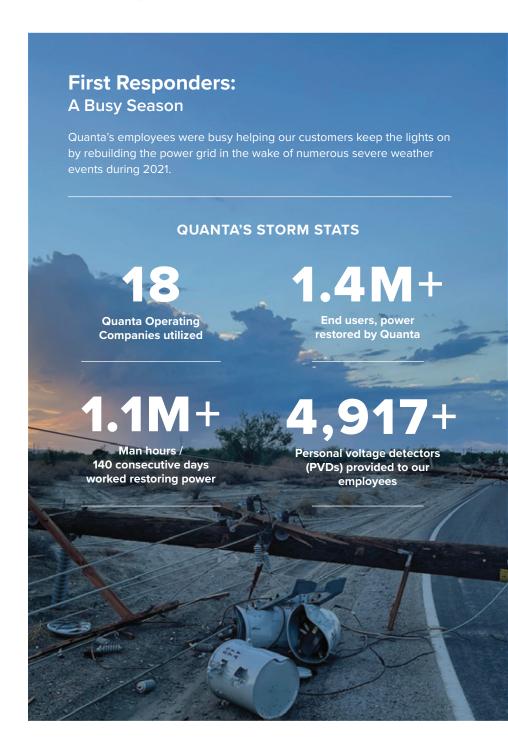
Ethnically diverse individuals trained in campus career programs by Northwest Lineman College

19%

Veterans trained in campus career programs by Northwest Lineman College

16K+

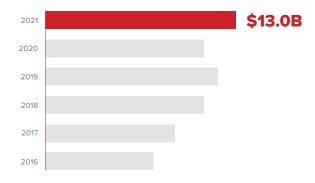
People trained in Quanta training facilities in 2021





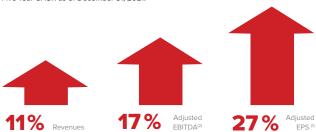
#### Revenues

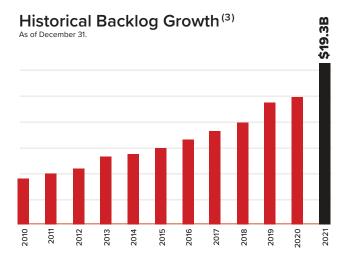
(in billions) Year ended December 31.



#### **Profitable Growth**

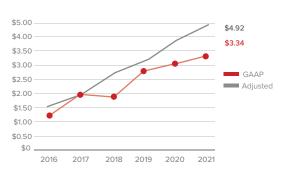
Five-Year CAGR as of December 31, 2021.





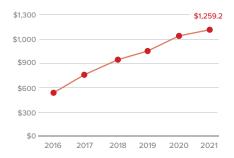
# GAAP and Adjusted Diluted Earnings Per Share (1)

Year ended December 31.



#### Adjusted EBITDA (2)

(in millions) Year ended December 31.



## Liquidity (4)

\$2 1R

(1) A reconciliation of adjusted diluted earnings per share (a non-GAAP measure) to diluted earnings per share attributable to common stock (the most directly comparable GAAP measure) is set forth in the attached reconciliation tables.

(2) A reconciliation of adjusted EBITDA (a non-GAAP measure) to net income attributable to common stock (the most directly comparable GAAP measure) is set forth in the attached reconciliation tables

(3) A reconciliation of backlog (a non-GAAP measure) to remaining performance obligations (the most directly comparable GAAP measure) is set forth in the attached reconciliation tables.

(4) Liquidity includes cash and cash equivalents and availability under Quanta's senior credit facility.

# SUSTAINABILITY MAKING A DIFFERENCE

Quanta's sustainability mission centers on collaborating with our customers to meet their needs and creating value for stakeholders, while focusing on employee safety and conducting our business in a socially, economically and environmentally responsible manner.

We are entering a new era in sustainability for our company, as we aim to co-create an equitable and sustainable future with our partners and communities. Our efforts in building equitable and sustainable solutions for our communities and the environment can already be seen throughout our business – from collaborating with customers to shape the energy transition underway in North America to our diversity commitments and support of underserved communities.

As we continue on our sustainability journey, we will never lose sight of our deeply human approach to our business — recognizing that people are the core of everything we do. Every decision we make is motivated by what will benefit our employees, our customers, our shareholders and the communities where we live and work. Our success is driven by the best, most skilled and highly trained workforce in the industries we serve. We never take our success for granted, and so we must never take the people who work for Quanta and its operating companies for granted either.

#### **People**

The foundation of Quanta's culture is a steadfast commitment to maintaining the highest standards of health, safety and well-being for our employees, our customers and the communities where we operate, while creating a sustainable and highly skilled workforce for the future.

- Safety drives everything we do our employees are our #1 asset
- Incrementally invested +\$150M in training and safety initiatives for our employees
- Job training for 16,000+ people in Quanta training facilities in 2021
- Committed to diversity and inclusion and creating a work environment with equal opportunity for success
- \$742 Million in diverse supplier spend in 2021, a 9% increase over 2020
- 31% ethnically diverse individuals trained at career programs Northwest Lineman College (NLC) campuses – an increase from 26% in 2019



Quanta awarded 39 Commitment Coins to operating company employees in 2022







#### **Planet**

Many of the services we provide facilitate efficient and safe delivery of clean energy and the migration towards a carbon-neutral economy while reducing the impact of our operations on the environment. This aligns with Quanta's core values. Making an inclusive and sustainable future possible requires us to take care of communities and the planet we all share.

- Blattner, one of our largest operating companies, is a leading renewable energy engineering and construction company and is playing an active role in expanding renewable generation capacity throughout the United Stales
- Quanta has an industry-leading reputation for environmental stewardship
- As part of our commitment to reduce emissions from our fleet, Quanta recently announced a commitment to purchase at least 500 All-Electric Chevrolet Silverado trucks from General Motors in 2023
- Quanta has developed processes to collect emissions data, including from its large fleet of vehicles, and intends to publish its first set of Scope 1 and Scope 2 emissions data in its forthcoming 2021 Sustainability Report.

#### **Principles**

Since our founding in 1997, our commitment to sustainable governance principles has been a priority. We have a robust ethics and compliance program consistent with our values around, among other things, human rights; business ethics; labor, health and safety practices; and environmental responsibility.

- Committed to strong corporate governance standards
- Independent Chairman of the Board
- Increased Board Diversity in 2021 – now 30% female, 10% ethnically diverse
- Annual election of directors, with five new directors added since 2016
- Over 96% approval of executive compensation at 2021 annual meeting
- 20% of 2021 target annual cash incentive and 20% of 2021 target long-term equity incentive based on achievement of quantifiable safety and sustainability performance goals
- Board-level oversight of ESG-related matters

**\$1.83**Billion

In revenue from Quanta's Renewable Energy Infrastructure Solutions segment in 2021

**6,857**MW

Installed by Blattner's construction of wind, solar and energy storage projects in 2021

Committed to purchase

500

electric trucks from General Motors for Quanta fleet in 2023

**Increased Board Diversity** 

**30**%

10% Ethnically Diverse

# RESILIENT, SUSTAINABLE AND

# LEADING THE ENERGY TRANSITION

We believe our 2021 results reflect the success of our strategic initiatives and collaborative relationships with customers, as well as strong, sustainable and visible end-market drivers. Demand is strong for our infrastructure solutions that support customers' energy-transition objectives and that increase reliability, safety, efficiency and connectivity through modernization, which we believe will continue to provide multi-year growth opportunities.

#### **Favorable Long-Term Trends**

Quanta provides infrastructure solutions that support our customers' efforts to increase the reliability, safety, efficiency and connectivity of their networks. Additionally, our solutions facilitate policies and goals aimed at transitioning toward a connected and carbon-neutral economy through electrification, renewables integration and the adoption of new technologies such as electric vehicles and 5G wireless technology. As a result, we believe Quanta's business is levered to favorable and sustainable long-term trends. We believe these dynamics supplement existing multi-year investment programs targeting modernization of the power grid and increased reliability of power delivery.



## **An Energy Transition Leader**

Moving towards a carbon-neutral economy is estimated by industry sources to require hundreds of billions of dollars of investment over the next several decades, a significant portion of which is expected to be invested in renewable energy generation, electric transmission and distribution systems, electric vehicle charging and other forms of clean power infrastructure. We believe Quanta has strong leadership positions across these service areas and expect that there are opportunities that will benefit the company for many years. In particular, we believe the addition of Blattner's renewable generation solutions to our existing electric power infrastructure solutions positions Quanta to be a leader in facilitating North America's energy transition.

#### **Strong Financial Position**

Quanta maintained a strong balance sheet and liquidity position throughout the year. Further, we maintained our investment grade credit rating while issuing \$1.5 billion of senior notes and expanded our credit facility to fund the acquisition of Blattner, which we believe points to the merits of the transaction, our strong financial profile, the resiliency and sustainability of our business model and positive multiyear outlook. We believe our continued financial strength positions us to allocate future cash flow generation into value-creating opportunities, such as stock repurchases, acquisitions, strategic investments and dividends.

#### **Portfolio-Driven Strategy**

Our strategy over the past five years was designed to mitigate risks inherent in our business and prepare for unexpected events through diversification and by maintaining a strong financial profile. We have a diverse, high-quality customer base with low customer concentration, a broad and diverse geographic presence throughout North America and Australia and a diverse and expanding line of services. We believe continuing this strategy, along with favorable and resilient industry dynamics and strategic investments, will allow us to continue to serve all our stakeholders.

## RECONCILIATION OF NON-GAAP FINANCIAL MEASURES

Adjusted Diluted Earnings Per Share from Continuing Operations Attributable to Common Stock

(in millions, except per share information) For the Years Ended December 31 (unaudited).

	2016	2017	2018	2019	2020	2021
NET INCOME FROM CONTINUING OPERATIONS ATTRIBUTABLE TO COMMON STOCK (AS DEFINED BY GAAP) Adjustments:	\$199	\$315	\$293	\$402	\$446	\$486
Acquisition and integration costs	3	10	17	25	20	47
Asset impairment charges	8	58	53	14	8	6
Impairments of non-integral unconsolidated affiliates	-	-	-	-	8	-
Severance and restructuring charges	6	-	1	-	7	-
Change in fair value of contingent consideration liabilities	-	(5)	(11)	13	1	7
Gain on sale of equity investment	-	-	-	(13)	-	-
Income tax benefits associated with sale of equity investment	-	-	-	(8)	-	-
Bargain purchase gain	-	-	-	(3)	-	-
Write-off of deferred financing costs	-	-	-	-	2	4
Income tax impact of adjustments	(4)	(24)	(18)	(13)	(9)	(16)
Income of release of valuation allowance	-	-	-	-	(45)	0
Impact of income tax contingency releases	(20)	(7)	(8)	(6)	(8)	(7)
Impact of Tax Cut and Jobs Act	-	(70)	33	-	-	0
Impact of change in Canadian provincial statutory tax	-	-	-	(3)	-	0
Income tax impact primarily related to entity restructuring and recapitalization efforts	-	(18)	2	-	-	0
Impact of tax benefit from realization of previously unrecognized deferred tax asset	-	-	-	-	-	0
ADJUSTED NET INCOME FROM CONTINUING OPERATIONS ATTRIBUTABLE TO COMMON STOCK BEFORE CERTAIN NON-CASH ADJUSTMENTS	192	259	362	408	430	527
Non-cash stock based compensation	40	47	52	52	92	88
Amortization of intangible assets	32	32	44	62	77	165
Income tax impact of non-cash adjustments	(26)	(29)	(25)	(30)	(44)	(65)
ADJUSTED NET INCOME FROM CONTINUING OPERATIONS ATTRIBUTABLE TO COMMON STOCK FOR ADJUSTED DILUTED EARNINGS PER SHARE FROM CONTINUING OPERATIONS	238	309	433	492	554	715
WEIGHTED AVERAGE SHARES						
Weighted average shares outstanding for diluted and adjusted diluted earnings per share	157	157	154	148	145	145
EARNINGS ATTRIBUTABLE TO COMMON STOCK						
Diluted earnings per share from continuing operations	\$1.26	\$2.00	\$1.90	\$2.73	\$3.07	\$3.34
Adjusted diluted earnings per share from continuing operations	\$1.51	\$1.97	\$2.81	\$3.33	\$3.82	\$4.92

The non-GAAP measure of adjusted diluted earnings per share from continuing operations is utilized by management and provided to enable investors to evaluate performance excluding the effects of items that management believes impact the comparability of operating results between periods.

## RECONCILIATION OF NON-GAAP FINANCIAL MEASURES

#### **EBITDA and Adjusted EBITDA**

(in millions) For the Years Ended December 31 (unaudited).

	2016	2017	2018	2019	2020	2021
NET INCOME ATTRIBUTABLE TO COMMON STOCK (AS DEFINED BY GAAP)	\$199	\$315	\$293	\$402	\$446	\$486
Interest and other financing expenses	15	21	37	67	45	69
Interest income	( 2)	(1)	(2)	-	(2)	(3)
Provision for income taxes	107	35	162	165	119	131
Amortization of intangible assets	32	32	44	62	77	165
Income taxes and depreciation included in equity in earnings of integral unconsolidated affiliates	-	-	-	-	3	9
Depreciation expense	170	184	203	218	225	256
EBITDA	\$521	\$586	\$737	\$914	\$913	\$1113
Non-cash stock-based compensation	41	46	52	52	92	88
Acquisition and integration costs	3	11	17	25	20	47
Equity in (earnings) losses of unconsolidated affiliates	1	11	53	(77)	10	(2)
Asset impairment charges	8	60	53	14	8	6
Change in fair value of contingent consideration liabilities	-	(5)	(11)	13	1	7
Reduction of indemnification asset	-	-	-	4	-	-
Bargain purchase gain	-	-	-	(3)	-	-
Severance and restructuring charges	6	-	1	-	7	-
ADJUSTED EBITDA	\$580	\$709	\$902	\$942	\$1050	\$1259
Consolidated revenues	\$7,651	\$9,466	\$11,171	\$12,112	\$11,203	\$12,980
Adjusted EBITDA margin	7.6%	7.5%	8.1%	7.8%	9.4%	9.7%

The non-GAAP measures of EBITDA and adjusted EBITDA are utilized by management and provided to enable investors to evaluate performance excluding the effects of items that management believes impact the comparability of operating results between periods.

## RECONCILIATION OF NON-GAAP FINANCIAL MEASURES

#### **Remaining Performance Obligations and Backlog**

(in millions) As of December 31, (Unaudited)

	2020		20	)21
	12 Month	Total	12 Month	Total
ELECTRIC POWER INFRASTRUCTURE SOLUTIONS				
Remaining performance obligations	\$ 1,791	\$2,356	\$ 2,003	\$ 2,769
Estimated orders under MSAs and short-term, non-fixed price contracts	\$ 3,466	\$ 7,311	\$ 4,492	\$ 9,448
Backlog	\$ 5,257	\$9,667	\$ 6,495	\$ 12,217
RENEWABLE ENERGY INFRASTRUCTURE SOLUTIONS				
Remaining performance obligations	\$ 720	\$ 1,192	\$ 2,178	\$ 2,428
Estimated orders under MSAs and short-term, non-fixed price contracts	\$ 93	\$ 122	\$ 66	\$ 120
Backlog	\$ 813	\$ 1,314	\$ 2,244	\$ 2,548
UNDERGROUND UTILITY AND INFRASTRUCTURE SOLUTIONS				
Remaining performance obligations	\$ 327	\$ 438	\$ 638	\$ 698
Estimated orders under MSAs and short-term, non-fixed price contracts	\$ 1,869	\$ 3,713	\$ 1,935	\$ 3,811
Backlog	\$ 2,196	\$ 4,151	\$ 2,573	\$ 4,509
TOTAL				
Remaining performance obligations	\$ 2,838	\$3,986	\$ 4,819	\$ 5,895
Estimated orders under MSAs and short-term, non-fixed price contracts	\$ 5,428	\$ 11,146	\$ 6,493	\$ 13,379
Backlog	\$8,266	\$15,132	\$ 11,312	\$ 19,274

The non-GAAP measure of backlog enables management to more effectively forecast our future capital needs and results and better identify future operating trends that may not otherwise be apparent, and management believes the measure is useful for investors in forecasting our future results and comparing us to our competitors.



# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### Form 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2021

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission File Number: 001-13831



# Quanta Services, Inc.

(Exact name of registrant as specified in its charter)

Delaware

74-2851603

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

#### 2800 Post Oak Boulevard, Suite 2600 Houston, Texas 77056

(Address of principal executive offices, including zip code)

(713) 629-7600

(Registrant's telephone number, including area code)

#### Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.00001 par value	PWR	New York Stock Exchange

#### Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  $\square$  No  $\square$  Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes  $\square$  No  $\square$ 

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T ( $\S$  232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer 🗆 Accelerated filer 🗆 Non-accelerated filer 🗆 Smaller reporting company 🗅 Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes □ No ☑

As of June 30, 2021 (the last business day of the Registrant's most recently completed second fiscal quarter), the aggregate market value of the Common Stock of the Registrant held by non-affiliates of the Registrant, based on the last sale price of the Common Stock reported by the New York Stock Exchange on such date, was \$12.5 billion.

As of February 22, 2022, the number of outstanding shares of Common Stock of the Registrant was 142,690,314.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's Definitive Proxy Statement for the 2022 Annual Meeting of Stockholders are incorporated by reference into Part III of this Form 10-K.

#### QUANTA SERVICES, INC. ANNUAL REPORT ON FORM 10-K For the Year Ended December 31, 2021 INDEX

		Page Number
	PART I	Tumber
ITEM 1.	Business	4
ITEM 1A.	Risk Factors	13
ITEM 1B.	Unresolved Staff Comments	37
ITEM 2.	Properties	37
ITEM 3.	Legal Proceedings	37
ITEM 4.	Mine Safety Disclosures	37
	PART II	
ITEM 5.	Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities	38
ITEM 6.	Selected Financial Data	40
ITEM 7.	Management's Discussion and Analysis of Financial Condition and Results of Operations	41
ITEM 7A.	Quantitative and Qualitative Disclosures About Market Risk	63
ITEM 8.	Financial Statements and Supplementary Data	65
ITEM 9.	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	126
ITEM 9A.	Controls and Procedures	126
ITEM 9B.	Other Information	127
ITEM 9C.	Disclosure Regarding Foreign Jurisdictions that Prevent Inspections	127
	PART III	
ITEM 10.	Directors, Executive Officers and Corporate Governance	128
ITEM 11.	Executive Compensation	128
ITEM 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	128
ITEM 13.	Certain Relationships and Related Transactions, and Director Independence	128
ITEM 14.	Principal Accounting Fees and Services	128
	PART IV	
ITEM 15.	Exhibits and Financial Statement Schedules	129
ITEM 16.	Form 10-K Summary	135
SIGNATU	RES	136

#### Cautionary Statement About Forward-Looking Statements and Information

This Annual Report on Form 10-K (Annual Report) of Quanta Services, Inc. (together with its subsidiaries, Quanta, we, us or our) includes forward-looking statements reflecting assumptions, expectations, projections, intentions or beliefs about future events that are intended to qualify for the "safe harbor" from liability established by the Private Securities Litigation Reform Act of 1995. You can identify these statements by the fact that they do not relate strictly to historical or current facts. They use words such as "anticipate," "estimate," "project," "forecast," "may," "will," "should," "could," "expect," "believe," "plan," "intend" and other words of similar meaning. In particular, these include, but are not limited to, statements relating to the following:

- Projected revenues, net income, earnings per share, margins, cash flows, liquidity, weighted average shares outstanding, capital expenditures and tax rates, as well as other projections of operating and GAAP (as defined below) and non-GAAP financial results;
- Expectations regarding our business or financial outlook;
- Expectations regarding opportunities, technological developments, competitive positioning, future economic and regulatory conditions and other trends in particular markets or industries, including with respect to our increased operations in the renewable energy market after our acquisition of Blattner (as defined below) and the transition to a carbon-neutral economy;
- Expectations regarding the pandemic associated with the novel coronavirus disease that began in 2019 (COVID-19), including the continued and potential impact of the COVID-19 pandemic and of governmental and customer responses to the pandemic on our business, operations, supply chain, personnel, financial condition, results of operations, cash flows and liquidity;
- Expectations regarding our plans and strategies;
- The business plans or financial condition of our customers, including with respect to the COVID-19 pandemic and the transition to a carbon-neutral economy;
- The potential impact of commodity prices and production volumes on our business, financial condition, results of operations, cash flows and demand for our services;
- The potential benefits from, and future financial and operational performance of, acquired businesses and our investments, including Blattner and our equity interest in LUMA (as defined below);
- Beliefs and assumptions about the collectability of receivables;
- The expected value of contracts or intended contracts with customers, as well as the scope, services, term or results of any awarded or expected projects;
- The development of and opportunities with respect to future projects, including renewable energy projects, electrical grid modernization, upgrade and hardening projects and large transmission and pipeline projects;
- Expectations regarding the future availability and price of materials and equipment necessary for the performance of our business;
- The expected impact of inflation;
- The expected impact of changes and potential changes in climate;
- Future capital allocation initiatives, including the amount and timing of, and strategies with respect to, any future acquisitions, investments or stock repurchases and expectations regarding the declaration, amount and timing of any future cash dividends;
- The impact of existing or potential legislation or regulation;
- Potential opportunities that may be indicated by bidding activity or similar discussions with customers;
- The future demand for, availability of and costs related to labor resources in the industries we serve;
- The expected realization of our remaining performance obligations or backlog;
- The expected outcome of pending or threatened legal proceedings;
- Expectations with respect to our ability to reduce our debt and maintain our current credit ratings; and
- Possible recovery of pending or contemplated insurance claims, change orders and claims asserted against customers or third parties.

These forward-looking statements are not guarantees of future performance, involve or rely on a number of risks, uncertainties, and assumptions that are difficult to predict or are beyond our control, and reflect management's beliefs and assumptions based on information available at the time the statements are made. We caution you that actual outcomes and results may differ materially from what is expressed, implied or forecasted by our forward-looking statements and that any or all of our forward-looking statements may turn out to be inaccurate or incorrect. These statements can be affected by inaccurate assumptions and by known or unknown risks and uncertainties, including risks and uncertainties described elsewhere herein,

including in Item 1A. *Risk Factors* in this Annual Report and as may be detailed from time to time in our other public filings with the U.S. Securities and Exchange Commission (SEC).

All of our forward-looking statements, whether written or oral, are expressly qualified by these cautionary statements and any other cautionary statements that may accompany such forward-looking statements or that are otherwise included in this report. Although forward-looking statements reflect our good faith beliefs at the time they are made, reliance should not be placed on forward-looking statements because they involve known and unknown risks, uncertainties and other factors, which may cause our actual results, performance or achievements to differ materially from anticipated future results, performance or achievements expressed or implied by such forward-looking statements. In addition, we do not undertake and expressly disclaim any obligation to update or revise any forward-looking statements to reflect events or circumstances after the date of this report or otherwise.

#### ITEM 1. Business

#### Overview

Quanta Services, Inc. (together with its subsidiaries, "Quanta," "we," "us" or "our") is a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the electric and gas utility, renewable energy, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets. We provide engineering, procurement, construction, and repair and maintenance services for infrastructure within each of these industries, including electric power transmission and distribution networks; substation facilities; wind and solar generation and transmission and battery storage facilities; communications and cable multi-system operator networks; gas utility systems; pipeline transmission systems and facilities; and downstream industrial facilities. Our operations are decentralized and labor-intensive, and we rely on craft skilled labor personnel and experienced operators to successfully manage our day-to-day business. We also have an experienced management team, both at the executive level and within our subsidiaries, which we refer to as operating companies or operating units. We operate a fleet of owned and leased trucks and trailers, support vehicles and specialty construction equipment, as well as various proprietary technologies that enhance our service offerings. We have a large and diverse customer base, including many of the leading companies in the utility, renewable energy, communications, industrial and energy delivery markets.

The performance of our business generally depends on our ability to obtain contracts with customers and to effectively deliver the services provided under those contracts. Our services are typically provided pursuant to master service agreements, repair and maintenance contracts and fixed price and non-fixed price construction and engineering contracts. We offer comprehensive and diverse solutions on a broad geographic scale and have a solid base of long-standing customer relationships in each of the industries we serve. We believe our reputation for safety leadership, responsiveness and performance, geographic reach, comprehensive service offerings and financial strength have resulted in strong relationships with numerous customers, and we endeavor to develop and maintain strategic alliances and preferred service provider status with our customers.

We believe that our business strategies, along with our safety culture and financial resources, differentiate us from our competition and position us to benefit from future capital spending by our customers. Our strategies include delivering a portfolio of infrastructure solutions to existing and potential customers, developing our technological and training capabilities, remaining committed to the safety of our employees, and maintaining an entrepreneurial culture throughout our organization. We believe executing on these strategies places us in the position to capitalize on opportunities and trends in the industries we serve and expand our operations to select new markets.

#### Services

Beginning with the three months ended December 31, 2021, we report our results under three reportable segments: (1) Electric Power Infrastructure Solutions, (2) Renewable Energy Infrastructure Solutions and (3) Underground Utility and Infrastructure Solutions. The Renewable Energy Infrastructure Solutions segment was added primarily due to our acquisition of Blattner Holding Company and its operating subsidiaries (collectively, Blattner) during 2021, as described further below. The acquisition of Blattner significantly expanded and enhanced our existing services with respect to the renewable energy generation industry. In conjunction with this change in reportable segments, certain prior period amounts have been recast to conform to our new segment reporting structure. We operate primarily in the United States; however, we derived approximately 14.7%, 14.2% and 16.0% of our revenues from foreign operations, primarily in Canada and Australia, during the years ended December 31, 2021, 2020 and 2019.

*Electric Power Infrastructure Solutions*. Our Electric Power Infrastructure Solutions segment provides comprehensive services for the electric power and communications markets, including:

- design, procurement, new construction, upgrade and repair and maintenance services for electric power transmission
  and distribution infrastructure, both overhead and underground, and substation facilities, along with other
  engineering and technical services to support the implementation of upgrades by utilities to modernize and harden
  the electric power grid in order to ensure its safety and enhance reliability;
- emergency restoration services, including the repair of infrastructure damaged by fires and inclement weather;
- the energized installation, maintenance and upgrade of electric power infrastructure utilizing unique bare hand and hot stick methods and our robotic arm techniques;
- the installation of "smart grid" technologies on electric power networks;

- comprehensive design and construction services to wireline and wireless communications companies, cable multisystem operators and other customers within the communications industry (including services in connection with 5G wireless deployment);
- · design, installation, maintenance and repair services related to commercial and industrial wiring; and
- aviation services primarily for the utility industry, including the transportation of line workers, the setting of poles and towers, and the stringing of wires.

This segment also includes (i) our portion of earnings of our unconsolidated integral affiliates, including LUMA Energy, LLC (LUMA), a joint venture in which we own a 50% interest and which was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico, and (ii) the majority of the financial results of our training facility and our postsecondary educational institution, which specializes in pre-apprenticeship training, apprenticeship training and specialized utility task training for electric workers, as well as training for the gas distribution and communications industries. For additional information regarding LUMA, see Note 8 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report, and for additional information on our training facility and postsecondary educational institution, see Human Capital Resources - Employee Recruiting, Development and Training below.

Renewable Energy Infrastructure Solutions. Our Renewable Energy Infrastructure Solutions segment provides comprehensive infrastructure solutions to customers that own and develop renewable energy and/or related infrastructure. Services performed by the Renewable Energy Infrastructure Solutions segment generally include:

- engineering, procurement, new construction, upgrade and repair and maintenance services for utility-scale wind, solar and hydropower generation facilities and battery storage facilities; and
- engineering and construction services for substations and switchyards, transmission and other electrical infrastructure needed to interconnect and transmit electricity from renewable energy generation and battery storage facilities.

Underground Utility and Infrastructure Solutions. Our Underground Utility and Infrastructure Solutions segment provides comprehensive infrastructure solutions to customers involved in the development, transportation, distribution, storage and processing of natural gas, oil and other products. Services performed by the Underground Utility and Infrastructure Solutions segment generally include:

- design, engineering, procurement, new construction, upgrade and repair and maintenance services for natural gas systems for gas utility customers;
- pipeline protection, integrity testing, rehabilitation and replacement services;
- catalyst replacement services, high-pressure and critical-path turnaround services, instrumentation and electrical services, piping, fabrication and storage tank services to the midstream and downstream industrial energy markets;
- engineering and construction services for pipeline systems, storage systems and compressor and pump stations and the fabrication of pipeline support systems and related structures and facilities;
- trenching, directional boring and mechanized welding services related to the services described above and in connection with our electric power infrastructure services; and
- engineering, construction and maintenance services for energy-transition and carbon-reduction related projects, such as alternative fuel facilities, carbon capture systems and hydrogen facilities.

#### Recent Significant Acquisition

On October 13, 2021, we completed the acquisition of Blattner, a large and leading utility-scale renewable energy infrastructure solutions provider that is located in and primarily operates in North America. Consideration for this acquisition was \$2.37 billion paid or payable in cash (subject to certain adjustments) and 3,326,955 shares of Quanta common stock, which had a fair value of \$345.4 million as of the date of the acquisition. The final amount of consideration for this acquisition remains subject to certain post-closing adjustments, including with respect to net working capital. Additionally, pursuant to the terms of the agreement and plan of merger, the former owners of Blattner are eligible for the potential payment of up to \$300.0 million of contingent consideration, payable to the extent the acquired business achieves certain financial performance targets over a three-year period beginning in January 2022. Since the acquisition date, Blattner's results of operations have been included in our consolidated financial statements within the Renewable Energy Infrastructure Solutions segment. See Note 6 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report for further information regarding this and our other recent acquisitions.

#### **Customer Relationships**

We have a large and diverse customer base, including many of the leading companies in the industries we serve, and we have developed strong strategic alliances with numerous customers and strive to develop and maintain our status as a preferred service provider to our customers. For the year ended December 31, 2021, our largest customer accounted for 7% of our consolidated revenues and our ten largest customers accounted for 38% of our consolidated revenues. Representative customers include:

- American Electric Power Company, Inc.
- ATCO Electric
- CenterPoint Energy, Inc.
- Comcast Corporation
- Duke Energy Corporation
- Edison International
- Entergy Corporation
- Enterprise Products Partners L.P.
- Evergy Inc.
- Eversource Energy
- Exelon Corporation
- FirstEnergy Corp.
- Fortis Inc.
- Lower Colorado River Authority

- National Grid plc
- NextBridge Infrastructure, LP
- NextEra Energy, Inc.
- NiSource Inc.
- Orsted US
- Pattern Energy
- PG&E Corporation
- Puget Sound Energy, Inc.
- Sempra Energy
- The Southern Company
- TC Energy Corporation
- Verizon Communications Inc.
- Wataynikaneyap Power
- Xcel Energy Inc.

Our customers include utilities, renewable energy developers, communications, industrial and energy delivery companies, as well as governmental entities. We have estimated revenues by customer type as a percentage of total revenues below. Such estimates are based on management judgment and assumptions and are provided to show perceived trends in our customer types and should be considered directional in nature.

_	2021	2020	2019
Utility	74 %	72 %	64 %
Renewable Energy Developers	2 %	1 %	1 %
Communications	5 %	4 %	3 %
Industrial	10 %	13 %	15 %
Energy Delivery	5 %	6 %	14 %
Other	4 %	4 %	3 %
Total revenues	100 %	100 %	100 %

The customer types set forth in the table above are described in further detail as follows:

- Utility Customers that are electric and gas utility companies;
- Renewable Energy Developers Customers that develop, own and/or operate renewable energy solutions other than electric and gas utility companies;
- Communications Customers that own and/or operate assets supporting delivery of data, communications and digital services;
- Industrial Customers that own and/or operate refinery, chemical and industrial facilities, as well as other commercial or manufacturing facilities;
- Energy Delivery Customers that own and/or operate pipelines for the delivery of hydrocarbons; and
- Other Customers that are not accurately described by the categories set forth above.

We believe utility, renewable energy, communications and industrial customers provide us with growth opportunities due to their long-term capital programs and/or the longer term trends associated with these industries. Our opportunities associated with energy delivery customers are dependent on the cyclicality of pipeline project activity, and capital programs for energy delivery and industrial customers have been negatively impacted by uncertainties and challenges in the energy market and

overall economy caused by the pandemic associated with the novel coronavirus disease (COVID-19). However, to the extent commodity prices continue to strengthen and the global economy continues to recover, we believe the outlook for services with respect to these customers will improve. For additional information on the trends associated with these customers and industries, see *Overview - Business Environment* and *Results of Operations* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

We are a preferred service provider for many of our customers, which generally means we have met minimum standards for a specific category of service, maintained a high level of performance and agreed to certain payment terms and negotiated rates. We strive to maintain preferred status as we believe it provides us an advantage in the award of future work for the applicable customer. Furthermore, many of our strategic relationships with customers take the form of strategic alliance or long-term maintenance agreements, which typically extend for an initial term and may include renewal options to extend the initial term. Strategic alliance agreements also generally state an intention to work together over a period of time and/or on specific types of projects, and many provide us with preferential bidding procedures.

Although we have an integrated marketing and business development strategy, management at each of our operating companies is responsible for developing and maintaining successful long-term relationships with customers. Our operating company management teams build upon existing customer relationships to secure additional projects and increase revenues. Many of these customer relationships are long-standing and are maintained through a partnering approach with centralized account management, which includes project evaluation and consulting, quality performance, performance measurement and direct customer contact. Additionally, operating company management focuses on pursuing growth opportunities with prospective customers. We also encourage operating company management to cross-sell services of our other operating companies to their customers and coordinate with our other operating companies to pursue projects, especially those that are larger and more complex. We believe our ability to provide services that cover a broad spectrum of our customers' needs and requirements is a significant differentiator. Our corporate-level business development and regional management groups support these activities by promoting and marketing our services for existing and prospective large national accounts, as well as projects that are capable of utilizing services from multiple operating companies.

#### **Competition and Market Demand**

The markets in which we operate are highly competitive. We compete with other contractors in the geographic markets in which we operate, and several of our competitors are large companies that have significant financial, technical and marketing resources. In addition, there are relatively few barriers to entry into some of the industries in which we operate and, as a result, any organization that has adequate financial resources and access to technical expertise may become a competitor. A significant portion of our revenues is currently derived from unit price or fixed price agreements, and price is often an important factor in the award of such agreements. Accordingly, we could be underbid by our competitors. However, customers often consider other factors in choosing a service provider, including technical expertise and experience, safety ratings, financial and operational resources, geographic presence, industry reputation and dependability, which we expect to benefit larger contractors such as us. In addition, competition may lessen as industry resources, such as labor supplies, approach capacity. There can be no assurance, however, that our competitors will not develop the expertise, experience and resources to provide services that are superior in both price and quality to our services, or that we will be able to maintain or enhance our competitive position. We also face competition from the in-house service organizations of our existing or prospective customers, which employ personnel who perform some of the same types of services we provide. Although these companies currently outsource a significant portion of these services, there can be no assurance that they will continue to do so in the future or that they will not acquire additional inhouse capabilities.

For further information regarding the effects of competition on our business and trends in market demand affecting our business, see *Risks Related to Operating Our Business* and *Risks Related to Our Industries* in Item 1A. *Risk Factors* of this Annual Report and *Overview - Business Environment* and *Results of Operations* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

#### **Material Resources**

Equipment. We depend on the availability of certain equipment, including specialty vehicles, to perform our services. We operate a fleet of owned and leased bucket trucks, digger derricks, trucks and trailers, support vehicles and specialty construction equipment, such as sidebooms, dozers, backhoes, excavators, trenchers, generators, boring machines, cranes, robotic arms, wire pullers, tensioners and helicopters. As of December 31, 2021, the total size of the rolling stock fleet was approximately 70,000 units. A number of factors that we may not be able to predict or control could result in increased costs for, or delays in delivery of, this equipment, including the continued impact of the ongoing COVID-19 pandemic on the global supply chain, as well as global trade relationships and other general market and political conditions (e.g., inflation). For example, based on, among other things, the significant worldwide shortage of semiconductors, vehicle manufacturers are experiencing production delays with respect to new vehicles for our fleet (both on-road and specialty vehicles) and vehicle parts (e.g., tires), all of which we utilize in our operations. Certain of our vehicle delivery orders scheduled for delivery in 2022 have

been delayed and canceled. While we believe we have taken steps to secure delivery of a sufficient amount of vehicles in the near term and do not anticipate any significant disruptions with respect to our fleet, to the extent the production issues become worse than expected or become longer-term in nature, our operations could be negatively impacted.

Project Materials. Our customers depend on the availability of certain materials for construction, upgrade and repair and maintenance of their infrastructure and are typically responsible for supplying most or all of the materials required for the services we perform on their projects, including, among other things, steel, copper, aluminum and components for renewable energy projects (e.g., solar panels, wind turbine blades). We monitor supply chain and other logistical challenges impacting our industries with respect to these materials; however, a number of factors that we and our customers may not be able to predict or control could result in increased costs for, or delays in delivery or lack of availability of, these materials, including, among other things, the continued impact of the ongoing COVID-19 pandemic on the global supply chain, global trade relationships (e.g., tariffs, sourcing restrictions) and other general market and political conditions (e.g., inflation). To the extent these or other dynamics delay our customers' projects or impact their decision-making with respect to timing of future projects, our business and demand for our services could be negatively impacted. For example, we believe some participants in the renewable energy market are experiencing supply chain and sourcing challenges, resulting in delays and shortages of, and increased costs for, materials necessary for the construction of certain solar renewable projects in the near term. While we believe many of our renewable energy customers are better equipped to manage these disruptions than their smaller competitors, these challenges could impact our ability to perform these renewable services in the near term.

Additionally, pursuant to certain of our contracts, including contracts for our comprehensive engineering, procurement and construction (EPC) services, we are required to procure all or part of the materials needed for a project. We continue to expand our EPC services throughout our industries, and as a result our responsibility for procuring materials is expected to increase and the cost of materials may become a proportionately larger component of our consolidated cost of services. Furthermore, under these contracts, a number of factors that we may not be able to predict or control, including those described above with respect to our customers, could negatively impact our ability to procure the materials we have agreed to procure for a project. In such circumstances, we may be responsible for delays and additional costs associated with projects.

For further information regarding the risks associated with availability of equipment and materials, see *Risks Related to Operating Our Business* in Item 1A. *Risk Factors* of this Annual Report.

#### Seasonality and Cyclicality

Our revenues and results of operations can be subject to seasonal and other variations. These variations are influenced by, among other things, weather, customer spending patterns, bidding seasons, receipt of required regulatory approvals, permits and rights of way, project timing and schedules, and holidays. Typically, our revenues are lowest in the first quarter of the year because cold, snowy or wet conditions can create challenging working environments that are more costly for our customers or cause delays on projects. In addition, infrastructure projects often do not begin in a meaningful way until our customers finalize their capital budgets, which typically occurs during the first quarter. Second quarter revenues are typically higher than those in the first quarter, as some projects begin, but continued cold and wet weather can often impact productivity. Third quarter revenues are typically the highest of the year, as a greater number of projects are underway and operating conditions, including weather, are normally more accommodating. Generally, revenues during the fourth quarter are lower than the third quarter but higher than the second quarter, as many projects are completed and customers often seek to spend their capital budgets before year end. However, the holiday season and inclement weather can sometimes cause delays during the fourth quarter, reducing revenues and increasing costs. These seasonal impacts are typical for our U.S. operations, but seasonality for our international operations may differ. For additional information on seasonality and cyclicality, please see *Significant Factors Impacting Results* within Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations* of this Annual Report.

#### Regulation

Compliance with numerous regulations has a material effect on our operations. Our operations are subject to various federal, state, local and international laws and regulations including:

- licensing, permitting and inspection requirements applicable to contractors and engineers;
- regulations relating to worker safety (e.g., Occupational Safety and Health Administration regulations) and environmental protection;
- permitting and inspection requirements applicable to construction projects;
- wage and hour regulations and regulations associated with our collective bargaining agreements and unionized workforce;
- regulations relating to sourcing and transportation of equipment and materials, including licensing and permitting requirements;

- regulations relating to aviation activities;
- building and electrical codes;
- applicable U.S. and non-U.S. anti-corruption regulations;
- immigration regulations applicable to U.S. and cross-border employment; and
- special bidding, procurement and other requirements on government projects.

We believe that we are in compliance with all material licensing and regulatory requirements that are necessary to conduct our operations. Our failure to comply with applicable regulations could result in substantial fines or revocation of our operating licenses, as well as give rise to termination or cancellation rights under our contracts or disqualify us from future bidding opportunities. Additionally, the overall regulatory environment can impact our customers' projects and demand for our services, and in connection with the current heightened regulatory environment and increased regulatory enforcement and challenges, our customers have experienced delays, reductions in scope and cancellations of projects. We are also subject to numerous federal, state, local and international environmental laws and regulations governing our operations, including the handling, transportation and disposal of non-hazardous and hazardous substances and wastes, as well as emissions and discharges into the environment, including discharges to air, surface water, groundwater and soil. We also are subject to laws and regulations that impose liability and cleanup responsibility for releases of hazardous substances into the environment. Under certain of these laws and regulations, liability can be imposed for cleanup of previously owned or operated properties or currently owned properties at which hazardous substances or wastes were discharged or disposed of by a former owner or operator, regardless of whether we directly caused the contamination or violated any law at the time of discharge or disposal. The presence of contamination from such substances or wastes could also interfere with ongoing operations or adversely affect our ability to sell or lease the property or use it as collateral for financing. In addition, we could be held liable for significant penalties and damages under certain environmental laws and regulations or be subject to revocation of certain licenses or permits, which could materially and adversely affect our business, results of operations and cash flows. Our contracts with customers may also impose liability on us for environmental issues that arise through the performance of our services. As a result, from time to time, we may incur costs and obligations for correcting environmental noncompliance matters and for remediation at or relating to certain of our properties. We believe that we are in substantial compliance with our environmental obligations and that any such obligations will not have a material adverse effect on our business or financial performance.

For further information regarding the effects of regulation on our business, see *Risks Related to Operating Our Business* and *Risks Related Regulation and Compliance* in Item 1A. *Risk Factors* of this Annual Report and *Overview - Business Environment* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

#### **Human Capital Resources**

We believe our employees are our most important assets, and we focus significant attention and resources on attracting, developing and retaining talented and experienced individuals. We believe our industry-leading training and safety programs are a strength and competitive differentiator with not only our current and potential employees, but with our customers, which have high safety standards and are increasing the amount of their outsourced infrastructure services. Our operations are decentralized and labor-intensive, and we rely on craft skilled labor personnel and experienced operators to successfully manage our day-to-day business, as well as corporate management and professional personnel to coordinate and execute our business strategies, allocate capital and coordinate equipment usage, and facilitate certain centralized administrative services.

#### Employee Profile

As of December 31, 2021, we had approximately 43,700 employees, consisting of approximately 8,600 salaried employees, including executive officers, professional and administrative staff, project managers and engineers, job superintendents and field personnel, and approximately 35,100 hourly employees, the number of which fluctuates depending upon the number and size of the projects that are ongoing and planned at any particular time. As of December 31, 2021, we had approximately 36,800 U.S. employees and approximately 6,900 non-U.S. employees, with the majority of our non-U.S. employees based in Canada. Additionally, approximately 35% of our employees as of December 31, 2021 were covered by collective bargaining agreements, which require the payment of specified wages, the observance of certain workplace rules and the payment of certain amounts to multiemployer pension plans and employee benefit trusts. These collective bargaining agreements have varying terms and expiration dates, and the majority contain provisions that prohibit work stoppages or strikes, even during specified negotiation periods relating to agreement renewals, and provide for binding arbitration dispute resolution in the event of prolonged disagreement.

#### Employee Health and Safety

Performance of our services requires the use of heavy equipment and exposure to inherently hazardous conditions. In response to these inherent hazards and as part of our commitment to the safety of our employees, customers and third parties, our corporate and operating company management personnel have established safety programs, policies and procedures and

ongoing training requirements for our employees and have also developed and implemented critical safety equipment and innovations. For example, on our project sites we have implemented emergency response plans, first aid training and automated external defibrillators, which have helped save the lives our employees and bystanders. We have also continued to invest significant resources in our safety training facilities, including the Quanta Advanced Training Center, located in Texas, and our safety monitoring tools, including fleet management software. Our operating companies also develop and share best practices for safety policies and practices, and we have an established program for onboarding newly acquired companies and working with them to augment their existing safety practices as necessary.

Furthermore, throughout the COVID-19 pandemic, the majority of our operations have continued, as they have been deemed essential to critical infrastructure. In response to the changing operating environment during the course of the pandemic, we implemented additional safety protocols and procedures to protect the health and safety of our employees, such as the adoption of specialized training initiatives and the utilization of additional protective equipment for our employees operating in the field and additional sanitation measures for our offices, vehicles and equipment. During the course of the pandemic, as circumstances dictated and in accordance with legal requirements, we also reduced non-essential business travel, applied work-from-home policies and developed other human resource guidance to help employees. We have not experienced any meaningful impact on the availability of our workforce or key personnel as a result of the COVID-19 pandemic.

#### Employee Recruiting, Development and Training

Our success depends on our ability to attract, develop and retain highly qualified employees, including craft skilled labor, engineers, architects, designers, management and professional and administrative employees.

Craft Skilled Labor. Our industry is experiencing a shortage of journeyman linemen and specialty craft labor in certain geographic areas. Our customers continue to seek additional specialized labor resources to address an aging utility workforce and longer-term labor availability issues, increasing pressure to reduce costs and improve reliability, and increasing duration and complexity of their capital programs. We believe these trends will continue, possibly to such a degree that demand for labor resources will outpace supply. Furthermore, the increased demand for our services based on favorable dynamics in certain of our industries can create shortages of qualified labor. In order to take advantage of available opportunities and successfully implement our long-term strategy, we must be able to employ, train and retain the necessary skilled personnel. As a result, we support and utilize various training and educational programs, have developed additional company-wide and project-specific employee training and educational programs and developed strategic relationships with universities, the military and unions.

For example, we own and operate Northwest Lineman College, a postsecondary educational institution that provides training programs for the electric power infrastructure, communications and underground utility and infrastructure industries and specializes in pre-apprenticeship training, apprenticeship training and specialized utility task training for electric workers. We also continue to invest in our education and training capabilities at the Quanta Advanced Training Center, which include programs for, among other things, beginning linemen, energized electric power services, lead and cable splicing, directional drilling, gas distribution services and pipeline integrity training. These programs provide classroom and on-the-job training programs and allow us to train employees in a controlled environment without the challenges of limited structure access and utility constraints.

Additionally, we have entered into strategic relationships with universities, the military and unions in order to attract potential employees and develop our workforce. For example, our operating companies performing more sophisticated and technical jobs utilize, when applicable, training programs provided by the International Brotherhood of Electrical Workers/ National Electrical Contractors Associations (IBEW/NECA) Apprenticeship Program, training programs sponsored by the four trade unions administered by the Pipe Line Contractors Association (PLCA), apprenticeship training programs sponsored by the Canadian Union of Skilled Workers (CUSW) or our equivalent programs. Certain of our operating companies have also established apprenticeship training programs approved by the U.S. Department of Labor that prescribe equivalent training requirements for employees who are not otherwise subject to the requirements of the IBEW/NECA Apprenticeship Program. In addition, the Laborers International Union of North America, the International Brotherhood of Teamsters, the United Association of Plumbers and Pipefitters and the International Union of Operating Engineers have training programs specifically designed for developing and improving the skills of their members who work in the pipeline construction industry. Our operating companies also share best practices for training and educational programs.

For additional information on the risks associated with labor resources in our industries, see *Risks Related to Operating Our Business* in Item 1A. *Risk Factors* of this Annual Report and *Overview - Business Environment* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

Management and Professional Personnel. Due to our decentralized operating structure, significant decision-making authority resides with our operating company management, and our corporate management and professional and administrative personnel are relied upon to allocate capital and communicate, coordinate and help execute our business strategies. We are focused on our ability to attract and retain qualified employees for these important positions, and a shortage of these employees

for various reasons, including intense competition for skilled employees, labor shortages, increased labor costs, and candidates' preference to work remotely, may jeopardize our ability to successfully manage our decentralized operations or our ability to grow and expand our business. We have also implemented enterprise-wide talent development and succession planning programs designed to identify and develop future and/or replacement candidates for key positions. For example, we have developed and administer a succession program with respect to our executive officers and senior operating company personnel, which is reviewed and/or overseen by our Board of Directors.

#### Compensation and Benefits

Our compensation programs are generally designed to align employee compensation with market practices and our performance, as well as provide the proper incentives to attract, retain and motivate employees. With respect to our executive officers, operating company management, other senior leadership and corporate employees, compensation programs consist of both fixed and variable components. The fixed portion is generally set at market levels, with variable compensation designed to reward employees based on company performance. We also grant stock-based compensation broadly throughout our organization, including to management and key operations personnel at the majority of our operating companies, which we believe is a key component of our compensation programs that helps to align incentives throughout our decentralized organization. We also enter into employment agreements with our executive officers and certain other key personnel. For additional information regarding our executive compensation, please see the information required in Item 11. *Executive Compensation*, which will be incorporated by reference to our definitive proxy statement related to our 2022 Annual Meeting of Stockholders.

We also provide additional benefits to our employees. For example, we provide health, welfare and benefit plans for most employees who are not covered by collective bargaining agreements, and we maintain a 401(k) plan pursuant to which eligible U.S. employees who are not provided retirement benefits through a collective bargaining agreement may make contributions through payroll deductions and to which we make certain matching contributions.

#### Ethics and Compliance

All of our employees are subject to Quanta's Code of Conduct, which addresses compliance with applicable laws and Quanta's policies concerning, among other things, general business ethics, competition, anti-corruption and bribery, environmental protection, conflicts of interest, harassment and discrimination, data security and privacy, and insider trading. Quanta's Code of Conduct also informs employees and third parties about the resources and confidential reporting mechanisms available to detect, prevent and report unethical and illegal conduct, and our Chief Compliance Officer communicates directly with our Board of Directors about actual and alleged violations of the law or the Code of Conduct. Training with respect to Quanta's Code of Conduct and other policies and procedures is conducted as part of our comprehensive ethics and compliance training program.

#### **Climate Change-Related Impacts**

Our management considers climate-related risks and opportunities in connection with its long-term strategic planning and enterprise risk management process, which are overseen by our Board of Directors. While the overall impact on our operations continues to evolve, various aspects of climate change, as well as market and societal concerns about the future impact of climate change, have resulted and are expected to continue to result in operational opportunities and challenges. These opportunities and challenges arise from the physical risks associated with changes in climate, as well as technological advances, market developments and additional regulatory and compliance costs.

Changes in climate have caused, and are expected to continue to cause, among other things, increasing temperatures, rising sea levels and changes to patterns and intensity of wildfires, hurricanes, floods, winter storms and other storms and severe weather-related events and natural disasters. Our operating results can be significantly influenced by the climates in which we operate and severe weather events, and these changes have and could continue to significantly impact our future operating results. A greater amount of rainfall, snow, ice or other less accommodating weather conditions, as well as an increase in severe weather events and natural disasters, reduces our productivity and causes delays and cancellations of our ongoing projects. For example, hurricanes and tropical storms in the U.S. Gulf Coast region have impacted our ability to perform industrial services operations during certain periods. However, an increase in certain of these events, such as hurricanes, tropical storms, wildfires, blizzards and ice storms, also creates opportunities for us to perform a greater amount of emergency restoration services and can increase customer spending on modernization, grid hardening and other infrastructure improvements (e.g., fire hardening programs in California and the western United States and storm hardening in coastal regions). For example, during 2021, several strong hurricanes and other severe weather events resulted in emergency restoration services revenues at levels comparable to 2020, when record levels of hurricane activity in the United States resulted in record levels of emergency restoration services revenues for us. Additionally, changes in climate could result in more accommodating weather patterns for greater periods of time in certain areas, which may enable us to increase our productivity in those areas.

Physical risks associated with climate change have also increased hazards associated with certain of our operations, which in turn has increased the potential for liability and increased the costs associated with such operations. For example, severe drought and high wind speeds in the western United States, Australia and other locations have significantly increased the risk of wildfires, which in turn has exposed us and other contractors to increased risk of liability in connection with our operations in those locations, as these events can be started by failure of electrical power and other infrastructure on which we have performed services. Given the potentially significant liabilities associated with these events, to the extent we are deemed liable for a wildfire event, it could have a material adverse impact on our business. Furthermore, these climate conditions have also resulted in increased costs for wildfire-related third-party insurance and reduced the amount insurance carriers are willing to make available to us under such policies, as described further in *Risk Management and Insurance* below.

Climate change has also caused, and is expected to continue to cause, changes in the markets in which we operate. For example, in support of the transition to a carbon-neutral economy, utility customers are transitioning toward more sustainable sources of power generation, such as renewables (e.g., wind and solar) coupled with battery storage technology, and are replacing aging, less efficient infrastructure. Concerns regarding climate change are also leading to the increased electrification of consumer goods (e.g., electric vehicles), which is expected to provide continued additional demand for new and expanded electric power infrastructure and reengineering of existing electric power infrastructure. We believe these market dynamics and technological advances provide significant opportunities for us, including increased demand for our renewable energy infrastructure services, which we have significantly expanded through our acquisition of Blattner, as well as our portfolio of electric power infrastructure services.

The increasing focus on climate change has also impacted markets within our Underground Utility and Infrastructure Solutions segment. Certain services within this segment have experienced challenges, and could continue to experience challenges, related to a transition toward a carbon-neutral economy. For example, concerns about the impact of certain large pipeline projects on the environment, among other things, have contributed to significant delays and cancellations of certain projects in recent years, and as a result we have decreased our focus on these service offerings. Furthermore, a longer-term decline in demand for fossil fuels or refined products as a result of climate change concerns and/or regulation could further negatively impact these projects or negatively impact demand for our midstream and industrial services operations. However, we believe there are climate change-related opportunities for certain services in this segment that are associated with safety and environmental initiatives, including integrity, rehabilitation and replacement services related to existing pipeline infrastructure, as well as longer-term opportunities for services that would support customer strategies to reduce carbon emissions (e.g., hydrogen blending into natural gas flow, carbon capture, pipeline infrastructure repurposing and renewable natural gas and biodiesel facilities). We also believe the timeline for the transition to a carbon-neutral economy will be extended and will need to be supported by certain legacy energy resources, and therefore have strategically focused on expanding our natural gas utility services in recent years.

Lastly, new legislation or regulation related to climate change could increase our costs. Most significantly, we maintain a large fleet of vehicles and a significant amount of construction machinery, and the costs associated therewith could significantly increase as a result of regulations related to greenhouse gas emissions from such sources or regulations that result in an increase in fuel prices.

For additional information regarding the risks and opportunities described above, see *Risks Related to Operating Our Business* in Item 1A. *Risk Factors* of this Annual Report and *Overview - Business Environment* and *Overview - Significant Factors Impacting Results* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

#### **Risk Management and Insurance**

We maintain insurance coverage from third-party insurers as part of our overall risk management strategy and because some of our contracts require us to maintain specific insurance coverage limits. We are insured for, among other things, employer's liability, workers' compensation, auto liability, aviation and general liability claims. We manage and maintain a portion of our casualty risk indirectly through our wholly-owned captive insurance company, which reimburses claims up to the amount of the applicable deductible of our third-party insurance programs. In connection with our casualty insurance programs, we are required to issue letters of credit to secure our obligations. Deductibles for the employer's liability and workers' compensation programs are \$5.0 million per occurrence, and deductibles for the auto liability and general liability programs are \$15.0 million per occurrence. We also maintain employee health care benefit plans for the benefit of most of our employees not subject to collective bargaining agreements, of which the primary plan is subject to a deductible of \$0.8 million per claimant per year.

Losses under our insurance programs are accrued based upon our estimate of the ultimate liability for claims reported and an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of our liability in proportion to other parties and the number of incidents not reported. The accruals are based upon known facts and historical trends, and management believes such accruals are adequate.

We renew our insurance policies on an annual basis, and therefore deductibles and levels of insurance coverage may change in future periods. In addition, insurers may cancel our coverage or determine to exclude certain items from coverage, including wildfires, or we may elect not to obtain certain types or incremental levels of insurance based on the potential benefits considered relative to the cost of such insurance, or coverage may not be available at reasonable and competitive rates. In any such event, our overall risk exposure would increase, which could negatively affect our results of operations, financial condition and cash flows. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, our level of insurance coverage for wildfire events has decreased in recent years and the current level of coverage may not be sufficient to cover potential losses in connection with these events. Our third-party insurers could decide to further reduce, exclude or increase the cost of coverage for wildfires or other events in connection with future insurance renewals. In any such event, our overall risk exposure would increase, which could negatively affect our results of operations, financial condition and cash flows.

#### Website Access and Other Information

Our website address is *www.quantaservices.com*. Interested parties may obtain free electronic copies of our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and any amendments to these reports through our website under the heading *Investor Relations / SEC Filings* or through the website of the Securities and Exchange Commission (the SEC) at *www.sec.gov*. These reports are available on our website as soon as reasonably practicable after we electronically file them with, or furnish them to, the SEC. We will also make available to any stockholder, without charge, copies of our Annual Report on Form 10-K as filed with the SEC. For copies of this or any other Quanta publication, stockholders may submit a request in writing to Quanta Services, Inc., Attn: Corporate Secretary, 2800 Post Oak Blvd., Suite 2600, Houston, Texas 77056, or by phone at (713) 629-7600.

Investors and others should note that we announce material financial information and make other public disclosures of information regarding Quanta through SEC filings, press releases, public conference calls, and our website. We also utilize social media to communicate this information, and it is possible that the information we post on social media could be deemed material. Accordingly, we encourage investors, the media and others interested in our company to follow Quanta, and review the information we post, on the social media channels listed on our website in the *Investors Relations / Social Media* section.

This Annual Report, our website and our social media channels contain information provided by other sources that we believe is reliable. We cannot provide assurance that the information obtained from other sources is accurate or complete. No information on our website or our social media channels is incorporated by reference herein.

#### ITEM 1A. Risk Factors

Our business is subject to a variety of risks and uncertainties, including, but not limited to, the material risks and uncertainties described below. The matters described below are not the only risks and uncertainties facing our company, and risks and uncertainties not known to us or not described below also may impair our business operations. If any of the following risks actually occur, our business, financial condition, results of operations and cash flows can be negatively affected, the value of securities we have issued could be adversely affected, resulting in stockholders and purchasers losing part or all of their investment, and we may not be able to achieve our strategic initiatives or expectations. This Annual Report also includes statements reflecting assumptions, expectations, projections, intentions or beliefs about future events that are intended as "forward-looking statements" under the Private Securities Litigation Reform Act of 1995 and should be read in conjunction with the section entitled *Cautionary Statement About Forward-Looking Statements and Information*.

#### **Summary Risk Factors**

The following is a summary of some of the material risks and uncertainties that could materially adversely affect our business, financial condition and results of operations. You should read this summary together with the more detailed description of each risk factor contained below.

#### Risks Related to Operating Our Business

- Our operating results may vary significantly from quarter to quarter.
- We may not realize the anticipated benefits and synergies from our acquisition of Blattner.
- The COVID-19 pandemic and related economic repercussions have materially affected our and our customers' businesses, and the duration and extent of the negative impact resulting from the pandemic remains uncertain.
- A variety of issues could affect the timing or profitability of our projects, and could result in, among other things, project termination or payment of liquidated damages.
- Our business is subject to operational hazards (e.g., wildfires, explosions) that can result in significant liabilities, and we may not be insured against all potential liabilities.

- Unavailability or cancellation of third-party insurance would increase our risk exposure and disrupt our operations, and our estimates of losses under our insurance programs could prove inaccurate.
- Our business and operating results are subject to physical risks associated with climate change.
- Our business is labor-intensive, and we may be unable to attract and retain qualified employees or we may incur significant costs if we are unable to efficiently manage our workforce.
- A loss of business from certain significant customers could have a material effect on our business.
- Our financial results are based on estimates and assumptions that may differ from actual results.
- We may fail to adequately recover on contract change orders or claims against customers.
- Changes in estimates related to revenues and costs under customer contracts could result in a reduction or elimination of revenues or profits and the recognition of losses.
- During the ordinary course of our business, we are subject to lawsuits, claims and other legal proceedings, as well as bonding claims and related reimbursement requirements.
- We may be unsuccessful in generating internal growth.
- Many of our contracts may be canceled or suspended on short notice or may not be renewed or replaced.
- The nature of our business exposes us to warranty, engineering and other related claims.
- We can incur liabilities or suffer negative financial or reputational impacts due to health and safety matters.
- Disruptions or failure to adequately protect our information technology systems could materially affect our business or result in harm to our reputation.
- A deterioration of our reputation or brands could have an adverse impact on our business.
- Our financial results and financial condition may be adversely affected as a result of asset impairments.
- Our inability to successfully execute our acquisition strategy may adversely impact our growth.
- Our decentralized management infrastructure could negatively impact our business.
- The loss of, or our inability to attract, key personnel could disrupt our business.
- Our investments, including our joint ventures, expose us to risks and may result in conflicts of interest.
- We extend credit to, and enter into other financing arrangements with customers, which subject us to credit and investment risk.
- Risks associated with operating in international markets and U.S. territories could harm our business and prospects.
- Limitations on the availability of suppliers, subcontractors and equipment manufacturers could adversely affect our business or our customers.
- A lack of availability or an increase in the price of fuel, materials or equipment could adversely affect our business or our customers.
- Increasing scrutiny and expectations with respect to corporate sustainability practices may impose additional costs on us or expose us to reputational or other risks.

#### Risks Related to Our Industries

- Negative macroeconomic conditions and industry-specific economic and market conditions can adversely impact our business.
- Our revenues and profitability can be negatively impacted if customers encounter financial difficulties or disputes arise with our customers.
- Our business is highly competitive and competitive pressures could negatively impact our business.
- Technological advancements and other market conditions could negatively affect our business.

#### Risks Related to Regulation and Compliance

- Regulatory requirements applicable to our business and potential changes related to those requirements may adversely affect our business.
- Our unionized workforce and related obligations may adversely affect our operations.
- We could be adversely affected by failure to comply with laws applicable to our foreign activities.
- Changes in tax laws could adversely affect our financial results.
- Our failure to comply with environmental laws and regulations could result in significant liabilities and costs.
- Certain specific regulatory requirements are applicable to us and certain of our subsidiaries, which could materially impact our business.
- Governmental opportunities could subject us to increased regulation and costs and may pose additional risks relating to funding and compliance.
- Immigration laws, including inability to verify employment and restrictions on movement, could adversely impact our business.

#### Risk Related to Financing Our Business

- We may not have access to sufficient funding to finance desired growth and operations.
- We have a significant amount of debt that can negatively impact our business.
- We may not have sufficient cash flow to service our debt.

- Our variable rate indebtedness subjects us to interest rate risk.
- We may be unable to compete for projects if we cannot obtain surety bonds, letters of credit or bank guarantees.
- A downgrade in our debt rating could restrict our ability to access capital markets.

#### Risks Related to Our Common Stock

- Our sale or issuance of additional common stock or other equity securities could be dilutive to each stockholder's ownership interest or affect the market price of our common stock.
- There can be no assurance that we will declare or pay future dividends on our common stock.
- Certain provisions of our governing documents could make an acquisition of Quanta more difficult.

#### **Risks Related to Operating Our Business**

#### Our operating results may vary significantly from quarter to quarter.

Our business can be highly cyclical and is subject to seasonality and other factors that can result in significantly different operating results from quarter to quarter, and therefore our results in any particular quarter may not be indicative of future results. Our quarterly results have been and may in the future be materially and/or adversely affected by, among other things:

- the timing and volume of work we perform and our performance with respect to ongoing projects, including as a result of project delays, reductions in project scope, project terminations or cancellations, and agreement terminations and expirations;
- increases in project costs that result from, among other things, natural disasters and emergencies, adverse weather conditions or events, legal challenges, permitting, regulatory or environmental processes, or inaccurate project cost estimates:
- variations in the size, scope, costs and margins of ongoing projects, as well as the mix of our customers, contracts and business;
- fluctuations in economic, political and market conditions on a regional, national or global basis, including as a result of, among other things, global conflicts, political unrest, or inflationary pressure that impacts our costs associated with labor, equipment and materials;
- pricing pressures as a result of competition;
- changes in the budgetary spending patterns or strategic plans of customers or governmental entities;
- supply chain and other logistical difficulties, as well as sourcing restrictions on materials necessary for the services we provide;
- liabilities and costs incurred in our operations that are not covered by, or that are in excess of, our third-party insurance or indemnification rights, including significant liabilities that arise from the inherently hazardous conditions of our operations (e.g., explosions, fires) and the operations of our subcontractors, and which could be exacerbated by the geographies in which we operate;
- disputes with customers or delays and payment risk relating to billing and payment under our contracts and change orders, including customers affected by the volatility of commodity prices or production or that have filed for bankruptcy protection;
- the resolution of, or unexpected or increased costs associated with, pending or threatened legal proceedings, indemnity obligations, multiemployer pension plan obligations (e.g., withdrawal liability) or other claims;
- restructuring, severance and other costs associated with, among other things, winding down certain operations and exiting markets;
- estimates and assumptions in determining our financial results, remaining performance obligations and backlog, including the timing and significance of impairments of long-lived assets, equity or other investments, receivables, goodwill or other intangible assets;
- significant fluctuations in foreign currency rates;
- the recognition of tax impacts related to changes in tax laws or uncertain tax positions; and
- the timing and magnitude of costs we incur to support our operations or growth internally or through acquisitions.

#### We may not realize the anticipated benefits and synergies from our acquisition of Blattner.

The success of our acquisition of Blattner will depend, in part, on our ability to realize the anticipated benefits from successfully integrating Blattner's business. We plan on devoting substantial management attention and resources to integrating

our and Blattner's business practices and operations so that we can fully realize the anticipated benefits of the acquisition. Nonetheless, the business and assets acquired may not be successful, achieve the anticipated financial results or continue to grow at the same rate as when operated independently or may require greater resources and investments than originally anticipated. The acquisition of Blattner could also result in the assumption of unknown or contingent liabilities. Potential difficulties we may encounter in the integration process include the following:

- the inability to successfully integrate Blattner's business in a manner that permits us to achieve the strategic operational benefits, additional opportunities with customers, reputational benefits or cost savings anticipated to result from the acquisition, which would result in some anticipated benefits of the acquisition not being realized in the time frame currently anticipated, or at all;
- the failure to integrate operations and internal systems, programs and controls;
- the inability to successfully realize the anticipated value from some of Blattner's assets;
- lost revenues and lost or damaged commercial relationships with significant customers;
- the complexities and difficulties associated with our decentralized management structure;
- the additional complexities of integrating a business with a different customer base, markets, history, culture and strategy;
- the failure to retain key employees of Blattner that may be difficult to replace;
- the disruption of our ongoing businesses or inconsistencies in our services, standards, controls, procedures and policies;
- potential unknown, unforeseen or greater than expected liabilities and expenses associated with the acquired business;
- · changes in estimates related to revenues and costs associated with Blattner's ongoing contracts with customers; and
- performance shortfalls as a result of the diversion of management's attention caused by integrating Blattner's operations.

We have also incurred, and expect to continue to incur, substantial expenses in connection with the acquisition of Blattner and integrating the business, operations, practices, policies and procedures of Blattner. While we assumed that a certain level of transaction and integration expenses would be incurred, there are a number of factors beyond our and Blattner's control that could affect the total amount or the timing of their integration expenses. The overall expenses in connection with the acquisition are expected to be significant, although the aggregate amount and timing of such charges are uncertain at present.

The effects of the COVID-19 pandemic and related economic repercussions have materially affected how we and our customers are operating our businesses, and the duration and extent to which this will negatively impact our future results of operations and overall financial performance remains uncertain.

The COVID-19 pandemic has negatively impacted the global economy, disrupted consumer spending and global supply chains, and created significant volatility and disruption of financial markets. We have experienced some resulting disruptions to our business operations, and we expect the COVID-19 pandemic could continue to have a material adverse impact on our business and financial performance. Specifically, we have been negatively impacted by the COVID-19 pandemic as a result of the shelter-in-place restrictions and work disruptions in some of our service areas creating disruptions to portions of our operations, including (i) our Canadian operations and financial results during 2020 and 2021; (ii) our operations in certain major U.S. metropolitan markets that were meaningfully impacted by the pandemic during the first half of 2020; and (iv) our Latin American operations during 2020. During the course of the pandemic we have also experienced permitting and regulatory delays and certain restrictions on operations at industrial facilities, as well as reduced demand for refined products, which resulted in suspensions and delays related to our high-pressure and critical-path turnaround services to the downstream and midstream energy markets.

Additionally, governmental requirements related to COVID-19, as well as certain standards and guidance as to preventing the spread of COVID-19, have impacted and may continue to impact our business in the future. These include vaccination or testing standards and requirements issued by federal, state and local governmental entities that require employers to ensure their workforce is fully vaccinated or to require testing for unvaccinated workers. For example, Executive Order 14042 issued by President Biden requires federal contractors and subcontractors to mandate their employees be fully vaccinated against COVID-19. This executive order could apply to employees at certain of our operating companies if such companies or their customers are considered federal contractors and may result in employee attrition and difficulty securing future labor needs and could impair our ability to perform certain contractual services, retain such contracts and obtain new business, which could

have a material adverse effect on our business, financial condition, results of operations or cash flows. In addition, many of our customers have established vaccination requirements that could apply to our employees performing work on their premises, or in proximity of their employees. The implementation of vaccination and testing requirements could have a material adverse effect on our business, financial condition, results of operations or cash flows in the event that, among other things, a significant portion of our workforce does not choose to become vaccinated, as such employees may not be able to perform work for certain customers that require vaccination. Moreover, the costs related to mandatory testing for unvaccinated employees are significant, and time away from work for testing is disruptive to our operations.

In addition to these current dynamics, the COVID-19 pandemic may create or exacerbate risks related to our operations and regulatory and compliance matters, including as a result of:

- evolving governmental guidance or requirements, including travel and movement restrictions and vaccination and testing requirements, that could impact our ability to perform services or complete projects in accordance with required delivery schedules, which could result in additional costs or penalties (e.g., liquidated damages);
- additional delays with respect to permitting and regulatory matters and additional project deferrals, delays, and
  cancellations and changes in customer spending patterns and strategic plans as a result of, among other things,
  prolonged decreases in energy demand, lack of available financing for our customers' businesses or termination of,
  or force majeure events arising under, existing customer agreements;
- potential illness that negatively impacts the availability or productivity of our key personnel or a significant number of employees or causes other disruptions to our business, corporate governance or financial reporting processes;
- increased payment risk associated with customers experiencing financial difficulties (including bankruptcy) and an increase in disputes with customers relating to billing and payment under contracts and change orders;
- potential liabilities and reputational harm related to occupational health and safety matters;
- our inability to execute our business strategy, including with respect to certain capital investments such as acquisitions, investments and service offering expansions;
- limitations on the ability of our suppliers, vendors and subcontractors to perform;
- additional impairment charges related to goodwill, other intangible assets, other long-lived assets and investments;
- additional costs associated with restructuring, severance and related matters or other increased employment-related costs (e.g., workers' compensation insurance claims); and
- an increase in cyber-attacks and attempted intrusions into our information technology systems as a result of, among other things, increased reliance on such systems.

The extent of the impact of the COVID-19 pandemic on our business and financial performance, including our ability to execute our near-term and long-term business strategies and initiatives in the expected time frame, will depend on future developments, including the duration and severity of the pandemic, the resulting governmental and other measures implemented to address the pandemic and the continued development and availability of effective treatments and vaccines, which are uncertain and cannot be predicted. As a result, the ultimate impact of the COVID-19 pandemic is difficult to predict, and the pandemic may continue to materially impact our business, financial condition, results of operations or cash flows.

A variety of issues could affect the timing or profitability of our projects, which may result in additional costs to us, reductions or delays in revenues, the payment of liquidated damages or project termination.

Our business is dependent in part upon projects that can be cyclical in nature and are subject to risks of delay or cancellation. The timing of or failure to obtain contracts, delays in awards of, start dates for or completion of projects and the cancellations of projects can result in significant periodic fluctuations in our business, financial condition, results of operations and cash flows. Many of our projects involve challenging engineering, permitting, procurement and construction phases that occur over extended time periods, sometimes several years, and we have encountered and may in the future encounter project delays, additional costs or project performance issues as a result of, among other things:

- inability to meet project schedule requirements or achieve guaranteed performance or quality standards for a project, which can result in increased costs, through rework, replacement or otherwise, or the payment of liquidated damages to the customer or contract termination;
- failure to accurately estimate project costs or accurately establish the scope of our services;
- failure to make judgments in accordance with applicable professional standards (e.g., engineering standards);

- unforeseen circumstances or project modifications not included in our cost estimates or covered by our contract for which we cannot obtain adequate compensation, including concealed or unknown environmental, geological or geographical site conditions and technical problems such as design or engineering issues;
- changes in laws or permitting and regulatory requirements during the course of our work (e.g., challenge to nationwide permits issued by the U.S. Army Corps of Engineers);
- delays in the delivery or management of design or engineering information, equipment or materials;
- our or a customer's failure to manage a project, including the inability to timely obtain permits or rights of way or meet other permitting, regulatory or environmental requirements or conditions;
- schedule changes;
- natural disasters or emergencies, including wildfires and earthquakes, as well as significant weather events (e.g., hurricanes, tropical storms, tornadoes, floods, droughts, blizzards and extreme temperatures) and adverse or unseasonable weather conditions (e.g., prolonged rainfall or snowfall, early thaw in Canada and the northern United States);
- difficult terrain and site conditions where delivery of materials and availability of labor are impacted or where there is exposure to harsh and hazardous conditions;
- protests, legal challenges or other political activity or opposition to a project (e.g., recent federal appeals court ruling invalidating certain federal approvals for the Mountain Valley natural gas pipeline under construction from West Virginia to Virginia);
- other factors such as terrorism, military action and public health crises (e.g., the COVID-19 pandemic);
- changes in the cost or availability of equipment, commodities, materials or labor; and
- delay or failure to perform by suppliers, subcontractors or other third parties, or our failure to coordinate performance of such parties, as approximately 20% of our work is subcontracted to other service providers.

Many of these difficulties and delays are beyond our control and can negatively impact our ability to complete the project in accordance with the required delivery schedule or achieve our anticipated margin on the project. Delays and additional costs associated with delays may be substantial and not recoverable from third parties, and in some cases, we may be required to compensate the customer for such delays, including in circumstances where we have guaranteed project completion or performance by a scheduled date and incur liquidated damages if we do not meet such schedule.

Furthermore, we generate a significant portion of our revenues under fixed price contracts, including contracts for projects where we provide engineering, procurement and construction (EPC) services (e.g., large transmission and pipeline projects, facility and terminal projects), and we have strategically expanded these service offerings in recent years, including with respect to renewable energy projects through our acquisition of Blattner. These contracts often involve complex pricing, scope of services and other bid preparation components that require challenging estimates and assumptions on the part of our personnel, which increases the risk that costs incurred on such projects can vary, sometimes substantially, from our original estimates.

To the extent our costs on a project exceed our revenues, we incur a loss. Additionally, performance difficulties can result in project cancellation by a customer and damage to our reputation or relationship with a customer, which can adversely affect our ability to secure new contracts. As a result, additional costs or penalties, a reduction in our productivity or efficiency or a project termination in any given period can have a material adverse effect on our business, financial condition, results of operations and cash flows. For example, as discussed in further detail in *Legal Proceedings* within Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, the termination of a telecommunications project in Peru resulted in a \$79.2 million charge to earnings in the second quarter of 2019.

Our business is subject to operational hazards, including, among others, wildfires and explosions, that can result in significant liabilities and that may be exacerbated by certain geographies and locations where we perform services, and we may not be insured against all potential liabilities.

Due to the nature of services we provide and the conditions in which we and our customers operate, our business is subject to operational hazards and accidents that can result in significant liabilities. These operational hazards include, among other things, electricity, fires, explosions, leaks, collisions, mechanical failures, and damage from severe weather conditions and natural disasters. Furthermore, certain of our customers operate energy- and communications-related infrastructure assets in locations and environments that increase the likelihood and/or severity of these operational hazards, including as a result of changes in climate and other factors in recent years.

In particular, we perform a significant amount of services, including operational, consulting and other services, for customers that operate electrical power, natural gas, communications and other infrastructure assets in the western United States, Australia and other locations that have recently experienced, and have a higher risk of, wildfires. For example, certain of Quanta's operating companies perform inspection, consulting, construction, repair and maintenance and other services for utilities and other customers that operate electric power, natural gas, communications and other infrastructure in California and other areas in the western United States, including inspection of, and construction, upgrade, repair and maintenance and other services relating to, the electrical power and natural gas transmission and distribution infrastructure operated by PG&E Corporation and its primary operating subsidiary, Pacific Gas and Electric Company (together, PG&E), Southern California Edison Company (SCE) and San Diego Gas and Electric Company, as well as their affiliates, and other utilities and customers in California and other western states. PG&E, SCE and certain other utility customers have been determined to be or are potentially responsible for catastrophic wildfire events that have occurred in recent years. In connection with certain of these events, some of Quanta's operating companies have received document hold requests and subpoenas, and in connection with one of these events, as described further in Note 16 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report, two of Quanta's operating companies have received tenders of defense and demands for preservation of documents. Additionally, certain of these wildfire events remain under investigation and additional claims or legal proceedings involving Quanta and its operating companies related to these events may be brought in the future.

We also often perform services in locations that are densely populated and that have higher value property and assets, such as California and metropolitan areas, which can increase the impact of any of these hazards or other accidents. For example, one of our larger operating companies specializes in underground gas and electric distribution and transmission services and operates in metropolitan areas throughout the northeastern United States, including New York City, New York, and we assumed certain contingent liabilities related to a natural gas explosion in connection with our acquisition of this business in 2019, which are described further in Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report. Additionally, we operate a significant number of helicopters in the performance of our services, including the transportation of line workers, the setting of poles, the stringing of wires and wildfire control and prevention, among other activities, including in locations that have a higher risk of wildfires and in densely populated areas. Our operation of helicopters is subject to various risks, such as crashes, collisions, fires, adverse weather conditions or mechanical failures.

Events arising from operational hazards and accidents have resulted in significant liabilities to us in the past and may expose us to significant claims and liabilities in the future. These claims and liabilities can arise through indemnification obligations to customers, our negligence or otherwise, and such claims and liabilities can arise even if our operations are not the cause of the harm. Our exposure to liability can also extend for years after we complete our services, and potential claims and liabilities arising from significant accidents and events can take years and significant legal costs to resolve.

Potential liabilities include, among other things, claims associated with personal injury, including severe injury or loss of life, and destruction of or significant damage to property and equipment as well as harm to the environment, and other claims discussed above and can lead to suspension of operations, adverse effects to our safety record and reputation and/or material liabilities and legal costs. In addition, if any of these events or losses related thereto are alleged or found to be the result of our or our customer's activities or services, we could be subject to government enforcement actions, regulatory penalties, civil litigation and governmental actions, including investigations, citations, fines and suspension of operations. Insurance coverage may not be available to us or may be insufficient to cover the cost of any of these liabilities and legal costs, and our insurance costs may increase if we incur liabilities associated with operational hazards. If we are not fully insured or indemnified against such liabilities and legal costs or a counterparty fails to meet its indemnification obligations to us, it could materially and adversely affect our business, financial condition, results of operations and cash flows. Further, to the extent our reputation or safety record is adversely affected, demand for our services could decline or we may not be able to bid for certain work.

## Unavailability or cancellation of third-party insurance coverage would increase our overall risk exposure, as well as disrupt our operations, and estimates of losses covered by our insurance policies could prove incorrect.

As described further in Note 2 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report, we maintain a significant amount of insurance coverage from third-party insurers as part of our overall risk management strategy and because some of our contracts require us to maintain specific insurance coverage limits. Such insurance is subject to deductibles and limits and may be canceled or may not cover all of our losses. We also manage and maintain a portion of our casualty risk through our wholly-owned captive insurance company, which insures all claims up to the amount of the applicable deductible of our third-party insurance programs, and issue letters of credit to secure our obligations in connection with our casualty insurance programs. Our insurance policies include various coverage requirements, including notice requirements, and coverage could be denied if we fail to comply with those requirements.

Additionally, our insurance coverages may not be sufficient or effective under all circumstances or against all claims and liabilities asserted against us, and if we are not fully insured against such claims and liabilities, it could expose us to significant liabilities and materially and adversely affect our business, financial condition, results of operations and cash flows. We also renew our insurance policies on an annual basis, and therefore deductibles and levels of coverage offered by third parties may change in future periods, and there is no assurance that any of our coverages will be renewed at their current levels or at all or that any future coverage will be available at reasonable and competitive rates. Our third-party insurers could also fail, cancel our coverage or otherwise be unable or unwilling to provide us with adequate insurance coverage. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, Quanta's level of insurance coverage for wildfire events has decreased in recent years, and the current level of coverage may not be sufficient to cover potential losses in connection with these events. Furthermore, our third-party insurers could also decide to further reduce or exclude coverage for wildfires or other events in connection with future insurance renewals. Adverse changes in our insurance coverage could increase our exposure to uninsured losses, which could have a negative effect on our business, financial condition, results of operations and cash flows or result in a disruption of our operations.

Losses under our insurance programs are accrued based upon our estimate of the ultimate liability for claims reported and an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of our liability in proportion to other parties and unreported incidents. If we experience claims or costs above our estimates, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

#### Our business and operating results are subject to physical risks associated with climate change.

Changes in climate have caused, and are expected to continue to cause, among other things, increasing temperatures, rising sea levels and changes to patterns and intensity of wildfires, hurricanes, floods, other storms and severe weather-related events and natural disasters. These changes have and could continue to significantly impact our future operating results and may have a long-term impact on our business, results of operation, financial condition and cash flows. While we seek to mitigate our risks associated with climate change, we recognize that there are inherent climate-related risks regardless of how and where we conduct our operations. For example, a catastrophic natural disaster could negatively impact any of our projects or office locations and the locations and service regions of our customers. Accordingly, a natural disaster has the potential to disrupt our and our customers' businesses and may cause us to experience work stoppages, project delays, financial losses and additional costs to resume operations, including increased insurance costs or loss of coverage, legal liability and reputational losses.

Physical risks associated with climate change have also increased hazards associated with certain of our operations, which in turn has increased the potential for liability and increased the costs associated with such operations. For example, as discussed above, severe drought and high wind speeds in the western United States, Australia and other locations have significantly increased the risk of wildfires, which in turn has exposed us and other contractors to increased risk of liability in connection with our operations in those locations, as these events can be started by failure of electrical power and other infrastructure on which we have performed services. Given the potentially significant liabilities associated with these events, to the extent we are deemed liable for a wildfire event, it could have a material adverse impact on our business, financial condition, results of operations and cash flows. Furthermore, these climate conditions have also resulted in increased costs for wildfire-related third-party insurance and reduced the amount insurance carriers are willing to make available to us under such policies.

## Our business is labor-intensive, and we may be unable to attract and retain qualified employees or we may incur significant costs in the event we are unable to efficiently manage our workforce.

Our ability to efficiently manage our business and achieve our strategic initiatives is limited by our ability to employ, train and retain the necessary skilled personnel, which is subject to a number of risks. The demand for labor resources has continued to increase in response to the increasing duration and complexity of customer capital budgets, the commencement of new, large-scale infrastructure projects, increased demand for infrastructure improvements and reliability and increased pressure to reduce costs. The pool of skilled workers in certain of our industries has also been reduced, and may be further reduced, due primarily to an aging utility workforce and longer-term labor availability issues, including with respect to experienced program managers and qualified journeyman linemen available for our Electric Power Infrastructure Solutions segment and experienced supervisors and foremen for our Underground Utility and Infrastructure Solutions segment. The cyclical nature of certain of the industries in which we operate can also create shortages of qualified labor during periods of high demand and production, and the amount of travel required for project management-level positions can impact the number of potential candidates that decide to enter our industries. A shortage in the supply of personnel creates competitive hiring markets that may result in increased labor expenses, and we have incurred, and expect to continue to incur, significant

education and training expenses in order to recruit and train employees. The uncertainty of contract award timing and project delays can also present difficulties in managing our workforce size. Our inability to efficiently manage our workforce may require us to incur costs resulting from excess staff, reductions in staff, or redundancies that could have a material adverse impact on our business, financial condition, results of operations and cash flows.

Additionally, the recent inflationary pressure in the United States has increased, and is expected to continue to increase, our labor costs. Under certain of our contracts, labor costs are passed through to customers, and the portion of our workforce that is represented by labor unions typically operates under multi-year collective bargaining agreements that provide some visibility into future labor costs. However, the costs related to a significant amount of our workforce are subject to market conditions, and therefore inflationary pressure could significantly increase our labor costs, which could in turn have a material adverse effect on our business, financial condition, results of operations or cash flows.

### The loss of, or reduction in business from, certain significant customers could have a material adverse effect on our business.

A few customers have in the past and may in the future account for a significant portion of our revenues. For example, our ten largest customers accounted for 38% of our consolidated revenues for the year ended December 31, 2021. Although we have long-standing relationships with many of our significant customers, a significant customer may unilaterally reduce or discontinue business with us at any time or merge or be acquired by a company that decides to reduce or discontinue business with us. A significant customer may also file for bankruptcy protection or cease operations, which could also result in reduced or discontinued business with us. The loss of business from a significant customer could have a material adverse effect on our business, financial condition, results of operations and cash flows.

## Changes in estimates related to revenues and costs associated with our contracts with customers could result in a reduction or elimination of revenues, a reduction of profits or the recognition of losses.

For fixed price contracts and certain unit-price contracts, we recognize revenue as performance obligations are satisfied over time and earnings or losses recognized on individual contracts are based on estimates of contract revenues, costs and profitability, as discussed in further detail in Note 4 of the Notes to Consolidated Financial Statements included in Item 8. Financial Statements and Supplementary Data of this Annual Report. Changes in contract estimates are recognized on a cumulative catch-up basis in the period in which the revisions to the estimates are made, and contract losses are recognized in full when losses are determined to be probable and can be reasonably estimated. Variable consideration amounts, including performance incentives, early pay discounts and penalties, may also cause changes in contract estimates. In addition, we recognize amounts associated with change orders and/or claims as revenue when it is probable that the contract price will be adjusted and the amount of any such adjustment can be reasonably estimated, which can result in the recognition of costs prior to the recognition of the related revenue. For example, as of December 31, 2021, the amount recognized related to unapproved change orders and claims was \$367.8 million and is discussed further in Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. Actual amounts collected in connection with change orders and claims can differ from estimated amounts. Consequently, the timing for recognition of revenues and profit or loss and any subsequent changes in estimates is uncertain and could result in a reduction or an elimination of previously reported revenues or profits or the recognition of losses on the associated contract. Any such adjustments could be significant and could have a material adverse impact on our financial condition, results of operations and cash flows.

#### We may fail to adequately recover on contract change orders or claims brought by us against customers.

We have in the past brought, and may in the future bring, claims against our customers. These types of claims occur due to, among other things, delays caused by customers and third parties and changes in project scope, which can result in additional costs that may not be recovered until the claim is resolved. While we generally negotiate with the customer for additional compensation, we may be unable to obtain, through negotiation, arbitration, litigation or otherwise, adequate amounts to compensate us for the additional work or expenses incurred. Litigation or arbitration with respect to these matters is generally lengthy and costly, involves significant uncertainty as to timing and amount of any resolution, and can adversely affect our relationship with existing or potential customers. Furthermore, we can be required to invest significant working capital to fund cost overruns while the resolution of a claim is pending. Failure to obtain adequate and prompt compensation for these matters can result in a reduction of revenues and gross profit recognized in prior periods or the recognition of a loss. Any such reduction or loss can be substantial and can have a material adverse effect on our business, financial condition, results of operations and cash flows.

# During the ordinary course of our business, we are subject to lawsuits, claims and other legal proceedings, as well as bonding claims and related reimbursement requirements.

We have in the past been, and may in the future be, named as a defendant in lawsuits, claims and other legal proceedings

that arise in the ordinary course of our business. These actions seek, among other things, compensation for alleged personal injury (including claims for loss of life), workers' compensation, employment discrimination, sexual harassment, workplace misconduct, wage and hour claims and other employment-related damages, compensation for breach of contract, negligence or gross negligence or property damage, environmental liabilities, multiemployer pension plan withdrawal liabilities, punitive damages, consequential damages, and civil penalties or other losses or injunctive or declaratory relief, as well as interest and attorneys' fees associated with such claims. In addition, we generally indemnify our customers for claims related to the services we provide and actions we take under our contracts, and, in some instances, we are allocated risk through our contract terms for actions by our customers, subcontractors or other third parties. Because our services in certain instances can be integral to the operation and performance of our customers' infrastructure, we have been and may become subject to lawsuits or claims for any failure of the systems that we work on or damages caused by accidents and events related to such systems, even if our services are not the cause of such failures and damages. We could also be subject to civil and criminal liabilities, which could be material. Insurance coverage may not be available or may be insufficient for these lawsuits, claims or legal proceedings. The outcome of any allegations, lawsuits, claims or legal proceedings, as well as any public reaction thereto, is inherently uncertain and could result in significant costs, damage to our brands or reputation and diversion of management's attention from our business. Payments of significant amounts, even if reserved, could materially and adversely affect our business, reputation, financial condition, results of operations and cash flows.

In addition, many customers, particularly in connection with new construction, require us to post performance and payment bonds. These bonds provide a guarantee that we will perform under the terms of a contract and pay our subcontractors and vendors. If we fail to perform, the customer may demand that the surety make payments or provide services under the bond, and we must reimburse the surety for any expenses or outlays it incurs. For example, we were required to make material reimbursements to our sureties for bond-related costs in connection with the exercise of approximately \$112 million of ondemand advance payment and performance bonds related to a terminated telecommunications project in Peru. As of December 31, 2021, the total amount of our outstanding performance bonds was estimated to be approximately \$3.9 billion. To the extent reimbursements are required, the amounts could be material and could adversely affect our consolidated business, financial condition, results of operations or cash flows. For details on our existing litigation, claims and other legal proceedings, refer to Note 16 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report.

#### We may be unsuccessful at generating internal growth, which could adversely affect our business.

Many of the factors affecting our ability to generate internal growth are beyond our control, and we cannot be certain that our strategies for achieving internal growth will be successful. Our ability to generate internal growth will be affected by, among other factors, our ability to profitably scale the services we currently offer and expand our overall service offerings, attract new customers, increase the number of projects we perform for existing customers; hire and retain qualified employees and expand geographically within our current markets, as well as our ability to address regulatory, environmental and permitting requirements and economic or market conditions that affect us or our customers. Inability to successfully generate internal growth may adversely affect our financial condition, results of operations and cash flows.

## Many of our contracts may be canceled or suspended on short notice or may not be renewed upon completion or expiration, and we may be unsuccessful in replacing our contracts, which could adversely affect our business.

Our customers have in the past and may in the future cancel, delay or reduce the number or size of projects available to us for a variety of reasons, including capital constraints or inability to meet regulatory requirements. Furthermore, many of our customers may cancel or suspend our contracts on short notice, typically 30 to 90 days, even if we are not in default under the contract. Certain of our customers assign work to us on a project-by-project basis under master service agreements. Under these agreements, our customers generally have no obligation to assign a specific amount of work to us. Our financial condition, results of operations and cash flows can be negatively impacted if our customers cancel or suspend contracts having significant value, we fail to renew or replace a significant number of our existing contracts when they expire or are completed or the anticipated volume of work under an existing master service agreement is not assigned to us.

#### The nature of our business exposes us to potential liability for warranty, engineering and other related claims.

We typically provide contractual warranties for our services and materials, guaranteeing the work performed against, among other things, defects in workmanship, and we may agree to indemnify our customers for losses related to our services. The length of these warranty periods varies and can extend for several years, and certain projects can have longer warranty periods and include facility performance warranties that are broader than the warranties we generally provide. Warranties generally require us to re-perform the services and/or repair or replace the warranted item and any other facilities impacted thereby, at our sole expense, and we could also be responsible for other damages if we are not able to adequately satisfy our warranty obligations. In addition, we can be required under contractual arrangements with our customers to warrant any defects or failures in materials we provide. While we generally require materials suppliers to provide us warranties that are consistent with those we provide customers, if any of these suppliers default on their warranty obligations to us, we may incur costs to

repair or replace the defective materials. For example, as discussed in further detail in *Legal Proceedings* within Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, we are involved in litigation with respect to a claim of approximately \$59 million in damages related to alleged warranty defects on a pipeline project.

Furthermore, our business involves professional judgments regarding the planning, design, development, construction, operations and management of electric power, renewable generation, communications, underground utility and pipeline infrastructure. Because our projects are often technically complex, our failure to make judgments and recommendations in accordance with applicable professional standards, including engineering standards, could result in damages. A significantly adverse or catastrophic event at a project site or completed project resulting from the services we performed could result in significant professional or product liability, personal injury (including claims for loss of life) or property damage claims or other claims against us, as well as reputational harm. These liabilities could exceed our insurance limits or impact our ability to obtain third-party insurance in the future, and customers, subcontractors or suppliers who have agreed to indemnify us against any such liabilities or losses might refuse or be unable to pay us. As a result, warranty, engineering and other related claims could have a material adverse impact on our business, financial condition, results of operations and cash flows.

#### We can incur liabilities or suffer negative financial or reputational impacts relating to health and safety matters.

Our operations are inherently hazardous and subject to extensive laws and regulations relating to the maintenance of safe conditions in the workplace. While we have invested, and will continue to invest, substantial resources in our occupational health and safety programs, our industry involves a high degree of operational risk, and there can be no assurance that we will avoid significant liability exposure. Although we have taken precautions designed to mitigate this risk, we have suffered serious accidents, including fatalities, and we anticipate that our operations may result in additional serious accidents in the future. As a result of these events, we could be subject to substantial penalties, revocation of operating licenses, criminal prosecution or civil litigation, including claims for bodily injury or loss of life, that could result in substantial costs and liabilities. In addition, if our safety record were to substantially deteriorate or we were to suffer substantial penalties or criminal prosecution for violation of health and safety regulations, our customers could cancel our contracts and elect to procure future services from other providers. Unsafe work sites also have the potential to increase employee turnover, increase the costs of projects for our clients, and raise our operating costs. Any of the foregoing could have a material adverse impact on our business, financial condition, results of operations and cash flows.

## Disruptions to our information technology systems or our failure to adequately protect critical data, sensitive information and technology systems could materially affect our business or result in harm to our reputation.

We rely on information technology systems to manage our operations and other business processes and to protect sensitive company information, and our reliance on those systems has increased as a result of remote working arrangements necessitated by the COVID-19 pandemic. We also collect and retain information about our customers, stockholders, vendors and employees, all of which expect that we will adequately protect such information. Breaches or disruptions of our information systems, or systems of key third parties and information technology vendors that we rely upon, can result from, among other things, cyber-attacks, theft, inadvertent exposure of sensitive information, acts of terrorism, storms or other natural phenomena, information technology solution failures or network disruptions, and any such cyber-attacks or breaches can go unnoticed for some period of time. For example, a cyber-attack on one of our vendors or vulnerabilities identified in proprietary or open-source code disclosed by vendors or federal agencies could potentially impact our systems. While to date we have not experienced any material impact as a result of cyber-attacks, the ultimate impact of these and similar events remains unknown, and additional vulnerabilities will arise in the future. Additionally, an intrusion into the information systems of a business we acquire may also ultimately compromise our systems. Furthermore, some of the energy infrastructure systems on which we work may be considered to be strategic targets, and therefore at greater risk of cyber-attacks or acts of terrorism than other targets.

Cyber-attacks can result in compromises of our payment systems, monetary losses, inability to access our systems, delays in processing transactions or reporting financial results, the disclosure or misappropriation of confidential or proprietary company information (including for the purpose of transacting in our stock), or the release of customer, stockholder, vendor or employee data. While we have security measures and technology in place to protect our and our clients' confidential or proprietary company information, there can be no assurance that our efforts will prevent all threats to our computer systems. An attack could also cause service disruptions to our internal systems or, in extreme circumstances, infiltration into, damage to or loss of control of our customers' energy infrastructure systems. Any such breach or disruption could subject us to significant liabilities, cause damage to our reputation or customer relationships, or result in regulatory investigations or other actions by governmental authorities, which could have a material adverse impact on our business, financial condition, results of operations and cash flows. Additionally, because the techniques used to obtain unauthorized access or sabotage information technology systems change frequently and are generally not identifiable until they are launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures. As a result, we may be required to expend

significant resources to protect against the threat of system disruptions and security breaches or to alleviate problems caused by these disruptions and breaches.

Any deterioration in the quality or reputation of our brands, which can be exacerbated by the effect of social media or significant media coverage, could have an adverse impact on our business.

Our brands and our reputation are among our most important assets, and our ability to attract and retain customers depends on brand recognition and reputation. Such dependence makes our business susceptible to reputational damage and to competition from other companies. A variety of events could result in damage to our reputation or brands, some of which are outside of our control, including:

- acts or omissions that adversely affect our business such as a crime, scandal, cyber-related incident, litigation or other negative publicity;
- failure to successfully perform, or negative publicity related to, a high-profile project, including our joint venture in LUMA Energy, LLC (LUMA), which was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico;
- actual or potential involvement in a catastrophic fire, explosion or similar event; or
- actual or perceived responsibility for a serious accident or injury.

Intensifying media coverage, including the considerable expansion in the use of social media, has increased the volume and speed at which negative publicity arising from these events can be generated and spread, and we may be unable to timely respond to, correct any inaccuracies in, or adequately address negative perceptions arising from such media coverage. If the reputation or perceived quality of our brands decline or customers lose confidence in us, our business, financial condition, results of operations, or cash flows could be adversely affected.

#### Our financial results are based upon estimates and assumptions that may differ from actual results.

In preparing our consolidated financial statements in conformity with GAAP, estimates and assumptions are used by management to report the assets, liabilities, revenues and expenses. These estimates and assumptions are necessary because certain information used in the preparation of our financial statements is dependent on future events, cannot be calculated with a high degree of precision from available data or cannot be readily calculated based on generally accepted methodologies. In some cases, these estimates are particularly difficult to determine, and we must exercise significant judgment, and as a result actual results can differ materially from the estimates and assumptions that we use and have a material adverse effect on our financial condition, results of operations and cash flows. For example, our remaining performance obligations and backlog are difficult to determine with certainty. Customers often have no obligation under our contracts to assign or release work to us, and many contracts may be terminated on short notice. Cancellation or reduction in scope of a contract can significantly reduce the revenues and profit we recognize. Consequently, our estimates of remaining performance obligations and backlog may not be accurate, and we may not be able to realize our estimated remaining performance obligations and backlog.

#### Our results of operations and financial condition may be adversely affected as a result of asset impairments.

Our results of operations and financial condition may be adversely affected by impairments to goodwill, other intangible assets, receivables, long-lived assets or investments. As described further in Note 7 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, we record goodwill when we acquire a business, and goodwill must be tested at least annually for impairment. Additionally, equity investments are reviewed for impairment by assessing whether there has been a decline in the fair value of the investment below the carrying amount. We have recorded impairments in the past, and any future impairments could have a material adverse effect on our financial condition and results of operations for the period in which the impairment is recognized. For example, during the years ended December 31, 2021, 2020 and 2019, we recorded asset impairment charges that primarily related to certain investments and property and equipment, as described further in Notes 8 and 18 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

#### Our inability to successfully execute our acquisition strategy may have an adverse impact on our growth.

Our business strategy includes expanding our presence in the industries we serve through strategic acquisitions of companies that complement or enhance our business. The number of acquisition targets that meet our criteria may be limited. We may also face competition for acquisition opportunities, and other potential acquirers may offer more favorable terms or have greater financial resources available for potential acquisitions. This competition may further limit our acquisition opportunities or raise the prices of acquisitions and make them less accretive, or possibly not accretive, to us. Failure to consummate future acquisitions could negatively affect our growth strategies. Additionally, our past acquisitions have involved, and our future acquisitions may involve, significant cash expenditures and stock issuances, the incurrence or assumption of debt and other known and unknown liabilities and expose us to burdensome regulatory requirements. For example, we incurred a

significant amount of debt and issued a significant amount of our common stock in connection with our acquisition of Blattner, which is described further in Note 6 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. Furthermore, we may discover previously unknown liabilities or, due to market conditions, be required pursuant to specific transaction terms to assume certain prior known liabilities associated with an acquired business, and we may have inadequate or no recourse under applicable indemnification provisions and due to the unavailability of representation and warranty insurance coverage at rates we believe to be reasonable and competitive. As a result, past or future acquisitions may ultimately have a negative impact on our business, financial condition, results of operations and cash flows.

The success of our acquisition strategy also depends on our ability to successfully integrate the operations of the acquired businesses with our existing operations and realize the anticipated benefits from the acquired businesses, such as the expansion of our existing operations, elimination of redundant costs and capitalizing on cross-selling opportunities. Our ability to integrate and realize benefits can be negatively impacted by, among other things:

- failure of an acquired business to achieve the results we expect;
- diversion of our management's attention from operational and other matters or other potential disruptions to our existing business;
- difficulties incorporating the operations and personnel, or inability to retain key personnel, of an acquired business;
- additional financial reporting and accounting challenges associated with an acquired business;
- unanticipated events or liabilities associated with the operations of an acquired business;
- loss of business due to customer overlap or other factors; and
- risks and liabilities arising from the prior operations of an acquired business, such as performance, operational, safety, cybersecurity, workforce or other compliance or tax issues, some of which we may not have discovered or accurately estimated during our due diligence and may not be covered by indemnification obligations or available insurance.

We cannot be sure that we will be able to successfully complete the integration process without substantial costs, delays, disruptions or other operational or financial problems. Failure to successfully integrate acquired businesses could adversely impact our business, financial condition, results of operations and cash flows.

Additionally, we also generally require that key management and former principals of the businesses we acquire enter into non-competition agreements in our favor. Enforceability of these non-competition agreements varies by jurisdiction and typically is dependent upon specific facts and circumstances, making it difficult to predict their enforceability. Therefore, if a member of the key management of the businesses we acquire is terminated, we might be subject to increased competition if the restrictive covenants entered into by such person are not enforceable or have expired, which could materially and adversely affect our business, financial condition, results of operations and cash flows.

#### Our decentralized management structure could negatively impact our business.

We cannot be certain that our management structure will be adequate to support our operations as they expand. Our decentralized structure places significant control and decision-making powers in the hands of the management of our operating companies. This contributes to the risk that we may be slower or less able to identify or react to problems affecting key business matters than we would in a more centralized environment. The lack of timely access to information may also impact the quality of decision making by management. For example, our ability to coordinate and utilize resources, including our fleet of vehicles, equipment and labor resources, depends on effective communications and processes among our operating companies. As a result, the ability to internally communicate, coordinate and execute business strategies, plans and tactics may be negatively impacted by our increasing size and complexity. Our decentralized organization can also result in our operating companies assuming excessive risk without appropriate guidance from our centralized legal, accounting, safety, tax, treasury, insurance and other functions. Future growth could also impose significant additional responsibilities on members of our senior management, and we cannot be certain that we will be able to recruit, integrate and retain new senior-level managers and executives. To the extent that we are unable to manage our growth effectively or are unable to attract and retain additional qualified management, we may not be able to expand our operations or execute our business plan.

#### The loss of, or our inability to attract, key personnel could disrupt our business.

We depend on the continued efforts of our executive officers, senior corporate management and management of our operating companies, which includes leadership and key personnel of the businesses we acquire. Although we typically enter into employment agreements with our executive officers and other key employees for initial terms of one to three years and subsequent renewal options, we cannot be certain that any individual will continue in such capacity for any particular period of

time. We also depend on our ability to attract key operational and professional personnel as we grow our business and in order to establish and maintain an effective succession planning process. A shortage of these employees for various reasons, including intense competition for skilled employees, labor shortages, increased labor costs and the preference of some candidates to work remotely, could jeopardize our ability to successfully manage our decentralized operations or our ability to grow and expand our business. As a result, the loss of key personnel, as well as our inability to attract, develop and retain qualified employees that can succeed these key personnel, could negatively impact our ability to manage our business.

### Our investments, including our joint ventures, expose us to risks and may result in conflicts of interest that could adversely impact our business or result in reputational harm.

We have entered into strategic relationships, joint ventures and other investment arrangements with various partners, including customers and infrastructure investors, through which we have invested in infrastructure assets and businesses, and we expect this activity to continue in the future. For additional information on our investment activity, including our joint venture in LUMA, see Note 8 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. These types of investments expose us to increased risks, including poor performance by the infrastructure projects or businesses in which we have invested due to, among other things, difficult market or economic conditions or slowdowns (which may occur across one or more industries, sectors or geographies), changes to the supply or demand and fluctuations in the price of commodities, or fluctuations in the market price of the equity securities we hold in a company. That negative performance could result in lower investment returns, a decline in value or total loss of our investments or the possible sale of our investments at values below our initial projections, including at a loss, all of which could adversely affect our business, financial condition, results of operations and cash flows. Furthermore, our investments are often illiquid, as they are typically investments in private companies and/or subject to contractual restrictions that impose restrictions or lock-up periods affecting our ability to sell our interest, and as a result, we may not be able to exit an investment that is performing poorly, declining in value or resulting in reputational harm. Poor or incomplete performance of our investments or an investment fund in which we participate could also result in reputational harm to Quanta that impairs our ability to participate in future investment opportunities, which in turn could adversely affect our ability to secure certain future projects. Further, our relationship with a customer or investor that partners with us in a poorly performing investment could become impaired, which may negatively impact our ability to continue providing services to that customer.

Conflicts of interest may also exist or arise as a result of the structure of our investment arrangements. For example, in these structures, Quanta can be the contractor for construction of a project as well as an equity investor in an entity that owns, manages or operates the project or possibly the manager of investments in the project. In those instances, conflicts of interest can exist for such things as contractor pricing and the handling of contractor change orders and other claims. While certain of these conflicts of interest are governed by applicable laws and regulations and we have also taken certain actions that we believe minimize or address anticipated conflicts of interest, including through internal management practices and the terms of agreements governing the investment arrangement, failure to properly manage such conflicts of interest, or even the appearance of a potential conflict of interest, can expose us to liability or harm our relationships with investment partners, which could impact our business, financial condition, results of operations and cash flows or cause reputational harm to Quanta.

Additionally, the purpose of our joint ventures is typically to combine skills and resources to allow for the bidding and performance of particular projects, and the success on these projects can be adversely affected by the performance of our joint venture partners, over whom we may have little or no control. Differences in opinions or views between us and our joint venture partners may result in delayed decision-making or failure to agree on material issues that may adversely affect the business and operations of our joint ventures. We and our joint venture partners are also generally jointly and severally liable for all liabilities and obligations of a joint venture. If a joint venture partner fails to perform or is unable to satisfy required capital contributions or other obligations, including liabilities stemming from claims or lawsuits, we could be required to make additional investments, provide additional services or pay more than our proportionate share of a liability to make up for their shortfall. Further, if our partners experience cost overruns or project performance issues that we are unable to adequately address, the customer may terminate the project, which could result in legal liability to us, harm our reputation and reduce our profit or increase our loss on a project. As a result, the failure by a joint venture partner to successfully perform or comply with applicable laws, regulations or client requirements could negatively impact our business.

# We extend credit to customers for purchases of our services and enter into other arrangements with certain of our customers, which subjects us to potential credit or investment risk.

We grant credit, generally without collateral, to our customers, which primarily include utilities, renewable energy developers, communications providers, industrial companies and energy delivery companies located primarily in the United States, Canada and Australia. In certain circumstances, we also allow our customers to defer payment until certain project milestones have been met or until a project is substantially completed, and customers typically withhold some portion of amounts due to us as retainage until a project is complete. In addition, we have provided in the past and may provide in the future other forms of financing to our customers or make investments in our customers' projects. These payment arrangements

subject us to potential credit risk related to changes in business and economic factors affecting our customers, and certain of our customers have experienced financial difficulties (including bankruptcy) in recent years, which has impacted our ability to collect amounts owed to us. If we are unable to collect amounts owed, or retain amounts paid to us, our cash flows are reduced, and we could experience losses. For example, as described further in Note 4 and Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, during 2020 and 2021 certain customers within our Underground Utility and Infrastructure Solutions segment encountered financial and operational difficulties that resulted in the delayed payment or nonpayment of a material amount of receivables owed. Business and economic factors resulting in financial difficulties (including bankruptcy) for our customers can also reduce the value of any financing or equity investment arrangements we have with our customers, thereby increasing the risk of loss in those circumstances. Losses experienced as a result of these credit and investment risks could materially and adversely affect our financial condition, results of operations and cash flows.

#### Risks associated with operating in international markets and U.S. territories could harm our business and prospects.

Our overall business, financial condition, results of operations and cash flows can be negatively impacted by our activities and operations outside the continental United States, including our international operations and operations in U.S. territories. Although these operations are presently conducted primarily in Canada and Australia, we also perform work in other foreign countries and U.S. territories. For the year ended December 31, 2021, we derived \$1.91 billion, or 14.7%, of our consolidated revenues from foreign operations, the substantial majority of which was related to Canada and Australia. Changes in economic conditions, including those resulting from wars and other conflicts, civil unrest, public health crises, such as the COVID-19 pandemic, acts of terrorism, or volatility in global markets, may adversely affect demand for our services and our customers' ability to pay for our services. In addition, at times we are paid for work outside the United States in currencies other than the U.S. dollar. Such payments are subject to fluctuating foreign currency exchange rates and may exceed our local currency needs, and, in certain instances, those amounts may be subject to temporary blocking, taxes or tariffs, and we may experience difficulties if we attempt to convert such amounts to U.S. dollars. During the year ended December 31, 2021, foreign revenues increased by approximately \$114 million as compared to the year ended December 31, 2020 as a result of more favorable foreign currency exchange rates, primarily the U.S. dollar as compared to the Canadian and Australian dollars. Furthermore, to the extent the volume of services we provide internationally increases, our financial condition, results of operations and cash flows could be further exposed to the effects of fluctuating exchange rates.

There are numerous other risks associated with operating in international markets and U.S. territories, including, but not limited to, changes in applicable regulatory requirements; political, economic and social instability; expropriation or nationalization of our assets and operations; unfamiliar legal systems or business and labor practices; and complex U.S. and foreign tax regulations and other laws and international treaties. For example, as discussed in further detail in *Legal Proceedings* within Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, the termination of a telecommunications project in Peru resulted in a \$79.2 million charge to earnings in the second quarter of 2019. Furthermore, we may incur significant costs or liabilities associated with an unsuccessful attempt to enter a new market or we may enter a new market that ultimately proves to be unprofitable or has an otherwise adverse effect on our business. We may also incur significant costs and liabilities associated with winding down or exiting an existing market. For example, we incurred operating losses of \$74.0 million, including asset impairment charges of \$7.0 million, during 2020 in connection with the exit of our Latin American operations. These risks could restrict our ability to provide services to these customers, operate our business in these locations profitably or fund our strategic objectives, which could negatively impact our overall business, financial condition, results of operations and cash flows.

## Limitations on the availability of suppliers, subcontractors and equipment manufacturers that we depend on could adversely affect our business.

We rely on suppliers to obtain necessary materials and subcontractors to perform portions of our services, and our customers rely on suppliers for materials necessary for the construction, upgrade and repair and maintenance of their infrastructure. We also rely on equipment manufacturers to provide us with the equipment required to conduct our operations, including a significant number of specialty vehicles. Limitations on the availability of suppliers, subcontractors or equipment manufacturers could negatively impact our or our customers' operations, particularly in the event we rely on a single or small number of providers. The risk of a lack of available suppliers, subcontractors or equipment manufacturers can be heightened as a result of market, regulatory or economic conditions. For example, customers in certain states and Canada, in order to receive certain funding or for other reasons, may expect or compel us to engage a specified percentage of suppliers or subcontractors that meet diversity-ownership requirements, which can further limit our pool of available suppliers and limit our ability to secure contracts, maintain our services or grow in those areas. Availability of suppliers and manufacturers may also be limited by U.S. trade and other foreign policies that restrict business relationships with certain suppliers and manufacturers. For example, some participants in the renewable energy market, including potentially some of our customers, could experience delays and shortages of, and increased costs for, materials necessary for certain renewable energy projects in the near term as a result of sourcing restrictions related to solar panels manufactured in China.

Additionally, successful completion of our contracts can depend on whether our subcontractors successfully fulfill their contractual obligations. If our subcontractors fail to perform their contractual obligations, fail to meet the expected completion dates or quality standards or fail to comply with applicable laws, we may be required to incur additional costs or provide additional services to mitigate such shortcomings. As a result, regulatory or other requirements that require us to outsource a percentage of services to subcontractors, whether they are businesses meeting diversity-ownership requirements or otherwise, also limit our ability to self-perform our services, thereby potentially increasing performance risk associated with our services. Furthermore, services subcontracted to other service providers generally yield lower margins, and therefore these regulatory requirements can impact our profitability and results of operations.

## A lack of availability or an increase in the price of fuel, materials or equipment necessary for our business or our customers' projects could adversely affect our business.

Pursuant to certain contracts, including fixed price and EPC contracts where we have assumed responsibility for procuring materials for a project, we are exposed to availability issues and price increases for materials that are utilized in connection with our operations, including, among other things, copper, steel and aluminum. In addition, the timing of our customers' ongoing projects, as well as their capital budgets and decision-making with respect to the timing of the future projects, can be negatively impacted by a lack of availability or an increase in prices of certain materials. Prices and availability could be materially impacted by, among other things, supply chain and other logistical challenges, global trade relationships (e.g., tariffs, sourcing restrictions) and other general market and geopolitical conditions (e.g., inflation). For example, recent logistical challenges in connection with the COVID-19 pandemic and sourcing restrictions have resulted in uncertainty concerning availability and pricing of certain commodities and goods important to our and our customers' businesses, including renewable energy project components (e.g., solar panels and wind turbine blades). The lack of availability of necessary materials could result in project delays, some of which could be attributable to us, and an increase in prices of materials could reduce our profitability on projects or negatively impact our customers, which could have an adverse effect on demand for our services or our business, financial condition, results of operations and cash flows.

Additionally, supply chain and other logistical challenges have negatively impacted suppliers of certain equipment necessary for the performance of our business, including, among other things, new vehicles for our fleet (both on-road and specialty vehicles) and vehicle parts (e.g., tires). Based on the significant worldwide shortage of semiconductors, as well as other factors, vehicle manufacturers are experiencing production delays with respect to vehicles we utilize in our operations, and certain of our vehicle delivery orders scheduled for delivery in 2022 have been delayed or cancelled. To the extent these production issues worsen or become longer-term in nature, our operations could be negatively impacted.

We are also exposed to increases in energy prices, particularly fuel prices for our large fleet of vehicles, which have increased during the COVID-19 pandemic and could increase further due to future regulatory, legislative and policy changes that result from, among other things, climate change initiatives. Furthermore, some of our fixed price contracts do not allow us to adjust our prices and, as a result, increases in fuel costs could reduce our profitability with respect to such projects. Our ability to utilize certain existing vehicles within our fleet may also be limited by new emissions or other regulations, and, due to lack of production or availability, we may not be able to procure a sufficient number of vehicles meeting any such regulations. To the extent we are unable to utilize a significant portion of our existing fleet, we may be unable to perform services, which could have an adverse effect on our future financial condition, results of operations and cash flows. The broader and longer-term implications of these challenges, as a result of the COVID-19 pandemic, the transition to a carbon-neutral economy and otherwise, remains highly uncertain and variable and could negatively impact our overall business, financial condition, results of operations and cash flows.

# Increasing scrutiny and changing expectations from investors and customers with respect to corporate sustainability practices may impose additional costs on us or expose us to reputational or other risks.

Investors and other interested constituencies have focused increasingly on the environmental, social and governance (ESG) practices of companies, including practices with respect to human capital resources, emissions and environmental impact and political spending. While we have programs and initiatives in place related to our ESG practices, investors may decide to reallocate capital or to not commit capital as a result of their assessment of our practices. In addition, our customers may require that we implement certain additional ESG procedures or standards in order to continue to do business with us. A failure to comply with investor or customer expectations and standards, which are evolving, or if we are perceived to not have responded appropriately to the growing concern for ESG issues, regardless of whether there is a legal requirement to do so, could also cause reputational harm to our business and could have a material adverse effect on us. In addition, organizations that provide ratings information to investors on ESG matters may assign unfavorable ratings to Quanta or our industries, which may lead to negative investor sentiment and the diversion of investment to other companies or industries, which could have a negative impact on our stock price and our costs of capital.

Moreover, while we may create and publish voluntary disclosures regarding ESG matters from time to time, many of the statements in those voluntary disclosures are based on hypothetical expectations and assumptions that may not be representative

of current or actual risks or events or forecasts of expected risks or events, including the costs associated therewith. Such expectations and assumptions are necessarily uncertain and may be prone to error or subject to misinterpretation given the long timelines involved and the lack of an established single approach to identifying, measuring and reporting on many ESG matters.

#### Risks Related to Our Industries

Negative macroeconomic conditions and industry-specific economic and market conditions can adversely impact our business.

Stagnant or declining economic conditions, including a prolonged economic downturn or recession, as well as significant events that have an impact on financial or capital markets, can adversely impact the demand for our services and result in the delay, reduction or cancellation of certain projects. Macroeconomic conditions, including inflation, slow growth or recession, changes to fiscal and monetary policy, and tighter credit and higher interest rates could materially adversely affect demand for our services and the availability and cost of the materials and equipment that we need to deliver our services or our customers need for their projects. During periods of elevated economic uncertainty, our customers may reduce or eliminate their spending on the services we provide. In addition, volatility in the debt or equity markets may impact our customers' access to capital and result in the reduction or elimination of spending on the services we provide. Our vendors, suppliers and subcontractors may also be, to varying degrees, adversely affected by these conditions. These conditions, which can develop rapidly, could adversely affect our revenues, results of operations, and liquidity.

A number of factors can also adversely affect the industries we serve, including, among other things, the economic impact and supply chain and other logistical issues associated with the COVID-19 pandemic, financing conditions, potential bankruptcies and global and U.S. trade relationships and other geopolitical events, such as the conflicts between Ukraine and Russia. A reduction in cash flow or the lack of availability of debt or equity financing for our customers could result in a reduction in our customers' spending for our services and also impact the ability of our customers to pay amounts owed to us, which could have a material adverse effect on our business, financial condition, results of operations and cash flows. Consolidation, competition, capital constraints or negative economic conditions in the electric power, energy or communications industries can also result in reduced spending by, or the loss of, one or more of our customers.

Services within our Underground Utility and Infrastructure Solutions segment are exposed to risks associated with the oil and gas industry. These risks, which are not subject to our control, include the volatility of commodity prices and production volumes, the development of and consumer demand for alternative energy sources, and legislative and regulatory actions, as well as public opinion, regarding the impact of fossil fuels on the climate and environment. Specifically, lower prices or production volumes, or perceived risk thereof, can result in decreased or delayed spending by our customers, including with respect to larger pipeline and industrial projects. For example, the COVID-19 pandemic and corresponding preventative measures taken around the world resulted in downward pressure on commodity prices, which negatively impacted certain services within our Underground Utility and Infrastructure Solutions segment and resulted in impairment losses of \$8.7 million related to certain non-integral equity method investments during the year ended December 31, 2020. Additionally, demand for our industrial services operations declined during 2020 and 2021 as customers reduced and deferred regularly scheduled maintenance due to lack of demand for refined products and economic uncertainty as a result of the COVID-19 pandemic. Furthermore, future restrictions imposed on oil and gas production activities, including as a result of concerns about the impact of climate change, could have a material adverse effect on the oil and gas industry as a whole. Certain of our operations within our Underground Utility and Infrastructure Solutions segment could also result in reputational risks, such as how our values and practices regarding a low carbon transition are viewed by external and internal stakeholders, which could have a material adverse impact on our business, results of operations, financial condition and cash flows. If the profitability of our Underground Utility and Infrastructure Solutions segment were to decline, our overall financial position, results of operations and cash flows could also be adversely affected. A decline in prices, production or the development of resource plays can also negatively impact demand for certain electric power infrastructure services performed in energy-reliant markets, including Canada and Australia.

# Our revenues and profitability can be negatively impacted if our customers encounter financial difficulties or file bankruptcy or disputes arise with our customers.

Our contracts often require us to satisfy or achieve certain milestones in order to receive payment, or in the case of cost-reimbursable contracts, provide support for billings in advance of payment. As a result, we can incur significant costs or perform significant amounts of work prior to receipt of payment. We face difficulties collecting payment and sometimes fail to receive payment for such costs in circumstances where our customers do not proceed to project completion, terminate or cancel a contract, default on their payment obligations, or dispute the adequacy of our billing support. We have in the past brought, and may in the future bring, claims against our customers related to the payment terms of our contracts. For example, as discussed in further detail in Note 4 and in *Legal Proceedings* within Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, we have filed certain international arbitration proceedings against the customer in connection with the terminated telecommunications project in Peru, which seeks to recover,

among other things, amounts related to a net receivable position of approximately \$120 million as of December 31, 2021. A failure to recover on these types of claims can have a negative impact on our financial condition, results of operations and cash flows, and any such claims may harm our relationships with our customers.

Slowing economic conditions in the industries we serve can also impair the financial condition of our customers and hinder their ability to pay us on a timely basis or at all. Further, to the extent a customer files bankruptcy, payment of amounts owed can be delayed and certain payments we receive prior to the filing of the bankruptcy petition may be avoided and returned to the customer's bankruptcy estate. For example, as described further in Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, during 2020 and 2021 certain customers within our Underground Utility and Infrastructure Solutions segment encountered financial and operational difficulties that resulted in the delayed payment or nonpayment of a material amount of receivables owed. Additionally, in January 2019, PG&E Corporation and Pacific Gas and Electric Company (collectively, PG&E), one of our largest customers, filed for bankruptcy protection under Chapter 11 of the U.S. Bankruptcy Code, as amended, delaying our collection of approximately \$165 million of our pre-petition receivables, which were ultimately collected or sold to a third party during the second half of 2019 and 2020. Furthermore, many of our customers for larger projects are project-specific entities that do not have significant assets other than their interests in the project and could be more likely to encounter financial difficulties relating to their businesses. We ultimately may be unable to collect amounts owed to us by customers experiencing financial difficulties or in bankruptcy, and accounts receivable from such customers may become uncollectible and ultimately have to be written off, which could have an adverse effect on our future financial condition, results of operations and cash flows.

#### Our business is highly competitive, and competitive pressures could negatively affect our business.

We cannot be certain that we will maintain or enhance our competitive position or maintain our current customer base. The specialty contracting business is served by numerous companies, from small, owner-operated private companies to large multi-national, public companies. Relatively few barriers prevent entry into some areas of our business, and as a result, any organization that has adequate financial resources and access to technical expertise may become one of our competitors. In addition, some of our competitors have significant financial, technical and marketing resources, and may have or develop expertise, experience and resources to provide services that are superior in both price and quality to our services. Certain of our competitors may also have lower overhead cost structures, and therefore may be able to provide services at lower rates than us. We also face competition from the in-house service organizations of our existing or prospective customers, which are capable of performing, or acquiring businesses that perform, some of the same types of services we provide. These customers may also face pressure or be compelled by regulatory or other requirements to self-perform an increasing amount of the services we currently perform for them, thereby reducing the services they outsource to us in the future. We also subcontract approximately 20% of our services, including pursuant to customer and regulatory requirements, and certain of these subcontractors may develop into a competitor to us on prime contracts with our customers.

Furthermore, a substantial portion of our revenues is directly or indirectly dependent upon obtaining new contracts, which is unpredictable and often involves complex and lengthy negotiations and bidding processes that are impacted by a wide variety of factors, including, among other things, price, governmental approvals, financing contingencies, commodity prices, environmental conditions, overall market and economic conditions, and a potential customer's perception of our ability to perform the work or the technological advantages held by our competitors. The competitive environment we operate in can also affect the timing of contract awards and the commencement or progress of work under awarded contracts. For example, based on rapidly changing competition dynamics, we have recently experienced, and may in the future experience, more competitive pricing for smaller scale projects. Additionally, changing competitive pressures present difficulties in matching workforce size with available contract awards. As a result, the competitive environment we operate in can have a material adverse effect on our business, financial condition, results of operations and cash flows.

### Technological advancements and other market developments could negatively affect our business.

Technological advancements, market developments and other factors may increase our costs or alter our customers' existing operating models or the services they require, which could result in reduced demand for our services. For example, a reduction in demand for hydrocarbons or plastics or an increase in demand for renewable energy sources or otherwise could negatively impact certain of our customers and reduce demand for certain of our services. Additionally, a transition to a decentralized electric power grid, which relies on more dispersed and smaller-scale renewable energy sources, could reduce the need for large infrastructure projects and significant maintenance and rehabilitation programs, thereby reducing demand for, or profitability of, our services. Our future success will depend, in part, on our ability to anticipate and adapt to these and other potential changes in a cost-effective manner and to offer services that meet customer demands and evolving industry standards. If we fail to do so or incur significant expenditures in adapting to such change, our businesses, financial condition, results of operations and cash flows could be materially and adversely affected.

Furthermore, we view our portfolio of energized services tools and techniques, as well as our other process and design technologies, as competitive strengths, which we believe differentiate our service offerings. If our intellectual property rights or

work processes become obsolete, through technological advancements or otherwise, we may not be able to differentiate our service offerings and some of our competitors may be able to offer more attractive services to our customers, which could materially and adversely affect our business, financial condition, results of operations and cash flows.

#### Risks Related to Regulation and Compliance

### Regulatory requirements applicable to our industries and changes in current and potential legislative and regulatory initiatives may adversely affect demand for our services.

Because the vast majority of our revenue is derived from a few industries, the federal, state, provincial and local regulations affecting those industries, including, among other things, environmental, safety, and permitting requirements, have a material effect on our business. In recent years, customers in our industries have faced heightened regulatory requirements and increased regulatory enforcement, as well as private legal challenges related to regulatory requirements, which have resulted in delays, reductions in scope and cancellations of projects. For example, a recent legal challenge that resulted in changes to certain U.S. Army Corps of Engineers nationwide permits related to the Clean Water Act impacted certain projects and resulted in increased costs and project interruptions and delays. Additionally, a recent federal appeals court ruling invalidated certain federal approvals for a large natural gas pipeline project from West Virginia to Virginia that we were constructing for a customer. Furthermore, certain regulatory requirements applicable to our customers are also required of us when we contract with such customers, and our inability to meet those requirements could also result in decreased demand for our services.

With respect to certain services in our Underground Utility and Infrastructure Solutions segment, concerns about climate-related issues could potentially result in new legislation, regulation, regulatory actions or other requirements at the local, state or federal level, which could negatively affect certain of our customers and decrease demand for their services, result in increased costs associated with our operations, or impact the prices we charge our customers. Any new requirements to reduce, or taxes on the production and/or consumption of, fossil fuels could negatively impact the hydrocarbon production volumes of our customers, which could in turn negatively impact demand for certain of our services. New regulations addressing greenhouse gas emissions from mobile sources could also significantly increase costs for our large fleet of vehicles, render portions of our fleet of vehicles obsolete or reduce the availability of vehicles we need to perform our services. In addition, if a portion of our operations are perceived to result in high greenhouse gas emissions, our reputation could suffer. Increased regulatory requirements have negatively impacted us and our customers and decreased demand for our services in the past, and may do so in the future, which can adversely affect our business, financial condition, results of operations and cash flows.

Additionally, with respect to certain services within our Renewable Energy Infrastructure Solutions segment, current and potential legislative or regulatory initiatives may not be implemented or extended or result in incremental increased demand for our services, including legislation or regulation that mandates percentages of power to be generated from renewable sources, requires utilities to meet reliability standards, provides for existing or new production tax credits for renewable energy developers, or encourages installation of new electric power transmission and renewable energy generation facilities. While these actions and initiatives have positively impacted demand for our services in the past, it is not certain whether they will continue to do so in the future. In addition, new legislation and regulatory requirements related to sourcing restrictions on materials necessary for certain renewable energy projects could negatively impact our renewable energy customers and delay or jeopardize the viability of certain renewable energy projects in the future. For example, sourcing restrictions on certain solar project materials produced in China (e.g., solar panels) could decrease the availability and increase the pricing of such materials, and negatively impact our customers and certain solar infrastructure projects in the near term, which could adversely affect our business, financial condition, results of operations and growth prospects.

#### Our unionized workforce and related obligations may adversely affect our operations.

As of December 31, 2021, approximately 35% of our employees were covered by collective bargaining agreements and the number of our employees covered by collective bargaining agreements could increase in the future for a variety of reasons, including acquisitions, unionization of a non-union operating company, project requirements and changes in law. For a variety of reasons, our unionized workforce could adversely impact relationships with our customers and adversely affect our business, financial condition, results of operations and cash flows. For instance, although the majority of the collective bargaining agreements prohibit strikes and work stoppages, certain of our unionized employees have participated in strikes and work stoppages in the past and strikes or work stoppages could occur in the future. Our ability to complete future acquisitions also could be adversely affected because of our operating companies' union status, including because our union agreements may be incompatible with the union agreements of a business we want to acquire or because a business we want to acquire may not want to become affiliated with our operating companies that have employees covered by collective bargaining obligations. Additionally, certain of our customers require or prefer a non-union workforce, and they may reduce the amount of work assigned to us if our non-union labor crews become unionized.

Our collective bargaining agreements generally require us to participate with other companies in multiemployer pension plans. To the extent a plan is underfunded, we may be subject to substantial liabilities if we withdraw or are deemed to

withdraw from the plan or the plan is terminated or experiences a mass withdrawal. For example, we have been involved in several litigation matters associated with our withdrawal from the Central States, Southeast and Southwest Areas Pension Plan, certain of which were settled in 2017. Further, special funding and operational rules are generally applicable to multiemployer plans that are classified as "endangered," "seriously endangered" or "critical" status based on multiple factors (including, for example, the plan's funded percentage, cash flow position and a projected minimum funding deficiency). Plans in these classifications must adopt remedial measures, which may require additional contributions from employers (e.g., a surcharge on benefit contributions) and/or modifications to retiree benefits. Certain plans to which we contribute or may contribute in the future have these funding statuses, and we may be obligated to contribute material amounts to these plans in the future, which could negatively impact our business, financial condition, results of operations and cash flows. For additional information on our contributions to, and the funding status of, these plans, see Note 15 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report.

#### We could be adversely affected by our failure to comply with the laws applicable to our foreign activities.

Applicable U.S. and non-U.S. anti-corruption laws, including but not limited to the U.S. Foreign Corrupt Practices Act (FCPA), prohibit us from, among other things, corruptly making payments to non-U.S. officials for the purpose of obtaining or retaining business. We pursue certain opportunities in countries that experience government corruption, and in certain circumstances, compliance with these laws may conflict with local customs and practices. Our policies mandate compliance with all applicable anti-corruption laws and our procedures and practices are designed to ensure that our employees and intermediaries comply with these laws. However, there can be no assurance that such policies, procedures and practices will protect us from liability under the FCPA or other similar laws for actions or inadvertences by our employees or intermediaries. Liability for such actions or inadvertences could result in severe criminal or civil fines, penalties, forfeitures, disgorgements or other sanctions, which in turn could have a material adverse effect on our reputation, business, financial condition, results of operations, and cash flows. In addition, detecting, investigating and resolving actual or alleged violations can be expensive and consume significant time and attention of our senior management, in-country management, and other personnel.

#### Changes in tax laws could adversely affect our financial results.

We are subject to extensive tax liabilities imposed by multiple jurisdictions, including income taxes, indirect taxes (excise/duty, sales/use, gross receipts, and value-added taxes), payroll taxes, franchise taxes, withholding taxes, and ad valorem taxes. New tax laws, treaties and regulations and changes in existing tax laws, treaties and regulations are continuously being enacted or proposed, all of which can result in significant changes to the tax rate on our earnings and have a material impact on our earnings and cash flows from operations. Since future changes to federal and state tax legislation and regulations are unknown, we cannot predict the ultimate impact such changes may have on our business. In addition, significant judgment is required in determining our worldwide provision for income taxes. In the ordinary course of our business, there are many transactions and calculations where the ultimate tax determination is uncertain. We are regularly under audit by tax authorities, and our tax estimates and tax positions could be materially affected by many factors, including the final outcome of tax audits and related litigation, the introduction of new tax accounting standards, legislation, regulations and related interpretations, our global mix of earnings, our ability to realize deferred tax assets and changes in uncertain tax positions. A significant increase in our tax rate can have a material adverse effect on our profitability and liquidity.

### Our failure to comply with environmental laws and regulations could result in significant liabilities and increased costs.

Our operations are subject to various environmental laws and regulations, including those dealing with the handling and disposal of waste products, PCBs, fuel storage, water quality and air quality. We perform work in many different types of underground environments. If the field location maps supplied to us are not accurate, or if objects are present in the soil that are not indicated on the field location maps, our underground work could strike objects in the soil, some of which may contain pollutants. These objects may also rupture, resulting in the discharge of pollutants. In such circumstances, we may be liable for fines and damages, and we may be unable to obtain reimbursement from any parties providing the incorrect information. We also perform work, including directional drilling, in and around environmentally sensitive areas such as rivers, lakes and wetlands. Due to the inconsistent nature of the terrain and water bodies, it is possible that such work may cause the release of subsurface materials that contain contaminants in excess of amounts permitted by law, potentially exposing us to remediation costs and fines. Additionally, we own and lease facilities that contain above- and below-ground fuel storage tanks, which could leak and cause us to be responsible for remediation costs and fines. The obligations, liabilities, fines and costs associated with these and other events can be material and could have a material adverse impact on our business, financial condition, results of operations and cash flows. Moreover, new laws and regulations or the stricter enforcement of existing laws and regulations, as well as the discovery of previously unknown contamination or leaks or the imposition of new clean-up requirements, could require us to incur significant costs or become the basis for new or increased liabilities. In certain instances, we have obtained indemnification and other rights from third parties (including predecessors or lessors) for such obligations and liabilities; however, these indemnities may not cover all of our costs and indemnitors may not pay amounts owed to us. Further, in

connection with an acquisition, we cannot be certain that we identify all potential environmental liabilities relating to any acquired business when we are negotiating an indemnification right.

#### Certain regulatory requirements applicable to us and certain of our subsidiaries could materially impact our business.

We are subject to various specific regulatory regimes and requirements that could result in significant compliance costs and liabilities. As a public company, we are subject to various corporate governance and financial reporting requirements, including requirements for management to report on our internal controls over financial reporting and for our independent registered public accounting firm to express an opinion on the operating effectiveness of our internal control over financial reporting. Our internal control over financial reporting was effective as of December 31, 2021; however, there can be no assurance that our internal control over financial reporting will be determined to be effective in future years. Furthermore, the current assessment of our internal control over financial reporting excludes businesses acquired during the year ended December 31, 2021, including our acquisition of Blattner, and significant costs and effort are required to ensure that newly acquired businesses are operating effectively. Failure to maintain effective internal controls, including the identification and remediation of significant internal control deficiencies in acquired businesses (both prior acquisitions and future acquisitions), could result in a decrease in the market value of our publicly traded securities, a reduced ability to obtain debt and equity financing, a loss of customers, fines or penalties, and/or additional expenditures to meet the requirements or remedy any deficiencies.

Additionally, one of our subsidiaries has registered as an investment adviser with the SEC under the U.S. Investment Advisers Act of 1940, as amended (the Advisers Act), which imposes substantive and material restrictions and requirements on the operations of this subsidiary, including certain fiduciary duties that apply to its relationships with its advisory clients. The SEC has broad administrative powers to institute proceedings and impose sanctions for violations of the Advisers Act, ranging from fines and censures to termination of an adviser's registration. This subsidiary is also subject to periodic SEC examinations and other requirements, including, among other things, maintaining an effective compliance program, recordkeeping and reporting requirements, disclosure requirements and complying with anti-fraud prohibitions. The failure of our subsidiary to comply with the requirements of the Advisers Act could result in fines, suspensions of individual employees or other sanctions against our subsidiary that could have a material adverse effect on us. Even if an investigation or proceeding does not result in a fine or sanction or if a fine or sanction imposed against our subsidiary or its employees were small in monetary amount, the adverse publicity relating to an investigation, proceeding or imposition of these fines or sanctions could harm our reputation and have a material adverse effect on us.

Furthermore, our wholly-owned captive insurance company is a registered insurance company with the Texas Department of Insurance, and therefore is subject to various rules and regulations and required to meet certain capital requirements, which can result in additional use of our resources. Our postsecondary educational institution is subject to authorization and regulatory oversight in the various states in which it operates, and failure to comply with these requirements could result in significant monetary damages or subject these entities to fines, limitations on operations, injunctions or other penalties. The postsecondary educational institution is also accredited by the Accrediting Commission of Career Schools and Colleges, and loss of accreditation could result in reputational harm or student-initiated litigation or negatively impact our ability to train skilled personnel that can be utilized to support our business.

We also collect and retain information about our customers, stockholders, vendors and employees. Legislation and regulatory requirements, as well as contractual commitments, affect how we must store, use, transfer and process the confidential information of our customers, stockholders, vendors and employees. These laws, as well as other new or changing legislative, regulatory or contractual requirements concerning data privacy and protection, could require us to expend significant additional compliance costs, and any failure to comply with such requirements can result in significant liability or harm to our reputation.

# Opportunities within the government arena could subject us to increased regulation and costs and may pose additional risks relating to future funding and compliance.

Most government contracts are awarded through a regulated competitive bidding process, which can often be more time consuming than the bidding process for non-governmental projects. Additionally, involvement with government contracts could require a significant amount of costs to be incurred before any revenues are realized. We are also subject to numerous procurement rules and other public sector regulations when we contract with certain governmental agencies, any deemed violation of which could lead to fines or penalties or a loss of business. Government agencies routinely audit and investigate government contractors and may review a contractor's performance under its contracts, cost structure and compliance with applicable laws, regulations and standards. If a government agency determines that costs were improperly allocated to specific contracts, such costs will not be reimbursed or a refund of previously reimbursed costs may be required. If a government agency alleges or proves improper activity, civil and criminal penalties could be imposed and serious reputational harm could result. Many government contracts must be appropriated each year, and without re-appropriation we would not realize all of the potential revenues from any awarded contracts. Additionally, U.S. government shutdowns or any related under-staffing of the

government departments or agencies that interact with our business could result in program cancellations, disruptions and/or stop work orders, could limit the government's ability to effectively progress programs and make timely payments, and could limit our ability to perform on our existing U.S. government contracts and successfully compete for new work.

### Immigration laws, including our inability to verify employment eligibility and restrictions on movement of our foreign employees, could adversely affect our business or reputation.

We employ a significant number of employees, and while we utilize processes to assist in verifying the employment eligibility of potential new employees so that we maintain compliance with applicable laws, it is possible some of our employees may be unauthorized workers. In addition, we utilize certain non-immigrant visas to allow us to temporarily transfer certain of our foreign employees to the United States. The employment of unauthorized workers or failure to comply with the requirements of these non-immigrant visas could subject us to fines, penalties and other costs, as well as result in adverse publicity that negatively impacts our reputation and brand and may make it more difficult to hire and retain qualified employees. Furthermore, to the extent we are subject to penalties or delays that prevent the future transfer of our foreign employees to the United States, we may incur additional costs to hire and train new employees. For example, as a result of the COVID-19 pandemic, we have experienced delays and restrictions due to immigration processes that have prevented certain foreign workers from entering and working in the United States and Canada. Immigration laws have also been an area of considerable political focus in recent years, and, from time-to-time, the U.S. government considers or implements changes to federal immigration laws, regulations or enforcement programs. Changes in immigration or work authorization laws may increase our obligations for compliance and oversight, which could subject us to additional costs and potential liability and make our hiring and employee transfer processes more cumbersome, or reduce the availability of potential employees.

#### **Risks Related to Financing Our Business**

#### We may not have access in the future to sufficient funding to finance desired growth and operations.

If we cannot secure future funds or financing on acceptable terms or generate sufficient cash flow, we may be unable to support our future operations or growth strategy. The timing of our funding needs and the size of our operations and strategic initiatives that require capital cannot be readily predicted and may be substantial. For example, during 2021 we incurred approximately \$2.30 billion of debt to complete our acquisition of Blattner. We also rely on financing companies to fund the leasing of certain of our equipment, and credit market conditions may restrict access to capital for the leasing of additional equipment. A lack of available capital to fund the leasing of equipment could negatively impact our future operations.

The credit agreement for our senior credit facility and the indenture for our senior notes contain certain restrictions, including financial covenants and other restrictions on our ability to borrow amounts under the credit agreement and limitations on our ability to incur additional debt or conduct certain types of preferred equity financings. Our ability to increase the current commitments under our senior credit facility is also dependent upon additional commitments from our lenders. Furthermore, if we seek additional debt or equity financings, we cannot be certain they will be available to us on acceptable terms or at all, as banks are often restrictive in their lending practices, and our ability to access capital markets for financing could be limited by, among other things, our existing capital structure, our credit ratings, the state of the economy, the health of our industries, and the liquidity of the capital markets. If we are unable to borrow under our senior credit facility or secure other financing or if our lenders become unable or unwilling to fund their commitments to us, we may not be able to access the capital needed to fund our growth and operations, which could have a material adverse impact on our business, financial condition, results of operations and cash flows. For additional information on the terms of our senior credit facility and senior notes, please read Note 10 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

Additionally, the market price of our common stock has fluctuated significantly in the past, and may fluctuate significantly in the future, in response to various factors, including events beyond our control, which could impact our ability to utilize capital markets to obtain funds. A variety of events may cause the market price of our common stock to fluctuate significantly, including overall market conditions or volatility, actual or perceived negative financial results or other unfavorable information relating to us or our market peers, and the other risks described in this Annual Report.

## We have a significant amount of debt, and our significant indebtedness could adversely affect our business, financial condition and results of operations and our ability to meet our payment obligations under our other debt.

We have a significant amount of debt and debt service requirements. As of December 31, 2021, we had approximately \$3.72 billion of outstanding long-term debt, net of current maturities, which includes amounts borrowed during 2021 to finance a portion of the closing consideration paid in connection with our acquisition of Blattner. We also had \$1.87 billion of undrawn borrowing capacity under our senior credit facility as of December 31, 2021. This level of debt could have significant consequences on our future operations, including:

· making it more difficult for us to meet our payment and other obligations under our outstanding debt;

- resulting in an event of default if we fail to comply with the financial and other restrictive covenants contained in our debt agreements, which event of default could result in all of our debt becoming immediately due and payable;
- reducing the availability of our cash flows to fund working capital, capital expenditures, acquisitions or strategic
  investments, dividends and other general corporate purposes, and limiting our ability to obtain additional financing for
  these purposes;
- subjecting us to the risk of increasing interest expense on variable rate indebtedness, including borrowings under our senior credit facility;
- limiting our flexibility in planning for, or reacting to, and increasing our vulnerability to changes in our business, the industries in which we operate and the general economy;
- limiting our ability to pursue business opportunities that become available to us; and
- placing us at a competitive disadvantage compared to our competitors that have less debt or are less leveraged.

Any of the above-listed factors could have an adverse effect on our business, financial condition and results of operations and our ability to meet our payment obligations on our existing indebtedness.

## Servicing our debt requires a significant amount of cash, and we may not have sufficient cash flow from our operations to pay our indebtedness.

Our ability to generate cash in order to make scheduled payments on the principal of, to pay interest on or to refinance our indebtedness depends on our future performance, which is subject to economic, financial, competitive, legislative, regulatory and other factors beyond our control. In addition, our ability to borrow funds in the future to make payments on our debt will depend on the satisfaction of the covenants in our senior credit facility and our other financing and other agreements we may enter into in the future. Specifically, we will need to maintain certain financial ratios. Our business may not continue to generate sufficient cash flow from operations in the future and future borrowings may not be available to us under our senior credit facility or from other sources in an amount sufficient to service our indebtedness to make necessary capital expenditures or to fund our other liquidity needs. If we are unable to generate cash from our operations or through borrowings, we may be required to adopt one or more alternatives, such as selling assets, restructuring debt or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to make payments on our indebtedness or refinance our indebtedness will depend on factors including the state of the capital markets and our financial condition at such time, as well as the terms of our financing agreements. We may not be able to engage in any of these activities or engage in these activities on desirable terms, which could result in a default on our debt obligations.

## Our variable rate indebtedness subjects us to interest rate risk and the transition away from LIBOR could have an adverse impact on us.

Borrowings under our senior credit facility are at variable rates of interest and expose us to interest rate risk. If interest rates increase, our debt service obligations on the variable rate indebtedness will increase even if the amount borrowed remains the same, and our net income and cash flows, including cash available for servicing our indebtedness, will correspondingly decrease. Our weighted average interest rate on our variable rate debt for the year ended December 31, 2021 was 1.9%. The annual effect on our pretax earnings of a hypothetical 50 basis point increase or decrease in variable interest rates would be approximately \$6.0 million based on our December 31, 2021 balance of variable rate debt. Additionally, financial markets are in the process of transitioning away from the London Interbank Offered Rate (LIBOR) to alternative benchmark rate(s), and such transition is scheduled to be complete by mid-2023. As described in further detail in *Senior Credit Facility* within Note 10 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, the credit agreement for our senior credit facility contains LIBOR benchmark replacement provisions. However, at this time, there can be no assurance as to whether any alternative benchmark or resulting interest rates may be more or less favorable than LIBOR or any other unforeseen impacts of the discontinuation of LIBOR. As a result, the proposals or consequences related to this transition could have a material adverse effect on our debt service obligations, financing costs, liquidity, financial condition, results of operations or cash flows and could impair our access to the capital markets.

#### We may be unable to compete for projects if we are not able to obtain surety bonds, letters of credit or bank guarantees.

A portion of our business depends on our ability to provide surety bonds, letters of credit, bank guarantees or other financial assurances. Current or future market conditions, including losses incurred in the construction industry or as a result of large corporate bankruptcies, as well as changes in our sureties' assessment of our operating and financial risk, could cause our surety providers and lenders to decline to issue or renew, or substantially reduce the amount of, bid or performance bonds for our work and could increase our costs associated with collateral. These actions could be taken on short notice. If our surety providers or lenders were to limit or eliminate our access to bonding, letters of credit or guarantees, our alternatives would include seeking capacity from other sureties and lenders or finding more business that does not require bonds or that allows for

other forms of collateral for project performance, such as cash. We may be unable to secure these alternatives in a timely manner, on acceptable terms, or at all, which could affect our ability to bid for or work on future projects requiring financial assurances.

Under standard terms in the surety market, sureties issue or continue bonds on a project-by-project basis and can decline to issue bonds at any time or require the posting of additional collateral as a condition to issuing or renewing bonds. If we were to experience an interruption or reduction in the availability of bonding capacity as a result of these or other reasons, we may be unable to compete for or work on certain projects that require bonding.

#### A downgrade in our debt rating could restrict our ability to access the capital markets.

The terms of our financings are, in part, dependent on the credit ratings assigned to our debt by independent credit rating agencies. We cannot provide assurance that our current credit rating will remain in effect for any given period of time or that it will not be lowered or withdrawn entirely by a rating agency. Factors that may impact our credit rating include, among other things, our debt levels and liquidity, capital structure, financial performance, planned asset purchases or sales, near- and long-term growth opportunities, customer base and market position, geographic diversity, regulatory environment, project performance and risk profile. A downgrade in our credit rating, particularly to non-investment grade levels, could limit our ability to access the debt capital markets or refinance our existing debt or cause us to refinance or issue debt with less favorable terms and conditions. An increase in the level of our indebtedness and related interest costs may increase our vulnerability to adverse general economic and industry conditions and may affect our ability to obtain additional financing, as well as have a material adverse effect on our business, financial condition, results of operations and cash flows.

#### Risks Related to Our Common Stock

## Our sale or issuance of additional common stock or other equity-related securities could dilute each stockholder's ownership interest or adversely affect the market price of our common stock.

We often fund a significant portion of the consideration paid in connection with our acquisitions with the issuance of additional equity securities, including contingent consideration amounts payable if acquired businesses achieve certain performance objectives during specified post-acquisition periods. We also utilize stock-based compensation as a key component of our compensation program. We expect to issue additional equity securities in the future in connection with these and other practices. Our Restated Certificate of Incorporation provides that we may issue up to 600,000,000 shares of common stock, of which 142,633,934 shares were outstanding as of December 31, 2021. Any additional issuances of common stock would have the effect of diluting our earnings per share and our existing stockholders' individual ownership percentages and lead to volatility in the market price of our common stock. We cannot predict the effect that future issuances of our common stock or other equity-related securities would have on the market price of our common stock.

#### There can be no assurance that we will declare or pay future dividends on our common stock.

The declaration, amount and timing of future dividends are subject to capital availability and determinations by our Board of Directors that cash dividends are in the best interest of our stockholders and are in compliance with all respective laws and applicable agreements. Our ability to declare and pay dividends will depend upon, among other factors, our financial condition, results of operations, cash flows, current and anticipated expansion plans, requirements under Delaware law and other factors that our Board of Directors may deem relevant. A reduction in or elimination of our dividend payments could have a material negative effect on our stock price.

#### Certain provisions of our corporate governing documents could make an acquisition of our company more difficult.

The following provisions of our charter documents, as currently in effect, and Delaware law could discourage potential proposals to acquire us, delay or prevent a change in control of us or limit the price that investors may be willing to pay in the future for shares of our common stock:

- our certificate of incorporation permits our Board of Directors to issue "blank check" preferred stock and to adopt amendments to our bylaws;
- our bylaws contain restrictions regarding the right of stockholders to nominate directors and to submit proposals to be considered at stockholder meetings;
- our certificate of incorporation and bylaws restrict the right of stockholders to call a special meeting of stockholders and to act by written consent; and
- we are subject to provisions of Delaware law which restrict us from engaging in any of a broad range of business transactions with an "interested stockholder" for a period of three years following the date such stockholder became classified as an interested stockholder.

#### ITEM 1B. Unresolved Staff Comments

None.

#### ITEM 2. Properties

#### **Facilities**

We lease office space for our corporate headquarters in Houston, Texas, and own and lease other facilities throughout the United States, Canada, Australia and certain other foreign countries where we conduct business. These facilities are utilized for operations in all of our reportable segments and include offices, equipment yards, warehouses, storage, maintenance shops and training and educational facilities. As of December 31, 2021, we owned 76 of our facilities and leased the remainder. Included in the owned facilities is certain real property, including associated buildings and facilities, located in Houston, Texas, that we purchased through our wholly-owned captive insurance company during 2021 and that is being developed for our future corporate headquarters, as further described in Note 8 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. We believe that our existing facilities are suitable and adequate for our current needs; however, we continue to evaluate real estate strategies to support our recent growth.

#### **Equipment**

We operate a fleet of owned and leased trucks and trailers, support vehicles and specialty construction equipment, such as bucket trucks, digger derricks, backhoes, excavators, trenchers, generators, boring machines, cranes, robotic arms, wire pullers, tensioners and helicopters. As of December 31, 2021, the total size of our rolling stock fleet was approximately 70,000 units. Most of our fleet is serviced by our own mechanics who work at various maintenance sites and facilities. We believe that our equipment is generally well maintained and is suitable and adequate for our present operations.

#### ITEM 3. Legal Proceedings

We are from time to time party to various lawsuits, claims and other legal proceedings that arise in the ordinary course of business. These actions typically seek, among other things, compensation for alleged personal injury, breach of contract, negligence or gross negligence and/or property damage, environmental liabilities, wage and hour claims and other employment-related damages, punitive damages, consequential damages, civil penalties or other losses, or injunctive or declaratory relief, as well as interest and attorneys' fees associated with such claims. With respect to all such lawsuits, claims and proceedings, we record a reserve when it is probable that a loss has been incurred and the amount of loss can be reasonably estimated. In addition, we disclose matters for which management believes a material loss is at least reasonably possible. See Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, which is incorporated by reference in this Item 3, for additional information regarding litigation, claims and other legal proceedings.

#### ITEM 4. Mine Safety Disclosures

Not applicable.

#### **PART II**

### ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock is listed on the New York Stock Exchange (NYSE) under the symbol "PWR." On February 22, 2022, there were approximately 517 holders of record of our common stock. This number does not include stockholders for whom shares of our common stock are held in "nominee" or "street name." See Note 13 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report for additional discussion of our equity securities.

#### **Unregistered Sales of Securities During the Fourth Quarter of 2021**

On October 13, 2021, we completed the acquisition of Blattner. A portion of the consideration for the acquisition consisted of 3,326,955 shares of our common stock, valued at \$345.4 million as of the acquisition date. Additionally, on October 1, 2021, December 1, 2021, December 17, 2021 and December 21, 2021, we completed acquisitions in which a portion of the consideration consisted of the unregistered issuance of shares of our common stock. The aggregate consideration paid at closing in these acquisitions included 154,271 shares of our common stock, valued at \$14.4 million as of the acquisition dates.

For additional information about these acquisitions, see Note 6 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report. The shares of common stock issued in these transactions were issued in reliance upon the exemption from registration provided by Section 4(a)(2) of the Securities Act of 1933, as amended, as the shares were issued to the owners of the businesses acquired in a privately negotiated transaction not involving any public offering or solicitation.

#### **Issuer Purchases of Equity Securities During the Fourth Quarter of 2021**

The following table contains information about our purchases of equity securities during the three months ended December 31, 2021.

Mavimum

Period	Total Number of Shares Purchased			Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Number (or Approximate Dollar Value) of Shares That May Yet be Purchased Under the Plans or Programs <sup>(1)</sup>	
October 1 - 31, 2021						
Open Market Stock Repurchases (1)	_	\$	_	_	\$	472,819,735
Tax Withholdings (2)	7,767	\$	116.98	_		
November 1 - 30, 2021						
Open Market Stock Repurchases (1)	_	\$	_	_	\$	472,819,735
Tax Withholdings (2)	5,999	\$	117.89	_		
December 1 - 31, 2021						
Open Market Stock Repurchases (1)	_	\$	_	_	\$	472,819,735
Tax Withholdings (2)	3,443	\$	115.08			
Total	17,209				\$	472,819,735

<sup>(1)</sup> On August 6, 2020, we issued a press release announcing that our Board of Directors approved a stock repurchase program that authorizes us to purchase, from time to time through June 30, 2023, up to \$500.0 million of our outstanding common stock. Repurchases under this program can be made in open market and privately negotiated transactions, at our discretion, based on market and business conditions, applicable contractual and legal requirements and other factors. The program does not obligate us to acquire any specific amount of common stock and may be modified or terminated by our Board of Directors at any time at its sole discretion and without notice.

<sup>(2)</sup> Includes shares purchased from employees to satisfy tax withholding obligations in connection with the vesting of restricted stock unit and performance stock unit awards or the settlement of previously vested but deferred restricted stock unit and performance stock unit awards.

#### **Dividends**

We have declared a quarterly dividend during each quarter beginning in the fourth quarter of 2018, and we currently expect that comparable cash dividends will continue to be paid for the foreseeable future. The declaration, payment and amount of future cash dividends will be at the discretion of our Board of Directors after taking into account various factors, including our financial condition, results of operations, cash flows from operations, current and anticipated capital requirements and expansion plans, income tax laws then in effect and the requirements of Delaware law. In addition, as discussed in Notes 10 and 13 in Item 8. *Financial Statements and Supplementary Data* of this Annual Report, the credit agreement for our senior credit facility restricts the payment of cash dividends unless certain conditions are met.

#### **Performance Graph**

The following Performance Graph and related information shall not be deemed "soliciting material" or to be "filed" with the Securities and Exchange Commission, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or Securities Exchange Act of 1934, each as amended, except to the extent that we specifically incorporate it by reference into such filing.

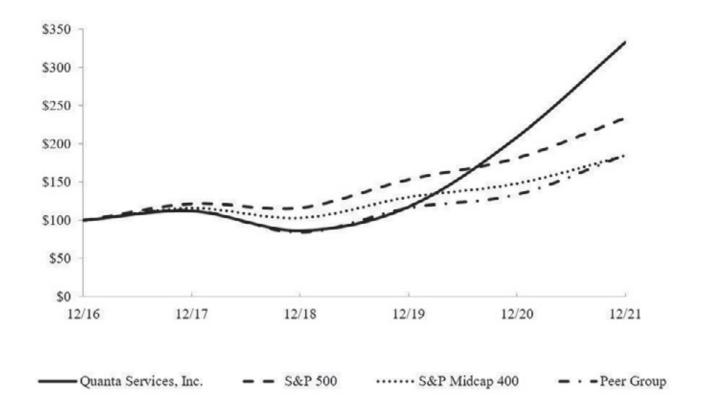
The following graph compares, for the period from December 31, 2016 to December 31, 2021, the cumulative stockholder return on our common stock with the cumulative total return of the S&P 500 Index (the S&P 500), the S&P MidCap 400 Index (the S&P Mid-Cap 400) and a peer group selected by our management that includes public companies within our industries. The companies in the peer group were selected to represent a broad group of publicly held corporations with operations similar to ours, and includes AECOM, Dycom Industries, Inc., EMCOR Group Inc., Fluor Corporation, Jacobs Engineering Group Inc., KBR, Inc., MasTec, Inc., MYR Group Inc. and Primoris Services Corporation.

The graph below assumes an investment of \$100 (with reinvestment of all dividends) in our common stock, the S&P 500, the S&P MidCap 400 and the peer group on December 31, 2016 and tracks their relative performance through December 31, 2021. The returns of each company in the peer group is weighted based on the market capitalization of that company at the

beginning of the measurement period. The stock price performance reflected in the following graph is not necessarily indicative of future stock price performance.

### COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN

Among Quanta Services, Inc., the S&P 500, the S&P MidCap 400 and the Peer Group



	December 31,							
	2016	2017	2018	2019	2020	2021		
Quanta Services, Inc.	\$ 100.00	\$ 112.22	\$ 86.48	\$ 117.48	\$ 208.81	\$ 333.05		
S&P 500	\$ 100.00	\$ 121.83	\$ 116.49	\$ 153.17	\$ 181.35	\$ 233.41		
S&P MidCap 400	\$ 100.00	\$ 116.24	\$ 103.36	\$ 130.44	\$ 148.26	\$ 184.96		
Peer Group	\$ 100.00	\$ 113.46	\$ 84.16	\$ 116.31	\$ 133.60	\$ 186.09		

ITEM 6. [Reserved]

#### ITEM 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations of Quanta Services, Inc. (together with its subsidiaries, Quanta, we, us or our) should be read in conjunction with our consolidated financial statements and related notes in Item 8. Financial Statements and Supplementary Data of this Annual Report. The discussion below contains forward-looking statements that are based upon our current expectations and are subject to uncertainty and changes in circumstances. Actual results may differ materially from these expectations due to inaccurate assumptions and known or unknown risks and uncertainties, including those identified in Cautionary Statement About Forward-Looking Statements and Information above and Item 1A. Risk Factors of this Annual Report.

#### Overview

We are a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the utility, renewable energy, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets. The performance of our business generally depends on our ability to obtain contracts with customers and to effectively deliver the services provided under those contracts. The services we provide include design, engineering, procurement, new construction, upgrade and repair and maintenance services for infrastructure within each of the industries we serve, such as electric power transmission and distribution networks; substation facilities; wind and solar energy generation and transmission and battery storage facilities; communications and cable multi-system operator networks; gas utility systems; pipeline transmission systems and facilities; and downstream industrial facilities. Our customers include many of the leading companies in the industries we serve, and we endeavor to develop and maintain strategic alliances and preferred service provider status with our customers. Our services are typically provided pursuant to master service agreements, repair and maintenance contracts and fixed price and non-fixed price new construction contracts.

Beginning with the three months ended December 31, 2021, we report our results under three reportable segments: (1) Electric Power Infrastructure Solutions, (2) Renewable Energy Infrastructure Solutions and (3) Underground Utility and Infrastructure Solutions, as further described in Item 1. *Business – Reportable Segments* of this Annual Report. This structure is generally focused on broad end-user markets for our services. Included within the Electric Power Infrastructure Solutions segment are the results related to our communications infrastructure services.

#### Current Year Financial Results and Significant Operational Trends and Events

Key consolidated financial results for the year ended December 31, 2021 included:

- Revenues increased 15.9%, or \$1.78 billion, to \$12.98 billion as compared to revenues of \$11.20 billion for the year ended December 31, 2020;
- Operating income increased 8.5%, or \$52.2 million, to \$663.5 million as compared to \$611.4 million for the year ended December 31, 2020;
- Net income attributable to common stock increased 9.1%, or \$40.4 million, to \$486.0 million as compared to \$445.6 million for the year ended December 31, 2020;
- Diluted earnings per share increased 8.8%, or \$0.27, to \$3.34 as compared to \$3.07 for the year ended December 31, 2020;
- EBITDA (a non-GAAP financial measure) increased 22.0%, or \$200.5 million, to \$1.11 billion as compared to \$912.7 million for the year ended December 31, 2020, and adjusted EBITDA (a non-GAAP financial measure) increased 19.9%, or \$209.3 million, to \$1.26 billion as compared to \$1.05 billion for the year ended December 31, 2020;
- Net cash provided by operating activities decreased 47.8%, or \$533.6 million, to \$582.4 million as compared to net cash provided by operating activities of \$1.12 billion for the year ended December 31, 2020;
- Remaining performance obligations increased 47.9%, or \$1.91 billion, to \$5.90 billion as of December 31, 2021 as compared to \$3.99 billion as of December 31, 2020; and
- Total backlog (a non-GAAP financial measure) increased 27.4%, or \$4.14 billion, to \$19.27 billion as of December 31, 2021 as compared to \$15.13 billion as of December 31, 2020.

For a reconciliation of EBITDA and adjusted EBITDA to net income attributable to common stock, the most comparable GAAP financial measure, and a reconciliation of backlog to remaining performance obligations, the most comparable GAAP financial measure, see *Non-GAAP Financial Measures* below.

As described below, during the year ended December 31, 2021, our results reflected certain significant operational trends and events as compared to the year ended December 31, 2020, with certain of our segment results of operations recast to conform to our current segment reporting structure.

Electric Power Infrastructure Solutions Segment

- Revenues increased by 17.9% to \$7.62 billion, as compared to \$6.47 billion.
- Operating income increased by 33.5% to \$865.4 million, as compared to \$648.4 million, and operating income as a percentage of revenues increased to 11.4%, as compared to 10.0%.
- Revenues increased primarily due to growth in spending by our utility customers on grid modernization, resulting in
  increased demand for our electric power services, as well as approximately \$245 million of revenues attributable to
  acquired businesses and a \$90 million positive impact related to more favorable foreign currency exchange rates,
  primarily the Canadian dollar and U.S. dollar exchange rate.
- Operating income increased primarily due to higher revenues. The increase in operating income as a percentage of revenues was primarily attributable to improved performance across the segment, higher levels of fixed cost absorption, and favorable contributions associated with the timing of projects and project mix. Also positively impacting operating income was \$44.1 million of equity in earnings in LUMA and other integral affiliates, which represented a \$32.8 million increase from the year ended December 31, 2020. Additionally, although we had substantially completed our exit from Latin America as of December 31, 2020, Electric Power Infrastructure Solutions operating income for the year ended December 31, 2020 included \$74.0 million of operating losses related to Latin American operations. Partially offsetting the positive impact of these items were losses associated with certain communications projects during the year ended December 31, 2021 due to various production issues, poor subcontractor performance, challenging site conditions, permitting delays, increased completion costs and weather and seasonal impacts.

Renewable Energy Infrastructure Solutions Segment

- Revenues increased by 39.9% to \$1.83 billion, as compared to \$1.31 billion.
- Operating income increased by 2.2% to \$181.9 million, as compared to \$177.9 million, and operating income as a percentage of revenues decreased to 10.0%, as compared to 13.6%.
- Revenues increased primarily due to a \$450 million increase in revenues attributable to acquired businesses, primarily Blattner, the results of operations of which are included since the acquisition date of October 13, 2021.
- The increase in operating income was primarily due to higher revenues associated with the acquisition of Blattner. Blattner's results as a percentage of operating income were largely in line with results associated with the transmission and interconnection construction related to the renewable energy infrastructure. The decrease in operating income as a percentage of revenues for the year ended December 31, 2021 compared to the year ended December 31, 2020 was primarily due to the favorable close-out of certain projects in 2020.

Underground Utility and Infrastructure Solutions Segment

- Revenues increased by 3.0% to \$3.53 billion, as compared to \$3.43 billion.
- Operating income decreased by 11.7% to \$150.1 million, as compared to \$170.1 million, and operating income as a percentage of revenues decreased to 4.3%, as compared to 5.0%.
- Revenues increased primarily due to higher demand for our services from our gas utility and industrial customers; \$25 million related to more favorable foreign currency exchange rates, primarily the Canadian dollar and U.S. dollar exchange rate; and approximately \$20 million of revenues attributable to acquired businesses.
- Operating income and operating income as a percentage of revenues decreased primarily due to the recognition of \$31.7 million of provision for credit losses related to receivables owed from a customer that declared bankruptcy in July 2021, and its affiliate, which is described further in *Accounts Receivable and Allowance for Credit Losses*

within Note 4 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

See *Business Environment, Results of Operations* and *Liquidity and Capital Resources* below for additional information and discussion related to consolidated and segment results.

### Recent Significant Acquisition and Related Debt Financing

On October 13, 2021, we completed the acquisition of Blattner, a large and leading utility-scale renewable energy infrastructure solutions provider that is located in and primarily operates in North America. Consideration for this acquisition was \$2.37 billion paid or payable in cash (subject to certain adjustments) and 3,326,955 shares of Quanta common stock, which had a fair value of \$345.4 million as of the date of the acquisition. The final amount of consideration for the acquisition remains subject to certain post-closing adjustments, including with respect to net working capital (inclusive of cash) and certain assumed liabilities. Additionally, the former owners of Blattner are eligible to receive the potential payment of up to \$300.0 million of contingent consideration, payable to the extent the acquired business achieves certain financial performance targets over a three-year period beginning in January 2022. Based on the estimated fair value of the contingent consideration, we recorded a \$125.6 million liability as of the date of the acquisition. Blattner's results of operations have been included in our consolidated financial statements since the acquisition date, with its results included in the Renewable Energy Infrastructure Solutions segment.

Additionally, we entered into certain debt financing arrangements in connection with our acquisition of Blattner. On September 23, 2021, we received net proceeds from the issuance of senior notes of \$1.48 billion, net of the original issue discount and underwriting discounts and deferred financing costs, and on October 13, 2021, we borrowed \$750.0 million from a term loan facility under our senior credit facility. We utilized these proceeds, together with approximately \$50.9 million of revolving loans borrowed under our senior credit facility, to pay the cash consideration due at closing for the acquisition of Blattner.

#### **Business Environment**

We believe there are long-term growth opportunities across our industries, and we continue to have a positive long-term outlook. Although not without risks and challenges, including those discussed in Item 1A. *Risk Factors* of this Annual Report, we believe, with our full-service operations, broad geographic reach, financial position and technical expertise, we are well positioned to capitalize on opportunities and trends in our industries.

Electric Power Infrastructure Solutions. Utilities are continuing to invest significant capital in their electric power delivery systems, particularly transmission, substation and distribution infrastructure, through multi-year, multi-billion dollar grid modernization and reliability programs, which have provided, and are expected to continue to provide, demand for our services. While the COVID-19 pandemic resulted in a short-term overall decline in electricity usage in 2020, primarily related to commercial and industrial users, demand recovered and continued to increase in 2021, and we expect demand for electricity in North America to grow over the long term and believe that certain segments of the North American electric power grid are not adequate to efficiently serve the power needs of the future. Furthermore, to the extent that electrification trends increase, including through, among other things, electric vehicle (EV) adoption, demand for electricity could be greater than currently anticipated. To accommodate this growth, we expect continued demand for new or expanded transmission, substation and distribution infrastructure to reliably transport power to meet demand driven by electrification and the modification and reengineering of existing infrastructure as existing coal and nuclear generation facilities are retired or shut down. In order to reliably and efficiently deliver power, and in response to federal reliability standards, utilities are also integrating smart grid technologies into distribution systems to improve grid management and create efficiencies, and in preparation for emerging technologies, such as EVs.

A number of utilities also continue to implement system upgrades and hardening programs in response to recurring severe weather events, such as hurricanes and wildfires. For example, utilities along the Eastern and Gulf Coasts of the United States are executing storm hardening programs to make their systems more resilient to hurricanes and other severe weather events, which we expect to continue for the foreseeable future. Additionally, there are significant system resiliency initiatives underway in California and other regions in the western United States that are designed to prevent and manage the impact of wildfires. While these resiliency initiatives provide additional opportunities for our services, they also increase our potential exposure to significant liabilities, as these events can be started by the failure of electric power and other infrastructure on which we have performed services. Utilities are also executing significant initiatives to underground critical infrastructure, including additional underground transmission and distribution initiatives by utilities in California, underground transmission projects in the northeast United States, underground distribution circuits along U.S. coastlines and underground transmission lines for offshore wind generation projects.

With respect to our communications service offerings, consumer and commercial demand for communication and dataintensive, high-bandwidth wireline and wireless services and applications is driving significant investment in infrastructure and
the deployment of new technologies. In particular, communications providers in North America are in the early stages of
developing new fifth generation wireless services (5G), which are intended to facilitate bandwidth-intensive services at high
speeds for consumers and commercial applications. Additionally, recent legislative and regulatory initiatives, including the
Rural Digital Opportunity Fund enacted by the Federal Communications Commission and the Infrastructure Investment and
Jobs Act, have dedicated billions of dollars of funding to support broadband service to underserved markets. As a result of these
industry trends, we believe there will be meaningful demand for our engineering and construction services. We also reoriented
our communications service offerings to strategically focus on the North American market, substantially completing the exit of
our Latin American communications operations during 2020, which we anticipate will result in improved profitability within
our communications services operations.

Renewable Energy Infrastructure Solutions. We believe the transition to a carbon-neutral economy, which is being driven by consumer and investor preferences, increasing electrification trends, supportive public policy actions and declining levelized costs of renewable energy, will require sizeable long-term investment in renewable generation and related infrastructure, including meaningful repowering and modernization of existing assets. To that end, renewable energy developers are expected to continue to increase investments in wind and solar projects, as well as energy storage projects. Utilities have increased the percentage of renewable electricity bought through power purchase agreements (PPAs) with renewable energy developers, and we believe are in the early stages of investing directly in renewable generation facilities, which could expand significantly over time as they pursue clean energy strategies and emissions-reduction initiatives. Also, a growing number of corporate enterprises, particularly technology companies, are entering into PPAs with renewable energy developers to source renewable electricity to power their facilities and achieve their own carbon reduction initiatives. We believe increased battery storage can support increased renewable energy development by providing shorter-term storage of electricity from renewable energy generation, particularly from solar facilities, which helps to manage the amount and timing of intermittent power placed on the grid from renewable generation. Though the current capacity of installed battery storage is much smaller than the amount of wind and solar capacity installed in North America, utility-scale battery storage capacity is expected to grow significantly and at higher rates over the longer term, which we believe will provide significant growth opportunities for us.

We believe these dynamics will generate significant demand in the near- and longer-term for our renewable energy infrastructure services, including our generation construction services and engineering expertise in utility-scale solar, wind and battery storage projects, as well as our services related to the development and construction of related infrastructure, including high-voltage electric transmission and substation infrastructure and battery storage facilities, which are necessary to interconnect and transmit electricity from new renewable energy generation facilities into the existing electric power grid and enhance grid reliability.

While the demand for certain renewable energy services could fluctuate in the short term due to, among other things, supply chain and other logistical difficulties that could delay projects, the availability of production tax credits, sourcing restrictions on materials and components necessary for certain projects (e.g., solar panels) or permitting delays, we believe we are well positioned, through our recent acquisition of Blattner and our existing renewable energy and transmission services offerings, to capitalize on the longer term growth trends with respect to the development of renewable energy generation and related infrastructure.

Underground Utility and Infrastructure Solutions. For several years we have focused on increasing our underground utility and infrastructure solutions related to specialty services and industries that we believe are driven by regulated utility spending, regulation, replacement and rehabilitation of aging infrastructure and safety and environmental initiatives, which we believe provide a greater level of business sustainability and predictability. These service offerings include gas utility services, pipeline integrity services and downstream industrial services. We believe focusing on these services helps to offset the seasonality and cyclicality of our larger pipeline project business, and although our strategic focus on larger pipeline projects has decreased, we continue to pursue project opportunities to the extent they satisfy our margin and risk profiles and support the needs of our customers.

Though we experienced short-term disruptions in 2020 and to a lesser extent in 2021 due to the COVID-19 pandemic, we believe demand for our gas utility distribution services will increase as a result of customer desire to upgrade and replace aging infrastructure and increasing regulatory requirements. In particular, natural gas utilities have implemented multi-decade modernization programs to replace aging cast iron, bare steel and plastic system infrastructure with modern materials for safety, reliability and environmental purposes. We believe there are also growth opportunities for our pipeline integrity, rehabilitation and replacement services, as regulatory measures have increased the frequency and stringency of pipeline integrity testing requirements that require our customers to test, inspect, repair, maintain and replace pipeline infrastructure to ensure that it operates in a safe, reliable and environmentally conscious manner. Further, permitting challenges associated with construction of new pipelines can make existing pipeline infrastructure more valuable, motivating owners to extend the useful life of existing pipeline assets through integrity initiatives.

Broader challenges and uncertainties in the energy market, which have been compounded by the COVID-19 pandemic, have materially impacted, and may continue to materially impact, our Underground Utility and Infrastructure Solutions segment. The extent to which these challenges continue depends on the pace of recovery of the global economy and our end market conditions. In particular, demand for our midstream and industrial services operations has declined as customers reduced and deferred regularly scheduled maintenance and capital projects due to lack of demand for refined products. Our services to downstream industrial energy customers, which are primarily located along the Gulf Coast of the United States and in other select markets in North America, have been negatively impacted by an overall decline in global demand for refined products during 2020 and 2021. While demand for our critical path catalyst services has remained solid, in the second half of 2020 customers began reducing onsite activity for our other services and have deferred maintenance and certain turnaround projects to 2022. However, to the extent commodity prices continue to strengthen and the global economy continues to recover, we believe the outlook for services with respect to these customers will continue to improve. We also believe there are significant long-term opportunities for these services, including our high-pressure and critical-path turnaround services, as well as our capabilities with respect to instrumentation and electrical services, piping, fabrication and storage tanks services, and other industrial services, and that processing facilities located along the U.S. Gulf Coast region should have certain long-term strategic advantages due to their proximity to affordable hydrocarbon resources. However, these processing facilities can also be negatively impacted for short-term periods due to severe weather events, such as hurricanes, tropical storms and floods.

Furthermore, the broader oil and gas industry is highly cyclical and subject to price and production volume volatility, which can impact demand for our services. For example, certain of our end markets where the price of oil is influential, such as Australia, the Canadian Oil Sands and certain oil-driven U.S. shale formations, have been materially impacted by uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic. As a result of these dynamics, our revenues related to larger pipeline projects have declined significantly over the last few years. This dynamic is supportive of our increased focus on specialty services and industries that are driven by regulated utility spending, regulation, replacement and rehabilitation of aging infrastructure and safety and environmental initiatives, which we believe provide a greater level of business sustainability and predictability.

Lastly, we believe there are also longer-term opportunities that may arise in this segment. For example, we believe natural gas, due to its expected abundant supply and attractive price over the long-term, will remain a fuel of choice for both primary power generation and backup power generation for renewable power plants in North America. We believe the favorable characteristics of natural gas could also position North America as a leading competitor in the global LNG export market. In certain areas, the existing pipeline system infrastructure is insufficient to support any future LNG export facilities, which could provide additional opportunities for our business. We also believe that customers in this segment are implementing strategies to reduce carbon emissions produced from their operations, which are providing incremental opportunities for our services, including developing infrastructure for blending hydrogen into natural gas flow to customers, carbon capture projects, which could include building or repurposing pipeline infrastructure. While certain customers are in various stages of evaluating or implementing these types of strategies, certain near-term opportunities exist and we believe more meaningful opportunities could occur over the longer term to the extent these strategies and opportunities progress and mature.

COVID-19 Pandemic Impact. The effects of the COVID-19 pandemic continue to significantly impact global economies due to, among other things, workforce and travel restrictions and supply chain, production and other logistical disruptions. While we have continued to operate substantially all of our activities as a provider of essential services, during the course of the pandemic our operations and financial results have been adversely impacted by reduced customer spending and demand for certain of our services (including as described above), as well as governmental responses to the COVID-19 pandemic, including shut-down orders and limitations on work site practices implemented by governments, which have negatively impacted (i) our Canadian operations and financial results during 2020 and 2021; (ii) our Australian operations and financial results during 2020 and 2021; (iii) our operations in certain major U.S. metropolitan markets that were meaningfully impacted by the pandemic during the first and second quarters of 2020; and (iv) our Latin American operations during 2020. Additionally, governmental vaccination and testing requirements related to COVID-19, as well as certain standards and guidance as to preventing the spread of COVID-19, have impacted and may continue to impact our business in the future. These include vaccination or testing standards and requirements issued by federal, state and local governmental entities that require employers to ensure their workforce is fully vaccinated or to require testing for unvaccinated workers. In addition, many of our customers have established vaccination requirements that could apply to our employees performing work on their premises, or in proximity of their employees. The implementation of vaccination and testing requirements could have a material adverse effect on our business in the event that, among other things, a significant portion of our workforce does not choose to become vaccinated, as such employees may not be able to perform work for certain customers that require vaccination. Moreover, the costs related to mandatory testing for unvaccinated employees are significant, and time away from work for testing is disruptive to our operations.

The broader and longer-term implications of the COVID-19 pandemic on our results of operations and overall financial performance and position remain highly uncertain and variable, and we expect continued operational challenges for portions of

our operations in the future. The future impact that the pandemic, or any resulting market disruption and volatility, will have on our business, cash flows, liquidity, financial condition and results of operations will depend on future developments, including, among others, the duration and severity of the pandemic; the actions taken by governmental authorities, customers, suppliers and other third parties in response to the pandemic and the consequences of those actions; our workforce availability; and the timing and extent to which normal economic and operating conditions resume and continue.

Regulatory Challenges and Opportunities. The regulatory environment creates both challenges and opportunities for our business, and in recent years our margins have been impacted by regulatory and permitting delays, as well as private legal challenges related to regulatory requirements, particularly with respect to large transmission and large pipeline projects. As a result, regulatory and environmental permitting processes continue to create uncertainty for projects and negatively impact customer spending. However, we believe that there are also several existing, pending or proposed legislative or regulatory actions that may alleviate certain regulatory and permitting issues and positively impact long-term demand, particularly in connection with electric power infrastructure and renewable energy spending. For example, regulatory changes affecting siting and right-of-way processes could potentially accelerate construction for transmission projects, and state and federal reliability standards are creating incentives for system investment and maintenance. Additionally, as described above, we consider renewable energy, including solar and wind generation facilities, to be an ongoing opportunity; however, policy and economic incentives designed to support and encourage such projects, as well as limitations on the availability or sourcing of materials or components for such projects, can create variability of project timing.

Labor Resource Availability and Cost. We continue to address the longer-term need for additional labor resources in our markets, as our customers continue to seek additional specialized labor resources to address an aging utility workforce and longer-term labor availability issues, increasing pressure to reduce costs and improve reliability, and increasing duration and complexity of their capital programs. We believe these trends will continue, possibly to such a degree that demand for labor resources will outpace supply. Furthermore, the increased demand for our services based on the dynamics described above can create shortages of qualified labor in our markets. Our ability to capitalize on available opportunities is limited by our ability to employ, train and retain the necessary skilled personnel, and therefore we are taking proactive steps to develop our workforce, including through strategic relationships with universities, the military and unions and the expansion and development of our training facility and postsecondary educational institution. Although we believe these initiatives will help address workforce needs, meeting our customers' demand for labor resources could prove challenging.

Additionally, we continue to monitor our labor markets and expect labor costs to increase based on increased demand for our services. Our labor costs are passed through in certain of our contracts, and the portion of our workforce that is represented by labor unions typically operate under multi-year collective bargaining agreements, which provide some visibility into future labor costs. While we do not currently believe this environment will materially impact our profitability and would expect to be able to adjust contract pricing with certain customers to the extent wages and other labor costs increase, whether due to renegotiation of collective bargaining agreements or market conditions, meaningful increases in our labor costs could have a material adverse effect on our business, financial condition, results of operations or cash flows to the extent we cannot do so.

Materials and Equipment Procurement. We continue to monitor supply chain and other logistical challenges, global trade relationships (e.g., tariffs, sourcing restrictions) and other general market and political conditions (e.g., inflation) with respect to availability and costs of certain materials and equipment necessary for the performance of our business and for materials necessary for our customers' projects, including, among other things, steel, copper, aluminum, and components for renewable energy projects. For example, we believe some participants in the renewable energy market are experiencing supply chain challenges, resulting in delays and shortages of, and increased costs for, materials necessary for the construction of certain renewable energy projects in the near term, including as a result of sourcing restrictions related to solar panels manufactured in China. While we believe many of our renewable energy customers are generally better equipped to manage near-term supply chain disruptions than their smaller competitors, these challenges could delay our customers' ongoing projects or impact their future project schedules, which in turn could impact the timing of or demand for our renewable energy services. While these delays are not anticipated to result in exposure to liquidated damages or commodity risks, such delays could cause customers to cancel projects as higher than expected costs impact project profitability projections.

Additionally, based on, among other things, the significant worldwide shortage of semiconductors, vehicle manufacturers are experiencing production delays with respect to new vehicles for our fleet (both on-road and specialty vehicles) and vehicle parts (e.g., tires), all of which we utilize in our operations, and certain of our vehicle delivery orders scheduled for delivery in 2022 have been delayed or cancelled. While we believe we have taken steps to secure delivery of a sufficient amount of vehicles in the near term and do not anticipate any significant disruptions with respect to our fleet, to the extent the production issues become worse than expected or become longer-term in nature, our operations could be negatively impacted. Delays impacting construction schedules resulting from supply chain disruption impacting project materials could result in risks. In addition, as a result of the recent inflationary pressure, our results of operations could be negatively impacted by price inflation related to costs of materials and equipment to the extent we are not able to pass such costs through to our contracts.

Acquisitions and Investments. We believe potential acquisition and investment opportunities exist in our industries and adjacent industries, primarily due to the highly fragmented and evolving nature of those industries and inability of many companies to expand due to capital or liquidity constraints. While the desirability of certain of these opportunities could be impacted by the recent inflationary pressure in the short term, we continue to evaluate opportunities that are expected to, among other things, broaden our customer base, expand our geographic area of operations and grow and diversify our portfolio of services.

#### **Significant Factors Impacting Results**

Our revenues, profit, margins and other results of operations can be influenced by a variety of factors in any given period, including those described in *Business Environment* above, *Results of Operations* below and Item 1A. *Risk Factors* of this Annual Report, and those factors have caused fluctuations in our results in the past and are expected to cause fluctuations in our results in the future. Additional information with respect to certain of those factors is provided below.

Seasonality. Typically, our revenues are lowest in the first quarter of the year because cold, snowy or wet conditions can create challenging working environments that are more costly for our customers or cause delays on projects. In addition, infrastructure projects often do not begin in a meaningful way until our customers finalize their capital budgets, which typically occurs during the first quarter. Second quarter revenues are typically higher than those in the first quarter, as some projects begin, but continued cold and wet weather can often impact productivity. Third quarter revenues are typically the highest of the year, as a greater number of projects are underway and operating conditions, including weather, are normally more accommodating. Generally, revenues during the fourth quarter are lower than the third quarter but higher than the second quarter, as many projects are completed and customers often seek to spend their capital budgets before year end. However, the holiday season and inclement weather can sometimes cause delays during the fourth quarter, reducing revenues and increasing costs. These seasonal impacts are typical for our U.S. operations, but seasonality for our international operations may differ. For example, revenues in Canada are typically higher in the first quarter because projects are often accelerated in order to complete work while the ground is frozen and prior to the break up, or seasonal thaw, as productivity is adversely affected by wet ground conditions during warmer months.

Weather, natural disasters and emergencies. The results of our business in a given period can be impacted by adverse weather conditions, severe weather events, natural disasters or other emergencies, which include, among other things, heavy or prolonged snowfall or rainfall, hurricanes, tropical storms, tornadoes, floods, blizzards, extreme temperatures, wildfires, post-wildfire floods and debris flows, pandemics (including the ongoing COVID-19 pandemic) and earthquakes. These conditions and events can negatively impact our financial results due to, among other things, the termination, deferral or delay of projects, reduced productivity and exposure to significant liabilities. See *Business Environment* above for further discussion regarding the impact of the COVID-19 pandemic. However, severe weather events can increase our emergency restoration services, which typically yield higher margins due in part to higher equipment utilization and absorption of fixed costs, and we had a significant amount of emergency restoration services revenues in 2020 and 2021.

Demand for services. We perform the majority of our services under existing contracts, including master service agreements (MSAs) and similar agreements pursuant to which our customers are not committed to specific volumes of our services. Therefore, our volume of business can be positively or negatively affected by fluctuations in the amount of work our customers assign us in a given period, which may vary by geographic region. For example, to the extent our customers accelerate grid modernization or hardening programs or face deadlines to meet regulatory requirements for rehabilitation, reliability or efficiency, our volume of work could increase under existing agreements. Also, as described above in Business Environment, we have experienced reductions in demand for certain services as a result of the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic. Examples of other items that may cause demand for our services to fluctuate materially from quarter to quarter include: the financial condition of our customers, their capital spending and their access to capital; economic and political conditions on a regional, national or global scale, including availability of renewable energy tax credits; interest rates; governmental regulations affecting the sourcing of materials and equipment; other changes in U.S. and global trade relationships; and project deferrals and cancellations.

Revenue mix and impact on margins. The mix of revenues based on the types of services we provide in a given period will impact margins, as certain industries and services provide higher-margin opportunities. Our larger or more complex projects typically include, among others, transmission projects with higher voltage capacities; pipeline projects with larger-diameter throughput capacities; large-scale renewable generation projects, which we expect to increase subsequent to our acquisition of Blattner; and projects with increased engineering, design or construction complexities, more difficult terrain or geographical requirements, or longer distance requirements. These projects typically yield opportunities for higher margins than our recurring services under MSAs described above, as we assume a greater degree of performance risk and there is greater utilization of our resources for longer construction timeframes. However, larger projects are subject to additional risk of regulatory delay and cyclicality. For example, our revenues with respect to large pipeline projects have declined significantly in

recent years, and a significant number of larger projects have been delayed or cancelled during that same period. Project schedules also fluctuate, particularly in connection with larger, more complex or longer-term projects, which can affect the amount of work performed in a given period. Furthermore, smaller or less complex projects typically have a greater number of companies competing for them, and competitors at times may more aggressively pursue available work. A greater percentage of smaller scale or less complex work also could negatively impact margins due to the inefficiency of transitioning between a greater number of smaller projects versus continuous production on fewer larger projects. As a result, at times we may choose to maintain a portion of our workforce and equipment in an underutilized capacity to ensure we are strategically positioned to deliver on larger projects when they move forward.

Project variability and performance. Margins for a single project may fluctuate period to period due to changes in the volume or type of work performed, the pricing structure under the project contract or job productivity. Additionally, our productivity and performance on a project can vary period to period based on a number of factors, including unexpected project difficulties or site conditions (including in connection with difficult geographic characteristics); project location, including locations with challenging operating conditions; whether the work is on an open or encumbered right of way; inclement weather or severe weather events; environmental restrictions or regulatory delays; protests, other political activity or legal challenges related to a project; the performance of third parties; and the impact of the COVID-19 pandemic. Moreover, we currently generate a significant portion of our revenues under fixed price contracts, and fixed price contracts are more common in connection with our larger and more complex projects that typically involve greater performance risk. Furthermore, subsequent to our acquisition of Blattner, we expect the portion of our revenues generated under fixed price contracts to increase significantly. Under these contracts, we assume risks related to project estimates and execution, and project revenues can vary, sometimes substantially, from our original projections due to a variety of factors, including the additional complexity, timing uncertainty or extended bidding, regulatory and permitting processes associated with these projects. These variations can result in a reduction in expected profit or the incurrence of losses on a project or the issuance of change orders or assertion of contract claims against customers. See Revenue Recognition - Contract Estimates in Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report for further information regarding changes in estimated contract revenues and/or project costs, including any significant project gains or losses in connection with fixed price contracts that have impacted our results, and determinations with respect to the recognition of change orders and claims as contract price adjustments.

Subcontract work and provision of materials. Work that is subcontracted to other service providers generally yields lower margins, and therefore an increase in subcontract work in a given period can decrease margins. In recent years, we have subcontracted approximately 20% of our work to other service providers. Our customers are usually responsible for supplying the materials for their projects. However, under some contracts, including contracts for projects where we provide engineering, procurement and construction (EPC) services, we agree to procure all or part of the required materials. Margins may be lower on projects where we furnish a significant amount of materials, as our markup on materials is generally lower than our markup on labor costs, and in a given period an increase in the percentage of work with greater materials procurement requirements may decrease our overall margins. Furthermore, as discussed further in *Overview - Business Environment*, fluctuations in the price or availability of materials and equipment we or our customers utilize could impact demand for our services or costs to complete projects.

Foreign currency risk. Our financial performance is reported on a U.S. dollar-denominated basis but is partially subject to fluctuations in foreign currency exchange rates. Fluctuations in exchange rates relative to the U.S. dollar, primarily Canadian dollars and Australian dollars, can materially impact our results of operations and impact comparability between periods.

#### **Results of Operations**

A discussion of the changes in our consolidated results of operations between the years December 31, 2021 and December 31, 2020 and the changes in our segment results of operations between the years ended December 31, 2021, 2020 and 2019 is included below, with certain of our segment results of operations recast to conform to our current segment reporting structure. A discussion of the changes in our consolidated results of operations between the years ended December 31, 2020 and 2019 is included in Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations* of our Annual Report on Form 10-K for the year ended December 31, 2020, which was filed with the SEC on March 1, 2021. The results of acquired businesses have been included in the following results of operations since their respective acquisition dates.

The following table sets forth selected statements of operations data, such data as a percentage of revenues for the years indicated as well as the dollar and percentage change from the prior year (dollars in thousands):

#### **Consolidated Results**

	Year Ended	Change			
2021		2020		\$	%
\$12,980,213	100.0 %	\$11,202,672	100.0 %	\$ 1,777,541	15.9 %
11,026,954	85.0	9,541,825	85.2	1,485,129	15.6 %
1,953,259	15.0	1,660,847	14.8	292,412	17.6 %
44,061	0.3	11,303	0.1	32,758	289.8 %
(1,155,956)	(8.9)	(975,074)	(8.7)	(180,882)	18.6 %
(165,366)	(1.2)	(76,704)	(0.6)	(88,662)	115.6 %
(5,743)	_	(8,282)	(0.1)	2,539	(30.7)%
(6,734)	(0.1)	(719)		(6,015)	836.6 %
663,521	5.1	611,371	5.5	52,150	8.5 %
(68,899)	(0.5)	(45,013)	(0.4)	(23,886)	53.1 %
3,194	_	2,449	_	745	30.4 %
25,085	0.2	2,539		22,546	888.0 %
622,901	4.8	571,346	5.1	51,555	9.0 %
130,918	1.0	119,387	1.1	11,531	9.7 %
491,983	3.8	451,959	4.0	40,024	8.9 %
6,027	0.1	6,363		(336)	(5.3)%
\$ 485,956	3.7 %	\$ 445,596	4.0 %	\$ 40,360	9.1 %
	2021 \$12,980,213 11,026,954 1,953,259 44,061 (1,155,956) (165,366) (5,743) (6,734) 663,521 (68,899) 3,194 25,085 622,901 130,918 491,983 6,027	2021       \$12,980,213     100.0 %       11,026,954     85.0       1,953,259     15.0       44,061     0.3       (1,155,956)     (8.9)       (165,366)     (1.2)       (5,743)     —       (6,734)     (0.1)       663,521     5.1       (68,899)     (0.5)       3,194     —       25,085     0.2       622,901     4.8       130,918     1.0       491,983     3.8       6,027     0.1	\$12,980,213       100.0 %       \$11,202,672         11,026,954       85.0       9,541,825         1,953,259       15.0       1,660,847         44,061       0.3       11,303         (1,155,956)       (8.9)       (975,074)         (165,366)       (1.2)       (76,704)         (5,743)       —       (8,282)         (6,734)       (0.1)       (719)         663,521       5.1       611,371         (68,899)       (0.5)       (45,013)         3,194       —       2,449         25,085       0.2       2,539         622,901       4.8       571,346         130,918       1.0       119,387         491,983       3.8       451,959         6,027       0.1       6,363	2021         2020           \$12,980,213         100.0 %         \$11,202,672         100.0 %           11,026,954         85.0         9,541,825         85.2           1,953,259         15.0         1,660,847         14.8           44,061         0.3         11,303         0.1           (1,155,956)         (8.9)         (975,074)         (8.7)           (165,366)         (1.2)         (76,704)         (0.6)           (5,743)         —         (8,282)         (0.1)           (6,734)         (0.1)         (719)         —           663,521         5.1         611,371         5.5           (68,899)         (0.5)         (45,013)         (0.4)           3,194         —         2,449         —           25,085         0.2         2,539         —           622,901         4.8         571,346         5.1           130,918         1.0         119,387         1.1           491,983         3.8         451,959         4.0           6,027         0.1         6,363         —	2021         2020         \$           \$12,980,213         100.0 %         \$11,202,672         100.0 %         \$1,777,541           11,026,954         85.0         9,541,825         85.2         1,485,129           1,953,259         15.0         1,660,847         14.8         292,412           44,061         0.3         11,303         0.1         32,758           (1,155,956)         (8.9)         (975,074)         (8.7)         (180,882)           (165,366)         (1.2)         (76,704)         (0.6)         (88,662)           (5,743)         —         (8,282)         (0.1)         2,539           (6,734)         (0.1)         (719)         —         (6,015)           (68,899)         (0.5)         (45,013)         (0.4)         (23,886)           3,194         —         2,449         —         745           25,085         0.2         2,539         —         22,546           622,901         4.8         571,346         5.1         51,555           130,918         1.0         119,387         1.1         11,531           491,983         3.8         451,959         4.0         40,024           6,02

Revenues. Revenues increased primarily due to a \$1.16 billion increase in revenues from our Electric Power Infrastructure Solutions segment, largely due to growth in spending by our utility customers on grid modernization resulting in increased demand for our electric power services and approximately \$245 million of revenues attributable to acquired businesses. Also contributing to the increase was a \$520.1 million increase in revenues from our Renewable Energy Infrastructure Solutions segment, primarily due to our acquisition of Blattner in the fourth quarter of 2021, as well as a \$101.4 million increase in revenues from our Underground Utility and Infrastructure Solutions segment, primarily due to increased demand from our gas utility and industrial customers. See Segment Results below for additional information and discussion related to segment revenues.

Gross profit. Gross profit increased primarily due to an increase in revenues across all segments. Gross profit as a percentage of revenues increased due to improved utilization and fixed cost absorption from our Electric Power Infrastructure Solutions and Renewable Energy Infrastructure Solutions segments. Gross profit was positively impacted in 2020 by the favorable close-out of certain projects in the Renewable Energy Infrastructure Solutions segment. Gross profit for the Underground Utility and Infrastructure Solutions segment in 2021 was adversely impacted by the recognition of a \$31.7 million provision for credit loss related to receivables owed by a customer that declared bankruptcy in July 2021 and its affiliate, which is described further in Accounts Receivable and Allowance for Credit Losses within Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. Additionally, gross profit for the Underground Utility and Infrastructure Solutions segment was adversely impacted during the years ended December 31, 2021 and 2020 by uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic, which negatively impacted our margins and ability to cover fixed and overhead costs. See Segment Results below for additional information and discussion related to segment operating income (loss).

Equity in earnings of integral unconsolidated affiliates. The amounts include our portion of amounts earned by integral unconsolidated affiliates and primarily relate to our portion of amounts earned by LUMA. The increase with respect to LUMA is mostly related to the completion of the steps necessary to transition operation and maintenance of the Puerto Rican electric transmission and distribution system from the owner to LUMA in mid-2021 and the entry into an interim services agreement that covers the interim services period for the project. See Note 9 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report for further information on LUMA. During the interim services period, LUMA receives a fixed annual management fee, payable in monthly installments, and is reimbursed for costs

and expenses. Additionally, we acquired a 44% interest in an entity that provides right-of-way solutions, including site preparation and clearing, materials delivery and installation and management of permitting requirements and traffic control at the beginning of the fourth quarter of 2021, and our portion of the amounts earned by this investment are included beginning as of that investment date.

Selling, general and administrative expenses. The increase in selling, general and administrative expenses was primarily attributable to a \$95.6 million increase in expenses associated with acquired businesses and a \$31.2 million increase in the provision for credit losses, the majority of which related to the recognition of the provision for credit loss related to a receivable from a customer that declared bankruptcy in July 2021, and its affiliate, which is described further in Accounts Receivable and Allowance for Credit Losses within Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report. Also contributing to the increase was a \$31.2 million increase in compensation expense, largely associated with increased incentive compensation expense as a result of higher levels of operating performance and an increase in salaries and benefits due to increased personnel to support business growth. Compensation expense for the year ended December 31, 2020 included a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019. Also contributing to the 2021 increase were a \$11.4 million increase in travel and related expenses, which were below historical levels in 2020 as a result of reduced travel due to the COVID-19 pandemic, and a \$2.9 million increase in expense related to deferred compensation liabilities. The fair market value changes in deferred compensation liabilities were largely offset by changes in the fair value of the company-owned life insurance (COLI) policies associated with the deferred compensation plan, which are included in other income, net as discussed below. Partially offsetting these increases were \$6.3 million of incremental gains on sales of property and equipment.

Amortization of intangible assets. The increase was primarily due to amortization of intangible assets associated with recently acquired businesses, including the recent acquisition of Blattner, partially offset by reduced amortization expense associated with older acquired intangible assets, as certain of these assets became fully amortized.

Asset impairment charges. During the year ended December 31, 2021, we recognized a \$5.7 million asset impairment charge related to certain equipment not utilized in our core operations, some of which was sold in October 2021 and the remainder of which was classified as assets held for sale as of December 31, 2021. Management reviews long-lived assets for potential impairment whenever events or changes in circumstances indicate the carrying amount may not be realizable, which may arise in connection with regular evaluations as to whether business operations have the ability to contribute long-term strategic value. As part of such evaluations during the fourth quarter of 2020, we recognized \$8.3 million of asset impairment charges, \$7.0 million of which related to our Latin American operations and \$1.3 million of which related to the planned sale of certain equipment.

Change in fair value of contingent consideration liabilities. Contingent consideration liabilities are payable in the event certain performance objectives are achieved by an acquired business during designated post-acquisition periods. The change in fair value associated with these liabilities was primarily due to the effect of present value accretion on fair value calculations and, to a lesser extent, changes in performance in post-acquisition measurement periods by certain acquired businesses. Further changes in fair value are expected to be recorded periodically until the contingent consideration liabilities are settled, including potentially significant changes associated with the potential payment of up to \$300.0 million of contingent consideration in connection with our acquisition of Blattner, the amount for which will be determined during a three-year post-acquisition period that began in January 2022. See Notes 6 and 17 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report for additional information related to these liabilities.

Interest and other financing expenses. Interest and other financing expenses increased primarily due to higher levels of debt and, to a lesser extent, a higher weighted average interest rate during the year ended December 31, 2021 compared to 2020. Our long-term debt increased significantly during the year ended December 31, 2021 in connection with our acquisition of Blattner, as described in further detail in *Liquidity and Capital Resources* below, and we expect that our interest expense will increase during the year ending December 31, 2022 as a result of this higher level of debt. Additionally, we paid \$4.4 million of fees to the lenders related to a bridge facility commitment entered into but not utilized in connection with our acquisition of Blattner, all of which was amortized to interest and other financing expenses in the year ended December 31, 2021. For additional information on our debt instruments, including our senior notes, senior credit facility, the bridge facility commitment and interest requirements related to our debt instruments, see Note 10 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report.

Interest income. Interest income increased primarily due to interest received related to a settlement with a customer.

Other income, net. Other income, net increased primarily due to unfavorable results in the year ended December 31, 2020 primarily due to a \$9.3 million impairment charge associated with an investment in a water and gas pipeline infrastructure contractor located in Australia that is accounted for using the cost method of accounting and \$8.7 million of impairment charges associated with two non-integral equity investments that were negatively impacted by the decline in demand for refined

petroleum products. Higher income related to investments in unconsolidated affiliates and COLI policies associated with our deferred compensation plan positively impacted results for the year-ended December 31, 2021, while an \$8.9 million legal settlement favorably impacted results for the year ended December 31, 2020.

Provision for income taxes. The effective tax rates for the years ended December 31, 2021 and 2020 were 21.0% and 20.9%. The rate for the year ended December 31, 2021 was favorably impacted by the recognition of a \$21.3 million tax benefit that resulted from equity incentive awards vesting at a higher fair market value than their grant date fair market value, as compared to the recognition of \$3.1 million associated with this tax benefit for the year ended December 31, 2020, which was due to a smaller difference between the vest date fair market value and grant date fair market value of vested equity incentive awards. The effective tax rate for the year ended December 31, 2021 was also favorably impacted by \$6.7 million of tax benefits related to a decrease in reserves for uncertain tax positions as a result of the expiration of certain U.S. federal and state statutes of limitations periods, a \$7.8 million benefit related to a favorable clarification by the Internal Revenue Service regarding deductions for certain per diem amounts, a \$7.0 million benefit related to certain COLI policies, and a \$2.4 million reduction in our deferred tax asset valuation allowance related to U.S. state net operating losses. The effective tax rate for the year ended December 31, 2020 was also favorably impacted by a \$45.1 million reduction in our deferred tax asset valuation allowance related to foreign tax credits and \$8.2 million of tax benefits related to a decrease in reserves for uncertain tax positions, which resulted from the expiration of certain federal and state statutes of limitations periods. The effective tax rates for the years ended December 31, 2021 and 2020 include the impact of taxable losses of \$9.6 million and \$60.8 million associated with our Latin American operations, for which no income tax benefit was recognized. Absent the items described above, the effective tax rates for December 31, 2021 and 2020 would have been 27.8% in each period. We expect our effective tax rate to be approximately 25.0% to 25.5% for 2022.

Other comprehensive income (loss), net of taxes. Other comprehensive income (loss) results from translation of the balance sheets of our foreign operating companies, which are primarily located in Canada and Australia and have functional currencies other than the U.S. dollar, and therefore are affected by the strengthening or weakening of the U.S. dollar against such currencies. The loss in the year ended December 31, 2021 was impacted primarily by the strengthening of the U.S. dollar against the Australian dollar as of December 31, 2021 when compared to December 31, 2020. The gain in the year ended December 31, 2020 was impacted primarily by the weakening of the U.S. dollar against both the Australian and Canadian dollars as of December 31, 2020.

#### **Segment Results**

Reportable segment information, including revenues and operating income by type of work, is gathered from each of our operating companies for the purpose of evaluating segment performance. Classification of our operating company revenues by type of work for segment reporting purposes can at times require judgment on the part of management. Our operating companies may perform joint projects for customers in multiple industries, deliver multiple types of services under a single customer contract or provide service offerings to various industries. For example, we perform joint trenching projects to install distribution lines for electric power and natural gas customers. Integrated operations and common administrative support for operating companies require that certain allocations be made to determine segment profitability, including allocations of corporate shared and indirect operating costs, as well as general and administrative costs. Certain corporate costs are not allocated, including facility costs, acquisition and integration costs, non-cash stock-based compensation, amortization related to intangible assets, asset impairment related to goodwill and intangible assets and change in fair value of contingent consideration liabilities.

### Year ended December 31, 2021 compared to the year ended December 31, 2020

The following tables set forth segment revenues, segment operating income (loss) and operating margins for the periods indicated, as well as the dollar and percentage change from the prior period. Operating margins are calculated by dividing operating income by revenues. Management utilizes operating margins as a measure of profitability, which can be helpful for

monitoring how effectively we are performing under our contracts. Management also believes operating margins are a useful metric for investors to utilize in evaluating our performance. The following table shows dollars in thousands.

		Year Ended	Change			
	2021		2020		\$	%
Revenues:						
Electric Power Infrastructure Solutions	\$ 7,624,240	58.7 %	\$ 6,468,192	57.7 %	\$ 1,156,048	17.9 %
Renewable Energy Infrastructure Solutions	1,825,259	14.1	1,305,151	11.7	520,108	39.9 %
Underground Utility and Infrastructure Solutions	3,530,714	27.2	3,429,329	30.6	101,385	3.0 %
Consolidated revenues	\$12,980,213	100.0 %	\$11,202,672	100.0 %	\$ 1,777,541	15.9 %
Operating income (loss):						
Electric Power Infrastructure Solutions	\$ 865,409	11.4 %	\$ 648,405	10.0 %	\$ 217,004	33.5 %
Renewable Energy Infrastructure Solutions	181,908	10.0 %	177,920	13.6 %	3,988	2.2 %
Underground Utility and Infrastructure Solutions	150,147	4.3 %	170,074	5.0 %	(19,927)	(11.7)%
Corporate and Non-Allocated costs	(533,943)	(4.1)%	(385,028)	(3.4)%	(148,915)	38.7 %
Consolidated operating income	\$ 663,521	5.1 %	\$ 611,371	5.5 %	\$ 52,150	8.5 %

#### Electric Power Infrastructure Solutions Segment Results

The increase in revenues for the year ended December 31, 2021 was primarily due to growth in spending by our utility customers on grid modernization, resulting in increased demand for our electric power services, as well as approximately \$245 million of revenues attributable to acquired businesses. Additionally, revenues for the year ended December 31, 2021 were positively impacted by \$90 million related to more favorable foreign currency exchange rates, primarily the Canadian dollar and U.S. dollar exchange rate.

Operating income increased for the year ended December 31, 2021 primarily due to the increase in revenues explained above. The increase in operating income as a percentage of revenues was primarily attributable to improved performance across the segment, and the higher revenues contributed to higher levels of fixed cost absorption and favorable contributions associated with the timing of projects and project mix. Also positively impacting operating income and operating income as a percentage of revenues during the year ended December 31, 2021 was the \$44.1 million impact of our equity interests in LUMA and other integral affiliates, which represented a \$32.8 million increase from the year ended December 31, 2020. Partially offsetting the positive impact of these items were losses associated with certain communications projects resulting from various production issues, poor subcontractor performance, challenging site conditions, permitting delays, increased completion costs and weather and seasonal impacts.

In addition, in early 2020, we decided to pursue an exit of our operations in Latin America and substantially completed such exit as of December 31, 2020. For the year ended December 31, 2020, Electric Power Infrastructure Solutions operating income included \$74.0 million of operating losses related to Latin American operations, which negatively impacted operating margin by 120 basis points. These operating losses included \$7.0 million of asset impairment charges and \$2.7 million of regulatory required severance payments.

#### Renewable Energy Infrastructure Solutions Segment Results

The increase in revenues for the year ended December 31, 2021 was primarily due to a \$450 million increase in revenues attributable to acquired businesses, primarily Blattner, the results of operations of which were included since the acquisition date of October 13, 2021. The remaining increase is due to an overall increase in transmission and interconnection construction services related to the renewable energy infrastructure.

The increase in operating income was primarily due to higher revenues associated with the acquisition of Blattner. Blattner's results as a percentage of operating income was largely in line with our results attributable to transmission and interconnection construction services related to the renewable energy infrastructure. The decrease in operating income as a percentage of revenues for the year ended December 31, 2021 compared to the year ended December 31, 2020 was primarily due to the favorable close-out of certain projects in 2020.

#### Underground Utility and Infrastructure Solutions Segment Results

The increase in revenues for the year ended December 31, 2021 was primarily due to increased revenues associated with higher demand from our gas utility and industrial customers; \$25 million related to more favorable foreign currency exchange rates, primarily the Canadian dollar and U.S. dollar exchange rate; and approximately \$20 million in revenues from acquired businesses.

The decreases in operating income and operating margin for the year ended December 31, 2021 were primarily due to the recognition of a \$31.7 million provision for credit loss related to receivables from a customer that declared bankruptcy in July 2021 and its affiliate, which is described further in *Accounts Receivable and Allowance for Credit Losses* within Note 4 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report. Operating income was also adversely impacted during the years ended December 31, 2021 and 2020 by the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic, which negatively impacted our margins and ability to cover fixed and overhead costs.

#### Corporate and Non-Allocated Costs

The increase in corporate and non-allocated costs during the year ended December 31, 2021 included an \$88.7 million increase in intangible asset amortization primarily related to the acquisition of Blattner; a \$27.6 million increase in acquisition and integration costs; and a \$15.6 million increase in cash incentive compensation as a result of higher levels of operating performance relative to incentive compensation targets. Also contributing to the increase was a \$6.7 million increase in the fair value of contingent consideration liabilities recognized during the year ended December 31, 2021 as compared to a \$0.7 million increase in fair value recognized during the year ended December 31, 2020. Additionally, there was a \$4.9 million increase in travel-related costs, which were below historical levels in 2020 as a result of reduced travel due to the COVID-19 pandemic; a \$4.6 million increase in salaries and benefits expense due to increased personnel to support business growth; and a \$2.8 million increase in expense related to deferred compensation liabilities. The changes in fair market value of deferred compensation liabilities were largely offset by corresponding changes in the fair market value of the COLI policies associated with the deferred compensation plan, which are recorded in other income, net. Partially offsetting these increases was a \$3.4 million decrease in stock-based compensation. Non-cash stock-based compensation for the year ended December 31, 2020 included a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019.

#### Year ended December 31, 2020 compared to the year ended December 31, 2019

As described above, certain amounts in the following table have been recast to reflect the new Renewable Energy Infrastructure Solutions segment. The following table sets forth segment revenues, segment operating income (loss) and operating margins for the periods indicated, as well as the dollar and percentage change from the prior period (dollars in thousands):

		Year Ended l	Change			
	2020		2019		\$	%
Revenues:						
Electric Power Infrastructure Solutions	\$ 6,468,192	57.7 %	\$ 6,346,837	52.4 %	\$ 121,355	1.9 %
Renewable Energy Infrastructure Solutions	1,305,151	11.7	775,000	6.4	530,151	68.4 %
Underground Utility and Infrastructure Solutions	3,429,329	30.6	4,990,316	41.2	(1,560,987)	(31.3)%
Consolidated revenues	\$11,202,672	100.0 %	\$12,112,153	100.0 %	\$ (909,481)	(7.5)%
Operating income (loss):						
Electric Power Infrastructure Solutions	\$ 648,405	10.0 %	\$ 554,824	8.7 %	\$ 93,581	16.9 %
Renewable Energy Infrastructure Solutions	177,920	13.6 %	36,353	4.7 %	141,567	389.4 %
Underground Utility and Infrastructure Solutions	170,074	5.0 %	332,011	6.7 %	(161,937)	(48.8)%
Corporate and Non-Allocated costs	(385,028)	(3.4)%	(368,314)	(3.0)%	(16,714)	4.5 %
Consolidated operating income	\$ 611,371	5.5 %	\$ 554,874	4.6 %	\$ 56,497	10.2 %

#### Electric Power Infrastructure Solutions Segment Results

Overall, revenues increased as a result of growth in spending from our utility customers on grid modernization, resulting in increased demand for our electric power services, including a \$220 million increase in emergency restoration services revenues, a \$125 million increase in revenues from our North American communication operations and approximately \$175 million of incremental revenues attributable to acquired businesses. These increases were partially offset by decreased revenues associated with fire hardening programs in the western United States as compared to the year ended December 31, 2019 as the projects were successfully completed.

We had substantially completed the exit of our Latin American operations as of December 31, 2020. These operations were adversely impacted by the COVID-19 pandemic due to shelter-in-place restrictions and other work disruptions that resulted in our acceleration of various contract terminations and other activities during 2020 in order to expedite cessation of operations in the region. As a result of these factors, during the year ended December 31, 2020, our Latin American operations generated an operating loss of \$74.0 million, including \$7.0 million of asset impairment charges and \$2.7 million of regulatory required severance payments. During the year ended December 31, 2019, our Latin American operations generated an operating loss of \$85.7 million, which included a \$79.2 million charge associated with the termination of a telecommunications project in Peru, composed of a \$48.8 million reversal of revenues and a \$30.4 million increase in cost of services. The charge included a reduction of previously recognized earnings on the project, a reserve against a portion of the project costs incurred through the project termination date, a reserve against a portion of alleged liquidated damages and recognition of estimated costs to complete the project turnover and close out the project. See *Legal Proceedings* in Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplemental Data* of this Annual Report for additional information regarding this project.

Operating income increased for the year ended December 31, 2020 due to the increase in revenues explained above. Operating income as a percentage of revenues was positively impacted during the year ended December 31, 2020 by increased revenues from emergency restoration services revenues, which typically yield higher margins due in part to higher equipment utilization and absorption of fixed costs. The year ended December 31, 2019 was also negatively impacted by severe weather and other project delays in Canada that resulted in elevated levels of unabsorbed costs. However, partially offsetting these increases was a reduction in fire hardening services in the western United States during the year ended December 31, 2020, as well as the negative impact associated with our Latin American operations described above.

Included in operating income is the equity in earnings of integral unconsolidated affiliates, which primarily relates to the commencement of transition services under the operation and maintenance agreement awarded to LUMA in June 2020.

# Renewable Energy Infrastructure Solutions Segment Results

Revenues increased as a result of growing market demand for electricity generated from renewable sources, which resulted in increased demand from our customers for our construction and engineering services.

Operating income and operating income as a percentage of revenues were higher for the year ended December 31, 2020 as compared to the year ended December 31, 2019 primarily due to favorable close-out of certain transmission projects related to reduced contingencies as the projects neared completion in 2020. The year ended December 31, 2019 was negatively impacted by severe weather and other project delays in Canada that resulted in elevated levels of unabsorbed costs.

# Underground Utility and Infrastructure Solutions Segment Results

During the year ended December 31, 2020, reduced revenues associated with larger pipeline projects of approximately \$830 million significantly contributed to the overall decrease in segment revenues. Revenues associated with larger pipeline projects declined as a result of the industry entering the late-stage of a construction cycle, with the next cycle of projects being delayed due to various factors, including among other things, permitting delays and worksite access limitations related to environmental regulations. Revenues also declined due to lower demand for our services in end-markets where the price of oil is influential. The COVID-19 pandemic also resulted in reduced capital spending and deferred regularly scheduled maintenance by our midstream and industrial customers and shelter-in-place and worksite access restrictions in major metropolitan areas that caused short-term disruptions for our gas distribution customers. These decreases were partially offset by approximately \$230 million in incremental revenues from acquired businesses during 2020.

The decreases in operating income and operating income as a percentage of revenues were primarily due to the reduction of revenues, including revenues related to larger pipeline projects, which generally yield higher margins. Additionally, adverse weather conditions across our Canadian larger pipeline projects negatively impacted operating income during the year ended December 31, 2020. However, the negative impact on these projects was offset by favorable factors on certain larger pipeline projects in the United States, including a contract termination that resulted in the recognition of previously deferred suspension and milestone payments.

Also contributing to the decrease in operating income during the year ended December 31, 2020 were adverse impacts related to the COVID-19 pandemic and the overall challenged energy market, including lower revenues associated with industrial services, which negatively impacted margins and the ability to cover fixed and overhead costs, as discussed further above in *Overview - Business Environment*. Partially offsetting these adverse impacts were proactive cost management activities across the impacted operations. Operating income and operating income as a percentage of segment revenues in 2020 were also negatively impacted by \$4.1 million of severance and restructuring charges related to the exit of certain ancillary pipeline operations and \$1.3 million of asset impairment charges related to the planned sale of certain equipment. The year ended December 31, 2019 was negatively impacted by \$28.3 million of project losses associated with engineering and production delays on a processing facility project, as well as \$10.2 million of asset impairment charges from the winding down and exit of certain oil-influenced operations and assets.

# Corporate and Non-allocated Costs

The increase in corporate and non-allocated costs was primarily due to a \$40.2 million increase in non-cash stock-based compensation, including a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019. Included in the correction was \$7.2 million of non-cash stock-based compensation related to 2019. Also contributing to higher non-cash stock-based compensation in 2020 was higher achievement under performance-based equity awards, as well as an increase in the amount of equity-based awards due to acquisitions and business growth. Additionally, the increase in corporate and non-allocated costs included a \$14.6 million increase in intangible asset amortization. Partially offsetting these increases were decreases in certain expenses related to the cost containment measures implemented for operations impacted by the COVID-19 pandemic and the overall challenged energy market, including a \$6.3 million decrease in travel and related expenses and a \$6.1 million decrease in costs associated with legal and other contracted services. Also partially offsetting the increases were a \$5.0 million decrease in acquisition and integration costs and, with respect to contingent consideration liabilities, a \$0.7 million increase in the fair value recognized during the year ended December 31, 2020 as compared to a \$13.4 million increase in fair value recognized during the year ended December 31, 2019.

### **Non-GAAP Financial Measures**

# EBITDA and Adjusted EBITDA

EBITDA and adjusted EBITDA, financial measures not recognized under GAAP, when used in connection with net income attributable to common stock, are intended to provide useful information to investors and analysts as they evaluate our performance. EBITDA is defined as earnings before interest, taxes, depreciation and amortization, and adjusted EBITDA is defined as EBITDA adjusted for certain other items as described below. These measures should not be considered as an alternative to net income attributable to common stock or other financial measures of performance that are derived in accordance with GAAP. Management believes that the exclusion of these items from net income attributable to common stock enables it and our investors to more effectively evaluate our operations period over period and to identify operating trends that might not be apparent when including the excluded items.

As to certain of the items below, (i) non-cash stock-based compensation expense varies from period to period due to acquisition activity, changes in the estimated fair value of performance-based awards, forfeiture rates, accelerated vesting and amounts granted; (ii) acquisition and integration costs vary from period to period depending on the level of our acquisition activity; (iii) equity in (earnings) losses of non-integral unconsolidated affiliates varies from period to period depending on the activity and financial performance of non-integral unconsolidated affiliates, including gain or loss on sales of investments accounted for using the equity method of accounting; (iv) asset impairment charges can vary from period to period depending on economic and other factors; (v) restructuring and severance charges vary from period to period depending on restructuring activities; and (vi) change in fair value of contingent consideration liabilities varies from period to period depending on the performance in post-acquisition periods of certain acquired businesses and the effect of present value accretion on fair value calculations. Because EBITDA and adjusted EBITDA, as defined, exclude some, but not all, items that affect net income attributable to common stock, such measures may not be comparable to similarly titled measures of other companies. The most comparable GAAP financial measure, net income attributable to common stock, and information reconciling the GAAP and non-GAAP financial measures, are included below. The following table shows dollars in thousands.

	Year ]	Ended
	Decem	ber 31,
	2021	2020
Net income attributable to common stock (GAAP as reported)	\$ 485,956	\$ 445,596
Interest and other financing expenses	68,899	45,013
Interest income	(3,194)	(2,449)
Provision for income taxes	130,918	119,387
Depreciation expense	255,529	225,256
Amortization of intangible assets	165,366	76,704
Interest, income taxes and depreciation included in equity in earnings of integral unconsolidated affiliates	9,728	3,174
EBITDA (a)	1,113,202	912,681
Non-cash stock-based compensation (b)	88,259	91,641
Acquisition and integration costs (c)	47,368	19,809
Equity in (earnings) losses of unconsolidated affiliates	(2,121)	9,994
Asset impairment charges (d)	5,743	8,282
Severance and restructuring charges (e)	_	6,808
Change in fair value of contingent consideration liabilities	6,734	719
Adjusted EBITDA	\$1,259,185	\$1,049,934

- (a) The calculation of EBITDA for the year ended December 31, 2020 has been amended to conform to the current period calculation of EBITDA.
- (b) The amount for the year ended December 31, 2020 includes the recognition of \$14.0 million of non-cash stock-based compensation related to the correction of prior period amounts associated with the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019.
- (c) The amount for the year ended December 31, 2021 includes, among other things, \$10.0 million of expenses that are associated with change of control payments as a result of the Blattner acquisition.

- (d) The amount for the year ended December 31, 2021 represents asset impairment charges related to certain equipment that was not utilized in our core operations, some of which was sold in October 2021 and the remainder of which was classified as assets held for sale as of December 31, 2021. The amount for the year ended December 31, 2020 represents asset impairment charges related to the exit of our Latin American operations and the planned sale of certain equipment that was not utilized in our core operations.
- (e) The amount for the year ended December 31, 2020 represents severance and restructuring charges associated with the exit of certain ancillary pipeline operations and our Latin American operations.

# Remaining Performance Obligations and Backlog

A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. Our remaining performance obligations represent management's estimate of consolidated revenues that are expected to be realized from the remaining portion of firm orders under fixed price contracts not yet completed or for which work has not yet begun, which includes estimated revenues attributable to consolidated joint ventures and variable interest entities (VIEs), revenues from funded and unfunded portions of government contracts to the extent they are reasonably expected to be realized, and revenues from change orders and claims to the extent management believes they will be earned and are probable of collection.

We have also historically disclosed our backlog, a measure commonly used in our industry but not recognized under GAAP. We believe this measure enables management to more effectively forecast our future capital needs and results and better identify future operating trends that may not otherwise be apparent. We believe this measure is also useful for investors in forecasting our future results and comparing us to our competitors. Our remaining performance obligations are a component of backlog, which also includes estimated orders under MSAs, including estimated renewals, and non-fixed price contracts expected to be completed within one year. Our methodology for determining backlog may not be comparable to the methodologies used by other companies.

As of December 31, 2021 and 2020, MSAs accounted for 55% and 63% of our estimated 12-month backlog and 67% and 70% of total backlog. MSAs account for a lower percentage of our backlog as compared to December 31, 2020 primarily due to backlog associated with Blattner, which was acquired in October 2021 and does not have a significant amount of backlog attributable to MSAs. Generally, our customers are not contractually committed to specific volumes of services under our MSAs, and most of our contracts can be terminated on short notice even if we are not in default. We determine the estimated backlog for these MSAs using recurring historical trends, factoring in seasonal demand and projected customer needs based upon ongoing communications. In addition, many of our MSAs are subject to renewal, and these potential renewals are considered in determining estimated backlog. As a result, estimates for remaining performance obligations and backlog are subject to change based on, among other things, project accelerations; project cancellations or delays, including but not limited to those caused by commercial issues, regulatory requirements, natural disasters, emergencies (including the ongoing COVID-19 pandemic) and adverse weather conditions; and final acceptance of change orders by customers. These factors can cause revenues to be realized in periods and at levels that are different than originally projected.

The following table reconciles total remaining performance obligations to our backlog (a non-GAAP measure) by reportable segment, along with estimates of amounts expected to be realized within 12 months (in thousands):

Pacific Power Infrastructure Solutions   Pacific Power Infrastructure Soluti		Decembe	r 31,	2021	Decembe	r 31,	2020
Remaining performance obligations         \$ 2,002,862         \$ 2,769,106         \$ 1,791,040         \$ 2,356,262           Estimated orders under MSAs and short-term, non-fixed price contracts         4,492,038         9,447,765         3,466,443         7,310,809           Backlog         \$ 6,494,900         \$ 12,216,871         \$ 5,257,483         \$ 9,667,071           Renewable Energy Infrastructure Solutions         Remaining performance obligations         \$ 2,178,846         \$ 2,428,408         \$ 720,118         \$ 1,191,578           Estimated orders under MSAs and short-term, non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions         Remaining performance obligations         \$ 637,843         \$ 697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total           Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384 <td< th=""><th></th><th>12 Month</th><th></th><th>Total</th><th>12 Month</th><th></th><th>Total</th></td<>		12 Month		Total	12 Month		Total
Estimated orders under MSAs and short-term, non-fixed price contracts         4,492,038         9,447,765         3,466,443         7,310,809           Backlog         \$ 6,494,900         \$ 12,216,871         \$ 5,257,483         \$ 9,667,071           Renewable Energy Infrastructure Solutions         Remaining performance obligations         \$ 2,178,846         \$ 2,428,408         \$ 720,118         \$ 1,191,578           Estimated orders under MSAs and short-term, non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions         Remaining performance obligations         \$ 637,843         \$ 697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total           Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384           Estimated orders under MSAs and short-term, non-fixed price contracts         \$ 6,492,482         13,378,831         5,428,262         11,147,050 <td>Electric Power Infrastructure Solutions</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Electric Power Infrastructure Solutions						
Non-fixed price contracts	Remaining performance obligations	\$ 2,002,862	\$	2,769,106	\$ 1,791,040	\$	2,356,262
Renewable Energy Infrastructure Solutions           Remaining performance obligations         \$ 2,178,846         \$ 2,428,408         \$ 720,118         \$ 1,191,578           Estimated orders under MSAs and short-term, non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions         \$ 637,843         \$ 697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total         Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384           Estimated orders under MSAs and short-term, non-fixed price contracts         6,492,482         13,378,831         5,428,262         11,147,050		4,492,038		9,447,765	3,466,443		7,310,809
Remaining performance obligations         \$ 2,178,846         \$ 2,428,408         \$ 720,118         \$ 1,191,578           Estimated orders under MSAs and short-term, non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions         637,843         697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total         Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384           Estimated orders under MSAs and short-term, non-fixed price contracts         6,492,482         13,378,831         5,428,262         11,147,050	Backlog	\$ 6,494,900	\$	12,216,871	\$ 5,257,483	\$	9,667,071
Estimated orders under MSAs and short-term, non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions         \$ 637,843         \$ 697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total         Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384           Estimated orders under MSAs and short-term, non-fixed price contracts         6,492,482         13,378,831         5,428,262         11,147,050	Renewable Energy Infrastructure Solutions						
non-fixed price contracts         65,618         120,237         92,999         122,634           Backlog         \$ 2,244,464         \$ 2,548,645         \$ 813,117         \$ 1,314,212           Underground Utility and Infrastructure Solutions           Remaining performance obligations         \$ 637,843         \$ 697,881         \$ 327,205         \$ 437,544           Estimated orders under MSAs and short-term, non-fixed price contracts         1,934,826         3,810,829         1,868,820         3,713,607           Backlog         \$ 2,572,669         \$ 4,508,710         \$ 2,196,025         \$ 4,151,151           Total           Remaining performance obligations         \$ 4,819,551         \$ 5,895,395         \$ 2,838,363         \$ 3,985,384           Estimated orders under MSAs and short-term, non-fixed price contracts         6,492,482         13,378,831         5,428,262         11,147,050	Remaining performance obligations	\$ 2,178,846	\$	2,428,408	\$ 720,118	\$	1,191,578
Underground Utility and Infrastructure Solutions       \$ 637,843       \$ 697,881       \$ 327,205       \$ 437,544         Estimated orders under MSAs and short-term, non-fixed price contracts       1,934,826       3,810,829       1,868,820       3,713,607         Backlog       \$ 2,572,669       \$ 4,508,710       \$ 2,196,025       \$ 4,151,151         Total         Remaining performance obligations       \$ 4,819,551       \$ 5,895,395       \$ 2,838,363       \$ 3,985,384         Estimated orders under MSAs and short-term, non-fixed price contracts       6,492,482       13,378,831       5,428,262       11,147,050		65,618		120,237	92,999		122,634
Remaining performance obligations       \$ 637,843       \$ 697,881       \$ 327,205       \$ 437,544         Estimated orders under MSAs and short-term, non-fixed price contracts       1,934,826       3,810,829       1,868,820       3,713,607         Backlog       \$ 2,572,669       \$ 4,508,710       \$ 2,196,025       \$ 4,151,151         Total         Remaining performance obligations       \$ 4,819,551       \$ 5,895,395       \$ 2,838,363       \$ 3,985,384         Estimated orders under MSAs and short-term, non-fixed price contracts       6,492,482       13,378,831       5,428,262       11,147,050	Backlog	\$ 2,244,464	\$	2,548,645	\$ 813,117	\$	1,314,212
Estimated orders under MSAs and short-term, non-fixed price contracts       1,934,826       3,810,829       1,868,820       3,713,607         Backlog       \$ 2,572,669       \$ 4,508,710       \$ 2,196,025       \$ 4,151,151         Total         Remaining performance obligations       \$ 4,819,551       \$ 5,895,395       \$ 2,838,363       \$ 3,985,384         Estimated orders under MSAs and short-term, non-fixed price contracts       6,492,482       13,378,831       5,428,262       11,147,050	Underground Utility and Infrastructure Solutions						
non-fixed price contracts       1,934,826       3,810,829       1,868,820       3,713,607         Backlog       \$ 2,572,669       \$ 4,508,710       \$ 2,196,025       \$ 4,151,151         Total         Remaining performance obligations       \$ 4,819,551       \$ 5,895,395       \$ 2,838,363       \$ 3,985,384         Estimated orders under MSAs and short-term, non-fixed price contracts       6,492,482       13,378,831       5,428,262       11,147,050	Remaining performance obligations	\$ 637,843	\$	697,881	\$ 327,205	\$	437,544
Total  Remaining performance obligations \$ 4,819,551 \$ 5,895,395 \$ 2,838,363 \$ 3,985,384  Estimated orders under MSAs and short-term, non-fixed price contracts 6,492,482 13,378,831 5,428,262 11,147,050		1,934,826		3,810,829	1,868,820		3,713,607
Remaining performance obligations       \$ 4,819,551       \$ 5,895,395       \$ 2,838,363       \$ 3,985,384         Estimated orders under MSAs and short-term, non-fixed price contracts       6,492,482       13,378,831       5,428,262       11,147,050	Backlog	\$ 2,572,669	\$	4,508,710	\$ 2,196,025	\$	4,151,151
Estimated orders under MSAs and short-term, non-fixed price contracts 6,492,482 13,378,831 5,428,262 11,147,050	Total						
non-fixed price contracts 6,492,482 13,378,831 5,428,262 11,147,050	Remaining performance obligations	\$ 4,819,551	\$	5,895,395	\$ 2,838,363	\$	3,985,384
Backlog		6,492,482		13,378,831	5,428,262		11,147,050
	Backlog	\$ 11,312,033	\$	19,274,226	\$ 8,266,625	\$	15,132,434

The increase in remaining performance obligations from December 31, 2020 to December 31, 2021 was primarily due to the acquisition of Blattner, which we acquired in 2021. The increase in backlog was primarily due to the acquisition of Blattner and additional multi-year MSA programs entered into with North American utility companies. Additionally, we began reporting results under a new Renewable Energy Infrastructure Solutions segment during the three months ended December 31, 2021, primarily due to our acquisition of Blattner. In conjunction with this change, certain prior period amounts have been recast to conform to this new segment reporting structure.

# **Liquidity and Capital Resources**

Management monitors financial markets and national and global economic conditions for factors that may affect our liquidity and capital resources. As set forth below, we have various short-term and long-term cash requirements and capital allocation priorities, and we intend to fund these requirements primarily with cash flow from operating activities and debt financing.

# Cash Requirements and Capital Allocation

Cash Requirements. The following table summarizes, as of December 31, 2021, our cash requirements from contractual obligations that are due within the twelve months subsequent to December 31, 2021 and those due beyond that, excluding certain amounts discussed below (in thousands):

	2022	 Thereafter	Total
Long-term debt, including current portion - principal	\$ 12,267	\$ 3,739,177	\$ 3,751,444
Long-term debt - cash interest (1)	57,518	651,121	708,639
Short-term debt	15,748	_	15,748
Operating lease obligations (2)	85,427	183,109	268,536
Finance lease obligations (2)	1,185	1,467	2,652
Short-term lease obligations (3)	13,976	_	13,976
Deferral of employer portion of payroll tax payments	54,435	_	54,435
Equipment purchase commitments (4)	96,020		96,020
Total cash requirements from contractual obligations	\$ 336,576	\$ 4,574,874	\$ 4,911,450

- (1) Amounts represents cash interest and other financing expenses associated with our fixed-rate, long-term debt, which primarily includes our senior notes and financing transactions arising from the exercise of our equipment rental purchase options. However, our \$750.0 million term loan and \$449.8 million of outstanding revolving loans under our senior credit facility bear interest at variable market rates. Assuming the principal amount outstanding and interest rate in effect at December 31, 2021 with respect to this variable rate debt remained the same, the annual cash interest expense would be approximately \$18.6 million, payable until October 8, 2026, the maturity date of our senior credit facility. Such amount has not been included above due to its variability. Additionally, as discussed further in *Significant Sources of Cash* below, our cash interest expense may be impacted in future periods due to the transition in financial markets away from LIBOR, which is expected to be complete by mid-2023.
- (2) Amounts represent undiscounted obligations at December 31, 2021. The corresponding amounts recorded on our December 31, 2021 consolidated balance sheet represent the present value of these amounts.
- (3) Amounts represent short-term lease obligations that are not recorded on our December 31, 2021 consolidated balance sheet due to our accounting policy election. Month-to-month rental expense associated primarily with certain equipment rentals is excluded from these amounts because we are unable to accurately predict future rental amounts.
- (4) Amount represents capital committed for the expansion of our vehicle fleet. Although we have committed to the purchase of these vehicles/equipment at the time of their delivery, we expect that these orders will be assigned to third-party leasing companies and made available to us under certain of our master equipment lease agreements.

Contingent Obligations. We have various contingent obligations that could require the use of cash or impact the collection of cash in future periods; however, we are unable to accurately predict the timing and estimate the amount of such contingent obligations as of December 31, 2021. These contingent obligations generally include, among other things:

- contingent consideration liabilities and changes to consideration related to acquisitions and purchase price allocations, including liabilities assumed related to change of control provisions, which are described further in Note 6 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report;
- undistributed earnings of foreign subsidiaries and unrecognized tax benefits, which are described further in Note 12 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report;
- collective bargaining agreements and multiemployer pension plan liabilities, as well as liabilities related to our deferred compensation and other employee benefit plans, which are described further in Notes 15 and 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report; and
- obligations relating to our investments in affiliates and other entities, lawsuits and other legal proceedings, uncollectible accounts receivable, insurance liabilities, obligations relating to letters of credit, bonds and parent guarantees, obligations relating to employment agreements, indemnities and assumed liabilities, and residual value

guarantees, which are described further in Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

Capital Allocation. Our capital deployment priorities that require the use of cash include: (i) working capital to fund ongoing operating needs, (ii) capital expenditures to meet anticipated demand for our services, (iii) acquisitions and investments to facilitate the long-term growth and sustainability of our business, and (iv) return of capital to stockholders, including through the payment of dividends and repurchases of our outstanding common stock. Our industry is capital intensive, and we expect substantial capital expenditures and commitments for purchases and equipment lease and rental arrangements to be needed into the foreseeable future in order to meet anticipated demand for our services. We expect capital expenditures for the year ended December 31, 2022 to be approximately \$400 million. In line with our past practices, and as set forth in further detail below, we also expect to continue to allocate significant capital to strategic acquisitions and investments, as well as to pay dividends and to repurchase our outstanding common stock.

# Significant Sources of Cash

We anticipate that our future cash flows from operating activities, cash and cash equivalents on hand, existing borrowing capacity under our senior credit facility and ability to access capital markets for additional capital will provide sufficient funds to enable us to meet our cash requirements described above for the next twelve months and over the longer term.

Cash flow from operating activities is primarily influenced by demand for our services and operating margins but is also influenced by the timing of working capital needs associated with the various types of services that we provide. Our working capital needs may increase when we commence large volumes of work under circumstances where project costs are required to be paid before the associated receivables are billed and collected. Additionally, operating cash flows may be negatively impacted as a result of unpaid change orders and claims. Additionally, changes in project timing due to delays or accelerations and other economic factors that may affect customer spending, including the potential continued impact of the COVID-19 pandemic, could also impact cash flow from operating activities. Further information with respect to our cash flow from operating activities is set forth below and in Note 19 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

Our available commitments under our senior credit facility and cash and cash equivalents at December 31, 2021 were as follows (in thousands):

	Dece	ember 31, 2021
Total capacity available for revolving loans and letters of credit	\$	2,640,000
Less:		
Borrowings of revolving loans		449,841
Letters of credit outstanding		318,159
Available commitments for issuing revolving loans or new letters of credit		1,872,000
Plus:		
Cash and cash equivalents		229,097
Total available commitments under senior credit facility and cash and cash equivalents	\$	2,101,097

We consider our investment policies related to cash and cash equivalents to be conservative, as we maintain a diverse portfolio of what we believe to be high-quality cash and cash equivalent investments with short-term maturities. Further information with respect to our cash and cash equivalents is set forth in Note 18 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report. Additionally, subject to the conditions specified in the credit agreement for our senior credit facility, we have the option to increase the capacity of our senior credit facility, in the form of an increase in the revolving commitments, term loans or a combination thereof, from time to time, upon receipt of additional commitments from new or existing lenders by up to an additional (i) \$400.0 million plus (ii) additional amounts so long as the Incremental Leverage Ratio Requirement (as defined in the credit agreement) is satisfied at the time of such increase. The Incremental Leverage Ratio Requirement requires, among other things, after giving pro forma effect to such increase and the use of proceeds therefrom, compliance with the credit agreement's financial covenants as of the most recent fiscal quarter end for which financial statements were required to be delivered. Further information with respect to our debt obligations is set forth in Note 10 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

We may also seek to access the capital markets from time to time to raise additional capital, increase liquidity as necessary, refinance or extend the term of our existing indebtedness, fund acquisitions or otherwise fund our capital needs. For example, as described further in *Financing Activities* below and Note 10 of the Notes to Consolidated Financial Statements in

Item 8. Financial Statements and Supplementary Data of this Annual Report, in connection with the financing of our acquisition of Blattner, in September 2021 we issued \$1.50 billion aggregate principal amount of senior notes and received net proceeds of \$1.48 billion, and in October 2021 we amended our senior credit facility to, among other things, provide for a \$750.0 million term loan facility and increase the aggregate revolving commitments of the lenders from \$2.51 billion to \$2.64 billion. While our financial strategy and consistent performance have allowed us to maintain investment grade ratings subsequent to these financing transactions, our ability to access capital markets in the future depends on a number of factors, including our financial performance and financial position, our credit ratings, industry conditions, general economic conditions, our backlog, capital expenditure commitments, market conditions and market perceptions of us and our industry.

Furthermore, our interest expense may be impacted in future periods due to the transition in financial markets away from the London Interbank Offered Rate (LIBOR), which is expected to be complete by mid-2023. While the credit agreement for our senior credit facility includes LIBOR benchmark replacement provisions, the ultimate impact of the transition away from LIBOR remains unknown and subject to numerous factors, including determination of a replacement benchmark, and could materially and adversely affect our interest expense in future periods.

# Sources and Uses of Cash and Cash Equivalents During the Years Ended December 31, 2021 and 2020

In summary, our cash flows for each period were as follows (in thousands):

	Year Ended	Dece	mber 31,
	2021		2020
Net cash provided by operating activities	\$ 582,390	\$	1,115,977
Net cash used in investing activities	(2,898,613)		(499,323)
Net cash provided by (used in) financing activities	2,360,877		(601,365)

### Operating Activities

As discussed above, cash flow from operating activities is primarily influenced by demand for our services and operating margins but is also influenced by working capital needs. Our working capital needs may increase when we commence large volumes of work under circumstances where project costs, primarily labor, equipment and subcontractors, are required to be paid before the associated receivables are billed and collected and when we incur costs for work that is the subject of unpaid change orders and claims. Accordingly, changes within working capital in accounts receivable, contract assets and contract liabilities are normally related and are typically affected on a collective basis by changes in revenue due to the timing and volume of work performed and variability in the timing of customer billings and payments. Additionally, working capital needs are generally higher during the summer and fall due to increased demand for our services when favorable weather conditions exist in many of our operating regions. Conversely, working capital assets are typically converted to cash during the winter. These seasonal trends can be offset by changes in project timing due to delays or accelerations and other economic factors that may affect customer spending, including market conditions or the impact of certain unforeseen events (e.g., COVID-19 pandemic).

Net cash provided by operating activities during the year ended December 31, 2021 was negatively impacted primarily by increased working capital requirements, including with respect to progress on two large transmission projects in Canada, and the timing of the associated billings, including the resolution of certain change orders and claims. Both of the projects were negatively impacted by delays attributable to the COVID-19 pandemic and unrelated wildfires in the region, and one project was also impacted by an acceleration of the project timeline, all of which resulted in change orders and claims and an increase in contract assets. See Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report for further information related to change orders and claims. Net cash provided by operating activities during the year ended December 31, 2021 also included the payment of \$54.4 million of deferred employer payroll taxes, which were due during the year ended December 31, 2020 but deferred pursuant to the Coronavirus Aid, Relief, and Economic Security Act (CARES Act) and other federal and state actions. An additional \$54.4 million of deferred employer payroll taxes will be paid during the year ending December 31, 2022. Net cash provided by operating activities during the year ended December 31, 2021 was also negatively impacted by aggregate payments of \$72.3 million related to certain change of control liabilities owed to employees of Blattner and payable in connection with our acquisition of Blattner, as well as approximately \$37.4 million of cash payments for acquisition and integration costs, as compared to approximately \$19.8 million of cash payments for acquisition and integration costs during the year ended December 31, 2020. Additionally, net cash provided by operating activities during the year ended December 31, 2020 was favorably impacted by the receipt of \$82.0 million of insurance proceeds associated with the settlement of two pipeline project claims in the fourth quarter of 2019. Partially offsetting the negative impact of these items for the year ended December 31, 2021 were increased earnings as compared to the year ended December 31, 2020.

Days sales outstanding (DSO) represents the average number of days it takes revenues to be converted into cash, which management believes is an important metric for assessing liquidity. A decrease in DSO has a favorable impact on cash flow from operating activities, while an increase in DSO has a negative impact on cash flow from operating activities. DSO is calculated by using the sum of current accounts receivable, net of allowance (which includes retainage and unbilled balances), plus contract assets less contract liabilities, divided by average revenues per day during the quarter. DSO at December 31, 2021 was 80 days, which was lower than DSO of 83 days at December 31, 2020 and equal to our five-year historical average DSO of 80 days. This decrease in DSO as compared to December 31, 2020 was primarily due to the favorable impact of the acquisition of Blattner, which has historically had a lower DSO than certain of our other larger operating companies. That decrease was partially offset by increased working capital requirements related to progress on two large transmission projects in Canada and the timing of the associated billings.

# Investing Activities

Net cash used in investing activities during 2021 included \$2.45 billion used for acquisitions, most of which relates to our acquisition of Blattner; \$385.9 million used for capital expenditures; and \$139.0 million of cash paid for equity and other investments, which primarily relates to the acquisition of a minority interest in a broadband technology company and an investment in an entity that provides right-of-way solutions, including site preparation and clearing, materials delivery and installation and management of permitting requirements and traffic control. These items were partially offset by \$49.2 million of proceeds from the sale of property and equipment and \$29.1 million of cash received from investments.

Net cash used in investing activities during 2020 included \$292.6 million used for acquisitions, \$260.1 million used for capital expenditures and \$14.9 million of cash paid for investments in unconsolidated affiliates and other entities, partially offset by \$35.4 million of proceeds from the sale of property and equipment, \$18.8 million of proceeds from the disposition of businesses and \$14.0 million of cash received from investments in unconsolidated affiliates and other entities.

Our industry is capital intensive, and we expect substantial capital expenditures and commitments under equipment lease and rental arrangements to be needed into the foreseeable future. We also have various other capital commitments that are detailed in *Cash Requirements and Capital Allocation* above. In addition, we expect to continue to pursue strategic acquisitions and investments, although we cannot predict the timing or amount of the cash needed for these initiatives.

# Financing Activities

On September 23, 2021, we received net proceeds from the issuance of senior notes of \$1.49 billion, net of the original issue discount and underwriting discounts but not net of \$0.01 billion of deferred financing costs paid or accrued by us. On October 13, 2021, we borrowed the full amount of a \$750.0 million term loan facility under our senior credit facility and used such amount, together with the net proceeds from our September 2021 offering of the senior notes and approximately \$50.9 million of revolving loans borrowed under our senior credit facility, to pay the cash consideration for the acquisition of Blattner. Total net borrowings under our senior credit facility during the year ended December 31, 2021 were \$1.05 billion, which included the \$750.0 million term loan facility. Deferred financing costs paid directly by us during the year ended December 31, 2021 were \$12.6 million, \$8.2 million of which related to the September 2021 issuance of such senior notes and the term loan and amendment of our senior credit facility and \$4.4 million of which related to a bridge facility commitment entered into, but ultimately not utilized, in connection with our acquisition of Blattner. Net cash provided by financing activities in 2021 also included \$11.4 million of net borrowings of short-term debt.

Net cash provided by financing activities in 2021 was partially offset by \$66.7 million of cash payments for common stock repurchases, \$65.0 million of cash payments to satisfy tax withholding obligations associated with stock-based compensation and \$34.0 million of cash payments for dividends and cash dividend equivalents.

On September 22, 2020, we received net proceeds from the issuance of senior notes of \$990.1 million. These proceeds, together with cash on hand, were used to voluntarily prepay then-outstanding term loans, which is reflected in the \$1.20 billion of net repayments under our senior credit facility during the year ended December 30, 2020. Net cash used in financing activities in 2020 also included \$247.2 million of cash payments for common stock repurchases, \$61.5 million of payments to settle certain contingent consideration liabilities, \$28.9 million of cash payments for dividends and cash dividend equivalents, \$25.4 million of cash payments to satisfy tax withholding obligations associated with stock-based compensation, and \$11.1 million of deferred financing costs related to the September 2020 senior notes issuance and amendment to our credit agreement.

### **Critical Accounting Estimates**

The discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with GAAP. The preparation of these consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosures of

contingent assets and liabilities known to exist as of the date the consolidated financial statements are published and the reported amounts of revenues and expenses recognized during the periods presented. We review all significant estimates affecting our consolidated financial statements on a recurring basis and record the effect of any necessary adjustments prior to their publication. Judgments and estimates are based on our beliefs and assumptions derived from information available at the time such judgments and estimates are made. Uncertainties with respect to such estimates and assumptions are inherent in the preparation of financial statements. There can be no assurance that actual results will not differ from those estimates. Management has reviewed its development and selection of critical accounting estimates with the audit committee of our Board of Directors. Our accounting policies are primarily described in Note 2 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report and should be read in conjunction with the accounting policies identified below that we believe affect our more significant judgments and estimates used in the preparation of our consolidated financial statements.

**Revenue Recognition** - The estimation of contract revenues and costs, including changes in estimates; progress on construction projects; variable consideration; and collectability of accounts receivable, long-term accounts receivable, unbilled receivables, retainage and contract assets, including amounts related to unapproved change orders and claims in the process of being negotiated (refer to Note 4 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

**Property and Equipment** - The valuation methods and assumptions used in assessing impairment, useful life determination and the related timing of depreciation and the determination of asset groupings (also refer to Note 18 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

Goodwill - The valuation methods and assumptions used in assessing impairment, including determination of whether to perform a qualitative assessment on some or all of the reporting units, weighting of various methods of determining the fair value of each reporting unit, number of years of cash flows utilized before applying a terminal value, the weighted average cost of capital, transaction multiples, guideline public company multiples and five-year compounded annual growth rates (also refer to Note 7 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report).

*Other Intangible Assets* - The valuation methods and assumptions used in assessing the fair value of intangible assets as of the date a business is acquired, as well as any impairment, including determining the future revenues, discount rates and customer attrition rates (also refer to Note 7 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

Income Taxes - The identification and measurement of deferred tax assets and liabilities; the measurement of valuation allowances on deferred tax assets including estimates of future taxable income; estimates associated with tax liabilities in that tax laws and regulations are voluminous and often ambiguous; and benefits from uncertain tax positions (also refer to Note 12 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report).

*Insurance* - The estimation of liabilities and related recoveries (also refer to Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

*Litigation Costs and Reserves and Loss Contingencies* - The estimation of when a loss is probable or reasonably possible and whether any such loss is reasonably estimable or any range of possible loss is estimable, as well as uncertainties related to the outcome of litigation or other legal proceedings (also refer to Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

Acquisitions - The assumptions used to determine the fair value of consideration transferred and to allocate this consideration to assets acquired and liabilities assumed in connection with our acquisitions, including the estimated useful lives of other intangible assets subject to amortization (also refer to Note 6 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report).

**Stock-based compensation** - The assumptions used to determine the grant date fair value and attainment percentages related to performance stock units (also refer to Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report).

# ITEM 7A. Quantitative and Qualitative Disclosures About Market Risk

Our primary exposure to market risk relates to unfavorable changes in concentration of credit risk, interest rates and currency exchange rates.

Credit Risk. We are subject to concentrations of credit risk related to our cash and cash equivalents and net receivable position with customers, which includes amounts related to billed and unbilled accounts receivable and contract assets net of advanced billings with the same customer. Substantially all of our cash and cash equivalents are managed by what we believe to be high credit quality financial institutions. In accordance with our investment policies, these institutions are authorized to invest cash and cash equivalents in a diversified portfolio of what we believe to be high-quality investments, which primarily include interest-bearing demand deposits, money market investments and money market mutual funds. Although we do not currently believe the principal amounts of these cash and cash equivalents are subject to any material risk of loss, changes in economic conditions could impact the interest income we receive from these investments.

In addition, we grant credit under normal payment terms, generally without collateral, and therefore are subject to potential credit risk related to our customers' inability to pay for services provided. Furthermore, the risk of nonpayment may be heightened as a result of depressed economic and financial market conditions, including in connection with the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic. We believe the concentration of credit risk related to billed and unbilled receivables and contract assets is limited because of the diversity of our customers, and we perform ongoing credit risk assessments of our customers and financial institutions and in some cases obtain collateral or other security from our customers. However, certain customers within our Underground Utility and Infrastructure Solutions segment have encountered operational and/or financial difficulties that have resulted in delayed payment and nonpayment of receivables in recent years. For additional information regarding these matters, see *Revenue Recognition - Accounts Receivable and Allowance for Credit Losses* in Note 4 and *Concentrations of Credit Risk* in Note 16 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for additional information.

Interest Rate Risk. As of December 31, 2021, we had no derivative financial instruments to manage interest rate risk. As such, we were exposed to earnings and fair value risk due to changes in interest rates with respect to our variable rate debt, which is comprised of certain borrowings under the credit agreement for our senior credit facility. As of December 31, 2021, the fair value of our variable rate debt of \$1.20 billion approximated book value, and our weighted average interest rate on our variable rate debt for the year ended December 31, 2021 was 1.9%. The annual effect on our pretax earnings of a hypothetical 50 basis point increase or decrease in variable interest rates would be approximately \$6.0 million based on our December 31, 2021 balance of variable rate debt.

Additionally, the transition in financial markets away from LIBOR, which is scheduled to occur by mid-2023 may lead to additional volatility in interest rates and could cause our debt service obligations to increase significantly. While the credit agreement for our senior credit facility includes LIBOR benchmark replacement provisions that are designed to mitigate volatility associated with this transition, the ultimate impact of the transition away from LIBOR remains unknown and subject to numerous factors, including determination of a replacement benchmark, and could materially and adversely affect our interest expense in future periods. For additional information on our debt instruments, including our senior notes, senior credit facility, the bridge facility commitment and interest requirements, see Note 10 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data of this Annual Report.

Foreign Currency Risk. The U.S. dollar is the functional currency for the majority of our operations, which are primarily located within the United States. The functional currency for our foreign operations, which are primarily located in Canada and Australia, is typically the currency of the country in which the foreign operating company is located. Accordingly, our financial performance is subject to fluctuation due to changes in foreign currency exchange rates relative to the U.S. dollar. During 2021, revenues from our foreign operations accounted for 14.7% of our consolidated revenues. Fluctuations in foreign exchange rates during the year ended December 31, 2021 caused an increase of approximately \$114 million in foreign revenues and an increase of approximately \$4 million in foreign operating income compared to the year ended December 31, 2020. Fluctuations in foreign exchange rates during the year ended December 31, 2020 caused a decrease of approximately \$17 million in foreign revenues and an increase of approximately \$4 million in foreign operating income compared to the year ended December 31, 2019.

We are also subject to foreign currency risk with respect to sales, purchases and borrowings that are denominated in a currency other than the respective functional currencies of our operating companies. To minimize the risk from changes in foreign currency exchange rates, we may enter into foreign currency derivative contracts to hedge our foreign currency risk on a cash flow basis. There were no outstanding foreign currency derivative contracts at December 31, 2021.

We also have foreign exchange risk related to cash and cash equivalents in foreign banks. Based on the balance of cash and cash equivalents in foreign banks of \$23.3 million as of December 31, 2021, an assumed 5% adverse change to foreign exchange rates would result in a fair value decline of \$0.8 million.

# ITEM 8. Financial Statements and Supplementary Data

# INDEX TO QUANTA SERVICES, INC.'S CONSOLIDATED FINANCIAL STATEMENTS

_	Page
Report of Management	66
Report of Independent Registered Public Accounting Firm (PCAOB ID 238)	67
Consolidated Balance Sheets	70
Consolidated Statements of Operations	71
Consolidated Statements of Comprehensive Income	72
Consolidated Statements of Cash Flows	73
Consolidated Statements of Equity	74
Notes to Consolidated Financial Statements	75

### REPORT OF MANAGEMENT

# Management's Report on Financial Information and Procedures

The accompanying financial statements of Quanta Services, Inc. and its subsidiaries were prepared by management. These financial statements were prepared in accordance with accounting principles generally accepted in the United States, applying certain estimates and judgments as required.

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple errors or mistakes. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

# Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rule 13a-15(f) under the Securities Exchange Act of 1934. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our consolidated financial statements for external purposes in accordance with U.S. generally accepted accounting principles. Internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we have conducted an evaluation of the effectiveness of our internal control over financial reporting based upon the criteria established in *Internal Control* — *Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management has concluded that our internal control over financial reporting was effective as of December 31, 2021 to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurances and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The effectiveness of Quanta Services, Inc.'s internal control over financial reporting as of December 31, 2021 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in its report which appears herein.

Management's assessment of the effectiveness of our internal control over financial reporting as of December 31, 2021 excluded the ten businesses we acquired in 2021. Such exclusion was in accordance with SEC guidance that an assessment of recently acquired businesses may be omitted in management's report on internal control over financial reporting, provided the acquisition took place within twelve months of management's evaluation. These acquisitions comprised approximately 5.1% and 3.8% of our consolidated assets and revenues as of and for the year ended December 31, 2021 and included the acquisition of Blattner, which comprised approximately 4.0% and 3.4% of our consolidated assets and revenues as of and for the year ended December 31, 2021.

# Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Quanta Services, Inc.

# Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Quanta Services, Inc. and its subsidiaries (the "Company") as of December 31, 2021, and 2020 and the related consolidated statements of operations, of comprehensive income, of equity and of cash flows for each of the three years in the period ended December 31, 2021, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2021 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

# **Basis for Opinions**

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As described in Management's Report on Internal Control Over Financial Reporting, management has excluded ten acquired businesses from its assessment of internal control over financial reporting as of December 31, 2021 because they were acquired by the Company in purchase business combinations during 2021. We have also excluded these ten acquired businesses from our audit of internal control over financial reporting. These acquired businesses, each of which is wholly-owned, comprised, in the aggregate, total assets and total revenues excluded from management's assessment and our audit of internal control over financial reporting of approximately 5.1% and 3.8% of consolidated total assets and consolidated total revenues, respectively, as of and for the year ended December 31, 2021. The most significant of these entities, representing 4.0% of consolidated total assets and 3.4% of consolidated total revenues was Blattner.

# Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and

dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

### Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Revenue Recognition - Determination of Total Estimated Contract Costs for Contracts Recognized Over Time

As described in Note 4 to the consolidated financial statements, the Company recognizes certain revenue over time as it performs its obligations because there is a continuous transfer of control of the deliverable to the customer. Under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, the Company recognizes revenue as performance obligations are satisfied over time, with the percentage completion generally measured as the percentage of costs incurred to total estimated costs for such performance obligation. During the year ended December 31, 2021, approximately 45.9% of the Company's revenues recognized were associated with this revenue recognition method. Contract costs include all direct materials, labor and subcontract costs and indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs and depreciation costs. Actual revenues and project costs can vary, sometimes substantially, from previous estimates due to changes in a variety of factors, including unforeseen or changed circumstances not included in management's cost estimates or covered by its contracts. The estimating process is based on the professional knowledge and experience of management's project estimators, project managers and finance professionals.

The principal considerations for our determination that performing procedures relating to revenue recognition for contracts recognized over time is a critical audit matter are (i) the significant judgment by management when determining the total estimated contract costs and (ii) the high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating audit evidence relating to management's estimate of the total costs of the contracts recognized over time.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the revenue recognition process and the determination of total estimated contract costs for contracts recognized over time. These procedures also included, among others, for a sample of contracts, (i) testing management's process for determining the total estimated contract costs which included evaluating the contracts and other documents that support those estimates, and testing of underlying contract costs; (ii) evaluating management's ability to reasonably estimate total contract costs by performing a comparison of the total estimated contract costs as compared with prior period estimates, including evaluating the timely identification of circumstances that may warrant a modification to the total estimated contract costs; and (iii) evaluating management's methodologies and the consistency of management's methodologies over the life of the contract.

Acquisition of Blattner Holding Company - Valuation of the Customer Relationship Intangible Asset

As described in Notes 2 and 6 to the consolidated financial statements, the Company completed the acquisition of Blattner Holding Company and its operating subsidiaries (collectively, "Blattner") on October 13, 2021. The acquisition resulted in \$1,425 million of identifiable intangible assets being recorded, of which \$1,045 million related to customer relationships. The fair value of customer relationships is estimated as of the date a business is acquired based on the value-in-use concept utilizing the income approach, specifically the multi-period excess earnings method. This method discounts to present value the projected cash flows attributable to the customer relationships, with consideration given to customer contract renewals and estimated customer attrition rates. The significant estimates used by management in determining the fair value of the customer relationship intangible asset include future revenues, the discount rate and the customer attrition rate.

The principal considerations for our determination that performing procedures relating to the valuation of the customer relationship intangible asset acquired in the acquisition of Blattner is a critical audit matter are (i) the significant judgment by management when developing the fair value of the customer relationship intangible asset; (ii) the high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating the significant assumptions related to future revenues, the discount rate, and the customer attrition rate, and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the acquisition accounting, including controls over management's valuation of the acquired customer relationship intangible asset and controls over the development of significant assumptions related to future revenues, the discount rate, and the customer attrition rate. These procedures also included, among others (i) reading the purchase agreement; (ii) testing management's process for developing the fair value of the customer relationship intangible asset; (iii) evaluating the appropriateness of the multi-period excess earnings method and the reasonableness of significant assumptions related to future revenues, the discount rate, and the customer attrition rate for the customer relationship intangible asset; and (iv) testing the completeness and accuracy of underlying data used in the multi-period excess earnings method. Evaluating the reasonableness of future revenues involved considering the past performance of the acquired business, as well as economic forecasts. Professionals with specialized skill and knowledge were used to assist in the evaluation of the appropriateness of the Company's multi-period excess earnings method and the reasonableness of the discount rate and customer attrition rate significant assumptions.

/s/ PricewaterhouseCoopers LLP

Houston, Texas February 25, 2022

We have served as the Company's auditor since 2002.

# **CONSOLIDATED BALANCE SHEETS** (In thousands, except share information)

		Decen	iber	31,
		2021		2020
ASSETS				
Current Assets:				
Cash and cash equivalents	\$	229,097	\$	184,620
Accounts receivable, net of allowances of \$49,749 and \$16,546		3,400,318		2,716,083
Contract assets		803,453		453,832
Inventories		84,659		50,472
Prepaid expenses and other current assets		215,050		183,382
Total current assets		4,732,577		3,588,389
Property and equipment, net of accumulated depreciation of \$1,503,498 and \$1,372,132		1,919,697		1,560,656
Operating lease right-of-use assets		240,605		256,845
Other assets, net		632,244		435,713
Other intangible assets, net of accumulated amortization of \$682,498 and \$517,574		1,801,180		435,655
Goodwill		3,528,886		2,121,014
Total assets	\$	12,855,189	\$	8,398,272
LIABILITIES AND EQUITY				
Current Liabilities:				
Current maturities of long-term debt and short-term debt	\$	29,166	\$	14,764
Current portion of operating lease liabilities		78,251		85,134
Accounts payable and accrued expenses		2,254,671		1,509,794
Contract liabilities		802,872		528,864
Total current liabilities		3,164,960		2,138,556
Long-term debt, net of current maturities		3,724,474		1,174,294
Operating lease liabilities, net of current portion		170,427		178,822
Deferred income taxes	• •	191,098		166,407
Insurance and other non-current liabilities		487,309		391,221
Total liabilities		7,738,268		4,049,300
Commitments and Contingencies				
Equity:				
Common stock, \$0.00001 par value, 600,000,000 shares authorized, 168,546,513 and 162,710,792 shares issued, and 142,633,934 and 138,300,191 shares outstanding	• •	2		2
Additional paid-in capital		2,615,410		2,170,026
Retained earnings		3,714,843		3,264,967
Accumulated other comprehensive loss		(237,689)		(232,997)
Treasury stock, 25,912,579 and 24,410,601 common shares		(980,265)		(857,817)
Total stockholders' equity		5,112,301		4,344,181
Non-controlling interests		4,620		4,791
Total equity		5,116,921		4,348,972
Total liabilities and equity	_	12,855,189	\$	8,398,272

# CONSOLIDATED STATEMENTS OF OPERATIONS

(In thousands, except per share information)

	_	Ye	ar E	nded December	31,	
	_	2021		2020		2019
Revenues	\$	12,980,213	\$	11,202,672	\$	12,112,153
Cost of services (including depreciation)	· · · ·	11,026,954		9,541,825		10,511,901
Gross profit		1,953,259		1,660,847		1,600,252
Equity in earnings of integral unconsolidated affiliates		44,061		11,303		_
Selling, general and administrative expenses		(1,155,956)		(975,074)		(955,991)
Amortization of intangible assets		(165,366)		(76,704)		(62,091)
Asset impairment charges		(5,743)		(8,282)		(13,892)
Change in fair value of contingent consideration liabilities		(6,734)		(719)		(13,404)
Operating income		663,521		611,371		554,874
Interest and other financing expenses		(68,899)		(45,013)		(66,890)
Interest income		3,194		2,449		927
Other income, net	· · ·	25,085		2,539		83,376
Income before income taxes		622,901		571,346		572,287
Provision for income taxes		130,918		119,387		165,472
Net income		491,983		451,959		406,815
Less: Net income attributable to non-controlling interests		6,027		6,363		4,771
Net income attributable to common stock	\$	485,956	\$	445,596	\$	402,044
Earnings per share attributable to common stock:						
Basic	\$	3.45	\$	3.15	\$	2.76
Diluted	\$	3.34	\$	3.07	\$	2.73
Shares used in computing earnings per share:						
Weighted average basic shares outstanding		140,824		141,380		145,710
Weighted average diluted shares outstanding		145,373		145,247		147,534

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (In thousands)

	Ye	ar En	ded December	31,	
	2021		2020		2019
Net income	\$ 491,983	\$	451,959	\$	406,815
Other comprehensive income (loss), net of taxes:					
Foreign currency translation adjustment, net of tax of \$0, \$0 and \$0	(5,877)		11,439		43,535
Other, net of tax of \$(381), \$865 and \$(200)	1,185 (2,618)				695
Other comprehensive income (loss), net of taxes	(4,692)		8,821		44,230
Comprehensive income	487,291		460,780		451,045
Less: Comprehensive income attributable to non-controlling interests	6,027		6,363		4,771
Total comprehensive income attributable to common stock	\$ 481,264	\$	454,417	\$	446,274

# CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)

Cash Flows from Operating Activities:         5         401,03         4 51,05         4 08,08           Chill Flows from Operating Activities:         8         401,03         4 51,059         \$ 0,000,18           Chill Flows from Concile net income to recisal provided by operating activities:         255,529         225,526         218,107           Deprecation of intrangible assets         1616,366         76,704         60,001           Asset impairment clurges.         6,743         719         31,001           Impairment of cost method investment         6,743         719         31,001           Change in fair value of contingent consideration liabilities         6,845         1,010         6,783           Equity in campaigs of unconsolidated affiliates, net of distributions         8,845         1,010         6,783           Giain on sale of property and equipment         9,101         6,010         6,793           Provision for credit loses         3,459         1,060         1,079           Non-cash stock-based compensation         8,259         1,010         1,010           Non-cash stock-based compensation         8,259         1,115,97         5,058           Payments for contingent consideration liabilities         6,101         1,115,97         5,058           Roceasing currency a		Ye	ar Ended December	31,
Not   Income   S   491,983   \$41,985   \$406,815     Alijustments to reconcile net income to net cash provided by operating activities		2021	2020	2019
Adjustments to reconcile net income to net eash provided by operating activities	Cash Flows from Operating Activities:			
Depreciation		\$ 491,983	\$ 451,959	\$ 406,815
Amortization of intangible assets         165,366         76,704         62,091           Asset impairment charges         5,743         8,282         13,892           Impairment clost method investment         ————————————————————————————————————	Adjustments to reconcile net income to net cash provided by operating activities —			
Asset impairment charges         5,743         8,282         11,3892           Impairment of cost method investment         — 9,311         — 1,340           Change in fair value of contingent consideration liabilities         6,734         7,19         13,404           Equity in earnings of unconsolidated affiliates, net of distributions         28,682         11,309         6,7680           Gain on sale of property and equipment         (9,116)         3,056         11,249           Gain on sale of property and equipment         26,071         (60,016)         (7,919)           Powision for credit losses         34,890         3,656         11,249           Deferred income tax expense (benefit)         26,071         (60,016)         (7,919)           Non-cash stock-based compensation         88,259         9,161         52,010           Foreign currency and other         (5,110)         (5,159)         (5,580)           Payments for contingent consideration liabilities         1,115,077         20,025         20,025           Payments for contingent consideration liabilities         3,152         20,025         20,025           Payments for contingent consideration liabilities         45,7682         327,309         1,150,75           Ryaments in present passet and liabilities, net of non-eash transactions	Depreciation	255,529	225,256	218,107
Impairment of cost method investment.         6,734         7.19         13.404           Change in fair value of contingent consideration liabilities.         6,734         7.19         13.404           Equity in carnings of unconsolidated affiliales, net of distributions         (28,682)         (1,309)         (76,801)           Amortization of deferred financing costs         8,405         5,126         1,870           Gain on sale of property and equipment         (9,116)         (6,016)         (7,919)           Provision for credit losses         34,890         3,656         11,249           Deferred income tax expense (henefit)         6,011         (6,010)         (7,919)           Non-cash stock-based compensation         88,259         1,615         (5,568)           Porcing currency and other         (5,110)         (5,159)         (5,568)           Porceads for contingent consideration liabilities, net of non-cash transactions         82,300         1,115,977         256,551           Net each provided by operating activities         382,300         1,115,977         256,551           Capital expenditures         (8,615)         (26,01,52)         (26,176)           Proceeds from investing activities         (38,585)         (26,025)         (26,176)           Cash provided by operating activities <td>Amortization of intangible assets</td> <td>165,366</td> <td>76,704</td> <td>62,091</td>	Amortization of intangible assets	165,366	76,704	62,091
Change in fair value of contingent consideration liabilities         6,734         719         13,404           Equity in earnings of unconsolidated affiliates, net of distributions         (28,682)         (1,309)         (76,801)           Amortization of deferred financing costs         8,405         5,126         1,879           Gain on sale of property and equipment         (9,116)         (3,056)         11,249           Deferred income tax expense (henefit)         26,071         (60,016)         (7,919)           Non-cash stock-based compensation         88,259         91,641         52,013           Foreign currency and other         (5,110)         (14,506)         —           Payments for contingent consideration liabilities         —         (14,506)         —           Payments for contingent consideration liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           Payments for nothingent consideration liabilities         —         (14,506)         —         —           Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           As to provide the property and equipment         (38,852)         (260,052)         (261,762)           As provide property and equipment         535         542         1,9	Asset impairment charges	5,743	8,282	13,892
Equity in earnings of unconsolidated affiliates, net of distributions         (28,682)         (1,309)         (76,801)           Amortization of deferred financing costs         8,405         5,126         1,870           Gain on sale of property and equipment         (9,116)         (3,056)         11,249           Provision for credit losses         34,890         3,656         11,249           Deferred income tax expense (benefit)         26,071         (60,016)         (7,919)           Non-cash stock-based compensation         88,259         91,641         32,013           Foreign currency and other         (5,110)         (5,159)         (5,568)           Payments for contingent consideration liabilities         (457,682)         327,369         (16,568)           Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (15,608)           Net cash provided by operating activities         88,2390         1,115,977         526,551           Cash Flows from Investing Activities         388,5852         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,300         31,422           Proceeds from investing Activities         28,086         522,000,523         (387,966)           Proceeds from dis	Impairment of cost method investment	<u> </u>	9,311	_
Amortization of deferred financing costs         8,405         5,126         1,870           Gain on sale of property and equipment         (9,116)         (3,056)         (1,799)           Provision for credit losses         34,890         3,656         11,249           Deferred income tax expense (benefit)         26,071         (60,016)         (7,919)           Non-cash stock-based compensation         88,259         91,641         52,018           Foreign currency and other         (5,110)         (5,159)         (5,568)           Payments for contingent consideration liabilities         (47,682)         327,369         (16,805)           Net cash provided by operating activities         882,390         11,159,77         526,581           Net cash provided by operating activities         883,582         (260,052)         (261,762)           Proceeds from investing Activities         383,590         31,142           Proceeds from sale of property and equipment         553         542         1,964           Cash plad for acquisitions, set of cash, cash equivalents and restricted cash acquired         (2,481,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         18,765         14,7056         4,7056           Cash paid for intangible assets         28,10	· · · · · · · · · · · · · · · · · · ·		719	13,404
Gain on sale of property and equipment         (9,116)         (3,056)         (5,797)           Provision for credit losses         34,890         3,566         11,249           Deferred income tax expense (benefit)         26,071         (60,016)         (7,919)           Non-cash stock-based compensation         88,259         91,641         52,013           Foreign currency and other         (5,110)         (5,159)         (5,568)           Payments for contingent consideration liabilities.         — (14,506)         — (15,508)         — (14,506)         — (15,508			(1,309)	(76,801)
Provision for credit losses         34,890         3,656         11,249           Deferred income tax expense (benefit)         26,071         (60,016)         (7,1919)           Non-eash stock-based compensation         88,259         91,614         52,013           Foreign currency and other         (5,110)         (5,159)         (5,568)           Payments for contingent consideration liabilities         —         (14,506)         —           Changes in operating assets and liabilities, not of non-cash transactions         457,682)         327,369         (15,6805)           Net eash provided by operating activities         882,300         1,115,977         526,551           Cash Flows from Investing Activities         (385,882)         (260,052)         (261,762)           Proceeds from insurance settlements related to property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573         (387,966)           Proceeds from disposition of businesses         —         1,878         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856) <td< td=""><td>Amortization of deferred financing costs</td><td>8,405</td><td>5,126</td><td>1,870</td></td<>	Amortization of deferred financing costs	8,405	5,126	1,870
Deferred income tax expense (benefit)         26,071         (60,016)         (7,919)           Non-eash stock-based compensation         88,259         91,641         52,013           Foreign currency and other         (5,110)         (5,158)         (5,658)           Payments for contingent consideration liabilities, net of non-eash transactions         (457,682)         327,369         (156,805)           Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities:         7         49,186         35,390         31,142           Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         55         54         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash paid for intangible assets         (867)         (522)         (508)           Net cash paid for intangible assets         (867)         (522)         (508)	Gain on sale of property and equipment	(9,116)	(3,056)	(5,797)
Non-cash stock-based compensation         88,259         91,641         52,013           Foreign currency and other         (5,110)         (5,159)         (5,568)           Payments for contingent consideration liabilities         —         (14,506)         —           Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from sale of property and equipment and restricted cash acquired         (2,451,703)         (292,573)         (387,660)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash received from investments activities         (2,898,613)         (499,323)         (617,5558           Despend in intangible assets         (2,807)         (522)         (508)           Net cash used in investing activitie	Provision for credit losses	34,890	3,656	11,249
Foreign currency and other         (5,10)         (5,159)         (5,68)           Payments for contingent consideration liabilities         —         (14,506)         —           Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities:         (385,852)         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         33,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         118,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         (29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508           Net cash used in investing activities         (2,898,613)         (499,323)         (617,558	Deferred income tax expense (benefit)	26,071	(60,016)	(7,919)
Payments for contingent consideration liabilities         —         (14,506)         —           Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities:         (385,852)         (260,052)         (261,762)           Proceeds from asle of property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         -         18,785         -           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash received from investments         (867)         (522)         (508           Net cash used in investing activities         (867)         (522)         (508           Shelows from Financing Activities         (867)         (522)         (508 <tr< td=""><td>Non-cash stock-based compensation</td><td> 88,259</td><td>91,641</td><td>52,013</td></tr<>	Non-cash stock-based compensation	88,259	91,641	52,013
Changes in operating assets and liabilities, net of non-cash transactions         (457,682)         327,369         (156,805)           Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities:         (385,852)         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from issurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         387,966           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596           Cash provings under credit facility         (3,655)         (2,983,529)         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5			(5,159)	(5,568)
Net cash provided by operating activities         582,390         1,115,977         526,551           Cash Flows from Investing Activities:         385,852)         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities         5,316,002         2,983,529         6,175,558           Payments under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         4(,265,478)         (4,187,645)         (59,03,069)           Proceeds from notes offerings         1,487,450         990,130         —	Payments for contingent consideration liabilities	—	(14,506)	_
Cash Flows from Investing Activities:         (385,852)         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,300         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,556)           Selows from Financing Activities         (2,898,613)         (499,323)         (617,558)           Payments under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,455         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net b			327,369	(156,805)
Capital expenditures         (385,852)         (260,052)         (261,762)           Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (887)         (522)         (508)           Net cash used in investing activities         2,898,613         (499,323)         (617,558)           Shet cash used in investing activities         5,316,002         2,983,529         6,175,558           Payments mader credit facility         4,265,478         (4,187,645)         (590,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments under credit facility         3,635         (2,970)         (2,203)           Proceeds from notes offerings	Net cash provided by operating activities	582,390	1,115,977	526,551
Proceeds from sale of property and equipment         49,186         35,390         31,142           Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred	Cash Flows from Investing Activities:			
Proceeds from insurance settlements related to property and equipment         535         542         1,964           Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         8         44,876,450         (5,903,069)           Payments under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments under credit facility         (3,635)         (2,970)         (2,203)           Potencia from notes offerings         1,487,450         990,130         —           Payments under credit facility	Capital expenditures	(385,852)	(260,052)	(261,762)
Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired         (2,451,703)         (292,573)         (387,966)           Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         ***         ***         ***         ***         (499,323)         (617,596)           Cash Flows from Financing Activities:         ***         ***         ***         ***         (499,323)         (617,596)           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)         ***         ***         ***         ***         ***         ***         ***         (5,903,069)         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***	Proceeds from sale of property and equipment	49,186	35,390	31,142
Proceeds from disposition of businesses         —         18,785         —           Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (63,57)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (3,022)         <	Proceeds from insurance settlements related to property and equipment	535	542	1,964
Investments in unconsolidated affiliates and other         (139,021)         (14,856)         (47,056)           Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         ****         ****         ****         ****         (61,75,558)           Payments under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130            Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (63,57)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,148)           Payments of d	Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired	(2,451,703)	(292,573)	(387,966)
Cash received from investments         29,109         13,963         46,590           Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         San Flows from Financing Activities         San Flows from Financing Activities           Borrowings under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of	Proceeds from disposition of businesses		18,785	_
Cash paid for intangible assets         (867)         (522)         (508)           Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         8         8         (4,265,478)         (4,187,645)         (5,903,069)           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net	Investments in unconsolidated affiliates and other	(139,021)	(14,856)	(47,056)
Net cash used in investing activities         (2,898,613)         (499,323)         (617,596)           Cash Flows from Financing Activities:         8         8         6,175,558         6,230         6,230         6,230         6,230         6,230         6,230         6,230         6,230         6,230         6,230         6,1483        2,256         6,357         6,404         6,526         6,540         6,540         6,540         6,540         6,540 <td>Cash received from investments</td> <td>29,109</td> <td>13,963</td> <td>46,590</td>	Cash received from investments	29,109	13,963	46,590
Cash Flows from Financing Activities:           Borrowings under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash	Cash paid for intangible assets	(867)	(522)	(508)
Borrowings under credit facility         5,316,002         2,983,529         6,175,558           Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         45,079         17,063         86,489 <t< td=""><td>Net cash used in investing activities.</td><td>(2,898,613)</td><td>(499,323)</td><td>(617,596)</td></t<>	Net cash used in investing activities.	(2,898,613)	(499,323)	(617,596)
Payments under credit facility         (4,265,478)         (4,187,645)         (5,903,069)           Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Cash Flows from Financing Activities:			
Proceeds from notes offerings         1,487,450         990,130         —           Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Borrowings under credit facility	5,316,002	2,983,529	6,175,558
Payments on other long-term debt         (3,635)         (2,970)         (2,203)           Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Payments under credit facility	(4,265,478)	(4,187,645)	(5,903,069)
Net borrowings (repayments) of short-term debt         11,391         (4,846)         (28,292)           Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Proceeds from notes offerings	1,487,450	990,130	_
Deferred financing costs         (12,568)         (11,089)         (2,309)           Payments for contingent consideration liabilities         (263)         (61,483)         —           Distributions to non-controlling interests, net of contributions received         (6,357)         (5,404)         (2,526)           Payments related to tax withholding for share-based compensation         (64,956)         (25,447)         (16,144)           Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Payments on other long-term debt	(3,635)	(2,970)	(2,203)
Payments for contingent consideration liabilities (263) (61,483) — Distributions to non-controlling interests, net of contributions received (6,357) (5,404) (2,526) Payments related to tax withholding for share-based compensation (64,956) (25,447) (16,144) Payments of dividends (34,022) (28,891) (23,236) Repurchase of common stock (66,687) (247,249) (20,092) Net cash provided by (used in) financing activities 2,360,877 (601,365) 177,687  Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash 45,079 17,063 86,489 Cash, cash equivalents and restricted cash, beginning of year 186,808 169,745 83,256	Net borrowings (repayments) of short-term debt	11,391	(4,846)	(28,292)
Payments for contingent consideration liabilities (263) (61,483) — Distributions to non-controlling interests, net of contributions received (6,357) (5,404) (2,526) Payments related to tax withholding for share-based compensation (64,956) (25,447) (16,144) Payments of dividends (34,022) (28,891) (23,236) Repurchase of common stock (66,687) (247,249) (20,092) Net cash provided by (used in) financing activities 2,360,877 (601,365) 177,687  Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash 45,079 17,063 86,489 Cash, cash equivalents and restricted cash, beginning of year 186,808 169,745 83,256	Deferred financing costs	(12,568)	(11,089)	(2,309)
Payments related to tax withholding for share-based compensation       (64,956)       (25,447)       (16,144)         Payments of dividends       (34,022)       (28,891)       (23,236)         Repurchase of common stock       (66,687)       (247,249)       (20,092)         Net cash provided by (used in) financing activities       2,360,877       (601,365)       177,687         Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash       425       1,774       (153)         Net increase in cash, cash equivalents and restricted cash       45,079       17,063       86,489         Cash, cash equivalents and restricted cash, beginning of year       186,808       169,745       83,256	Payments for contingent consideration liabilities	(263)	(61,483)	_
Payments of dividends         (34,022)         (28,891)         (23,236)           Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Distributions to non-controlling interests, net of contributions received	(6,357)	(5,404)	(2,526)
Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Payments related to tax withholding for share-based compensation	(64,956)	(25,447)	(16,144)
Repurchase of common stock         (66,687)         (247,249)         (20,092)           Net cash provided by (used in) financing activities         2,360,877         (601,365)         177,687           Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash         425         1,774         (153)           Net increase in cash, cash equivalents and restricted cash         45,079         17,063         86,489           Cash, cash equivalents and restricted cash, beginning of year         186,808         169,745         83,256	Payments of dividends	(34,022)	(28,891)	(23,236)
Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash.  Net increase in cash, cash equivalents and restricted cash.  Cash, cash equivalents and restricted cash, beginning of year.  186,808  169,745  1774  (153)  17,063  17,063  186,489  169,745			(247,249)	(20,092)
Net increase in cash, cash equivalents and restricted cash45,07917,06386,489Cash, cash equivalents and restricted cash, beginning of year186,808169,74583,256			(601,365)	177,687
Net increase in cash, cash equivalents and restricted cash45,07917,06386,489Cash, cash equivalents and restricted cash, beginning of year186,808169,74583,256				(153)
Cash, cash equivalents and restricted cash, beginning of year 186,808 169,745 83,256			· · · · · · · · · · · · · · · · · · ·	

# CONSOLIDATED STATEMENTS OF EQUITY (In thousands, except share information)

									Accumulated				
			Exchangeable	geable	Seri	Series G	Additional		Other		Total		
	Common Stock	Stock	Shares	sə.	Preferred Stock	d Stock	Paid-In	Retained	Comprehensive	Treasury	Stockholders'	Non-controlling	Total
	Shares	Amount	Shares	Amount	Shares	Amount	Capital	Earnings	Loss	Stock	Equity	Interests	Equity
Balance at December 31, 2018	141,103,900	\$ 2	486,112	-			\$ 1,967,354	\$ 2,477,291	\$ (286,048)	\$ (554,440)	\$ 3,604,159	\$ 1,294	\$ 3,605,453
Other comprehensive income									44,230	1	44,230		44,230
Acquisitions	098'09						1,791				1,791		1,791
Stock-based compensation activity	1,085,165						55,465			(20,379)	35,086		35,086
Exchange of exchangeable shares	449,929		(449,929)										
Retirement of preferred stock					(1)								
Common stock repurchases	(375,536)									(11,954)	(11,954)		(11,954)
Dividends declared (\$0.17 per share)								(25,064)			(25,064)		(25,064)
Distributions to non-controlling interests												(2,526)	(2,526)
Net income							1	402,044			402,044	4,771	406,815
Balance at December 31, 2019	142,324,318	2	36,183				2,024,610	2,854,271	(241,818)	(586,773)	4,050,292	3,539	4,053,831
Credit loss cumulative effect adjustment								(3,841)			(3,841)		(3,841)
Other comprehensive income								-	8,821	1	8,821		8,821
Acquisitions	1,338,746						57,289			l	57,289		57,289
Stock-based compensation activity	1,280,489						88,127			(21,095)	67,032		67,032
Exchange of exchangeable shares	36,183		(36,183)										
Common stock repurchases	(6,679,545)									(249,949)	(249,949)		(249,949)
Dividends declared (\$0.21 per share)								(30,543)			(30,543)		(30,543)
Distributions to non-controlling interests							1					(5,404)	(5,404)
Other							1	(516)			(516)	293	(223)
Net income							1	445,596			445,596	6,363	451,959
Balance at December 31, 2020	138,300,191	2					2,170,026	3,264,967	(232,997)	(857,817)	4,344,181	4,791	4,348,972
Other comprehensive loss									(4,692)	l	(4,692)		(4,692)
Acquisitions.	3,514,048						362,344				362,344		362,344
Stock-based compensation activity	1,540,259						83,040			(58,460)	24,580		24,580
Common stock repurchases	(720,564)									(63,988)	(63,988)		(63,988)
Dividends declared (\$0.25 per share)								(36,080)		l	(36,080)		(36,080)
Distributions to non-controlling interests										1		(6,357)	(6,357)
Other							I					159	159
Net income								485,956		-	485,956	6,027	491,983
Balance at December 31, 2021	142,633,934	\$ 2		-S		- -	\$ 2,615,410	\$ 3,714,843	\$ (237,689)	\$ (980,265)	\$ 5,112,301	\$ 4,620	\$ 5,116,921

### 1. BUSINESS AND ORGANIZATION:

Quanta Services, Inc., (together with its subsidiaries, Quanta), is a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the electric and gas utility, renewable energy, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets. Beginning with the three months ended December 31, 2021, Quanta reports its results under three reportable segments: (1) Electric Power Infrastructure Solutions, (2) Renewable Energy Infrastructure Solutions and (3) Underground Utility and Infrastructure Solutions. The Renewable Energy Infrastructure Solutions segment was added primarily due to the acquisition of Blattner Holding Company and its operating subsidiaries (collectively, Blattner) as described below. In conjunction with this change, certain prior period amounts have been recast to conform to this new segment reporting structure.

On October 13, 2021, Quanta completed the acquisition of Blattner. Blattner is a large and leading utility-scale renewable energy infrastructure solutions provider that is located and primarily operates in North America. For additional information regarding this acquisition, see Note 6. Blattner provides comprehensive solutions to customers in the renewable energy industry, which generally include front-end engineering, procurement, project management and construction services for wind, solar and energy storage projects. Blattner's results of operations have been included in Quanta's consolidated financial statements since the acquisition date.

# Electric Power Infrastructure Solutions Segment

The Electric Power Infrastructure Solutions segment provides comprehensive network solutions to customers in the electric power and other industries. Services include design, procurement, new construction, upgrade and repair and maintenance for electric power transmission and distribution infrastructure, both overhead and underground, and substation facilities, along with other engineering and technical services. This includes solutions that support the implementation of upgrades by utilities to modernize and harden the electric power grid in order to ensure its safety and enhance reliability. In addition, this segment provides emergency restoration services, including the repair of infrastructure damaged by fire and inclement weather; the energized installation, maintenance and upgrade of electric power infrastructure utilizing bare hand and hot stick methods and Quanta's robotic arm techniques; and the installation of "smart grid" technologies on electric power networks. This segment also provides comprehensive design and construction solutions to wireline and wireless communications companies, cable multi-system operators and other customers within the communications industry, including services in connection with 5G wireless deployment; and the design, installation, maintenance and repair services related to commercial and industrial wiring. Additionally, this segment provides aviation services primarily for the utility industry, including the transportation of line workers, the setting of poles and towers and the stringing of wires. The majority of the financial results of Quanta's postsecondary educational institution, which specializes in pre-apprenticeship training, apprenticeship training and specialized utility task training for electric workers, as well as training for the gas distribution and communications industries, are also included in the segment.

# Renewable Energy Infrastructure Solutions Segment

The Renewable Energy Infrastructure Solutions segment provides comprehensive infrastructure solutions to customers involved in the renewable energy industry. Services include engineering, procurement, new construction and repair and maintenance for renewable generation facilities, such as utility-scale wind, solar, and hydropower generation facilities and battery storage facilities, as well as engineering and construction services for substations and switchyards, transmission and other electrical infrastructure needed to interconnect and transmit renewable energy generation and battery storage facilities.

# Underground Utility and Infrastructure Solutions Segment

The Underground Utility and Infrastructure Solutions segment provides comprehensive infrastructure solutions for customers involved in the development, transportation, distribution, storage and processing of natural gas, oil and other products. Services include design, engineering, procurement, new construction, upgrade and repair and maintenance for natural gas systems for gas utility customers, as well as pipeline protection, integrity testing, rehabilitation and replacement services. Quanta also provides catalyst replacement services, high-pressure and critical-path turnaround services, instrumentation and electrical services, piping, fabrication and storage tank services for the midstream and downstream industrial energy markets. This segment also provides engineering and construction services for pipeline systems, storage systems and compressor and pump stations and the fabrication of pipeline support systems and related structures and facilities, as well as trenching, directional boring and mechanized welding services related to the services described above and in connection with our electric power infrastructure services. This segment also provides engineering, construction and maintenance services for energy transition and carbon-reduction related projects, such as alternative fuel facilities, carbon capture systems and hydrogen facilities.

### 2. BASIS OF PRESENTATION AND CERTAIN ACCOUNTING POLICIES:

### Principles of Consolidation

The consolidated financial statements of Quanta include the accounts of Quanta Services, Inc. and its wholly-owned subsidiaries, which are also referred to as its operating companies. The consolidated financial statements also include the accounts of certain of Quanta's investments in joint ventures, which are either consolidated or proportionately consolidated, as discussed in the following summary of significant accounting policies. Investments in affiliated entities in which Quanta does not have a controlling financial interest, but over which Quanta has significant influence, usually because Quanta holds a voting interest of between 20% and 50% in the affiliated entity, are accounted for using the equity method. Unless the context requires otherwise, references to Quanta include Quanta Services, Inc. and its consolidated subsidiaries.

# Use of Estimates and Assumptions

The preparation of financial statements in conformity with GAAP requires the use of estimates and assumptions by management in determining the reported amounts of assets and liabilities, disclosures of contingent assets and liabilities known to exist as of the date the financial statements are published, and the reported amounts of revenues and expenses recognized during the periods presented. Quanta reviews all significant estimates affecting its consolidated financial statements on a recurring basis and records the effect of any necessary adjustments prior to their publication. Judgments and estimates are based on Quanta's beliefs and assumptions derived from information available at the time such judgments and estimates are made. Uncertainties with respect to such estimates and assumptions are inherent in the preparation of financial statements. Estimates are primarily used in Quanta's assessment of revenue recognition for construction contracts, including contractual change orders and claims; allowance for credit losses; valuation of inventory; useful lives of assets; fair value assumptions in analyzing goodwill, other intangibles and long-lived asset impairments; equity and other investments; purchase price allocations; acquisition-related contingent consideration liabilities; multiemployer pension plan withdrawal liabilities; contingent liabilities associated with, among other things, legal proceedings and claims, parent guarantees and indemnity obligations; estimated insurance claim recoveries; stock-based compensation; operating results of reportable segments; provision for income taxes; and uncertain tax positions.

# Revenue Recognition

See Note 4 for Quanta's accounting policy related to revenue recognition and related balance sheet accounts.

### **Inventories**

Inventories consist primarily of parts and supplies held for use in the ordinary course of business, which are valued by Quanta at the lower of cost or net realizable value. Cost is determined by using either the first-in, first-out (FIFO) method or the average costing method. Inventories also include certain job specific materials not yet installed, which are valued using the specific identification method.

# Property and Equipment

Property and equipment are stated at cost, and depreciation is computed using the straight-line method, net of estimated salvage values, over the estimated useful lives of the assets. Leasehold improvements are capitalized and amortized over the lesser of the life of the lease or the estimated useful life of the asset. Depreciation expense related to property and equipment is recognized on a straight-line basis over the estimated useful lives of the assets.

Expenditures for repairs and maintenance are charged to expense when incurred. Expenditures for major renewals and betterments, which extend the useful lives of existing equipment, are capitalized and depreciated over the adjusted remaining useful lives of the assets. Upon retirement or disposition of property and equipment, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is reflected in selling, general and administrative expenses.

Management reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount may not be realizable. When an evaluation is required, the estimated future undiscounted cash flows associated with the asset group are compared to the asset group's carrying amount to determine if an impairment is necessary. The effect of any impairment involves expensing the difference between the fair value of the asset group and its carrying amount in the period incurred.

# Goodwill

Goodwill, net of accumulated impairment losses, represents the excess of cost over the fair market value of net tangible and identifiable intangible assets of acquired businesses and is stated at cost. Quanta has recorded goodwill in connection with

certain of its historical acquisitions of businesses. Upon acquisition, these businesses were either combined into one of Quanta's existing operating companies or managed on a stand-alone basis as an individual operating company. Quanta has organized its individual operating companies into segments for goodwill disclosure purposes. Goodwill is required to be measured for impairment at the reporting unit level, which represents the operating segment level or one level below the operating segment level for which discrete financial information is available. Quanta has determined that its individual operating companies represent its reporting units for the purpose of assessing goodwill impairment.

Goodwill is not amortized but is tested for impairment annually in the fourth quarter of the fiscal year, or more frequently if events or circumstances arise which indicate that goodwill may be impaired. The assessment can be performed by first completing a qualitative assessment on none, some, or all of Quanta's reporting units. Quanta can also bypass the qualitative assessment for any reporting unit in any period and proceed directly to a quantitative impairment test, and then resume the qualitative assessment in any subsequent period. Qualitative indicators that may trigger the need for annual or interim quantitative impairment testing include, among other things, deterioration in macroeconomic conditions; declining financial performance; deterioration in the operational environment; an expectation of selling or disposing of a portion of a reporting unit; a significant change in market, management, business strategy or business climate; a loss of a significant customer; increased competition; a sustained decrease in share price; or a decrease in Quanta's market capitalization below book value.

If Quanta believes that, as a result of its qualitative assessment, it is more likely than not that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test is required. The quantitative test involves comparing the fair value of such reporting unit with its carrying amount, including goodwill. If the carrying amount of a reporting unit exceeds its fair value, an impairment loss is recorded as a reduction to goodwill with a corresponding charge to "Asset impairment charges" in the consolidated statements of operations. The income tax effect associated with an impairment of tax-deductible goodwill is also considered in the measurement of the goodwill impairment. A goodwill impairment for any reporting unit is limited to the total amount of goodwill allocated to such reporting unit.

Quanta generally determines the fair value of its reporting units using a weighted combination of the income approach (discounted cash flow method) and market multiple valuation techniques (market guideline transaction method and market guideline public company method), with greater weight placed on the discounted cash flow method because management believes this method results in the most appropriate calculation of fair value and reflects an expectation of market value as determined by a "held and used" model.

Under the discounted cash flow method, Quanta determines fair value based on the estimated future cash flows for each reporting unit, discounted to present value using a risk-adjusted industry weighted average cost of capital, which reflects the overall level of inherent risk for each reporting unit and the rate of return an outside investor would expect to earn. Cash flow projections are derived from budgeted amounts (typically a one-year model) and subsequent period cash flows are developed for each reporting unit using growth rates that management believes are reasonably likely to occur. A terminal value is derived from a multiple of the reporting unit's earnings before interest, taxes, depreciation and amortization (EBITDA). The EBITDA multiples for each reporting unit are based on observed purchase transactions for similar businesses adjusted for size, volatility and risk.

Under the market guideline transaction and market guideline public company methods, Quanta determines the estimated fair value for each of its reporting units by applying transaction multiples and public company multiples, respectively, to each reporting unit's projected and historical EBITDA average. The transaction multiples are based on observed purchase transactions for similar businesses adjusted for size, volatility and risk. The public company multiples are based on peer group multiples adjusted for size, volatility and risk. For the market guideline public company method, Quanta adds a reasonable control premium, which is estimated as the premium that would be appropriate to convert the reporting unit value to a controlling interest basis.

# Other Intangible Assets

Quanta's intangible assets include customer relationships; backlog; trade names; non-compete agreements; patented rights, developed technology, and process certifications; and curriculum, all of which are subject to amortization, as well as an engineering license, which is not subject to amortization. The fair value of customer relationships is estimated as of the date a business is acquired based on the value-in-use concept utilizing the income approach, specifically the multi-period excess earnings method. This method discounts to present value the projected cash flows attributable to the customer relationships, with consideration given to customer contract renewals and estimated customer attrition rates.

Quanta values backlog for acquired businesses as of the acquisition date based upon the contractual nature of the backlog within each service line, discounted to present value. The values of trade names and curriculum are estimated using the relief-from-royalty method of the income approach, which is based on the assumption that in lieu of ownership, a company would be willing to pay a royalty for use of the trade name or curriculum. The value of a non-compete agreement is estimated based on the difference between the present value of the prospective cash flows with the agreement in place and the present value of the

prospective cash flows without the agreement in place. The value of the engineering license is based on cash paid to acquire the asset.

Quanta amortizes the intangible assets that are subject to amortization based upon the estimated consumption of their economic benefits, or on a straight-line basis if the pattern of economic benefit cannot otherwise be reliably estimated. Intangible assets are reviewed for impairment and tested for recoverability whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. For instance, a significant change in business climate or a loss of a significant customer, among other things, may trigger the need for impairment testing of intangible assets. An impairment loss is recognized if the carrying amount of an intangible asset is not recoverable and its carrying amount exceeds its fair value.

### Leases

Lease liabilities are recognized as the present value of the future minimum lease payments over the lease term as of the commencement date. Lease assets are recognized as the present value of future minimum lease payments over the lease term as of the commencement date, plus any initial direct costs incurred and lease payments made, less any lease incentives received.

Quanta determines if an arrangement contains a lease at inception. If an arrangement is considered a lease, Quanta determines at the commencement date whether the lease is an operating or finance lease. Finance leases are leases that meet any of the following criteria: the lease transfers ownership of the underlying asset at the end of the lease term; the lessee is reasonably certain to exercise an option to purchase the underlying asset; the lease term is for the major part of the remaining economic life of the underlying asset (except when the commencement date falls at or near the end of such economic life); the present value of the sum of the lease payments and any additional residual value guarantee by the lessee equals or exceeds substantially all of the fair value of the underlying asset; or the underlying asset is of such a specialized nature that it is expected to have no alternative use to the lessor at the end of the lease term. A lease that does not meet any of these criteria is considered an operating lease. After the commencement date, lease cost for an operating lease is recognized over the remaining lease term on a straight-line basis, while lease cost for a finance lease is based on the depreciation of the lease asset and interest on the lease liability.

The terms of Quanta's lease arrangements vary, and certain leases include one or more of the following: renewal option(s), a cancellation option, a residual value guarantee, a purchase option or an escalation clause. An option to extend or terminate a lease is accounted for when assessing a lease term when it is reasonably certain that Quanta will exercise such option. Quanta has made a policy election to classify leases with an initial lease term of 12 months or less as short-term leases, and these leases are not recorded in the accompanying consolidated balance sheets unless the lease contains a purchase option that is reasonably certain to be exercised. Lease cost related to short-term leases is recognized on a straight-line basis over the lease term.

Determinations with respect to lease term (including any extension thereof), discount rate, variable lease cost and future minimum lease payments require the use of judgment based on the facts and circumstances related to each lease. Quanta considers various factors, including economic incentives and penalties and business need, to determine the likelihood that a renewal option will be exercised. Unless a renewal option is reasonably certain to be exercised, which is typically at Quanta's sole discretion, the initial non-cancelable lease term is used. Quanta generally uses its incremental borrowing rates to determine the present value of future minimum lease payments.

# Investments in Affiliates and Other

In the normal course of business, Quanta enters into various types of investment arrangements, each having unique terms and conditions. These investments may include equity interests held by Quanta in business entities, including general or limited partnerships, contractual joint ventures, or other forms of equity or profit participation. These investments may also include Quanta's participation in different financing structures, such as the extension of loans to project-specific entities, the acquisition of convertible notes issued by project specific entities, or other strategic financing arrangements. Quanta also enters into strategic partnerships with customers and infrastructure investors to provide fully integrated infrastructure solutions on certain projects, including planning and feasibility analyses, engineering, design, procurement, construction and project operation and maintenance. These projects include public-private partnerships and concessions, along with private infrastructure projects such as build, own, operate (and in some cases transfer) and build-to-suit arrangements.

Quanta determines whether investments involve a variable interest entity (VIE) based on the characteristics of the subject entity. If the entity is determined to be a VIE, then management determines if Quanta is the primary beneficiary of the entity and whether or not consolidation of the VIE is required. The primary beneficiary consolidating the VIE must normally have both (i) the power to direct the activities that most significantly affect the VIE's economic performance and (ii) the obligation to absorb significant losses of, or the right to receive significant benefits from, the VIE. When Quanta is deemed to be the primary beneficiary, the VIE is consolidated and the other party's equity interest in the VIE is accounted for as a non-controlling interest. In cases where Quanta determines that it has an undivided interest in the assets, liabilities, revenues and profits of an

unincorporated VIE (e.g., a general partnership interest), such amounts are consolidated on a basis proportional to Quanta's ownership interest in the unincorporated entity.

Investments in entities of which Quanta is not the primary beneficiary, but over which Quanta has the ability to exercise significant influence, are accounted for using the equity method of accounting. Equity method investments are carried at original cost adjusted for Quanta's proportionate share of the investees' income, losses and distributions. Quanta's share of net income or losses of these investments is included within operating income in the accompanying consolidated statements of operations when the investee is operationally integral to the operations of Quanta and is reported as "Equity in earnings (losses) of integral unconsolidated affiliates." Quanta's share of net income or losses of unconsolidated equity method investments that are not operationally integral to the operations of Quanta are included in "Other income, net" below operating income in the accompanying consolidated statements of operations.

Equity method investments are reviewed for impairment by assessing whether there has been a decline in the fair value of the investment below the carrying amount and whether any such decline is other-than-temporary. In making this determination, factors such as the ability to recover the carrying amount of the investment and the inability of the investee to sustain its earnings capacity are evaluated in determining whether a loss in value should be recognized. Any impairment losses are included in "Other income, net" in the accompanying consolidated statement of operations.

Investments in entities of which Quanta is not the primary beneficiary, and over which Quanta does not have the ability to exercise significant influence are accounted for using the cost method of accounting. Additionally, certain investments provide for significant influence over the investee, but also include preferential liquidation rights, which precludes accounting for the investments under the equity method. These cost method investments are required to be measured at fair value, with changes in fair value recognized in net income, unless the investments do not have readily determinable fair values, in which case the investments are measured at cost minus impairment (if any), plus or minus observable price changes in orderly transactions for an identical or similar investment in the same company. Earnings on investments accounted for using the cost method of accounting are recognized as dividends are declared. These earnings and any impairments of cost method investments are reported in "Other income, net" in the accompanying consolidated statements of operations.

### Income Taxes

Quanta follows the liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are recorded based on future tax consequences of temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that are expected to be in effect when the underlying assets or liabilities are recovered or settled.

Quanta regularly evaluates valuation allowances established for deferred tax assets for which future realization is uncertain, including in connection with changes in tax laws. The estimation of required valuation allowances includes estimates of future taxable income. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Quanta considers projected future taxable income and tax planning strategies in making this assessment. If actual future taxable income differs from these estimates, Quanta may not realize deferred tax assets to the extent estimated.

Quanta records reserves for income taxes related to certain tax positions when management considers it more likely than not that additional taxes may be due in excess of amounts reflected on income tax returns filed. When recording these reserves, Quanta assumes that taxing authorities have full knowledge of the position and all relevant facts. Quanta continually reviews exposure to additional tax obligations, and as further information is known or events occur, changes in tax reserves may be recorded. Quanta adjusts its tax contingencies accrual and income tax provision in the period in which matters are effectively settled with tax authorities at amounts different from our established accrual, when the statute of limitations expires for the relevant taxing authority to examine the tax position or when more information becomes available. To the extent interest and penalties may be assessed by taxing authorities on any underpayment of income tax, such amounts have been accrued and included in the provision for income taxes.

U.S. federal and state and foreign income tax laws and regulations are voluminous and often ambiguous. As such, Quanta is required to make many subjective assumptions and judgments regarding its tax positions that could materially affect amounts recognized in future consolidated balance sheets, statements of operations and statements of comprehensive income.

# Earnings Per Share

Basic and diluted earnings per share attributable to common stock are computed using the weighted average number of shares of common stock outstanding during the applicable period. Additionally, unvested stock-based awards that contain non-forfeitable rights to dividends or dividend equivalents (participating securities) have been included in the calculation of basic and diluted earnings per share attributable to common stock for the portion of the periods that the awards were outstanding. Diluted earnings per share attributable to common stock is computed using the weighted average number of shares of common

stock outstanding during the period adjusted for all potentially dilutive common stock equivalents, except in cases where the effect of the common stock equivalents would be antidilutive.

# Insurance

Quanta is insured for, among other things, employer's liability, workers' compensation, auto liability, aviation and general liability claims. Quanta manages and maintains a portion of its casualty risk indirectly through its wholly-owned captive insurance company, which reimburses claims up to the amount of the applicable deductible amount of its third-party insurance programs. In connection with Quanta's casualty insurance programs, Quanta is required to issue letters of credit to secure its obligations. Deductibles for the employer's liability and workers' compensation programs are \$5.0 million per occurrence, and deductibles for the auto liability and general liability programs are \$15.0 million per occurrence. Quanta also maintains employee health care benefit plans for most employees not subject to collective bargaining agreements, of which the primary plan is subject to a deductible of \$0.8 million per claimant per year.

Losses under all of these insurance programs are accrued based upon Quanta's estimate of the ultimate liability for claims reported and an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of Quanta's liability in proportion to other parties and the number of incidents not reported. The accruals are based upon known facts and historical trends, and management believes such accruals are adequate.

# Collective Bargaining Agreements and Multiemployer Pension Plans

Certain of Quanta's operating companies are parties to collective bargaining agreements with unions that represent certain of their employees. The collective bargaining agreements expire at various times and have typically been renegotiated and renewed on terms similar to those in the expiring agreements. The agreements require the operating companies to pay specified wages, provide certain benefits to union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts pursuant to specified rates. Quanta's multiemployer pension plan contribution rates generally are made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. The location and number of union employees that Quanta employs at any given time and the plans in which they may participate vary depending on Quanta's need for union resources in connection with its ongoing projects. Therefore, Quanta is unable to accurately predict its union employee payroll and the resulting multiemployer pension plan contribution obligations for future periods.

### Stock-Based Compensation

Quanta recognizes compensation expense for restricted stock units (RSUs) and performance stock units (PSUs) to be settled in common stock based on the fair value of the awards, net of estimated forfeitures. The fair value of RSU awards is determined based on the number of units granted and the closing price of Quanta's common stock on the date of grant. The grant date fair value of the PSUs is determined as follows: (i) for the portion of the awards based on company performance metrics, by multiplying the number of units granted by the closing price of Quanta's common stock on the date of grant and (ii) for the portion of the awards based on relative total shareholder return compared to a defined peer group, by utilizing a Monte Carlo simulation valuation methodology. An estimate of future forfeitures, based on historical data, is also utilized to determine compensation expense for the period, and these forfeiture estimates are subject to change and may impact the value that will ultimately be recognized as compensation expense. The resulting compensation expense for PSU and time-based RSU awards is recognized on a straight-line basis over the requisite service period, which is generally the vesting period, and the resulting compensation expense for performance-based RSU awards is recognized using the graded vesting method over the requisite service period. The compensation expense related to outstanding PSUs can also vary from period to period based on changes in forecasted achievement of established performance goals and the total number of shares of common stock that Quanta anticipates will be issued upon vesting of such PSUs. Payments made by Quanta to satisfy employee tax withholding obligations associated with awards settled in common stock are classified as financing cash flows.

Compensation expense associated with liability-based awards, such as RSUs that are expected to or may settle in cash, is recognized based on a remeasurement of the fair value of the award at the end of each reporting period. Upon settlement, the holders receive for each RSU an amount in cash equal to the fair market value of one share of Quanta common stock on the settlement date, as specified in the applicable award agreement. For additional information on Quanta's RSU and PSU awards, see Note 14.

# Functional Currency and Translation of Financial Statements

The U.S. dollar is the functional currency for the majority of Quanta's operations, which are primarily located within the United States. The functional currency for Quanta's foreign operations, which are primarily located in Canada and Australia, is typically the currency of the country where the foreign operating company is located and transacts the majority of its activities, including billings, financing, payroll and other expenditures. When preparing its consolidated financial statements, Quanta translates the financial statements of its foreign operating companies from their functional currency into U.S. dollars.

Statements of operations, comprehensive income and cash flows are translated at average monthly rates, while balance sheets are translated at month-end exchange rates. The translation of the balance sheet results in translation gains or losses that are included as a separate component of equity under "Accumulated other comprehensive income (loss)." Gains and losses arising from transactions not denominated in functional currencies are included within "Other income, net" in the accompanying consolidated statements of operations.

# Comprehensive Income

Components of comprehensive income include all changes in equity during a period, except those resulting from changes in Quanta's capital-related accounts. Quanta records other comprehensive income (loss) for foreign currency translation adjustments related to its foreign operations and for other revenues, expenses, gains and losses that are included in comprehensive income but excluded from net income.

# Litigation Costs and Reserves

Quanta records reserves when the likelihood of incurring a loss is probable and the amount of loss can be reasonably estimated. Costs incurred for litigation are expensed as incurred. See Note 16 for additional information related to legal proceedings and other contingencies.

### 3. NEW ACCOUNTING PRONOUNCEMENTS:

# Adoption of New Accounting Pronouncements

In December 2019, the Financial Accounting Standards Board (FASB) issued an update that, among other things, amends the guidance related to accounting for tax law changes when an entity has a year-to-date loss in an interim period and provides guidance on how to evaluate whether a step-up in tax basis of goodwill relates to a business combination or a separate transaction. This update is effective for interim and annual periods beginning after December 15, 2020, with certain amendments applied prospectively and other amendments applied on a modified retrospective basis. Quanta adopted this update effective January 1, 2021, and it has not had a material impact on Quanta's consolidated financial statements during 2021.

In January 2020, FASB issued an update that clarified the applicable guidance for measurement of the fair value of equity and cost method investments when there is a change in the level of ownership or degree of influence. Quanta adopted this update effective January 1, 2021 and will prospectively apply this update.

# New Accounting Pronouncement Not Yet Adopted

In October 2021, FASB issued an update that requires an entity to recognize and measure contract assets and contract liabilities acquired in a business combination in accordance with FASB ASC 606 (Revenue from Contracts with Customers). At the acquisition date, an acquirer should account for the related contract revenue in accordance with FASB ASC 606 as if it had originated the contracts. This update is effective for interim and annual periods beginning after December 15, 2022, with amendments generally applied prospectively. Quanta will adopt this update by January 1, 2023. This update is not expected to have a material impact at the time of adoption, but it could impact the valuation of contract assets and contract liabilities related to business combinations that occur subsequent to adoption.

# 4. REVENUE RECOGNITION AND RELATED BALANCE SHEET ACCOUNTS:

### **Contracts**

Quanta's services include the design, new construction, upgrade and repair and maintenance of infrastructure primarily in the utility, renewable energy, communications and pipeline and energy industries. These services may be provided pursuant to master service agreements (MSAs), repair and maintenance contracts and fixed price and non-fixed price construction contracts. These contracts are classified into three categories based on the methods by which transaction prices are determined and revenue is recognized: unit-price contracts, cost-plus contracts and fixed price contracts. Transaction prices for unit-price contracts are determined on a per unit basis, transaction prices for cost-plus contracts are determined by applying a profit margin to costs incurred on the contracts and transaction prices for fixed price contracts are determined on a lump-sum basis. All of Quanta's revenues are recognized from contracts with its customers. In addition to the considerations described below, revenue is not recognized unless collectability under the contract is considered probable, the contract has commercial substance and the contract has been approved. Additionally, the contract must contain payment terms, as well as the rights and commitments of both parties.

# **Performance Obligations**

A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. Most of Quanta's contracts are considered to have a single performance obligation whereby Quanta is required to integrate complex activities and equipment into a deliverable for a customer. For contracts with multiple performance obligations, Quanta allocates a portion of the total transaction price to each performance obligation using its best estimate of the standalone selling price of the distinct good or service associated with each performance obligation. Standalone selling price is estimated using the expected costs plus a margin.

At December 31, 2021 and 2020, the aggregate transaction price allocated to unsatisfied or partially satisfied performance obligations was approximately \$5.90 billion and \$3.99 billion, with 81.8% and 71.2% expected to be recognized in the subsequent twelve months. These amounts represent management's estimates of the consolidated revenues that are expected to be realized from the remaining portion of firm orders under fixed price contracts not yet completed or for which work had not yet begun as of such dates. For purposes of calculating remaining performance obligations, Quanta includes all estimated revenues attributable to consolidated joint ventures and variable interest entities, revenues from funded and unfunded portions of government contracts to the extent they are reasonably expected to be realized and revenues from change orders and claims to the extent management believes additional contract revenues will be earned and are deemed probable of collection. Excluded from remaining performance obligations are potential orders under MSAs and non-fixed price contracts expected to be completed within one year.

# Recognition of Revenue Upon Satisfaction of Performance Obligations

A transaction price is determined for each contract, and that amount is allocated to each performance obligation within the contract and recognized as revenue when, or as, the performance obligation is satisfied. Quanta recognizes certain revenue over time as it performs its obligations because there is a continuous transfer of control of the deliverable to the customer. Under unit-price contracts with an insignificant amount of partially completed units, Quanta recognizes revenue as units are completed based on contractual pricing amounts. Under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, Quanta recognizes revenues as performance obligations are satisfied over time, with the percentage completion generally measured as the percentage of costs incurred to total estimated costs for such performance obligation. Under cost-plus contracts, Quanta recognizes revenue on an input basis, as labor hours are incurred, materials are utilized and services are performed.

Under contracts where Quanta has a right to consideration in an amount that directly corresponds to the value of completed performance, Quanta recognizes revenue in such amount and does not include such performance as a remaining performance obligation. Also, contract consideration is not adjusted for a significant financing component if payment is expected to be collected less than one year from when the services are performed.

Contract costs include all direct materials, labor and subcontract costs and indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs and depreciation costs. The majority of the materials associated with Quanta's work are owner-furnished, and therefore not included in contract revenues and costs. Additionally, Quanta may incur incremental costs to obtain certain contracts, such as selling and marketing costs, bid and proposal costs, sales commissions, and legal fees or initial set-up or mobilization costs, certain of which can be capitalized. Such costs were not material during the years ended December 31, 2021, 2020 and 2019.

### **Contract Estimates**

Actual revenues and project costs can vary, sometimes substantially, from previous estimates due to changes in a variety of factors, including unforeseen or changed circumstances not included in Quanta's cost estimates or covered by its contracts. The estimating process is based on the professional knowledge and experience of Quanta's project estimators, project managers and finance professionals. Some of the factors that can result in positive changes in estimates on projects include successful execution through project risks, reduction of estimated project costs or increases of estimated revenues. Some of the factors that can result in negative changes in estimates include concealed or unknown site conditions; changes to or disputes with customers regarding the scope of services; changes in estimates related to the length of time to complete a performance obligation; changes or delays with respect to permitting and regulatory requirements; changes in the cost of equipment, commodities, materials or skilled labor; unanticipated costs or claims due to delays or failure to perform by customers or third parties; customer failure to provide required materials or equipment; errors in engineering, specifications or designs; project modifications; adverse weather conditions, natural disasters, and other emergencies (including the ongoing COVID-19 pandemic); and performance and quality issues causing delay (including payment of liquidated damages) or requiring rework or replacement. These factors, along with other risks inherent in performing services under fixed price contracts, are routinely evaluated by management. Any changes in estimates could result in changes to profitability or losses associated with the related performance obligations. For example, estimated costs for a performance obligation may increase from an original estimate, and contractual provisions may not allow for adequate compensation or reimbursement for such additional costs. Changes in

estimated revenues, costs and profit are recorded in the period they are determined to be probable and can be reasonably estimated. Contract losses are recognized in full when they are determined to be probable and can be reasonably estimated.

Changes in cost estimates on certain contracts may result in the issuance of change orders, which can be approved or unapproved by the customer, or the assertion of contract claims. Quanta determines the probability that costs associated with change orders and claims will be recovered based on, among other things, contractual entitlement, past practices with the customer, specific discussions or preliminary negotiations with the customer and verbal approvals by the customer. Quanta recognizes amounts associated with change orders and claims as revenue if it is probable that the contract price will be adjusted and the amount of any such adjustment can be reliably estimated. Most of Quanta's change orders are for services that are not distinct from an existing contract and are accounted for as part of an existing contract on a cumulative catch-up basis. Quanta accounts for a change order as a separate contract if the additional goods or services are distinct from and increase the scope of the contract, and the price of the contract increases by an amount commensurate to Quanta's standalone selling price for the additional goods or services.

As of December 31, 2021 and 2020, Quanta had recognized revenues of \$367.8 million and \$141.2 million related to change orders and claims included as contract price adjustments that were in the process of being negotiated in the normal course of business. The largest component of the revenues recognized is associated with change orders and claims arising from delays, administrative requirements and labor issues on two transmission projects in Canada that negatively impacted productivity, which were primarily attributable to the COIVD-19 pandemic. The productivity and delays were significantly impacted due to governmental requirements and worksite restrictions associated with COVID-19. Additionally, during the third quarter of 2021, both of the projects were negatively impacted by unrelated wildfires, and one was also impacted by acceleration of the project timeline, all of which resulted in change orders. Quanta believes that the contracts for these projects entitle it to recover certain amounts associated with these delays. The aggregate amounts related to change orders and claims, which are included in "Contract assets" in the accompanying consolidated balance sheets, represent management's estimates of additional contract revenues that have been earned and are probable of collection. However, Quanta's estimates could change, and the amount ultimately realized could be significantly higher or lower than the estimated amount.

Variable consideration amounts, including performance incentives, early pay discounts and penalties, may also cause changes in contract estimates. The amount of variable consideration is estimated based on the most likely amount that is deemed probable of realization. Contract consideration is adjusted for variable consideration when it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur once the uncertainty related to the variable consideration is resolved.

Changes in estimated revenues, costs and profit are recognized on a cumulative catch-up basis and recorded in the period they are determined to be probable and can be reasonably estimated. Such changes in estimates can result in the recognition of revenue in a current period for performance obligations that were satisfied or partially satisfied in prior periods or the reversal of previously recognized revenue if the currently estimated revenue is less than the previous estimate. The impact of a change in contract estimate is measured as the difference between the revenue or gross profit recognized in the prior period as compared to the revenue or gross profit which would have been recognized had the revised estimate been used as the basis of recognition in the prior period. Changes in estimates can also result in contract losses, which are recognized in full when they are determined to be probable and can be reasonably estimated.

# Changes in Estimates

Revenues were positively impacted by \$130.2 million, \$27.0 million and \$60.2 million during the years ended December 31, 2021, 2020 and 2019 as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to December 31, 2020, 2019 and 2018.

Operating results for the year ended December 31, 2021, were favorably impacted by \$111.5 million or 5.7% of gross profit as a result of aggregate changes in contract estimates related to projects that were in progress as of year ended December 31, 2020. The overall favorable impact resulted from net positive changes in estimates across a large number of projects, primarily as a result of favorable performance and successful mitigation of risks and contingencies as the projects progressed to completion.

Operating results for the years ended December 31, 2020 and 2019 were impacted by less than 5% as a result of aggregate changes in contract estimates related to projects that were in progress as of the corresponding prior year end. However, certain individual projects were materially impacted by changes to estimated contract revenues and/or project costs during these periods.

During the year ended December 31, 2020, revenues and gross profit were favorably impacted by \$20.8 million as a result of successful execution through project risks and close-out activities on a large transmission project in the United States. Revenues and gross profit were also favorably impacted as a result of successful execution through project risks and close-out

activities on certain larger pipeline projects in the United States. The favorable impact related to these larger pipeline projects was offset by increased costs on two larger pipeline projects in Canada that experienced severe weather conditions during the year ended December 31, 2020, both of which were substantially complete as of December 31, 2020. With respect to all of these large pipeline projects, the aggregate net negative impact on gross profit related to work performed in prior periods was \$10.0 million during the year ended December 31, 2020.

Additionally, during the year ended December 31, 2020, Quanta was in the process of exiting its Latin American operations. These operations have been adversely impacted by the COVID-19 pandemic due to shelter-in-place restrictions and other work disruptions, and as a result Quanta accelerated various contract terminations and other activities in order to expedite cessation of operations in the region. The decision to accelerate these exit activities materially changed certain contract estimates as of December 31, 2019 due to significant reductions in the volume of work to be performed, as well as lower productivity than expected. The majority of the impacts of these developments were not recoverable from the customers. These factors, as well as political and regulatory uncertainties and other customer challenges, resulted in changes in estimates on several projects and negatively impacted gross profit related to work performed in prior periods by \$35.5 million in aggregate during year ended December 31, 2020. As of December 31, 2020, substantially all of the projects in Latin America that were active at the beginning of 2020 had been completed.

During the year ended December 31, 2019, Quanta successfully completed an electric transmission project in Canada ahead of schedule during the three months ended March 31, 2019, which resulted in a reduction in estimated project costs and positively impacted gross profit related to work performed in prior periods by \$30.1 million. Quanta also successfully executed through project risks on a larger pipeline transmission project, which resulted in a reduction of estimated project costs and positively impacted gross profit in 2019 related to work performed in prior periods by \$22.9 million. Quanta also settled claims related to a larger natural gas transmission project that experienced losses in 2018, which increased revenues and gross profit in 2019 related to work performed in prior periods by \$16.2 million. Additionally, Quanta experienced rework and start-up delays on a processing facility construction project, which resulted in additional estimated project costs and liquidated damages payable to the customer and negatively impacted gross profit related to work performed in prior periods by \$29.4 million. As of December 31, 2021, this project was complete. Quanta also experienced unfavorable weather and labor-related impacts, as well as a project scope reduction, on an electric transmission project in southern California, which resulted in an increase in estimated project costs and a reduction in expected project earnings. These changes negatively impacted gross profit related to work performed in prior periods by \$21.1 million. As of December 31, 2021, this project was approximately 99% complete. Additionally, the changes in contract estimates include the negative impact of the correction of \$9.6 million of prior period errors related to the determination of total estimated project costs and the resulting revenue recognized on a large telecommunications project in Peru that was terminated during 2019.

# Revenues by Category

The following tables present Quanta's revenue disaggregated by geographic location, as determined by the job location, and by contract type (in thousands):

				ear Ended Dece	mber 31,		
	2021			2020		2019	
By primary geographic location:							
United States	\$ 11,068,493	85.3 %	\$	9,618,951	85.8 %	\$ 10,190,684	84.0 %
Canada	1,557,117	12.0 %		1,252,365	11.2 %	1,436,720	11.9 %
Australia	221,038	1.7 %		200,664	1.8 %	187,915	1.6 %
Others	133,565	1.0 %		130,692	1.2 %	296,834	2.5 %
Total revenues	\$ 12,980,213	100.0 %	\$	11,202,672	100.0 %	\$ 12,112,153	100.0 %
			,	Year Ended Dece	mber 31,		
	2021			2020		2019	
By contract type:							
Unit-price contracts	\$ 5,029,100	38.7 %	\$	4,172,363	37.2 %	\$ 4,193,295	34.6 %
Cost-plus contracts	3,102,075	23.9 %		2,649,770	23.7 %	3,304,161	27.3 %
Fixed price contracts	4,849,038	37.4 %		4,380,539	39.1 %	4,614,697	38.1 %
Total revenues	\$ 12,980,213	100.0 %	\$	11,202,672	100.0 %	\$ 12,112,153	100.0 %

As described above, under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, revenue is recognized as performance obligations are satisfied over time, with the percentage completion generally measured as the percentage of costs incurred to total estimated costs for such performance obligation. Approximately 45.9%, 47.9% and 50.0% of Quanta's revenues recognized during the years ended December 31, 2021, 2020 and 2019 were associated with this revenue recognition method.

### Contract Assets and Liabilities

With respect to Quanta's contracts, interim payments are typically received as work progresses in accordance with agreed-upon contractual terms, either at periodic intervals or upon achievement of contractual milestones. As a result, under fixed price contracts, the timing of revenue recognition and contract billings results in contract assets and contract liabilities. Contract assets represent revenues recognized in excess of amounts billed for fixed price contracts and are current assets that are transferred to accounts receivable when billed or the billing rights become unconditional. Contract assets are not considered a significant financing component as they are intended to protect the customer in the event Quanta does not perform on its obligations under the contract.

Conversely, contract liabilities represent billings in excess of revenues recognized for fixed price contracts. These arise under certain contracts that allow for upfront payments from the customer or contain contractual billing milestones, which result in billings that exceed the amount of revenues recognized for certain periods. Contract liabilities are current liabilities and are not considered to have a significant financing component, as they are used to meet working capital requirements that are generally higher in the early stages of a contract and are intended to protect Quanta from the other party failing to meet its obligations under the contract. Contract assets and liabilities are recorded on a performance obligation basis at the end of each reporting period.

Contract assets and liabilities consisted of the following (in thousands):

	Decem	ber 31, 2021	Dece	mber 31, 2020	December 31, 2019		
Contract assets	\$	803,453	\$	453,832	\$	601,268	
Contract liabilities	\$	802,872	\$	528.864	\$	606,146	

As referenced previously, contract assets and liabilities fluctuate period to period based on various factors, including, among others, changes in the number and size of projects in progress at period end; variability in billing and payment terms, such as up-front or advance billings, interim or milestone billings, deferred billings; and unapproved change orders and contract claims recognized in revenues. The increase in contract assets from December 31, 2020 to December 31, 2021 was primarily due to increased working capital requirements related to progress on two large transmission projects in Canada and the timing

of billings, as well as the recognition of certain change orders and claims for such projects. Both of the projects were negatively impacted by delays and labor issues related to the COVID-19 pandemic and unrelated wildfires, and one project was also impacted by acceleration of the project timeline, all of which resulted in change orders and an increase in contract assets. The decrease in contract assets from December 31, 2019 to December 31, 2020 was partially due to a decline in revenues related to contracts for which revenues are recognized over time. Additionally, Quanta's exit from and the close out of projects in Latin America also contributed to the reduction. The increase in contract liabilities from December 31, 2020 to December 31, 2021 was primarily due to the acquisition of Blattner, which had \$227.0 million of contract liabilities as of the date of acquisition.

During the years ended December 31, 2021, 2020 and 2019, Quanta recognized revenue of approximately \$433.3 million, \$491.5 million and \$370.0 million related to contract liabilities outstanding at December 31, 2020, 2019 and 2018.

# Accounts Receivable and Allowance for Credit Losses

Quanta adopted the new accounting standard for measuring credit losses effective January 1, 2020 utilizing the transition method that allows recognition of a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. Quanta's financial results for reporting periods beginning on or after January 1, 2020 are presented under the new standard, while financial results for prior periods continue to be reported in accordance with the prior standard and Quanta's historical accounting policy. The net cumulative effect due to the adoption of the new standard was a \$3.8 million reduction to retained earnings as of January 1, 2020, which represented a \$5.1 million increase to allowance for credit losses, net of \$1.3 million in deferred income taxes. The adjustment was based on an estimate of expected lifetime credit losses for financial instruments, primarily accounts receivable and contract assets. Although the adoption of the new standard did not have a material impact on Quanta's consolidated financial statements at the date of adoption, expected credit losses could change as a result of changes in credit loss experience, changes to specific risk characteristics of Quanta's portfolio of financial assets or changes to management's expectations of future economic conditions that affect the collectability of Quanta's financial assets.

The assessment of the allowance for credit losses involves certain judgments and estimates. Management estimates the allowance balance using relevant available information from internal and external sources relating to past events, current conditions and reasonable and supportable forecasts. Expected credit losses are estimated by evaluating trends in historical write-off experience and applying historical loss ratios to pools of financial assets with similar risk characteristics. Quanta has determined that it has one pool for the purpose of calculating its historical credit loss experience.

Quanta's historical loss ratio and its determination of risk pool, which are used to calculate expected credit losses, may be adjusted for changes in customer credit concentrations within its portfolio of financial assets, its customers' ability to pay, and other considerations, such as economic and market changes, changes to regulatory or technological environments affecting customers and the consistency between current and forecasted economic conditions and historical economic conditions used to derive historical loss ratios. At the end of each quarter, management reassesses these and other relevant factors, including any potential effects from the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic.

Additional allowance for credit losses is established for financial asset balances with specific customers where collectability has been determined to be improbable based on customer specific facts and circumstances. Quanta considers accounts receivable delinquent after 30 days but does not generally consider such amounts delinquent in its credit loss analysis unless the accounts receivable are at least 90 days past due. In addition to monitoring delinquent accounts, management monitors the credit quality of its receivables by, among other things, obtaining credit ratings of significant customers, assessing economic and market conditions and evaluating material changes to a customer's business, cash flows and financial condition. Should anticipated recoveries relating to receivables fail to materialize, including anticipated recoveries relating to bankruptcies or other workout situations, Quanta could experience reduced cash flows and losses in excess of current allowances provided.

Activity in Quanta's allowance for credit losses consisted of the following (in thousands):

Year Ended December 31,							
	2021	2020		2019			
\$	16,546	\$	9,398	\$	5,839		
	_		5,067				
	34,890		3,656		11,249		
	(1,687)		(1,575)		(7,690)		
\$	49,749	\$	16,546	\$	9,398		
	\$	\$ 16,546 — 34,890 (1,687)	\$ 16,546 \$ 34,890 (1,687)	2021         2020           \$ 16,546         \$ 9,398           —         5,067           34,890         3,656           (1,687)         (1,575)	2021     2020       \$ 16,546     \$ 9,398       -     5,067       34,890     3,656       (1,687)     (1,575)		

Provision for credit losses is included in "Selling, general and administrative expenses" in the consolidated statements of operations.

The majority of the increase in provision for credit losses during 2021 was related to Limetree Bay Refining, LLC (Limetree Refining), a customer within Quanta's Underground Utility and Infrastructure Solutions segment, that filed for bankruptcy protection under Chapter 11 of the U.S. Bankruptcy Code, as amended (the Bankruptcy Code), in July 2021 after experiencing operational and financial difficulties and shutting down operations at its refinery. As of December 31, 2021, Quanta had \$31.3 million of receivables for services performed and other costs related to Limetree Refining and \$0.4 million of receivables outstanding from an affiliate, which have been fully reserved. During the three months ended June 30, 2021, Quanta recorded a provision for credit loss of \$23.6 million with respect to these receivables based on the estimated amount of expected loss at that time. During the three months ended December 31, 2021, as a result of developments in the bankruptcy proceeding, including the sale of Limetree Refinery in January 2021 for substantially less than its secured debts, and negotiations regarding payment of the amounts owed by Limetree Terminals, Quanta recorded an additional provision for credit losses of \$8.1 million with respect to these receivables based on the current estimated amount of expected loss, which assumes that Quanta will not collect any of the receivables outstanding at December 31, 2021. See *Concentrations of Credit Risk* in Note 16 for further discussion of the credit quality of certain other outstanding receivables due from customers that have experienced financial difficulties.

Certain contracts allow customers to withhold a small percentage of billings pursuant to retainage provisions, and such amounts are generally due upon completion of the contract and acceptance of the project by the customer. Based on Quanta's experience in recent years, the majority of these retainage balances are expected to be collected within one year. Retainage balances with expected settlement dates within one year of December 31, 2021 and 2020 were \$406.7 million and \$306.3 million, which are included in "Accounts receivable." Retainage balances as of December 31, 2021 and 2020 with expected settlement dates beyond one year were \$93.9 million and \$88.2 million and are included in "Other assets, net."

Quanta recognizes unbilled receivables for non-fixed price contracts within "Accounts receivable" in certain circumstances, such as when revenues have been earned and recorded but the amount cannot be billed under the terms of the contract until a later date or when amounts arise from routine lags in billing (for example, work completed during one month but not billed until the next month). These balances do not include revenues recognized for work performed under fixed-price contracts, as these amounts are recorded as "Contract assets." At December 31, 2021, 2020 and 2019, unbilled receivables included in "Accounts receivable" were \$679.0 million, \$472.3 million and \$524.3 million. The increase in unbilled receivables from December 31, 2020 to December 31, 2021 was primarily due to the ramp up of work and certain delays in billing related to certain large customers. Quanta also recognizes unearned revenues for non-fixed price contracts when cash is received prior to recognizing revenues for the related performance obligation. Unearned revenues, which are included in "Accounts payable and accrued expenses," were \$51.8 million, \$53.6 million and \$33.2 million at December 31, 2021, 2020 and 2019.

# 5. SEGMENT INFORMATION:

Beginning with the three months ended December 31, 2021, Quanta reports results under three reportable segments: (1) Electric Power Infrastructure Solutions, (2) Renewable Energy Infrastructure Solutions and (3) Underground Utility and Infrastructure Solutions. The Renewable Energy Infrastructure Solutions segment was added primarily due to the acquisition of Blattner. In conjunction with this change, certain prior period amounts have been recast to conform to this new segment reporting structure. This structure is generally based on the broad end-user markets for Quanta's services. See Note 1 for additional information regarding Quanta's reportable segments.

Quanta's segment results are derived from the types of services provided across its operating companies in each of its end user markets. Quanta's entrepreneurial business model allows multiple operating companies to serve the same or similar customers and to provide a range of services across end user markets. Quanta's operating companies are organized into one of three reportable segments. Reportable segment information, including revenues and operating income by type of work, is gathered from each operating company for the purpose of evaluating segment performance in support of Quanta's market strategies. Classification of operating company revenues by type of work for segment reporting purposes can require judgment on the part of management. Quanta's operating companies may perform joint projects for customers in multiple industries, deliver multiple types of services under a single customer contract or provide service offerings to various industries. For example, Quanta performs joint trenching projects to install distribution lines for electric power and natural gas customers.

In addition, integrated operations and common administrative support for Quanta's operating companies require that certain allocations be made to determine segment profitability, including allocations of corporate shared and indirect operating costs as well as general and administrative costs. Certain corporate costs are not allocated, including facility costs, acquisition and integration costs, non-cash stock-based compensation, amortization related to intangible assets, asset impairment related to goodwill and intangible assets and change in fair value of contingent consideration liabilities.

Summarized financial information for Quanta's reportable segments is presented in the following table (in thousands):

	Year Ended December 31,								
	2021			2020	2019				
Revenues:									
Electric Power Infrastructure Solutions (1)	\$	7,624,240	\$	6,468,192	\$	6,346,837			
Renewable Energy Infrastructure Solutions		1,825,259		1,305,151		775,000			
Underground Utility and Infrastructure Solutions		3,530,714		3,429,329		4,990,316			
Consolidated revenues	\$	12,980,213	\$	11,202,672	\$	12,112,153			
Operating income (loss):									
Electric Power Infrastructure Solutions (2)(3)	\$	865,409	\$	648,405	\$	554,824			
Renewable Energy Infrastructure Solutions		181,908		177,920		36,353			
Underground Utility and Infrastructure Solutions		150,147		170,074		332,011			
Corporate and non-allocated costs		(533,943)		(385,028)		(368,314)			
Consolidated operating income	\$	663,521	\$	611,371	\$	554,874			
Depreciation:									
Electric Power Infrastructure Solutions	\$	141,093	\$	112,663	\$	101,299			
Renewable Energy Infrastructure Solutions		14,020		9,185		6,996			
Underground Utility and Infrastructure Solutions		83,720		85,981		90,953			
Corporate and non-allocated costs		16,696		17,427		18,859			
Consolidated depreciation	\$	255,529	\$	225,256	\$	218,107			

- (1) Includes \$63.2 million related to Latin American operations for the year ended December 31, 2019, which included the reversal of \$48.8 million of revenues in the year ended December 31, 2019 in connection with the terminated telecommunications project in Peru, a portion of which related to prior periods.
- (2) Includes \$74.0 million and \$85.7 million of operating losses related to Latin American operations for the years ended December 31, 2020 and 2019. Included in the Latin American operating loss for the year ended December 31, 2019 was a \$79.2 million charge associated with the termination of the large telecommunications project in Peru, which included the \$48.8 million decrease in revenues described above and a \$30.4 million increase in cost of services. See *Legal Proceedings Peru Project Dispute* in Note 16 for additional information on this matter. As of December 31, 2020, Quanta had substantially completed the exit of its operations in Latin America.
- (3) Includes equity in earnings of integral unconsolidated affiliates of \$44.1 million and \$11.3 million for the years ended December 31, 2021 and 2020. These affiliates are considered to be operationally integral to the operations of Quanta and primarily consists of equity in earnings related to Quanta's equity interest in LUMA.

Separate measures of Quanta's assets and cash flows by reportable segment, including capital expenditures, are not produced or utilized by management to evaluate segment performance. Quanta's fixed assets, which are held at the operating company level, include operating machinery, equipment and vehicles, office equipment, buildings and leasehold improvements, and certain fixed assets are used on an interchangeable basis across its reportable segments. As such, for reporting purposes, total depreciation expense is allocated each quarter among Quanta's reportable segments based on the ratio of each reportable segment's revenue contribution to consolidated revenues.

# Foreign Operations

During 2021, 2020, and 2019, Quanta derived \$1.91 billion, \$1.58 billion and \$1.92 billion of its revenues from foreign operations. Of Quanta's foreign revenues, 81%, 79% and 75% were earned in Canada during the years ended December 31, 2021, 2020 and 2019. In addition, Quanta held property and equipment of \$338.1 million and \$336.4 million in foreign countries, primarily Canada, as of December 31, 2021 and 2020.

# 6. ACQUISITIONS:

The results of operations of the acquired businesses have been included in Quanta's consolidated financial statements since the respective acquisition dates. On October 13, 2021, Quanta completed the acquisition of Blattner, a large and leading utility-scale renewable energy infrastructure solutions provider that is located in and primarily operates in North America. Consideration for this acquisition was \$2.37 billion paid or payable in cash (subject to certain adjustments) and 3,326,955

shares of Quanta common stock, which had a fair value of \$345.4 million as of the date of the acquisition. The final amount of consideration for the acquisition remains subject to certain post-closing adjustments, including with respect to net working capital (inclusive of cash) and certain assumed liabilities. Additionally, the former owners of Blattner are eligible to receive potential payment of up to \$300.0 million of contingent consideration, payable to the extent the acquired business achieves certain financial performance targets over a three-year period beginning in January 2022. Based on the estimated fair value of the contingent consideration, Quanta recorded a \$125.6 million liability as of the date of the acquisition. Contingent consideration is earned based on performance during each year of the three-year performance period, and amounts earned are payable in cash after the end of the applicable performance year. Quanta may defer payment of earned contingent consideration amounts, at its sole discretion, until after the end of the entire three-year performance period; however, any deferred amounts will accrue interest at five percent per annum until paid. Blattner's results are included in the Renewable Energy Infrastructure Solutions segment.

During the year ended December 31, 2021, Quanta also acquired the following businesses: three businesses located in the United States that provide electric power construction and related services; a communications services business located in the United States that performs data center connection services; a business located in the United States that designs, develops and holds a certification for the manufacture of personal protective breathing equipment and related monitoring devices primarily used in the refining and petrochemical industries, including in connection with catalyst services; a business that provides turnaround and catalyst change-out services to the refining and petrochemical industries primarily in the United States and Canada; a business located in Canada that provides front-end land services for infrastructure development projects in Canada and the United States; a business located in the United States that primarily provides horizontal directional drilling services; and a communications services business located in the United States. The aggregate consideration for these acquisitions was \$328.8 million paid or payable in cash (subject to certain adjustments) and 187,093 shares of Quanta common stock, which had a fair value of \$16.9 million as of the applicable acquisition dates. The results of the manufacturing business and the turnaround and catalyst change-out business are generally included in the Underground Utility and Infrastructure Solutions segment and the results of the remaining businesses are generally included in the Electric Power Infrastructure Solutions segment.

During the year ended December 31, 2020, Quanta acquired a contractor located in the United States that provides electric power distribution, transmission and substation maintenance and construction, directional boring and emergency restoration services; a professional engineering business located in the United States that provides infrastructure engineering and design services to electric utilities, gas utilities and communications services companies, as well as permitting and utility locating services; a business located in the United States that provides aviation services primarily for the utility industry; an electric power infrastructure business located in the United States that primarily provides underground conduit services; a business located in the United States that specializes in the deployment of short- and long-haul fiber optic cable and utilities; an industrial services business located in Canada that performs catalyst handling services, including changeover and shutdown maintenance, for customers in the refining and chemical industries; and a business located in the United States that provides heavy, civil, industrial and energy related services and specializes in the construction and maintenance of pipelines and metering stations. The aggregate consideration for these acquisitions was \$359.6 million paid or payable in cash (subject to certain adjustments) and 1,334,469 shares of Quanta common stock, which had a fair value of \$57.1 million as of the respective acquisition dates. Additionally, one of the acquisitions includes the potential payment of up to \$6.9 million of contingent consideration, payable if the acquired business achieves certain performance objectives over a five-year post-acquisition period. Based on the estimated fair value of the contingent consideration, Quanta recorded a \$2.3 million liability as of the acquisition date. The results of the industrial services business and the business specializing in construction and maintenance of pipelines and metering stations are generally included in the Underground Utility and Infrastructure Solutions segment and the results of the remaining businesses are generally included in the Electric Power Infrastructure Solutions segment.

On August 30, 2019, Quanta acquired The Hallen Construction Co., Inc. (Hallen), an underground utility and infrastructure solutions business located in the United States that specializes in gas distribution and transmission services, and to a lesser extent, underground electric distribution and transmission services. During the year ended December 31, 2019, Quanta also acquired two specialty utility foundation and pole-setting contractors serving the southeast United States; an electric power specialty contracting business located in the United States that provides aerial power line and construction support services; a business located in the United States that provides technical training materials to electric utility workers; an electric power company specializing in project management and, to a lesser extent, water and wastewater projects located in the United States; and an electrical infrastructure solutions business located in Canada. The aggregate consideration for these acquisitions was \$395.3 million paid or payable in cash, subject to certain adjustments, and 60,860 shares of Quanta common stock, which had a fair value of \$1.8 million as of the respective acquisition date. A portion of the cash consideration in connection with the Hallen acquisition was placed in an escrow account, which, subject to certain conditions, could be utilized to reimburse Quanta for obligations associated with certain contingent liabilities assumed by Quanta in the transaction. See Legal Proceedings — Hallen Acquisition Assumed Liability in Note 16 for additional information related to these liabilities. The results of Hallen are generally included in the Underground Utility and Infrastructure Solutions segment and the results of the other acquired businesses are generally included in the Electric Power Infrastructure Solutions segment.

The following table summarizes the aggregate consideration paid or payable as of December 31, 2021 for the acquisitions completed in 2021 and 2020 and presents the allocation of these amounts to net tangible and identifiable intangible assets based on their estimated fair values as of the respective acquisition dates, inclusive of any purchase price adjustments. These allocations require significant use of estimates and are based on information that was available to management at the time these consolidated financial statements were prepared. Quanta uses a variety of information to estimate fair values, including quoted market prices, carrying amounts and valuation techniques such as discounted cash flows. When deemed appropriate, third-party appraisal firms are engaged to assist in fair value determination of fixed assets, intangible assets and certain other assets and liabilities.

Quanta is finalizing its fair value assessments for the acquired assets and assumed liabilities related to businesses acquired during 2021, and further adjustments to the purchase price allocations may occur. As of December 31, 2021, the estimated fair values of the net assets acquired were preliminary, with possible updates primarily related to tax estimates, certain intangible assets and the finalization of closing working capital adjustments. The following table summarizes the fair value of total consideration transferred or estimated to be transferred and the fair value of assets acquired and liabilities assumed for acquisitions completed in the years shown (in thousands).

	2021					
	Blattner		All Others		2020	
Consideration:						
Cash paid or payable	\$	2,372,528	\$	328,846	\$	359,624
Value of Quanta common stock issued		345,422		16,922		57,119
Contingent consideration		125,632				2,250
Fair value of total consideration transferred or estimated to be transferred	\$	2,843,582	\$	345,768	\$	418,993
Cash and cash equivalents	\$	171,950	\$	9,910	\$	29,221
Accounts receivable		411,835		63,032		74,492
Contract assets		13,622		8,322		8,919
Other current assets		57,803		6,334		23,877
Property and equipment		179,530		71,735		143,277
Other assets		191		229		14
Identifiable intangible assets		1,425,000		105,128		96,826
Current maturities of long-term debt and short-term debt		(2,304)		_		(3,307)
Accounts payable and accrued liabilities		(478,521)		(28,662)		(31,804)
Contract liabilities		(227,040)		(384)		(3,750)
Deferred tax liabilities, net				(2,063)		(3,178)
Other long-term liabilities		(7,764)				
Total identifiable net assets		1,544,302		233,581		334,587
Goodwill		1,299,280		112,187		84,406
Fair value of net assets acquired	\$	2,843,582	\$	345,768	\$	418,993

Goodwill represents the amount by which the purchase price for an acquired business exceeds the net fair value of the assets acquired and liabilities assumed. The acquisitions completed in 2021, 2020 and 2019 strategically expanded Quanta's domestic renewable energy infrastructure solutions, domestic and international electric power infrastructure solutions and communications service offerings, and domestic and international underground utility and infrastructure solutions, which Quanta believes contributes to the recognition of the goodwill. Approximately \$1.4 billion, \$72.6 million, and \$82.1 million of goodwill is expected to be deductible for income tax purposes related to acquisitions completed in 2021, 2020 and 2019.

The following table summarizes the estimated fair values of identifiable intangible assets for the acquisitions completed in 2021 and 2020 as of the acquisition dates and the related weighted average amortization periods by type (in thousands, except for weighted average amortization periods, which are in years).

	2021										
	Blattner				All Other			2020			
	Es	stimated Fair Value	Weighted Average Amortization Period in Years	Es	Estimated Fair Value Weighted Average Amortization Period in Years		Estimated Fair Value		Weighted Average Amortization Period in Years		
Customer relationships	\$	1,045,000	7.0	\$	77,293	6.7	\$	81,154	6.1		
Backlog		130,000	0.7		6,436	1.2		4,022	1.4		
Trade names		250,000	15.0		5,698	14.9		7,654	14.4		
Non-compete agreements		_	N/A		6,673	5.0		3,996	5.0		
Patented rights, developed technology, and process certifications		_	N/A		9,028	3.5			N/A		
Total intangible assets subject to amortization	\$	1,425,000	7.8	\$	105,128	6.5	\$	96,826	6.5		

The significant estimates used by management in determining the fair values of customer relationship intangible assets include future revenues, discount rates and customer attrition rates. The following table includes the discount rates and customer attrition rates used to determine the fair value of customer relationship intangible assets for businesses acquired during the years ended December 31, 2021, 2020 and 2019 as of the respective acquisition dates:

	202	1	202	0
	Range	Weighted Average	Range	Weighted Average
Discount rates	18% to 26%	18%	19% to 25%	20%
Customer attrition rates	8% to 30%	10%	10% to 43%	13%

As described above, certain business acquisitions have contingent consideration liabilities associated with the transactions. Aggregate fair values of these outstanding contingent consideration liabilities and their classification in the accompanying consolidated balance sheets were as follows (in thousands):

	Dece	ember 31, 2021	Decen	nber 31, 2020
Accounts payable and accrued expenses	\$	2,591	\$	3,466
Insurance and other non-current liabilities		140,482		7,503
Total contingent consideration liabilities	\$	143,073	\$	10,969

The increase in contingent consideration liabilities from December 31, 2020 to December 31, 2021 was primarily due to the acquisition of Blattner. The majority of Quanta's outstanding contingent consideration liabilities are subject to a maximum payment amount, which totaled \$313.7 million as of December 31, 2021.

Quanta's aggregate contingent consideration liabilities can change due to additional business acquisitions, settlement of outstanding liabilities, changes in the fair value of amounts owed based on performance in post-acquisition periods and accretion in present value. These changes are reflected in "Change in fair value of contingent consideration liabilities" in the accompanying consolidated statements of operations. Quanta settled certain contingent consideration liabilities with \$76.0 million of cash payments and the issuance of 4,277 shares of Quanta common stock during the year ended December 31, 2020.

The following unaudited supplemental pro forma results of operations for Quanta, which incorporate the acquisitions completed in 2021, 2020 and 2019, have been provided for illustrative purposes only and do not purport to be indicative of the actual results that would have been achieved by the combined companies for the periods presented or that may be achieved by the combined companies in the future. Future results may vary significantly from the results reflected in the following pro

forma financial information because of future events and transactions, as well as other factors (in thousands, except per share amounts).

		Year Ended December 31,					
		2021		2020		2019	
Revenues	\$	15,503,994	\$	14,082,275	\$	12,844,508	
Gross profit	\$	2,511,503	\$	2,226,703	\$	1,761,317	
Selling, general and administrative expenses	\$	(1,353,780)	\$	(1,208,909)	\$	(1,027,254)	
Amortization of intangible assets	\$	(311,208)	\$	(404,014)	\$	(95,185)	
Net income	\$	624,506	\$	421,105	\$	434,593	
Net income attributable to common stock	\$	618,479	\$	414,742	\$	429,822	
Earnings per share attributable to common stock:							
Basic	\$	4.31	\$	2.85	\$	2.92	
Diluted	\$	4.18	\$	2.77	\$	2.89	

The pro forma combined results of operations were prepared by adjusting the historical results of Quanta to include the historical results of the acquisitions completed in 2021 as if they occurred January 1, 2020, the historical results of the acquisitions completed in 2019 as if they occurred January 1, 2018. These pro forma combined historical results were adjusted for the following: a reduction of interest and other financing expenses as a result of the repayment of outstanding indebtedness of the acquired businesses; an increase in interest and other financing expenses as a result of the cash consideration paid; an increase in amortization expense due to the intangible assets recorded; elimination of inter-company sales; changes in depreciation expense to adjust acquired property and equipment to the acquisition date fair value and to conform with Quanta's accounting policies; an increase in the number of outstanding shares of Quanta common stock; reclassifications to conform the acquired businesses' presentation to Quanta's accounting policies; and elimination of certain transaction costs incurred by one of the acquired businesses and directly related to the acquisition of the business by Quanta. The pro forma combined results of operations do not include any adjustments to eliminate the impact of acquisition-related costs incurred by Quanta or any cost savings or other synergies that resulted or may result from the acquisitions. As noted above, the pro forma results of operations do not purport to be indicative of the actual results that would have been achieved by the combined company for the periods presented or that may be achieved by the combined company in the future.

Revenues of \$499.6 million and a loss before income taxes of \$71.6 million, which included \$80.3 million of amortization expense and \$41.5 million of acquisition-related costs, related to acquisitions completed in 2021 are included in Quanta's consolidated results of operations for the year ended December 31, 2021. Revenues of \$133.5 million and a loss before income taxes of \$1.3 million, which included \$17.5 million of acquisition-related costs and \$6.4 million of amortization expense, related to acquisitions completed in 2020 are included in Quanta's consolidated results of operations for the year ended December 31, 2020. Revenues of \$223.3 million and income before income taxes of \$7.5 million, which included \$22.1 million of acquisition-related costs and \$14.6 million of amortization expense, related to the acquisitions completed in 2019 are included in Quanta's consolidated results of operations for the year ended December 31, 2019.

#### 7. GOODWILL AND OTHER INTANGIBLE ASSETS:

#### Goodwill

Goodwill, net of accumulated impairment losses, represents the excess of cost over the fair market value of net tangible and identifiable intangible assets of acquired businesses and is stated at cost. Quanta has recorded goodwill in connection with certain of its historical acquisitions of businesses. Upon acquisition, these businesses were either combined into one of Quanta's existing operating companies or managed on a stand-alone basis as an individual operating company.

As described in Note 5 above, beginning with the three months ended December 31, 2021, Quanta reports results under three reportable segments: (1) Electric Power Infrastructure Solutions, (2) Renewable Energy Infrastructure Solutions and (3) Underground Utility and Infrastructure Solutions. The Renewable Energy Infrastructure Solutions segment was added due to the acquisition of Blattner in the fourth quarter of 2021. In conjunction with this change, Quanta has reorganized its reporting of goodwill to align with the reportable segments. Goodwill was allocated to reporting units of operating companies based on estimated relative fair value of reporting units within each operating company. From time to time, the goodwill of a reporting unit may be reorganized into a different reportable segment if warranted due to fundamental changes in its predominant

business.

A summary of changes in Quanta's goodwill by segment is as follows (in thousands):

Sci	astructure olutions egment	Energy Infrastructure Solutions Segment	Utility and Infrastructure Solutions Segment	Total
Balance at December 31, 2019:				
Goodwill \$	1,365,163	\$ —	\$ 753,938	\$ 2,119,101
Accumulated impairment			(96,426)	(96,426)
	1,365,163	_	657,512	2,022,675
Goodwill related to acquisitions completed in 2020	79,889	_	6,308	86,197
Purchase price allocation adjustments	1,730	_	19	1,749
Foreign currency translation adjustments	2,992	_	7,401	10,393
Balance at December 31, 2020:				
Goodwill	1,449,774	_	768,868	2,218,642
Accumulated impairment			(97,628)	(97,628)
	1,449,774	_	671,240	2,121,014
Goodwill related to acquisitions completed in 2021	100,121	1,299,280	12,066	1,411,467
Operating company reorganizations	(161,912)	161,912	_	
Purchase price allocation adjustments	(1,791)	_	_	(1,791)
Foreign currency translation adjustments	1,226	_	(3,030)	(1,804)
Balance at December 31, 2021:				
Goodwill	1,387,418	1,461,192	777,136	3,625,746
Accumulated impairment			(96,860)	(96,860)
\$ 2	1,387,418	\$ 1,461,192	\$ 680,276	\$ 3,528,886

As of December 31, 2021 and 2020, the inherent assumptions and estimates used in developing future cash flows include projected revenues and margins, weighted average costs of capital, and transaction multiples. As of December 31, 2019, the inherent assumptions and estimates used in developing future cash flows and market valuations include projected revenues and margins, weighted average cost of capital and market multiples. The following table presents the significant estimates used by management in determining the fair values of Quanta's reporting units for which a quantitative assessment was performed at December 31, 2021, 2020 and 2019:

	2021	2020	2019
Years of cash flows before terminal value	5 years	5 years	5 years
Weighted average cost of capital	12.0%	12.5% to 13.5%	12.5%
Transaction multiple(s) applied to EBITDA	7.0	6.0 to 9.0	6
Guideline public company multiple(s) applied to EBITDA	N/A	N/A	6.5
Five-year revenue compounded annual growth rate(s)	9% to 26%	-8% to 26%	-9%
Weighting of three methods:			
Discounted cash flows	100%	100%	70%
Market multiple	0%	0%	15%
Market capitalization	0%	0%	15%

Quanta determined the fair value of its reporting units as of December 31, 2021 and 2020 using only the income approach. Quanta determined that the use of market multiple valuations applied to 2020 and 2021 financial results would not yield valuations reflective of fair market value due to the continued uncertainties and challenges in the energy market and

overall economy caused by the COVID-19 pandemic. The range of compounded annual growth rates in 2021 and 2020 reflects Quanta's expectation of a recovery over the five-year period used in the goodwill model.

In connection with the annual goodwill assessment performed during the fourth quarter of 2021, Quanta assessed qualitative factors to determine whether it was necessary to perform a quantitative fair value impairment analysis and identified certain reporting units for which a quantitative goodwill impairment assessment was deemed appropriate based on financial performance indicators. The subsequent quantitative analysis indicated that the fair value of each reporting unit was in excess of its carrying amount. Accordingly, Quanta did not record any impairment charges related to goodwill during the fourth quarter of 2021. In connection with the 2020 and 2019 annual goodwill assessments, Quanta assessed qualitative factors to determine whether it was necessary to perform a quantitative fair value impairment analysis and also identified certain reporting units for which quantitative goodwill impairment assessments were deemed appropriate based on financial performance indicators. The subsequent quantitative analyses indicated that the fair values of the reporting units were in excess of their carrying amounts. Accordingly, Quanta did not record any impairment charges related to goodwill during the fourth quarters of 2020 or 2019.

Although no goodwill impairment charges were recorded during the year ended December 31, 2021, the determination of a reporting unit's fair value requires judgment and the use of significant estimates and assumptions. Quanta believes the estimates and assumptions used in its impairment assessments are reasonable and based on available market information obtained from relevant industry sources; however, variations in any of the assumptions could result in materially different calculations of fair value and impairment determinations. With respect to reporting units within Quanta's Underground Utility and Infrastructure Solutions segment, the potential impact of uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic is unknown and depends on numerous factors, and therefore the negative impact on these reporting units could continue or increase in future periods. In particular, due to volatility in commodity prices and commodity production volumes over the past few years, the effect of which has been exacerbated by the COVID-19 pandemic, two Canadian pipeline-related businesses with aggregate goodwill and intangible asset balances totaling \$76.7 million and \$12.8 million as of December 31, 2021 have an increased risk of goodwill impairment in the near and medium term. Management considered the sensitivity of its fair value estimates to changes in certain valuation assumptions for these reporting units. After taking into account a 10% decrease in fair value, these reporting units would have fair values below their carrying amounts. Quanta will continue to monitor the impact of the goodwill associated with these reporting units, and should they suffer additional declines in actual or forecasted financial results, the risk of goodwill impairment would increase.

### Other Intangible Assets

Quanta's intangible assets include customer relationships; backlog; trade names; non-compete agreements; patented rights, developed technology, and process certifications; and curriculum, all of which are subject to amortization, as well as an engineering license, which is not subject to amortization.

As a result of the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic, Quanta assessed certain potential negative impacts related to its intangible assets, particularly intangible assets associated with reporting units within the Underground Utility and Infrastructure Solutions segment. Quanta concluded that such impact is not likely to result in intangible asset impairments, and therefore no intangible asset impairments were recognized during the year ended December 31, 2021. However, the full potential impact of the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic is unknown and depends on numerous factors, and therefore the negative impact on certain of Quanta's reporting units and related intangible assets could increase in future periods. Quanta will continue to monitor the impact of these events and should any of the reporting units suffer additional declines in actual or forecasted financial results, the risk of intangible asset impairment would increase.

Quanta's intangible assets and the remaining weighted average amortization periods related to its intangible assets subject to amortization were as follows (in thousands except for weighted average amortization periods, which are in years):

		As of Decemb	ber 31, 2021	As of December 31, 2020				
	Remaining Weighted Average Amortization Period in Years	Intangible Assets	Accumulated Amortization	Intangible Assets, Net	Intangible Assets	Accumulated Amortization	Intangible Assets, Net	
Customer relationships	6.4	\$1,738,813	\$ (379,417)	\$1,359,396	\$ 616,875	\$ (277,647)	\$ 339,228	
Backlog	0.4	286,120	(192,140)	93,980	149,769	(145,476)	4,293	
Trade names	14.5	357,103	(41,642)	315,461	101,533	(32,471)	69,062	
Non-compete agreements	3.7	54,022	(41,409)	12,613	47,333	(36,973)	10,360	
Patented rights, developed technology, and process certifications	3.0	31,520	(23,458)	8,062	22,486	(21,894)	592	
Curriculum	6.4	13,100	(4,432)	8,668	12,233	(3,113)	9,120	
Total intangible assets subject to amortization	7.4	2,480,678	(682,498)	1,798,180	950,229	(517,574)	432,655	
Engineering license		3,000		3,000	3,000		3,000	
Total intangible assets		\$2,483,678	\$ (682,498)	\$1,801,180	\$ 953,229	\$ (517,574)	\$ 435,655	

Amortization expense for intangible assets was \$165.4 million, \$76.7 million and \$62.1 million for the years ended December 31, 2021, 2020 and 2019.

The estimated future aggregate amortization expense of intangible assets subject to amortization as of December 31, 2021 is set forth below (in thousands):

w .	T	T .	0.4
VAOR	k'nding.	December	31.
	17HUH2	December	J I .

2022	\$ 347,276
2023	246,919
2024	233,073
2025	218,532
2026	211,648
Thereafter	540,732
Total	\$ 1,798,180

#### 8. INVESTMENTS IN AFFILIATES AND OTHER ENTITIES:

As described in Note 2, in the normal course of business, Quanta enters into various types of investment arrangements, each having unique terms and conditions.

The carrying values for Quanta's unconsolidated equity method investments were \$101.2 million and \$44.9 million at December 31, 2021 and 2020 and are included in "Other assets, net" in the accompanying consolidated balance sheets. As of December 31, 2021, Quanta had receivables of \$49.0 million and payables of \$56.3 million from its integral unconsolidated affiliates.

In October 2021, Quanta acquired a 44% interest in an entity that provides right-of-way solutions, including site preparation and clearing, materials delivery and installation and management of permitting requirements and traffic control for approximately \$22.0 million, subject to certain adjustments. This investment is accounted for as an integral affiliate using the equity method of accounting.

Included within the equity method investments described above is the carrying value of Quanta's 50% equity interest in LUMA Energy, LLC (LUMA), which was \$30.6 million and \$10.9 million at December 31, 2021 and 2020. During the year ended December 31, 2021, Quanta received \$17.5 million of cash related to its share of earnings from LUMA. During the three months ended June 30, 2020, the LUMA joint venture was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico. In

June 2021, LUMA completed the steps necessary to transition operation and maintenance of the system from the owner to LUMA and entered into an interim services agreement. Once the owner emerges from its Title III debt restructuring process, the 15-year operation and maintenance period is scheduled to begin. During the interim services period, LUMA receives a fixed annual management fee, payable in monthly installments, and is reimbursed for costs and expenses. During the 15-year operation and maintenance period, LUMA will continue to be reimbursed for costs and expenses and receive a fixed annual management fee, but will also have the opportunity to receive additional annual performance-based incentive fees. LUMA has not assumed and will not assume ownership of the electric transmission and distribution system assets and is not responsible for operation of the power generation assets. Quanta's ownership interest and participation in LUMA is accounted for as an equity method investment due to Quanta's and its joint venture partner's equal ownership of LUMA. LUMA is operationally integral to the operations of Quanta, and therefore Quanta's share of LUMA's net income or losses is reported within operating income in "Equity in earnings (losses) of integral unconsolidated affiliates."

During the year ended December 31, 2020, Quanta recognized impairment losses of \$8.7 million related to two non-integral equity method investments, which were primarily due to the decline in commodity prices and production volumes during 2020. These impairment losses are included in "Other income, net" in the accompanying consolidated statement of operations for the year ended December 31, 2020.

Quanta had a minority ownership interest in a limited partnership that was selected during 2014 to build, own and operate a new 500-kilometer electric transmission line and two 500 kV substations in Alberta, Canada and accounted for this interest as an equity-method investment. The limited partnership contracted with a Quanta subsidiary to perform the engineering, procurement and construction (EPC) services for the project, and the Quanta subsidiary recognized revenue and related cost of services as performance progressed on the project. However, due to Quanta's ownership interest, a proportional amount of the EPC profit was deferred until the electric transmission line and related substations were constructed and ownership of the assets was deemed to be transferred to the third-party customer, which occurred in the three months ended March 31, 2019. The deferral of earnings and recognition of such earnings deferral were recorded as components of equity in earnings (losses) of non-integral unconsolidated affiliates, which is included in "Other income, net" in the accompanying consolidated statements of operations. During the three months ended March 31, 2019, deferred earnings of \$60.3 million were recognized, the majority of which was attributable to profit earned and deferred in the years ended December 31, 2018 and 2017. During the three months ended December 31, 2019, Quanta sold its minority ownership interest in the limited partnership and recognized a gain of \$13.0 million related to the sale. The gain was recorded in equity in earnings (losses) of unconsolidated affiliates, which is included in "Other income, net" in the accompanying consolidated statements of operations.

The carrying values for investments accounted for using the cost method of accounting were \$130.2 million and \$39.5 million at December 31, 2021 and 2020, and these amounts are included in "Other assets, net" in the accompanying consolidated balance sheets. During the three months ended March 31, 2021, Quanta acquired a minority interest in a broadband technology provider for \$90.0 million. This investment includes preferential liquidation rights and is accounted for using the cost method of accounting. There have been no changes in the carrying value of the investment through December 31, 2021. However, in October 2021, the broadband technology provider entered into an agreement and plan of merger with a special purpose acquisition company. Pursuant to the terms of this transaction, which is expected to be consummated during the first half of 2022, the broadband technology provider will become a publicly traded company, and Quanta's current preferred equity interest would become an approximate five percent common equity interest, without preferential liquidation rights, in the publicly traded company. Quanta would then begin to remeasure this investment at fair value, and the investment balance will be marked to the market price of its stock investment, with changes in value recorded within "Other income, net" on its consolidated statements of operations. Additionally, any shares of common equity held by Quanta in the publicly traded company are expected to be subject to a lock-up period that restricts the transfer of such shares for 180 days after closing of the transaction.

During the year ended December 31, 2021, Quanta also purchased, through its wholly-owned captive insurance company, certain real property, including associated buildings and facilities, that is being developed for its future corporate headquarters. A portion of this property is currently leased to third-party lessees and is expected to continue to be leased to third-party lessees in the future. As a result, an investment in real estate of \$23.5 million was recognized at cost for the third-party leased portion of the property during the three months ended March 31, 2021, and the carrying amount of \$23.3 million is included in "Other assets, net" in the accompanying consolidated balance sheet at December 31, 2021.

During the three months ended June 30, 2020, Quanta recognized a \$9.3 million impairment to an investment in a water and gas infrastructure contractor in Australia, which also represents the cumulative amount of impairment on investments accounted for using the cost method of accounting. Quanta did not exercise its option to acquire the remaining interest in this business at an agreed price based on a multiple of the company's earnings during a designated performance period. This impairment loss is included in "Other income, net" in the accompanying consolidated statement of operations for the year ended December 31, 2020.

As a result of the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic, including the significant decline in commodity prices during 2020 and the continued volatility in commodity prices and production volumes, Quanta assessed the expected negative impacts related to certain of its investments, particularly investments dependent on the energy market. This assessment contributed in part to management's decision to record the impairments related to certain non-integral equity method investments and the water and gas pipeline infrastructure contractor in Australia described above. Additionally, the potential impact of the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic remains unknown and may change based on numerous factors, which could further negatively impact these and other of Quanta's investments. Quanta will continue to monitor the potential impacts of these events, and should any investments suffer additional declines in actual or forecasted financial results, additional impairments may be required. See Notes 13 and 16 for additional information related to equity and cost method investments. See Note 15 for information related to Quanta's investments associated with its deferred compensation plan.

#### 9. PER SHARE INFORMATION:

The amounts used to compute basic and diluted earnings per share attributable to common stock consisted of the following (in thousands):

	Year Ended December 31,					
	2021		2020			2019
Amounts attributable to common stock:						
Net income attributable to common stock	\$	485,956	\$	445,596	\$	402,044
Weighted average shares:						
Weighted average shares outstanding for basic earnings per share attributable to common stock		140,824		141,380		145,710
Effect of dilutive unvested non-participating stock-based awards		4,549		3,867		1,824
Weighted average shares outstanding for diluted earnings per share attributable to common stock		145,373		145,247		147,534

Basic and diluted earnings per share attributable to common stock are computed using the weighted average number of shares of common stock outstanding during the applicable period. Additionally, unvested stock-based awards that contain non-forfeitable rights to dividends or dividend equivalents (participating securities) have been included in the calculation of basic and diluted earnings per share attributable to common stock for the portion of the periods that the awards were outstanding. Weighted average shares outstanding for basic and diluted earnings per share attributable to common stock included 0.6 million, 1.6 million and 2.8 million weighted average participating securities for the years ended December 31, 2021, 2020 and 2019.

For purposes of calculating diluted earnings per share attributable to common stock, there were no adjustments required to derive Quanta's net income attributable to common stock. Diluted earnings per share attributable to common stock is computed using the weighted average number of shares of common stock outstanding during the period adjusted for all potentially dilutive common stock equivalents, except in cases where the effect of the common stock equivalents would be antidilutive.

### **10. DEBT OBLIGATIONS:**

Quanta's long-term debt obligations consisted of the following (in thousands):

	December 31,			
		2021		2020
0.950% Senior Notes due October 2024	\$	500,000	\$	_
2.900% Senior Notes due October 2030		1,000,000		1,000,000
2.350% Senior Notes due January 2032		500,000		_
3.050% Senior Notes due October 2041		500,000		_
Borrowings under senior credit facility		1,199,841		148,508
Other long-term debt		64,800		46,981
Finance leases		2,546		2,228
Unamortized discount and debt issuance costs related to senior notes and term loan		(29,295)		(12,892)
Total long-term debt obligations		3,737,892		1,184,825
Less — Current maturities of long-term debt		13,418		10,531
Total long-term debt obligations, net of current maturities	\$	3,724,474	\$	1,174,294

Quanta's current maturities of long-term debt and short-term debt consisted of the following (in thousands):

		Decem	r 31,	
	2021			2020
Short-term debt	\$	15,748	\$	4,233
Current maturities of long-term debt		13,418		10,531
Current maturities of long-term debt and short-term debt	\$	29,166	\$	14,764

As of December 31, 2021, principal payments required to be made during the next five years are set forth in the table below. The payments required under finance leases are provided in Note 11.

2022	\$ 12,267
2023	\$ 30,489
2024	\$ 528,235
2025	\$ 45,178
2026	\$ 1,130,559

#### Senior Notes

On September 23, 2021, Quanta issued \$1.50 billion aggregate principal amount of senior notes consisting of: \$500.0 million aggregate principal amount of 0.950% senior notes due October 2024 (the 2024 notes); \$500.0 million aggregate principal amount of 2.350% senior notes due January 2032 (the 2032 notes); and \$500.0 million aggregate principal amount of 3.050% senior notes due October 2041 (the 2041 notes). The cumulative proceeds received from the public offering of the 2024 notes, the 2032 notes and the 2041 notes were \$1.48 billion, net of the original issue discount, underwriting discounts and deferred financing costs, which were used, along with drawings under Quanta's senior credit facility, as amended, to acquire Blattner. Additionally, on September 22, 2020, Quanta issued \$1.00 billion aggregate principal amount of 2.900% senior notes due October 2030 (the 2030 notes, and together with the 2024 notes, the 2032 notes and the 2041 notes, collectively, the Senior Notes) and received proceeds of \$986.7 million from the offering, net of the original issue discount, underwriting discounts and deferred financing costs, and used such proceeds, together with cash on hand, to voluntarily prepay the \$1.21 billion of term loans then-outstanding under Quanta's credit agreement for its senior credit facility.

Interest on the Senior Notes is payable semi-annually in arrears as set forth below (dollars in thousands).

Title of the Notes	Inte	rest Amount	Payment Dates	Commencement Date	
0.950% Senior Notes due October 2024	\$	2,375	April 1 and October 1	April 1, 2022	
2.900% Senior Notes due October 2030	\$	14,500	April 1 and October 1	April 1, 2021	
2.350% Senior Notes due January 2032	\$	5,875	January 15 and July 15	July 15, 2022	
3.050% Senior Notes due October 2041	\$	7,625	April 1 and October 1	April 1, 2022	

In each case as further specified by the terms of the Senior Notes and the indenture and supplemental indentures governing the Senior Notes (collectively, the indenture), Quanta may redeem all or a portion of (i) the 2024 notes at any time prior to October 1, 2022 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after October 1, 2022 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after July 1, 2030 at a price equal to 100% of the principal amount plus accrued and unpaid interest; (iii) the 2032 notes at any time prior to October 15, 2031 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after October 15, 2031 at a price equal to 100% of the principal amount plus accrued and unpaid interest; and (iv) the 2041 notes at any time prior to April 1, 2041 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after April 1, 2041 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after April 1, 2041 at a price equal to 100% of the principal amount plus accrued and unpaid interest, and at any time on or after April 1, 2041 at a price equal to 100% of the principal amount plus accrued and unpaid interest.

Upon the occurrence of a Change of Control Triggering Event (as defined in the indenture), unless Quanta has exercised its right to redeem the applicable series of Senior Notes in full by giving irrevocable notice to the trustee, each holder of such Senior Notes will have the right to require Quanta to purchase all or a portion of such holder's Senior Notes of such series at a purchase price equal to 101% of the principal amount thereof plus accrued and unpaid interest.

The indenture contains covenants that, among other things, limit Quanta's ability to incur liens securing certain indebtedness, to engage in certain sale and leaseback transactions with respect to certain properties and to sell all or substantially all of Quanta's assets or merge or consolidate with or into other companies. The indenture also contains customary events of default.

### Senior Credit Facility

The credit agreement for Quanta's senior credit facility (the credit agreement) provides for a \$750.0 million term loan facility, which was utilized for the purpose of financing Quanta's acquisition of Blattner, and aggregate revolving commitments of \$2.64 billion, with a maturity date of October 8, 2026. Subject to the conditions specified in the credit agreement, Quanta has the option to increase the capacity of the credit facility, in the form of an increase in the revolving commitments, term loans or a combination thereof, from time to time, upon receipt of additional commitments from new or existing lenders by up to an additional (i) \$400.0 million plus (ii) additional amounts so long as the Incremental Leverage Ratio Requirement (as defined in the credit agreement) is satisfied at the time of such increase. The Incremental Leverage Ratio Requirement requires, among other things, after giving pro forma effect to such increase and the use of proceeds therefrom, compliance with the credit agreement's financial covenants as of the most recent fiscal quarter end for which financial statements were required to be delivered.

The credit agreement contains certain covenants, including, as of the end of any fiscal quarter of Quanta, (i) a maximum Consolidated Leverage Ratio of 3.5 to 1.0 (except that in connection with certain permitted acquisitions in excess of \$200.0 million, such ratio is 4.0 to 1.0 for the fiscal quarter in which the acquisition is completed and the four subsequent fiscal quarters) and (ii) a minimum Consolidated Interest Coverage Ratio of 3.0 to 1.0. As of December 31, 2021, Quanta was in compliance with all of the financial covenants under the credit agreement. The Consolidated Leverage Ratio is the ratio of Quanta's total funded debt to Consolidated EBITDA (as defined in the credit agreement). For purposes of calculating the Consolidated Leverage Ratio, total funded debt is reduced by available cash and Cash Equivalents (as defined in the credit agreement) in excess of \$25.0 million. Consolidated Interest Coverage Ratio is the ratio of (i) Consolidated EBIT (as defined in the credit agreement) for the four fiscal quarters most recently ended to (ii) Consolidated Interest Expense (as defined in the credit agreement) for such period (excluding all interest expense attributable to capitalized loan costs and the amount of fees paid in connection with the issuance of letters of credit on behalf of Quanta during such period).

The credit agreement also limits certain acquisitions, mergers and consolidations, indebtedness, asset sales and prepayments of indebtedness and, subject to certain exceptions, prohibits liens on Quanta's assets. The credit agreement allows cash payments for dividends and stock repurchases subject to compliance with the following requirements (including after giving effect to the dividend or stock repurchase): (i) no default or event of default under the credit agreement; (ii) continued compliance with the financial covenants in the credit agreement; and (iii) at least \$100.0 million of availability under the senior

credit facility and/or cash and cash equivalents on hand.

The credit agreement provides for customary events of default and contains cross-default provisions with other debt instruments exceeding \$300.0 million in borrowings or availability. If an Event of Default (as defined in the credit agreement) occurs and is continuing, on the terms and subject to the conditions set forth in the credit agreement, the lenders may declare all amounts outstanding and accrued and unpaid interest immediately due and payable, require that Quanta provide cash collateral for all outstanding letter of credit obligations and terminate the commitments under the credit agreement.

In September 2020, pursuant to an amendment of the credit agreement, a pledge of capital stock of certain Quanta subsidiaries and liens on the collateral that secured the obligations under the credit agreement were released, and all of Quanta's subsidiaries that were guarantors of the obligations under the credit agreement were released from their guarantees of such obligations. In addition, the amendment removed the collateral reinstatement provision that would have applied in the event Quanta's corporate credit rating were to fall below an investment grade rating.

Borrowings under the senior credit facility and the applicable interest rates were as follows (dollars in thousands):

	Year Ended December 31,							
	2021		2020		2019			
Maximum amount outstanding under the senior credit facility during the period\$	1,463,667	\$	2,023,326	\$	2,051,714			
Average daily amount outstanding under the senior credit facility \$	591,114	\$	1,091,091	\$	1,553,499			
Weighted-average interest rate of the senior credit facility	1.9 %	, )	2.1 %	0	3.8 %			

Term Loans. On October 13, 2021, Quanta borrowed the full amount of the \$750.0 million term loan facility and used such amount, together with the net proceeds from the September 2021 offering of the 2024 notes, the 2032 notes and the 2041 notes and approximately \$50.9 million of revolving loans borrowed under the senior credit facility, to pay the cash consideration for the acquisition of Blattner, as further described in Note 4.

Quanta is required to make quarterly principal payments on the first business day of each January, April, July and October, beginning in January 2023, on outstanding borrowings under the term loan facility in an amount equal to \$4.7 million per quarter in 2023 and 2024, \$9.4 million per quarter in 2025 and \$18.8 million per quarter in 2026. The aggregate remaining principal amount outstanding for the new term loan facility must be paid on the maturity date of the senior credit facility. Quanta may voluntarily prepay the term loan borrowings from time to time, in whole or in part, without premium or penalty. Amounts borrowed under the term loan facility bear interest, at Quanta's option, at a rate equal to either (a) the LIBOR Rate (as defined in the credit agreement) plus 1.000% to 1.625%, or (b) the Base Rate (as defined below) plus 0.000% to 0.625%, each as determined based on either Quanta's Consolidated Leverage Ratio (as described above) or Quanta's Debt Rating (as defined in the credit agreement), whichever is more favorable to Quanta. The Base Rate equals the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus 0.5%, (ii) Bank of America N.A.'s prime rate and (iii) the LIBOR Rate plus 1.00%.

Additionally, to address the transition in financial markets away from the London Interbank Offered Rate (LIBOR), the credit agreement includes customary LIBOR benchmark replacement provisions. The benchmark replacement for U.S. dollar-denominated loans may be a rate based on the secured overnight financing rate published by the Federal Reserve Bank of New York or an alternate benchmark, subject to the terms and conditions set forth in the credit agreement. In certain circumstances, loans in U.S. dollars would default to the Base Rate, which under such circumstances would equal the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus 0.5% and (ii) the prime rate publicly announced by Bank of America, N.A.

Revolving Loans. As of December 31, 2021, Quanta had \$449.8 million of outstanding revolving loans under the senior credit facility. Of the total outstanding borrowings, \$102.4 million were denominated in U.S. dollars, \$312.6 million were denominated in Canadian dollars and \$34.8 million were denominated in Australian dollars. As of December 31, 2021, Quanta also had \$318.2 million of letters of credit issued under the senior credit facility, of which \$241.7 million were denominated in U.S. dollars and \$76.5 million were denominated in currencies other than the U.S. dollar, primarily Canadian dollars. As of December 31, 2021, subject to the applicable sublimits and other terms and conditions, the remaining \$1.87 billion of available commitments under the senior credit facility was available for loans or issuing new letters of credit in U.S. dollars and certain alternative currencies.

Beginning October 8, 2021, amounts borrowed in U.S. dollars under the revolving credit facility bear interest, at Quanta's option, at a rate equal to either (a) the LIBOR Rate plus 1.125% to 1.750%, or (b) the Base Rate plus 0.125% to 0.750%, each as determined based on either Quanta's Consolidated Leverage Ratio or its Debt Rating, whichever is more favorable to Quanta. Revolving loans borrowed in any currency other than U.S. dollars bear interest at a rate equal to the Alternative Currency Daily Rate or the Alternative Currency Term Rate (each as defined in the credit agreement), as applicable, plus 1.125% to 1.750%, as determined based on either Quanta's Consolidated Leverage Ratio or Quanta's Debt Rating, whichever is

more favorable to Quanta. Additionally, standby or commercial letters of credit issued under the credit agreement are subject to a letter of credit fee of 1.125% to 1.750%; Performance Letters of Credit (as defined in the credit agreement) issued under the credit agreement in support of certain contractual obligations are subject to a letter of credit fee of 0.675% to 1.125%; and Quanta is subject to a commitment fee of 0.100% to 0.275% on any unused availability under the revolving credit facility, in each case as determined based on either the Quanta's Consolidated Leverage Ratio or its Debt Rating, whichever is more favorable to Quanta. Additionally, as described above, the credit agreement includes customary LIBOR benchmark replacement provisions.

Prior to October 8, 2021, revolving loans borrowed in U.S. dollars bore interest, at Quanta's option, at a rate equal to either (i) the Eurocurrency Rate (as defined in the credit agreement) plus 1.125% to 2.000%, as determined based on Quanta's Consolidated Leverage Ratio, or (ii) the prior base rate (as described below) plus 0.125% to 1.000%, as determined based on Quanta's Consolidated Leverage Ratio. Revolving loans borrowed in any currency other than U.S. dollars bore interest at a rate equal to the Eurocurrency Rate plus 1.125% to 2.000%, as determined based on Quanta's Consolidated Leverage Ratio. Additionally, standby or commercial letters of credit issued under the credit agreement were subject to a letter of credit fee of 1.125% to 2.000%, based on Quanta's Consolidated Leverage Ratio, and Performance Letters of Credit (as defined in the credit agreement) issued under the credit agreement in support of certain contractual obligations were subject to a letter of credit fee of 0.675% to 1.150%, based on Quanta's Consolidated Leverage Ratio. The prior calculation for base rate equaled the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus 0.5%, (ii) the prime rate publicly announced by Bank of America, N.A. and (iii) the Eurocurrency Rate plus 1.00%. Quanta was also subject to a commitment fee of 0.275% to 0.425% from September 22, 2020 through October 7, 2021, based on its Consolidated Leverage Ratio, on any unused availability under the senior credit facility. Prior to the amendment on September 22, 2020, Quanta was subject to a commitment fee of 0.200% to 0.400%.

Deferred Financing Costs. Capitalized deferred financing costs related to Quanta's senior credit facility (other than deferred financing costs related to the term loan, which are recorded along with deferred financing costs related to the Senior Notes in a contra account to long-term debt) are included in "Other assets, net" in the accompanying consolidated balance sheets and are amortized to "Interest and other financing expenses" on a straight-line basis over the terms of the respective agreements giving rise to the costs, which Quanta believes approximates the effective interest rate method. As of December 31, 2021 and 2020, capitalized deferred financing costs, net of accumulated amortization, related to Quanta's revolving loans under its senior credit facility were \$10.1 million and \$9.7 million.

#### **Bridge Facility Commitment**

On September 1, 2021, in connection with the signing of the merger agreement for the acquisition of Blattner, Quanta entered into a commitment letter, pursuant to which certain lenders committed to provide a 364-day senior unsecured bridge facility in an aggregate principal amount of up to \$2.18 billion to finance the cash consideration estimated to be due at closing of the acquisition of Blattner and to pay fees and expenses incurred in connection therewith. On September 23, 2021, in accordance with the terms of the commitment letter, the aggregate commitments under the commitment letter were reduced to \$696.1 million concurrently with Quanta's issuance of the 2024 notes, the 2032 notes and the 2041 notes. Additionally, concurrent with the amendment to Quanta's senior credit facility in October 2021, the remaining aggregate commitments under the commitment letter were reduced to zero and the commitment was terminated.

During the three months ended September 30, 2021, Quanta paid \$4.4 million of fees to the lenders related to the bridge facility commitment, all of which was amortized to "Interest and other financing expenses" during the year ended December 31, 2021.

### 11. LEASES:

Quanta primarily leases land, buildings, vehicles, construction equipment and office equipment. As of December 31, 2021, the majority of Quanta's leases had remaining lease terms less than 9.5 years. Certain leases include options to extend

their terms in increments of up to five years and/or options to terminate. The components of lease costs in the accompanying consolidated statements of operations are as follows (in thousands):

		Year Ended December					er 31,		
Lease cost	Classification		2021		2020		2019		
Finance lease cost:									
Amortization of lease assets	Depreciation (1)	\$	1,097	\$	1,234	\$	1,393		
Interest on lease liabilities	Interest and other financing expenses		90		107		64		
Operating lease cost	Cost of services and Selling, general and administrative expenses		104,668		116,672		121,767		
Short-term and variable lease cost (2)	Cost of services and Selling, general and administrative expenses		716,722		656,649		837,244		
Total lease cost		\$	822,577	\$	774,662	\$	960,468		

Depreciation is included within "Cost of services" and "Selling, general and administrative expenses" in the accompanying consolidated statements of operations.

Quanta has entered into arrangements with certain related parties to lease certain real property and facilities. Typically, the parties are employees of Quanta who are also the former owners of businesses acquired by Quanta, and the real properties and facilities continue to be utilized by Quanta subsequent to the acquisitions. Quanta utilizes third party market valuations to evaluate rental rates for these properties and facilities, and the lease agreements generally have remaining lease terms of up to ten years, subject to renewal options. Related party lease expense was \$13.9 million, \$14.3 million and \$16.7 million for the years ended December 31, 2021, 2020 and 2019.

The components of leases in the accompanying consolidated balance sheets were as follows (in thousands):

		Decem	ber 31,	
Lease type	Classification	2021		2020
Assets:				
Operating lease right-of-use assets	Operating lease right-of-use assets	\$ 240,605	\$	256,845
Finance lease assets	Property and equipment, net of accumulated depreciation	2,415		2,370
Total lease assets		\$ 243,020	\$	259,215
Liabilities:				
Current:				
Operating	Current portion of operating lease liabilities	\$ 78,251	\$	85,134
Finance	Current maturities of long-term debt and short-term debt	1,156		846
Non-current:				
Operating	Operating lease liabilities, net of current portion	170,427		178,822
Finance	Long-term debt, net of current maturities	1,390		1,382
Total lease liabilities		\$ 251,224	\$	266,184

Certain of Quanta's equipment rental agreements contain purchase options pursuant to which the purchase price is offset by a portion of the rental payments. When rental purchase options are exercised and a substantive benefit is deemed to be transferred to a third-party lessor, the transaction is deemed to be a financing transaction for accounting purposes. This results in the recognition of an asset equal to the purchase price being recorded in "Property, plant and equipment, net of accumulated depreciation," and the recognition of a corresponding liability in "Current maturities of long-term debt and short-term debt" and "Long-term debt, net of current maturities." As of December 31, 2021 and 2020, the assets recorded, net of accumulated depreciation, totaled \$53.9 million and \$45.7 million.

<sup>(2)</sup> Short-term lease cost includes both leases and rentals with initial terms of one year or less. Variable lease cost is insignificant.

Future minimum lease payments for operating and finance leases were as follows (in thousands):

	As of December 31, 2021							
	Operating Leases		Finance Leases			Total		
2022	\$	85,427	\$	1,185	\$	86,612		
2023		63,890		907		64,797		
2024		44,113		423		44,536		
2025		30,638		137		30,775		
2026		20,602		_		20,602		
Thereafter		23,866				23,866		
Total future minimum operating and finance lease payments		268,536		2,652		271,188		
Less imputed interest		(19,858)		(106)		(19,964)		
Total lease liabilities	\$	248,678	\$	2,546	\$	251,224		

Future minimum lease payments for short-term leases, which are not recorded in the consolidated balance sheets due to Quanta's accounting policy election, were \$14.0 million as of December 31, 2021. Month-to-month rental expense associated primarily with certain equipment rentals is excluded from these amounts because Quanta is unable to accurately predict future rental amounts.

The weighted average remaining lease terms and discount rates were as follows:

	As of Decem	ber 31,
	2021	2020
Weighted average remaining lease term (in years):		
Operating leases	4.25	4.28
Finance leases	2.57	3.06
Weighted average discount rate:		
Operating leases	3.7 %	4.2 %
Finance leases	3.3 %	4.1 %

Quanta has also guaranteed the residual value under certain of its equipment operating leases, agreeing to pay any difference between this residual value and the fair market value of the underlying asset at the date of lease termination. As of December 31, 2021, the maximum guaranteed residual value of this equipment was \$891.8 million. While Quanta believes that no significant payments will be made as a result of these residual value guarantees, there can be no assurance that significant payments will not be required in the future.

#### 12. INCOME TAXES:

U.S. federal and state and foreign income tax laws and regulations are voluminous and often ambiguous. As such, Quanta is required to make many subjective assumptions and judgments regarding its tax positions that could materially affect amounts recognized in its future consolidated balance sheets, statements of operations and statements of comprehensive income.

The components of income before income taxes were as follows (in thousands):

	Year Ended December 31,							
		2021		2020		2019		
Income before income taxes:								
Domestic	\$	534,302	\$	632,791	\$	550,676		
Foreign		88,599		(61,445)		21,611		
Total	\$	622,901	\$	571,346	\$	572,287		

The components of the provision for income taxes were as follows (in thousands):

	Year Ended December 31,						
	2021		2020			2019	
Current:							
Federal	\$	65,273	\$	134,538	\$	121,214	
State		32,930		45,610		35,329	
Foreign		6,644		(745)		16,848	
Total current tax provision		104,847		179,403		173,391	
Deferred:							
Federal		27,762		(46,251)		7,379	
State		(2,418)		(3,850)		(1,776)	
Foreign		727		(9,915)		(13,522)	
Total deferred tax provision (benefit)		26,071		(60,016)		(7,919)	
Total provision for income taxes	\$	130,918	\$	119,387	\$	165,472	

The actual income tax provision differed from the income tax provision computed by applying the U.S. federal statutory corporate rate to income before provision for income taxes as follows (in thousands):

	Year Ended December 31,						
		2021		2020		2019	
Provision at the statutory rate	\$	130,809	\$	119,983	\$	120,180	
Increases (decreases) resulting from —							
State taxes		27,204		31,791		23,399	
Valuation allowance on deferred tax assets		6,107		(31,138)		35,761	
Employee per diems, meals and entertainment		3,569		10,680		13,817	
Contingency reserves, net		844		(2,125)		(3,173)	
Company-owned life insurance		(6,969)		_		_	
Taxes on joint ventures		(8,825)		(3,466)		(930)	
Foreign taxes		(9,359)		(7,268)		(21,565)	
Stock-based compensation		(21,271)		(3,109)		(1,863)	
Other		8,809		4,039		(154)	
Total provision for income taxes	\$	130,918	\$	119,387	\$	165,472	

Deferred income taxes result from temporary differences in the recognition of income and expenses for financial reporting purposes and tax purposes. The tax effects of these temporary differences, representing deferred tax assets and liabilities, result principally from the following (in thousands):

	 December 31,			
	2021	2020		
Deferred income tax liabilities:				
Property and equipment	\$ (278,303) \$	(236,256)		
Goodwill	 (93,632)	(85,467)		
Leased assets	 (76,728)	(77,344)		
Customer holdbacks	 (32,661)	(30,457)		
Other intangible assets	 _	(4,438)		
Total deferred income tax liabilities	 (481,324)	(433,962)		
Deferred income tax assets:				
Net operating loss carryforwards	 78,947	82,817		
Lease liabilities	 76,608	76,826		
Accruals and reserves	 65,852	70,335		
Stock and incentive compensation	 50,772	36,590		
Tax credits	 39,826	42,202		
Other intangible assets	 19,110	_		
Deferred tax benefits on unrecognized tax positions	 10,090	10,108		
Other	 7,535	9,617		
Subtotal	 348,740	328,495		
Valuation allowance	(41,308)	(43,255)		
Total deferred income tax assets	 307,432	285,240		
Total net deferred income tax liabilities	\$ (173,892) \$	(148,722)		

The net deferred income tax assets and liabilities comprised the following in the accompanying consolidated balance sheets (in thousands):

	December 31,				
		2021		2020	
Deferred income taxes:					
Assets	\$	17,206	\$	17,685	
Liabilities		(191,098)		(166,407)	
Total net deferred income tax liabilities	\$	(173,892)	\$	(148,722)	

The valuation allowances for deferred income tax assets at December 31, 2021, 2020 and 2019 were \$41.3 million, \$43.3 million and \$104.2 million. These valuation allowances relate to state and foreign net operating loss carryforwards and foreign tax credits. The net changes in the total valuation allowance for each of the years ended December 31, 2021, 2020 and 2019 were a decrease of \$1.9 million, a decrease of \$60.9 million and an increase of \$36.6 million. The change in valuation allowance during the year ended December 31, 2021 resulted in a \$6.1 million increase in tax expense due to approximately \$8.5 million of new valuation allowances primarily recorded on foreign net operating losses, which was partially offset by a \$2.4 million valuation allowance release recorded due to the completion of certain internal restructuring efforts that increased management's visibility into future utilization of certain state net operation losses. The total valuation allowance was reduced by \$1.9 million from December 31, 2020 to December 31, 2021 as a result of a reduction of \$8.0 million due to the expiration of certain net operating losses, for which a valuation allowance had previously been recorded, as well as currency translation adjustments on previously recorded valuation allowances, offset by an increase to the valuation allowance as a result of the \$6.1 million of new valuation allowances as noted above. The change in valuation allowance during the year ended December 31, 2020 resulted in a \$31.1 million reduction in tax expense, primarily due to a release of \$45.1 million of valuation allowance on foreign tax credits due to the completion of an internal financial reorganization, which was partially offset by the establishment of \$14.0 million of new valuation allowances on deferred tax assets generated during the year ended December 31, 2020. The

total change in valuation allowance for the year ended December 31, 2020 was a \$60.9 million reduction, primarily due to the removal of approximately \$29.4 million of foreign net operating losses that were no longer eligible to be carried forward as well as the \$31.1 million reduction noted above. The valuation allowances were established primarily as a result of uncertainty in Quanta's outlook as to the amount and character of future taxable income in particular tax jurisdictions. Quanta believes it is more likely than not that it will realize the benefit of its deferred tax assets net of existing valuation allowances.

At December 31, 2021, Quanta had state and foreign net operating loss carryforwards, the tax effect of which was \$80.0 million. These carryforwards will expire as follows: 2022, \$0.2 million; 2023, \$0.7 million; 2024, \$0.1 million; 2025, \$6.2 million; 2026, \$0.4 million; and \$72.4 million thereafter. A valuation allowance of \$40.0 million has been recorded against certain foreign and state net operating loss carryforwards.

Quanta generally does not provide for taxes related to undistributed earnings of its foreign subsidiaries because such earnings either would not be taxable when remitted or they are considered to be indefinitely reinvested. Quanta could also be subject to additional foreign withholding taxes if it were to repatriate cash that is indefinitely reinvested outside the United States, but it does not expect such amount to be material.

A reconciliation of unrecognized tax benefit balances is as follows (in thousands):

Balance at beginning of year         2021         2020         2019           Additions based on tax positions related to the current year         \$ 33,219         \$ 40,878         \$ 41,110           Additions based on tax positions related to the current year         6,881         4,398         7,708		December 31,					
			2021		2020		2019
Additions based on tax positions related to the current year 6,881 4,398 7,708	Balance at beginning of year	\$	33,219	\$	40,878	\$	41,110
i , , , , , , , , , , , , , , , , , , ,	Additions based on tax positions related to the current year		6,881		4,398		7,708
Additions for tax positions of prior years 2,339 — 1,200	Additions for tax positions of prior years		2,339		_		1,200
Reductions for tax positions of prior years — (2,410) —	Reductions for tax positions of prior years		_		(2,410)		_
Reductions for audit settlements — (930) (3,205)	Reductions for audit settlements		_		(930)		(3,205)
Reductions resulting from a lapse of the applicable statute of limitations periods (4,702) (8,717) (5,935)			(4,702)		(8,717)		(5,935)
Balance at end of year <u>\$ 37,737</u> <u>\$ 33,219</u> <u>\$ 40,878</u>	Balance at end of year	\$	37,737	\$	33,219	\$	40,878

As of December 31, 2021, the total amount of unrecognized tax benefits relating to uncertain tax positions was \$37.7 million, an increase of \$4.5 million from December 31, 2020. This aggregate increase resulted primarily from reserves for uncertain tax positions taken in 2021. For the year ended December 31, 2020, the \$12.1 million of aggregate reductions were primarily due to the favorable settlement of U.S. and Canadian tax audits and the expiration of U.S. federal and state statutes of limitations. For the year ended December 31, 2019, the \$9.1 million of aggregate reductions were primarily due to the favorable settlement of certain non-U.S. income tax obligations of an acquired business and the expiration of U.S. state income tax statutes of limitations.

The balances of unrecognized tax benefits, the amount of related interest and penalties and what Quanta believes to be the range of reasonably possible changes in the next 12 months are as follows (in thousands):

	December 31,				
	2021	2020	2019		
Unrecognized tax benefits	\$ 37,737	\$ 33,219	\$ 40,878		
Portion that, if recognized, would reduce tax expense and effective tax rate	34,967	30,868	40,695		
Accrued interest on unrecognized tax benefits	4,369	5,204	6,240		
Accrued penalties on unrecognized tax benefits	1,587	14	14		
Reasonably possible reduction to the balance of unrecognized tax benefits in succeeding 12 months	\$0 to \$8,098	\$0 to \$11,859	\$0 to \$6,268		
Portion that, if recognized, would reduce tax expense and effective tax rate	\$0 to \$7,277	\$0 to \$10,217	\$0 to \$5,693		

Quanta classifies interest and penalties within the provision for income taxes. Quanta recognized interest income of \$0.8 million, interest income of \$0.7 million and interest expense of \$0.8 million in the provision for income taxes for the years ended December 31, 2021, 2020 and 2019.

Quanta's consolidated federal income tax return for tax year 2019 is currently under examination by the Internal Revenue Service (IRS), and Quanta's consolidated federal income tax returns for tax years 2017, 2018, and 2020 remain open to

examination by the IRS, as these statute of limitations periods have not yet expired. Additionally, various state and foreign tax returns filed by Quanta and certain subsidiaries for multiple periods remain under examination by various U.S. state and foreign tax authorities. Quanta does not consider any state in which it does business to be a major tax jurisdiction.

#### 13. EQUITY:

#### Treasury Stock

General

Treasury stock is recorded at cost. Under Delaware law, treasury stock is not counted for quorum purposes or entitled to vote.

Shares withheld for tax withholding obligations

The tax withholding obligations of employees with respect to RSUs and PSUs that are settled in common stock are typically satisfied by Quanta making tax payments and withholding the number of common shares having a value equal to the tax withholding obligation that is due on the date of vesting or settlement (as applicable). With respect to these liabilities, Quanta withheld 0.8 million shares of Quanta common stock during the year ended December 31, 2021, which had a market value of \$65.3 million, 0.6 million shares of Quanta common stock during the year ended December 31, 2020, which had a market value of \$25.5 million, and 0.5 million shares of Quanta common stock during the year ended December 31, 2019, which had a market value of \$17.4 million. These shares and the related costs to acquire them were accounted for as adjustments to the balance of treasury stock.

Notional amounts recorded related to deferred compensation plans

For RSUs and PSUs that vest but the settlement of which is deferred under a deferred compensation plan, Quanta records a notional amount to "Treasury stock" and an offsetting amount to "Additional paid-in capital." At vesting, only shares withheld for tax liabilities other than income taxes are added to outstanding treasury shares, as the shares of Quanta common stock associated with deferred stock-based awards are not issued until settlement of the award. Upon settlement of the deferred stock-based awards and issuance of the associated Quanta common stock, the original accounting entry is reversed. The net amounts recorded to treasury stock related to the deferred compensation plans were a reduction to treasury stock of \$6.8 million, a reduction to treasury stock of \$4.4 million and an increase to treasury stock of \$3.0 million during the years ended December 31, 2021, 2020 and 2019.

### Stock repurchases

During the third quarter of 2018, Quanta's Board of Directors approved a stock repurchase program that authorized Quanta to purchase up to \$500.0 million of its outstanding common stock, which was completed in 2021. In August 2020, Quanta's Board of Directors approved a stock repurchase program that authorized Quanta to repurchase, from time to time through June 30, 2023, up to an additional \$500.0 million in shares of its outstanding common stock, and as of December 31, 2021, \$472.8 million remained available under this repurchase program. Quanta repurchased the following shares of common stock in the open market under the stock repurchase programs based on the trade date (in thousands):

Year ended:	Shares	 Amount	
December 31, 2021	721	\$ 63,988	
December 31, 2020.	6,680	\$ 249,949	
December 31, 2019.	376	\$ 11,954	

Repurchases may be implemented through open market repurchases or privately negotiated transactions, at management's discretion, based on market and business conditions, applicable contractual and legal requirements, including restrictions under Quanta's senior credit facility, and other factors. Quanta is not obligated to acquire any specific amount of common stock, and the repurchase program may be modified or terminated by Quanta's Board of Directors at any time at its sole discretion and without notice.

Quanta's policy is to record a stock repurchase as of the trade date; however, the payment of cash related to the repurchase is made on the settlement date of the trade. During the years ended December 31, 2021, 2020 and 2019, cash payments related to stock repurchases were \$66.7 million, \$247.2 million and \$20.1 million.

### Non-controlling Interests

Quanta holds interests in various entities through both joint venture entities that provide infrastructure-related services under specific customer contracts, either directly or through subcontracting relationships, and other equity investments in partially owned entities that own and operate certain infrastructure assets, including investments entered into through the partnership structure Quanta formed with certain infrastructure investors. Quanta has determined that certain of these joint ventures where Quanta provides the majority of the infrastructure services, which management believes most significantly influences the economic performance of such joint ventures, are VIEs. Management has concluded that Quanta is the primary beneficiary of these joint ventures and has accounted for each on a consolidated basis. The other parties' equity interests in these joint ventures have been accounted for as "Non-controlling interests" in Quanta's consolidated balance sheets. Net income attributable to the other participants in the amounts of \$6.0 million, \$6.4 million and \$4.8 million for the years ended December 31, 2021, 2020 and 2019 have been accounted for as a reduction of net income in deriving "Net income attributable to common stock" in Quanta's consolidated statements of operations.

The carrying amount of the investments in VIEs held by Quanta was \$12.9 million and \$13.2 million at December 31, 2021 and 2020. The carrying amounts of investments held by the non-controlling interests in these VIEs were \$4.6 million and \$4.8 million at December 31, 2021 and 2020 and are included in "Non-controlling interests" in the consolidated balance sheets. During the years ended December 31, 2021, 2020 and 2019, net distributions to non-controlling interests were \$6.4 million, \$5.4 million and \$2.5 million. There were no other material changes in equity as a result of transfers to/from the non-controlling interests during the years ended December 31, 2021, 2020 or 2019. See Note 16 for further disclosures related to Quanta's joint venture arrangements.

### Dividends

Quanta declared and paid the following cash dividends and cash dividend equivalents during 2021, 2020 and 2019 (in thousands, except per share amounts):

Declaration Date	v		Dividend Per Share	Dividends Declared		
December 1, 2021	January 4, 2022	January 14, 2022	\$	0.07	\$	10,363
August 27, 2021	October 1, 2021	October 15, 2021	\$	0.06	\$	8,638
May 27, 2021	July 1, 2021	July 15, 2021	\$	0.06	\$	8,650
March 25, 2021	April 6, 2021	April 15, 2021	\$	0.06	\$	8,429
December 11, 2020	January 4, 2021	January 15, 2021	\$	0.06	\$	8,933
August 26, 2020	October 1, 2020	October 15, 2020	\$	0.05	\$	7,244
May 28, 2020	July 1, 2020	July 15, 2020	\$	0.05	\$	7,182
March 26, 2020	April 6, 2020	April 15, 2020	\$	0.05	\$	7,184
December 11, 2019	January 2, 2020	January 16, 2020	\$	0.05	\$	7,371
August 28, 2019	October 1, 2019	October 15, 2019	\$	0.04	\$	5,564
May 24, 2019	July 1, 2019	July 15, 2019	\$	0.04	\$	6,233
March 21, 2019	April 5, 2019	April 19, 2019	\$	0.04	\$	5,896
December 6, 2018	January 2, 2019	January 16, 2019	\$	0.04	\$	5,838

A significant majority of the dividends declared were paid on the corresponding payment dates. Holders of RSUs awarded under the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (the 2011 Plan) generally received cash dividend equivalent payments equal to the cash dividend payable on account of the underlying Quanta common stock. Holders of RSUs awarded under the Quanta Services, Inc. 2019 Omnibus Equity Incentive Plan (the 2019 Plan) and holders of unearned and unvested PSUs awarded under the 2011 Plan and the 2019 Plan receive cash dividend equivalent payments only to the extent such RSUs and PSUs become earned and/or vest. Additionally, cash dividend equivalent payments related to certain stock-based awards that have been deferred pursuant to the terms of a deferred compensation plan maintained by Quanta are recorded as liabilities in such plans until the deferred awards are settled.

The declaration, payment and amount of future cash dividends will be at the discretion of Quanta's Board of Directors after taking into account various factors, including Quanta's financial condition, results of operations and cash flows from operations; current and anticipated capital requirements and expansion plans; the current and potential impact of market, industry, economic and political conditions; income tax laws then in effect; and the requirements of Delaware law. In addition, as discussed in Note 10, Quanta's credit agreement restricts the payment of cash dividends unless certain conditions are met.

#### 14. STOCK-BASED COMPENSATION:

#### Stock Incentive Plans

The 2019 Plan was approved by Quanta's stockholders in May 2019 and provides for the award of non-qualified stock options, incentive (qualified) stock options, stock appreciation rights, restricted stock awards, RSUs, stock bonus awards, performance compensation awards (including cash bonus awards) or any combination of the foregoing. Current and prospective employees, directors, officers, advisors or consultants of Quanta or its affiliates are eligible to participate in the 2019 Plan. Subject to certain adjustments, the maximum number of shares available for issuance under the 2019 Plan is 7,466,592 shares, plus any shares underlying share-settling awards previously awarded pursuant to the 2011 Plan that are ultimately forfeited, canceled, expired or settled in cash subsequent to stockholder approval of the 2019 Plan. All awards subsequent to stockholder approval of the 2019 Plan have been and will be made pursuant to the 2019 Plan and applicable award agreements. Awards made under the 2011 Plan prior to approval of the 2019 Plan remain subject to the terms of the 2011 Plan and applicable award agreements.

#### RSUs to be Settled in Common Stock

A summary of the activity for RSUs to be settled in common stock for the years ended December 31, 2021, 2020 and 2019 is as follows (shares in thousands):

_	202	:1	202	20	2019			
	Shares	Weighted Average Grant Date Fair Value (Per share)	Shares	Weighted Average Grant Date Fair Value (Per share)	Shares	Weighted Average Grant Date Fair Value (Per share)		
Unvested at January 1	3,869	\$37.57	3,265	\$35.34	2,634	\$33.50		
Granted	1,642	\$94.83	2,029	\$39.91	2,142	\$35.62		
Vested	(1,476)	\$37.03	(1,269)	\$35.69	(1,349)	\$32.22		
Forfeited	(155)	\$48.52	(156)	\$36.67	(162)	\$35.20		
Unvested at December 31	3,880	\$61.64	3,869	\$37.57	3,265	\$35.34		

The grant date fair value for RSUs to be settled in common stock is based on the market value of Quanta common stock on the date of grant. RSU awards to be settled in common stock are subject to forfeiture, restrictions on transfer and certain other conditions until vesting, which generally occurs in three equal annual installments following the date of grant or over a period of five to ten years following the date of grant. Holders of RSUs to be settled in common stock awarded under the 2011 Plan generally are entitled to receive a cash dividend equivalent payment equal to any cash dividend payable on account of the underlying Quanta common stock on the payment date of any such dividend. Holders of RSUs to be settled in common stock awarded under the 2019 Plan are entitled to cash dividend equivalent payments in an amount equal to any cash dividend payable on account of the underlying Quanta common stock; however, payment of such amounts is not made until the RSUs vest, such that the dividend equivalent payments are subject to forfeiture. The approximate fair values of RSUs settled in common stock during the years ended December 31, 2021, 2020 and 2019 were \$125.7 million, \$51.6 million and \$48.7 million, respectively.

During the years ended December 31, 2021, 2020 and 2019, Quanta recognized \$67.3 million, \$55.7 million and \$45.5 million of non-cash stock compensation expense related to RSUs to be settled in common stock. Such expense is recorded in "Selling, general and administrative expenses." As of December 31, 2021, there was \$139.5 million of total unrecognized compensation expense related to unvested RSUs to be settled in common stock granted to both employees and non-employees. This cost is expected to be recognized over a weighted average period of 4.54 years.

### PSUs to be Settled in Common Stock

A summary of the activity for PSUs to be settled in common stock for the years ended December 31, 2021, 2020 and 2019 is as follows (shares in thousands):

_	2021 2020			20	2019			
_	Shares	Weighted Average Grant Date Fair Value (Per share)	Shares	Weighted Average Grant Date Fair Value (Per share) (1)	Shares	Weighted Average Grant Date Fair Value (Per share)		
Unvested at January 1	1,047	\$37.65	848	\$40.04	775	\$34.72		
Granted	174	\$90.44	437	\$34.60	358	\$40.15		
Vested	(268)	\$38.28	(238)	\$41.87	(236)	\$22.73		
Forfeited	(22)	\$41.86	_	N/A	(49)	\$40.07		
Unvested at December 31	931	\$47.27	1,047	\$37.65	848	\$40.04		

<sup>(1)</sup> Certain weighted average grant date fair value per share amounts related to the year ended December 31, 2020 have been recast to conform to the correction of the valuation of PSUs described below.

PSUs provide for the issuance of shares of common stock upon vesting, which occurs at the end of a three-year performance period based on achievement of certain company performance metrics established by the Compensation Committee of Quanta's Board of Directors, including financial and operational goals and Quanta's total shareholder return as compared to a predetermined group of peer companies. The final number of shares of common stock issuable upon vesting of PSUs can range from 0% to 200% of the number of PSUs initially granted, depending on the level of achievement, as determined by the Compensation Committee of Quanta's Board of Directors. Holders of PSUs are entitled to cash dividend equivalent payments in an amount equal to any cash dividend payable on account of the underlying Quanta common stock; however, payment of such amounts is not made until the PSUs vest, such that the dividend equivalent payments are subject to forfeiture.

The grant date fair values of the PSUs were determined as follows: (i) for the portion of the awards based on company financial and operational performance metrics, by utilizing the closing price of Quanta's common stock on the date of grant and (ii) for the portion of the awards based on total shareholder return, by utilizing a Monte Carlo simulation valuation methodology. The Monte Carlo simulation valuation methodology applied the following key inputs:

	2021	2020	2019
Valuation date price based on March 25, 2021, March 26, 2020 and March 8, 2019 closing stock prices of Quanta common stock	\$83.48	\$31.49	\$35.19
Expected volatility	36 %	34 %	25 %
Risk-free interest rate	0.26 %	0.35 %	2.43 %
Term in years	2.77	2.76	2.81

Quanta recognizes expense, net of estimated forfeitures, for PSUs based on the forecasted achievement of the company financial and operational performance metrics and forecasted performance with respect to relative total shareholder return, multiplied by the completed portion of the three-year period and the fair value of the total number of shares of common stock that Quanta anticipates will be issued based on such achievement. During the years ended December 31, 2021, 2020 and 2019, Quanta recognized \$21.0 million, \$35.9 million and \$6.5 million in compensation expense associated with PSUs. Such expense is recorded in "Selling, general and administrative expenses." Included in compensation expense associated with PSUs during the year ended December 31, 2020 was a charge of \$14.0 million to correct the valuation of certain PSUs during the years 2017 to 2019, \$7.2 million of which related to 2019. Quanta assessed the materiality of the prior period error and determined that the error was immaterial to both the current and prior period financial statements. As of December 31, 2021, there was \$17.5 million of total unrecognized compensation expense related to unvested PSUs to be settled in common stock granted to both employees and non-employees based on currently estimated levels of attainment of established performance goals. The compensation expense related to outstanding PSUs can vary from period to period based on changes in forecasted achievement of established performance goals and the total number of shares of common stock that Quanta anticipates will be issued upon vesting of such PSUs. Compensation cost related to PSUs outstanding at December 31, 2021 is expected to be recognized over a weighted average period of 1.66 years.

During the year ended December 31, 2021, 2020 and 2019, 0.5 million, 0.5 million and 0.4 million shares of common stock were earned and either issued or deferred for future issuance in connection with PSUs. The approximate fair values of

PSUs settled in common stock during the years ended December 31, 2021, 2020 and 2019 were \$45.2 million, \$18.3 million and \$13.1 million, respectively.

#### RSUs to be Settled in Cash

Certain RSUs granted by Quanta are settled solely in cash. These cash-settled RSUs are intended to provide plan participants with cash performance incentives that are substantially equivalent to the risks and rewards of stock ownership in Quanta, typically vest in three equal annual installments following the date of grant, and are subject to forfeiture under certain conditions, primarily termination of service. Additionally, subject to certain restrictions, Quanta's non-employee directors may elect to settle a portion of their RSU awards in cash. For RSUs settled in cash, the holders receive for each vested RSU an amount in cash equal to the fair market value of one share of Quanta common stock on the settlement date, as specified in the applicable award agreement.

Compensation expense related to RSUs to be settled in cash was \$17.4 million, \$9.4 million and \$5.9 million for the years ended December 31, 2021, 2020 and 2019. Such expense is recorded in "Selling, general and administrative expenses." RSUs that are anticipated to be settled in cash are not included in the calculation of weighted average shares outstanding for earnings per share, and the estimated earned value of such RSUs is classified as a liability. Quanta paid \$13.2 million, \$4.3 million and \$5.4 million to settle liabilities related to cash-settled RSUs in the years ended December 31, 2021, 2020 and 2019. Accrued liabilities for the estimated earned value of outstanding RSUs to be settled in cash were \$11.1 million and \$8.7 million at December 31, 2021 and 2020.

### 15. EMPLOYEE BENEFIT PLANS:

### Unions' Multiemployer Pension Plans

Quanta contributes to a number of multiemployer defined benefit pension plans under the terms of collective bargaining agreements with various unions that represent certain of Quanta's employees. Approximately 35% of Quanta's employees at December 31, 2021 were covered by collective bargaining agreements. Quanta's multiemployer pension plan contribution rates generally are specified in the collective bargaining agreements (usually on a monthly or annual basis), and contributions are made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. Quanta may also have additional liabilities imposed by law as a result of its participation in multiemployer defined benefit pension plans. The Employee Retirement Income Security Act of 1974, as amended by the Multiemployer Pension Plan Amendments Act of 1980, imposes certain liabilities upon an employer who is a contributor to a multiemployer pension plan if the employer withdraws or is deemed to have withdrawn from the plan or the plan is terminated or experiences a mass withdrawal.

The Pension Protection Act of 2006 (PPA) also added special funding and operational rules generally applicable to plan years beginning after 2007 for multiemployer plans in the United States that are classified as "endangered," "seriously endangered" or "critical" status based on multiple factors (including, for example, the plan's funded percentage, cash flow position and whether a projected minimum funding deficiency exists). Plans in these classifications must adopt remedial measures to improve their funded status through a funding improvement or rehabilitation plan, as applicable, which may require additional contributions from employers (which may take the form of a surcharge on benefit contributions) and/or modifications to retire benefits. Certain plans to which Quanta contributes or may contribute in the future are in "endangered," "seriously endangered" or "critical" status. The amount of additional funds, if any, that Quanta may be obligated to contribute to these plans cannot be reasonably estimated due to uncertainty regarding the amount of future work involving covered union employees, future contribution levels and possible surcharges on plan contributions.

The following table summarizes plan information relating to Quanta's participation in multiemployer defined benefit pension plans, including company contributions for the last three years, the status of the plans under the PPA and whether the plans are subject to a funding improvement or rehabilitation plan or contribution surcharges. The most recent PPA zone status available in 2021 and 2020 relates to the plans' fiscal year-ends in 2020 and 2019. Forms 5500 were not yet available for the plan years ending in 2021. The PPA zone status is based on information that Quanta received from the respective plans, as well as publicly available information on the U.S. Department of Labor website, and is certified by the plan's actuary. Although multiple factors or tests may result in red zone or yellow zone status, plans in the red zone generally are less than 65 percent funded, plans in the yellow zone generally are less than 80 percent funded, and plans in the green zone generally are at least 80 percent funded. Under the PPA, red zone plans are classified as "critical" status, yellow zone plans are classified as "endangered" status and green zone plans are classified as neither "endangered" nor "critical" status. The "Subject to Financial Improvement/ Rehabilitation Plan" column indicates plans for which a financial improvement plan or a rehabilitation plan is either pending or has been implemented. The last column lists the expiration dates of Quanta's collective-bargaining agreements to which the plans are subject. Total contributions to these plans correspond to the number of union employees employed at any given time and the plans in which they participate and vary depending upon the location and number of

ongoing projects at a given time and the need for union resources in connection with such projects. Information has been presented separately for individually significant plans, based on PPA funding status classification, and in the aggregate for all other plans.

	Employee Identification Number/		Zone atus	Subject to Financial Improve- ment/ Reha-	Contrib	outions (in t	housands)	Sur-	Expiration Date of Collective
Fund	Pension Plan Number	2021	2020	bilitation Plan	2021	2020	2019	charge Imposed	Bargaining Agreement
National Electrical Benefit Fund	53-0181657	Green	Green	No	\$ 38,195	\$ 40,902	\$ 44,414	No	Varies through May 2026
Excavators Union Local 731 Pension Fund	13-1809825	Green	Green	No	16,202	14,310	6,697	No	April 2022
Central Pension Fund of the IUOE & Participating Employers	36-6052390	Green	Green	No	11,237	8,467	11,638	No	Varies through May 2024
Pipeline Industry Pension Fund	73-6146433	Green	Green	No	5,081	3,654	9,376	No	Varies through June 2023
Laborers Pension Trust Fund for Northern California	94-6277608	Green	Green	No	4,479	2,328	2,823	No	Varies through May 2024
Operating Engineers' Local 324 Pension Fund	38-1900637	Red	Red	Yes	2,789	2,629	4,315	No	Varies through June 2023
IBEW Local 1249 Pension Plan	15-6035161	Green	Green	No	2,667	530	771	No	Varies through May 2025
Local 697 IBEW and Electrical Industry Pension Fund	51-6133048	Green	Green	No	2,229	1,840	3,717	No	May 2025
Pension Trust Fund for Operating Engineers	94-6090764	Yellow	Yellow	Yes	1,755	1,177	956	No	June 2023
Eighth District Electrical Pension Fund	84-6100393	Green	Green	No	1,599	4,272	5,939	No	Varies through August 2024
Laborers District Council of W PA Pension Fund	25-6135576	Yellow	Yellow	Yes	1,375	77	1,194	No	Varies through May 2024
Teamsters National Pipe Line Pension Plan	46-1102851	Green	Green	No	1,276	1,380	3,039	No	Varies through June 2023
Operating Engineers Pension Trust	95-6032478	Yellow	Yellow	Yes	1,143	172	119	No	Varies through June 2023
Laborers National Pension Fund	75-1280827	Red	Red	Yes	1,049	638	1,910	No	Varies through May 2024
Plumbers and Pipefitters National Pension Fund	52-6152779	Yellow	Yellow	Yes	932	1,453	1,162	No	Varies through March 2023
Michigan Laborers' Pension Plan.	38-6233976	Yellow	Yellow	Yes	737	512	1,491	No	Varies through May 2024
Employer-Teamsters Local Nos 175 & 505 Pension Trust Fund	55-6021850	Red	Red	Yes	151	48	530	No	June 2023
All other plans - U.S.					37,306	30,829	27,655		
All other plans - Canada (1)					2,794	6,760	6,451		
Total contributions					\$132,996	\$121,978	\$134,197		

Multiemployer defined benefit pension plans in Canada are not subject to the reporting requirements under the PPA. Accordingly, certain information was not publicly available.

Quanta's contributions to the following individually significant plans were five percent or more of the total contributions to these plans for the periods indicated based on the Forms 5500 for these plans for the years ended December 31, 2020 and 2019. Forms 5500 were not yet available for these plans for the year ended December 31, 2021.

Pension Fund	Contributions Were Five Percent or More of Total Plan Contributions
Excavators Union Local 731 Pension Fund	2020
National Electrical Benefit Fund	2020 and 2019
Pipeline Industry Pension Fund	2020 and 2019
Local 697 IBEW and Electrical Industry Pension Fund	2020 and 2019
Eighth District Electrical Pension Fund	2020 and 2019
Teamsters National Pipe Line Pension Plan	2020 and 2019
IBEW Local 456 Pension Plan (1)	2020 and 2019
Local Union No. 9 IBEW and Outside Contractors Pension Fund (1)	2020 and 2019
West Virginia Laborers Pension Trust Fund (1)	2019

<sup>(1)</sup> This plan is included in the "All other plans - U.S." category in the prior table.

In addition to the contributions made to multiemployer defined benefit pension plans noted above, Quanta also contributed to multiemployer defined contribution or other benefit plans on behalf of certain union employees. Contributions to union multiemployer defined contribution or other benefit plans by Quanta were \$213.4 million, \$188.6 million and \$201.3 million for the years ended December 31, 2021, 2020 and 2019. Total contributions made to all of these multiemployer plans correspond to the number of union employees employed at any given time and the plans in which they participate and vary depending upon the location and number of ongoing projects at a given time and the need for union resources in connection with such projects.

### Quanta 401(k) Plan

Quanta maintains a 401(k) plan pursuant to which employees who are not provided retirement benefits through a collective bargaining agreement may make contributions through a payroll deduction. Quanta makes matching cash contributions of 100% of each employee's contribution up to 3% of that employee's salary and 50% of each employee's contribution between 3% and 6% of such employee's salary, up to the maximum amount permitted by law. Contributions to the 401(k) plan by Quanta were \$50.7 million, \$45.9 million and \$41.4 million for the years ended December 31, 2021, 2020 and 2019.

### **Deferred Compensation Plans**

Quanta maintains non-qualified deferred compensation plans pursuant to which non-employee directors and certain key employees may defer receipt of some or all of their cash compensation and/or settlement of certain stock-based awards, subject to certain limitations. These plans are unfunded and unsecured compensation arrangements. Individuals participating in these plans may allocate deferred cash amounts among a group of notional accounts that mirror the gains and losses of various investment alternatives. Generally, participants receive distributions of deferred balances based on predetermined payout schedules or other events.

The plan covering key employees provides for employer matching contributions for certain officers and employees whose benefits under the 401(k) plan are limited by federal tax law. Quanta may also make discretionary employer contributions to such plan. Matching contributions vest immediately, and discretionary employer contributions may be subject to a vesting schedule determined at the time of the contribution, provided that vesting accelerates upon a change in control or the participant's death or retirement. All matching and discretionary employer contributions, whether vested or not, are forfeited upon a participant's termination of employment for cause or upon the participant engaging in competition with Quanta or any of its affiliates.

Quanta made matching contributions to the eligible participants' accounts under the deferred compensation plans of \$1.4 million, \$1.3 million and \$1.1 million during the years ended December 31, 2021, 2020 and 2019 and did not make discretionary contributions during those years. At December 31, 2021 and 2020, the deferred compensation liability under these plans, including amounts contributed by Quanta, was \$74.2 million and \$58.2 million, the majority of which was included in "Insurance and other non-current liabilities" in the accompanying consolidated balance sheets. To provide for future obligations related to these deferred compensation plans, Quanta has invested in COLI policies covering certain participants in the deferred compensation plans, the underlying investments of which are intended to be aligned with the investment alternatives elected by

plan participants. The COLI policies are recorded at their cash surrender value, which is considered their fair market value, and at December 31, 2021 and 2020, the fair market values were \$73.8 million and \$56.5 million and were included in "Other assets, net" in the accompanying consolidated balance sheets.

During the years ended December 31, 2021, 2020 and 2019, the fair market value of the COLI policies increased \$8.6 million, \$6.9 million and \$7.9 million. These changes in fair market value of the COLI policies are recorded in "Other income, net" and were largely offset by corresponding changes in the fair market value of the liabilities associated with our deferred compensation plan, which are recorded in "Selling, general and administrative expenses." During the years ended December 31, 2021, 2020 and 2019, the deferred compensation liability increased \$10.4 million, \$7.5 million and \$9.3 million.

### 16. COMMITMENTS AND CONTINGENCIES:

### Investments in Affiliates and Other Entities

As described in Notes 2, 8 and 13, Quanta holds investments in various entities, including joint venture entities that provide infrastructure-related services under specific customer contracts and partially owned entities that own, operate and/or maintain certain infrastructure assets.

If losses are incurred by entities in which Quanta holds an interest, they are generally shared ratably based on the percentage ownership of the participants in the structures. However, in Quanta's joint venture structures that provide infrastructure-related services, each participant is typically jointly and severally liable for all of the obligations of the joint venture entity pursuant to the contract with the customer, and therefore Quanta can be liable for full performance of the contract with the customer. Additionally, in circumstances where Quanta's participation in a joint venture qualifies as a general partnership, Quanta can be liable for all obligations of the joint venture, including obligations owed to the customer or any other person or entity. Quanta is not aware of circumstances that would lead to future claims against it for material amounts in connection with these liabilities. Additionally, typically each joint venture participant agrees to indemnify the other participant for any liabilities incurred in excess of what the other participant is obligated to bear under the respective joint venture agreement or in accordance with the scope of work subcontracted to each participant. It is possible, however, that Quanta could be required to pay or perform obligations in excess of its share if another participant is unable or refuses to pay or perform its share of the obligations. Quanta is not aware of circumstances that would lead to future claims against it for material amounts that would not be indemnified. However, to the extent any such claims arise, they could be material and could adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows.

### Committed Expenditures

Quanta has capital commitments for the expansion of its equipment fleet in order to accommodate manufacturer lead times on certain types of vehicles. As of December 31, 2021, Quanta had \$96.0 million of production orders with expected delivery dates in 2022, \$71.3 million of which is anticipated to occur in the first half of 2022. Although Quanta has committed to purchase these vehicles at the time of their delivery, Quanta anticipates that the majority of these orders will be assigned to third-party leasing companies and made available under certain master equipment lease agreements, thereby releasing Quanta from its capital commitments.

### Legal Proceedings

Quanta is from time to time party to various lawsuits, claims and other legal proceedings that arise in the ordinary course of business. These actions typically seek, among other things, compensation for alleged personal injury, property damage, breach of contract, negligence or gross negligence, environmental liabilities, wage and hour and other employment-related damages, punitive damages, consequential damages, civil penalties or other losses, or injunctive or declaratory relief. With respect to all such lawsuits, claims and proceedings, Quanta records a reserve when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. Quanta evaluates which potential liabilities are probable and the related range of reasonably estimated losses and records a reserve that reflects its best estimate or the lower end of the range, if there is no better estimate. In addition, Quanta discloses matters for which management believes a material loss is at least reasonably possible.

The assessment of whether a loss is probable or reasonably possible, and whether the loss or a range of loss is estimable, often involves a series of complex judgments about future events. In all instances, management has assessed the matter based on current information and made a judgment concerning its potential outcome, giving due consideration to the nature of the claim, the amount and nature of damages sought and the probability of success and taking into account, among other things, negotiations with claimants, discovery, settlements and payments, judicial rulings, arbitration and mediation decisions, advice of internal and external legal counsel, and other information and events pertaining to a particular matter. Costs incurred for litigation are expensed as incurred. Except as otherwise stated below, none of these proceedings are expected to have a material

adverse effect on Quanta's consolidated financial position, results of operations or cash flows. However, management's judgment may prove materially inaccurate, and such judgment is made subject to the known uncertainties of litigation.

Peru Project Dispute

In 2015, Redes Andinas de Comunicaciones S.R.L. (Redes), a majority-owned subsidiary of Quanta, entered into two separate contracts with an agency of the Peruvian Ministry of Transportation and Communications (MTC), currently Programa Nacional de Telecomunicaciones (PRONATEL), as successor to Fondo de Inversion en Telecomunicaciones (FITEL), pursuant to which Redes would design, construct and operate certain telecommunication networks in rural regions of Peru. The aggregate consideration provided for in the contracts was approximately \$248 million, consisting of approximately \$151 million to be paid during the construction period and approximately \$97 million to be paid during a 10-year post-construction operation and maintenance period. At the beginning of the project, FITEL made advance payments totaling approximately \$87 million to Redes, which were secured by two on-demand advance payment bonds posted by Redes to guarantee proper use of the payments in the execution of the project. Redes also provided two on-demand performance bonds in the aggregate amount of \$25 million to secure performance of its obligations under the contracts.

During the construction phase, the project experienced numerous challenges and delays, primarily related to issues which Quanta believes were outside of the control of and not attributable to Redes, including, among others, weather-related issues, local opposition to the project, permitting delays, the inability to acquire clear title to certain required parcels of land and other delays which Quanta believes were attributable to FITEL/PRONATEL. In response to various of these challenges and delays, Redes requested and received multiple extensions to certain contractual deadlines and relief from related liquidated damages. However, in April 2019, PRONATEL provided notice to Redes claiming that Redes was in default under the contracts due to the delays and that PRONATEL would terminate the contracts if the alleged defaults were not cured. Redes responded by claiming that it was not in default, as the delays were due to events not attributable to Redes, and therefore PRONATEL was not entitled to terminate the contracts. PRONATEL subsequently terminated the contracts for alleged cause prior to completion of Redes' scope of work, exercised the on-demand performance bonds and advance payment bonds against Redes, and indicated its intention to claim damages, including a verbal allegation of approximately \$45 million of liquidated damages under the contracts. In August 2020, Redes received a formal claim from PRONATEL for liquidated damages in the amount of approximately \$40 million, which represents the U.S. dollar equivalent of the amount asserted based on the December 31, 2021 exchange rate.

In May 2019, Redes filed for arbitration before the Court of International Arbitration of the International Chamber of Commerce (ICC) against PRONATEL and the MTC. In the arbitration, Redes claims that PRONATEL: breached and wrongfully terminated the contracts; wrongfully executed the advance payment bonds and the performance bonds; and is not entitled to the alleged amount of liquidated damages. In addition, Redes is seeking compensation for all damages arising from PRONATEL's actions, including but not limited to (i) repayment of the amounts collected by PRONATEL under the advance payment bonds and the performance bonds; (ii) payment of amounts owed for work completed by Redes under the contracts; (iii) lost income in connection with Redes' future operation and maintenance of the networks; and (iv) other related costs and damages to Redes as a result of the breach and improper termination of the contracts (including construction costs caused by the delays and costs related to the transfer of the networks). The amount claimed by Redes in this arbitration is approximately \$190 million. In May 2021, PRONATEL and the MTC filed their counter memorial and counterclaims in the ICC arbitration, requesting: (i) that Redes' claims for breach of contract be rejected; (ii) a declaration that the execution of the advance payment bonds and the performance bonds was valid, and that the funds may be applied towards any debt owed by Redes; (iii) a declaration that the liquidated damages asserted by PRONATEL apply; (iv) that Redes' claim for payment of amounts owed for work completed as a result of contractual reconciliation of balances be rejected and that any reconciliation of balances approved by the arbitration panel exclude the funds from the performance bonds; (v) that Redes' claims for damages be rejected; (vi) a declaration that the contract terminations by PRONATEL were valid; and (vii) that Redes reimburse all funds it received from PRONATEL. In addition, PRONATEL alleges that Redes did not satisfy the contractual requirements for the transfer of the networks, which Redes disputes. In July 2021, Redes filed its statement of defense in reply to the counter memorial and counterclaims of PRONATEL and the MTC, in which it disputes all claims made by PRONATEL and the MTC and maintains the positions on its claims against PRONATEL and the MTC in the arbitration. In August 2021, PRONATEL and the MTC filed a rejoinder statement with their position on the merits and damages, which did not present any new claims, and in October 2021, Redes filed a rejoinder with respect to the counterclaims of PRONATEL and the MTC. The arbitration hearing on the merits occurred in the fourth quarter of 2021 and a decision is expected during the third or fourth quarter of 2022.

As of the date of the contract terminations, Redes had incurred costs of approximately \$157 million related to the design and construction of the project and had received approximately \$100 million of payments (inclusive of the approximately \$87 million advance payments). Furthermore, upon completion of the transfer of the networks (as completed at the time of the contract terminations) to PRONATEL, which was required upon termination of the contracts and was completed in 2020, PRONATEL and the MTC are able to possess the networks, for which PRONATEL has paid approximately \$100 million while also collecting approximately \$112 million of bond proceeds. Quanta believes that PRONATEL's actions represent an abuse of

power and unfair and inequitable treatment and that PRONATEL and the MTC have been unjustly enriched. Specifically, under the terms of the contracts, the advance payment bonds were to be exercised only if it is determined that Redes did not use the advance payments for their intended purpose, in which case Redes would be obligated to return the portion of the advance payments not properly used. In connection with PRONATEL exercising the bonds, Redes was not afforded the opportunity to provide evidence of its proper use of the advance payments for project expenditures. Redes has incurred substantially more than the advance payment amounts in the execution of the project, and Quanta believes Redes has used the advance payment amounts for their intended purpose.

Quanta believes Redes is entitled to all amounts described in its claims above. However, as a result of the contract terminations and the inherent uncertainty involved in arbitration proceedings and recovery of amounts owed, there can be no assurance that Redes will prevail on those claims or in defense of liquidated damages claims or any other claims asserted by PRONATEL. As a result, during the three months ended June 30, 2019, Quanta recorded a charge to earnings of \$79.2 million, which included a reduction of previously recognized earnings on the project, a reserve against a portion of the project costs incurred through the project termination date, an accrual for a portion of the alleged liquidated damages, and the estimated costs to complete the project turnover and close out the project. The reduction of previously recognized earnings on the project included \$14.5 million related to the correction of prior period errors associated with the determination of total estimated project costs and the resulting revenue recognized. Quanta assessed the materiality of the prior period errors and determined that the errors were immaterial individually and in the aggregate to its previously issued financial statements.

As of December 31, 2021, after taking into account the above charge, Quanta had a contract receivable of approximately \$120 million related to the project, which includes the approximately \$87 million PRONATEL collected through exercise of the advance payment bonds. The contract receivable from PRONATEL is included in "Other assets, net" in the accompanying consolidated balance sheet as of December 31, 2021.

Quanta also reserves the right to seek full compensation for the loss of its investment under applicable legal regimes, including investment treaties and customary international law, as well as to seek resolution through direct discussions with PRONATEL or the MTC. In connection with these rights, in May 2020 Quanta's Dutch subsidiary delivered to the Peruvian government an official notice of dispute arising from the termination of the contracts and related acts by PRONATEL (which are attributable to Peru) under the Agreement on the Encouragement and Reciprocal Protection of Investments between the Kingdom of the Netherlands and the Republic of Peru (Investment Treaty). The Investment Treaty protects Quanta's subsidiary's indirect ownership stake in Redes and the project, and provides for rights and remedies distinct from the ICC arbitration. In December 2020, Quanta's Dutch subsidiary filed a request for the institution of an arbitration proceeding against Peru with the International Centre for Settlement of Investment Disputes (ICSID) related to Peru's breach of the Investment Treaty, which was registered by ICSID in January 2021. In the ICSID arbitration, Quanta's Dutch subsidiary claims, without limitation, that Peru: (i) treated the subsidiary's investment in Redes and the project unfairly and inequitably; and (ii) effectively expropriated the subsidiary's investment in Redes and the project. In addition, Quanta's Dutch subsidiary is seeking full compensation for all damages arising from Peru's actions, including but not limited to (i) the fair market value of the investment and/or lost profits; (ii) attorneys' fees and arbitration costs; (iii) other related costs and damages and (iv) pre- and post-award interest.

If Quanta is not successful in the pending arbitration proceedings, including the ICC arbitration proceeding held in the fourth quarter of 2021, this matter could result in an additional significant loss that could have a material adverse effect on Quanta's consolidated results of operations and cash flows. However, based on the information currently available and the status of the pending arbitration proceedings, Quanta is not able to determine a range of reasonably possible additional loss, if any, with respect to this matter.

## Maurepas Project Dispute

During the third quarter of 2017, Maurepas Pipeline, LLC (Maurepas) notified QPS Engineering, LLC (QPS), a subsidiary of Quanta, of its claim for liquidated damages allegedly arising from delay in mechanical completion of a project in Louisiana. Quanta disputes the claim and believes that QPS is not responsible for liquidated damages under the contract terms, and in June 2019 QPS filed suit against SemGroup Corporation (now Energy Transfer LP), the parent company of Maurepas, under the parent guarantee issued to secure payment from Maurepas on the project. QPS is seeking to recover \$22 million that it believes has been wrongfully withheld, which represents the maximum liability for liquidated damages pursuant to the contract terms. In July and August 2018, QPS also received notice from Maurepas claiming certain warranty defects on the project. In July 2019, Maurepas filed suit against QPS and Quanta, pursuant to a parent guarantee, for damages related to the alleged warranty defects and for a declaratory judgment related to the liquidated damages claim, subsequently claiming approximately \$59 million in damages related to a portion of the alleged warranty defects. The lawsuits relating to these claims have been consolidated and are pending in the Tulsa County District Court in Oklahoma. Quanta is continuing to evaluate the claimed warranty defects and, if they exist, the appropriate remedy. At this time, Quanta disputes the extent of the alleged defects or has not been able to substantiate them.

As of December 31, 2021, Quanta had recorded an accrual with respect to this matter based on its current estimated amount of probable loss. Based on the information currently available, including documentation received in the discovery process, Quanta estimates the range of additional reasonably possible loss in connection with this matter is between no additional loss and the amount claimed by Maurepas with respect to the alleged warranty defects and liquidated damages, less the accrued amount. Upon final resolution of this matter, any liquidated damages or warranty defect damages in excess of Quanta's current loss accrual would be recorded as additional costs on the project.

Lorenzo Benton v. Telecom Network Specialists, Inc., et al.

In June 2006, plaintiff Lorenzo Benton filed a class action complaint in the Superior Court of California, County of Los Angeles, alleging various wage and hour violations against Telecom Network Specialists (TNS), a former subsidiary of Quanta. Quanta retained liability associated with this matter pursuant to the terms of Quanta's sale of TNS in December 2012. Benton represents a class of workers that includes all persons who worked on certain TNS projects, including individuals that TNS retained through numerous staffing agencies. The plaintiff class in this matter is seeking damages for unpaid wages, penalties associated with the failure to provide meal and rest periods and overtime wages, interest and attorneys' fees. In January 2017, the trial court granted a summary judgment motion filed by the plaintiff class and found that TNS was a joint employer of the class members and that it failed to provide adequate meal and rest breaks and failed to pay overtime wages. During 2019 and 2020, the parties filed additional summary judgment and other motions and a bench trial on liability and damages was held. Liability and damages have been determined by the trial court, with the amount of liability for TNS, including interest through the date of the trial court's orders, determined to be approximately \$9.5 million. Quanta believes the court's decisions on liability and damages are not supported by controlling law and continues to contest its liability and the damage calculation asserted by the plaintiff class in this matter. The amount determined by the trial court includes damages and interest, but does not include attorneys' fees or costs. In July 2021, the plaintiff class filed a motion for approval of approximately \$37.0 million in attorneys' fees and costs. In December 2021, the trial court issued a ruling that reduced the amount of attorneys' fees and costs available to plaintiffs. Specifically, while not stating the recoverable amount, the court reduced the hourly rate, limited the time period for which fees are recoverable, and lowered the fee enhancement multiplier available. In January 2022, the plaintiffs submitted a supplemental filing in response to the trial court's ruling requesting approval of approximately \$17.6 million of attorneys' fees and costs. In February 2022, the plaintiffs separately appealed the trial court's December 2021 ruling with respect to the reduction of their claimed attorneys' fees and costs. Quanta is planning to submit a supplemental response disputing the amount of the plaintiffs' revised calculation of recoverable attorneys' fees and costs in advance of the next trial court hearing on this matter, which is scheduled for April 2022. Quanta also expects to appeal certain aspects of the trial court's December 2021 ruling.

Additionally, in November 2007, TNS filed cross complaints for indemnity and breach of contract against the staffing agencies, which employed many of the individuals in question. In December 2012, the trial court heard cross-motions for summary judgment filed by TNS and the staffing agencies pertaining to TNS's demand for indemnity. The court denied TNS's motion and granted the motions filed by the staffing agencies; however, the California Appellate Court reversed the trial court's decision in part and instructed the trial court to reconsider its ruling. In February 2017, the court denied a new motion for summary judgment filed by the staffing companies and has since stated that the staffing companies would be liable to TNS for any damages owed to the class members that the staffing companies employed. However, Quanta currently believes that, due to solvency issues, any contribution from the staffing companies may not be substantial.

The final amount of liability and attorneys' fees, if any, payable in connection with this matter remains the subject of pending litigation and will ultimately depend on various factors, including the outcome of Quanta's appeal of the trial court's rulings on liability and damages, a final determination with respect to the amount of any attorneys' fees or additional costs or damages owed by Quanta, and the solvency of the staffing agencies. Based on review and analysis of the trial court's rulings on liability, Quanta does not believe, at this time, that it is probable this matter will result in a material loss. However, if Quanta is unsuccessful in this litigation and the staffing agencies are unable to fund damages owed to class members, Quanta believes the range of reasonably possible loss to Quanta upon final resolution of this matter could be up to approximately \$9.5 million, plus the final amount of any attorneys' fees, interest and expenses awarded to the plaintiff class.

#### Hallen Acquisition Assumed Liability

In August 2019, in connection with the acquisition of The Hallen Construction Co., Inc. (Hallen), Quanta assumed certain contingent liabilities associated with a March 2014 natural gas-fed explosion and fire in the Manhattan borough of New York City, New York. The incident resulted in, among other things, loss of life, personal injury and the destruction of two buildings and other property damage. After investigation, the National Transportation Safety Board determined that the probable cause of the incident was the failure of certain natural gas infrastructure installed by Consolidated Edison, Inc. (Con Ed) and the failure of certain sewer infrastructure maintained by the City of New York. Pursuant to a contract with Con Ed, Hallen had performed certain work related to such natural gas infrastructure and agreed to indemnify Con Ed for certain claims, liabilities and costs associated with its work. Numerous lawsuits are pending in New York state courts related to the incident, which generally name

Con Ed, the City of New York and Hallen as defendants. These lawsuits are at various preliminary stages and generally seek unspecified damages and, in some cases, punitive damages, for wrongful death, personal injury, property damage and business interruption.

As of December 31, 2021, Quanta had not recorded an accrual related to this matter. Hallen's liabilities associated with this matter are expected to be covered under applicable insurance policies or contractual remedies negotiated by Quanta with the former owners of Hallen. If a loss becomes probable and estimable with respect to this matter, Quanta expects to accrue its estimated liability and a receivable in the same amount. However, the ultimate amount of liability in connection with this matter remains subject to uncertainties associated with pending litigation, including, among other things, the apportionment of liability among the defendants and other responsible parties and the likelihood and amount of potential damages claims. As a result, this matter could result in a loss that is in excess of, or not covered by, such insurance or contractual remedies, which could have a material adverse effect on Quanta's consolidated financial condition, results of operations and cash flows.

#### Silverado Wildfire Matter

In January 2022, two of Quanta's subsidiaries received a tender of defense and demand for preservation of evidence from Southern California Edison Company (SCE) related to two lawsuits filed in April 2021 and November 2021 against SCE and T-Mobile USA, Inc. (T-Mobile) in the Superior Court of California, County of Orange. The lawsuits assert property damage and related claims on behalf of certain individuals and subrogation claims on behalf of insurers relating to damages caused by a wildfire that began in October 2020 in Orange County, California (the Silverado Fire) and that is purported to have damaged approximately 13,000 acres. The lawsuits allege the Silverado Fire originated from utility poles in the area, generally claiming that each defendant failed to adequately maintain, inspect, repair or replace its overhead facilities, equipment and utility poles and remove vegetation in the vicinity; that the utility poles were overloaded with equipment from shared usage; and that SCE failed to de-energize its facilities during red flag warnings for a Santa Ana wind event. The lawsuits allege the Silverado Fire started when SCE and T-Mobile equipment contacted each other and note the Orange County Fire Department is investigating whether a T-Mobile lashing wire contacted an SCE overhead primary conductor in high winds. In October 2021, T-Mobile filed a cross-complaint against SCE alleging the ignition site of the Silverado Fire encompassed two utility poles replaced by SCE or a third party engaged by SCE, and that certain equipment, including T-Mobile's lashing wire, was not sufficiently re-secured after the utility pole replacements. One of Quanta's subsidiaries performed planning and other services related to the two utility poles, and another Quanta subsidiary replaced the utility poles and reattached the electrical and telecommunication equipment to the new utility poles in March 2019, approximately 19 months before the Silverado Fire. Pursuant to the general terms of a master services agreement and a master consulting services agreement between the Quanta subsidiaries and SCE, the subsidiaries agreed to defend and indemnify SCE against certain claims arising with respect to performance or nonperformance under the agreements. The SCE tender letters seek contractual indemnification and defense from Quanta's subsidiaries for the claims asserted against SCE in the lawsuits and the T-Mobile cross-complaint.

Quanta's subsidiaries intend to vigorously defend against the lawsuits, the T-Mobile cross-complaint and any other claims asserted in connection with the Silverado Fire. Quanta will continue to review additional information in connection with this matter as litigation and resolution efforts progress, and any such information may potentially allow Quanta to determine an estimate of potential loss, if any. As of December 31, 2021, Quanta had not recorded an accrual with respect to this matter, and Quanta is currently unable to reasonably estimate a range of reasonably possible loss, if any, because there are a number of unknown facts and legal considerations that may impact the amount of any potential liability. Quanta also believes that to the extent its subsidiaries are determined to be liable for any damages resulting from this matter, its insurance would be applied to any such liabilities over its deductible amount and its insurance coverage would be adequate to cover such potential liabilities. However, the ultimate amount of any potential liability and insurance coverage in connection with this matter remains subject to uncertainties associated with pending and potential future litigation.

### Concentrations of Credit Risk

Quanta is subject to concentrations of credit risk related primarily to its cash and cash equivalents and its net receivable position with customers, which includes amounts related to billed and unbilled accounts receivable and contract assets net of advanced billings with the same customer. Substantially all of Quanta's cash and cash equivalents are managed by what it believes to be high credit quality financial institutions. In accordance with Quanta's investment policies, these institutions are authorized to invest cash and cash equivalents in a diversified portfolio of what Quanta believes to be high quality cash and cash equivalent investments, which consist primarily of interest-bearing demand deposits, money market investments and money market mutual funds. Although Quanta does not currently believe the principal amount of these cash and cash equivalents is subject to any material risk of loss, changes in economic conditions could impact the interest income Quanta receives from these investments.

Quanta grants credit under normal payment terms, generally without collateral, to its customers, which primarily include utilities, renewable energy developers, communications providers, industrial companies and energy delivery companies located primarily in the United States, Canada and Australia. No customer represented 10% or more of Quanta's consolidated revenues

for the years ended December 31, 2021, 2020 or 2019. One customer represented 11% of Quanta's consolidated net receivable position at December 31, 2021. Another customer, when combined with the net receivable position of a joint venture in which such customer owns a 50% interest, also represented 11% of Quanta's consolidated net receivable position at December 31, 2021. The projects for these customers were primarily in Quanta's Electric Power Infrastructure Solutions and Renewable Energy segments. No customer represented 10% or more of Quanta's consolidated net receivable position at December 31, 2020. While Quanta generally has certain statutory lien rights with respect to services provided, Quanta is subject to potential credit risk related to business, economic and financial market conditions that affect these customers and locations, which has been heightened as a result of the unfavorable and uncertain economic and financial market conditions resulting from the uncertainties and challenges in the energy market and overall economy caused by the COVID-19 pandemic. Some of Quanta's customers have experienced significant financial difficulties (including bankruptcy), and customers may experience financial difficulties in the future. These difficulties expose Quanta to increased risk related to collectability of billed and unbilled receivables and contract assets for services Quanta has performed.

For example, a customer within Quanta's Underground Utility and Infrastructure Solutions segment encountered financial difficulties during 2020 that resulted in nonpayment of \$27.5 million of receivables, plus accrued interest. As a result of the nonpayment, Quanta decided to foreclose the liens on the pipeline asset in order to recover the outstanding amount. During the three months ended September 30, 2021, Quanta entered into a settlement with the customer resulting in the sale of the pipeline asset to a third party and pursuant to which Quanta received \$10.0 million of the amount owed and the right to receive payment of the remainder of the receivables in quarterly installments from the third party based on the cash flows generated by the pipeline and certain related assets. As a result, the remaining receivable balance of \$17.5 million at September 30, 2021 was reclassified to long-term receivables as of such date. Quanta also retained a security interest in the pipeline asset to secure payment of the remaining amount owed and believes that the value of the pipeline asset is in excess of such amount. However, the ultimate outcome with respect to the amount owed remains uncertain and is based on a number of assumptions that are potentially subject to change, including the future financial performance of the third party and the cash flows generated by the pipeline asset, as well as the future value of the pipeline asset. As a result, the amount ultimately collected could be materially less than the amount owed. As of December 31, 2021, the remaining receivable balance was \$17.5 million.

Additionally, in July 2021 Limetree Refining, a customer within Quanta's Underground Utility and Infrastructure Solutions segment, filed for bankruptcy protection under Chapter 11 of the Bankruptcy Code, after experiencing operational and financial difficulties and shutting down operations at its refinery. During 2021, Quanta recorded provisions for credit losses in the aggregate amount of \$31.7 million with respect to this customer, and its affiliate, reflecting the full amount of receivables outstanding. See Note 4 for further information related to this customer.

#### Insurance

As discussed in Note 2, Quanta carries various insurance policies. As of December 31, 2021 and 2020, the gross amount accrued for employer's liability, workers' compensation, auto liability, general liability and group health claims totaled \$318.2 million and \$319.5 million, with \$238.0 million and \$238.0 million considered to be long term and included in "Insurance and other non-current liabilities." Related insurance recoveries/receivables as of December 31, 2021 and 2020 were \$28.6 million and \$35.6 million, of which \$0.4 million and \$0.4 million are included in "Prepaid expenses and other current assets" and \$28.2 million and \$35.2 million are included in "Other assets, net."

Quanta renews its insurance policies on an annual basis, and therefore deductibles and levels of insurance coverage may change in future periods. In addition, insurers may cancel Quanta's coverage or determine to exclude certain items from coverage, including wildfires, or Quanta may elect not to obtain certain types or incremental levels of insurance based on the potential benefits considered relative to the cost of such insurance, or coverage may not be available at reasonable and competitive rates. In any such event, Quanta's overall risk exposure would increase, which could negatively affect its results of operations, financial condition and cash flows. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, Quanta's level of insurance coverage for wildfire events has decreased in recent years, and the current level of coverage may not be sufficient to cover potential losses in connection with these events. Additionally, Quanta's third-party insurers could decide to further reduce, exclude or increase the cost of coverage for wildfires or other events in connection with insurance renewals in the future.

### Letters of Credit

Certain of Quanta's vendors require letters of credit to ensure reimbursement for amounts they are disbursing on Quanta's behalf, such as to beneficiaries under its insurance programs. In addition, from time to time, certain customers require Quanta to post letters of credit to ensure payment of subcontractors and vendors and guarantee performance under contracts. Such letters of credit are generally issued by a bank or similar financial institution, typically pursuant to Quanta's senior credit facility. Each letter of credit commits the issuer to pay specified amounts to the holder of the letter of credit if the holder claims that Quanta has failed to perform specified actions. If this were to occur, Quanta would be required to reimburse the issuer of the letter of

credit. Depending on the circumstances of such a reimbursement, Quanta may also be required to record a charge to earnings for the reimbursement.

As of December 31, 2021, Quanta had \$318.2 million in outstanding letters of credit under its senior credit facility securing its casualty insurance program and various contractual commitments. These are irrevocable stand-by letters of credit with maturities generally expiring at various times throughout 2022. Quanta expects to renew the majority of the letters of credit related to the casualty insurance program for subsequent one-year periods upon their maturity. Quanta is not aware of any claims currently asserted or threatened under any of these letters of credit that are material, individually or in the aggregate. However, to the extent payment is required for any such claims, the amount paid could be material and could adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows.

#### **Bonds and Parent Guarantees**

Many customers, particularly in connection with new construction, require Quanta to post performance and payment bonds. These bonds provide a guarantee that Quanta will perform under the terms of a contract and pay its subcontractors and vendors. In certain circumstances, the customer may demand that the surety make payments or provide services under the bond, and Quanta must reimburse the surety for any expenses or outlays it incurs. Quanta may also be required to post letters of credit in favor of the sureties, which would reduce the borrowing availability under its senior credit facility. Quanta has not been required to make any material reimbursements to its sureties for bond-related costs except related to the exercise of approximately \$112 million advance payment and performance bonds in 2019 related to the terminated telecommunications project in Peru, as set forth in *Legal Proceedings - Peru Project Dispute* above. However, to the extent further reimbursements are required, the amounts could be material and could adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows. As of December 31, 2021, Quanta is not aware of any outstanding material obligations for payments related to bond obligations.

Performance bonds expire at various times ranging from mechanical completion of a project to a period extending beyond contract completion in certain circumstances, and therefore a determination of maximum potential amounts outstanding requires certain estimates and assumptions. Such amounts can also fluctuate from period to period based upon the mix and level of Quanta's bonded operating activity. As of December 31, 2021, the total amount of the outstanding performance bonds was estimated to be approximately \$3.9 billion. Quanta's estimated maximum exposure related to the value of the performance bonds outstanding is lowered on each bonded project as the cost to complete is reduced, and each commitment under a performance bond generally extinguishes concurrently with the expiration of its related contractual obligation. The estimated cost to complete these bonded projects was approximately \$1.2 billion as of December 31, 2021.

Additionally, from time to time, Quanta guarantees certain obligations and liabilities of its subsidiaries that may arise in connection with, among other things, contracts with customers, equipment lease obligations, joint venture arrangements and contractor licenses. These guarantees may cover all of the subsidiary's unperformed, undischarged and unreleased obligations and liabilities under or in connection with the relevant agreement. For example, with respect to customer contracts, a guarantee may cover a variety of obligations and liabilities arising during the ordinary course of the subsidiary's business or operations, including, among other things, warranty and breach of contract claims, third party and environmental liabilities arising from the subsidiary's work and for which it is responsible, liquidated damages, or indemnity claims. Quanta is not aware of any claims under any guarantees that are material, except as set forth in *Legal Proceedings – Maurepas Project Dispute* above. To the extent a subsidiary incurs a material obligation or liability and Quanta has guaranteed the performance or payment of such obligation or liability, the recovery by a customer or other counterparty or a third party will not be limited to the assets of the subsidiary. As a result, responsibility under the guarantee could exceed the amount recoverable from the subsidiary alone and could materially and adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows.

### **Employment Agreements**

Quanta has various employment agreements with certain executives and other employees, which provide for compensation, other benefits and, under certain circumstances, severance payments and post-termination stock-based compensation benefits. Certain employment agreements also contain clauses that require the potential payment of specified amounts to such employees upon the occurrence of a defined change in control event.

## Collective Bargaining Agreements and Multiemployer Pension Plans

Certain of Quanta's operating companies are parties to collective bargaining agreements with unions that represent certain of their employees. The collective bargaining agreements expire at various times and have typically been renegotiated and renewed on terms similar to those in the expiring agreements. From time to time, Quanta is a party to grievance and arbitration actions based on claims arising out of the collective bargaining agreements. The agreements require the operating companies to pay specified wages, provide certain benefits to union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. Quanta's multiemployer pension plan contribution rates generally are

made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. The location and number of union employees that Quanta employs at any given time and the plans in which they may participate vary depending on Quanta's need for union resources in connection with its ongoing projects. Therefore, Quanta is unable to accurately predict its union employee payroll and the resulting multiemployer pension plan contribution obligations for future periods.

Quanta may also be subject to liabilities as a result of its participation in, or withdrawal from, multiemployer defined benefit pension plans. Quanta may be required to make additional contributions to its multiemployer pension plans if they become underfunded, and these additional contributions will be determined based on Quanta's union employee payrolls. Certain plans to which Quanta contributes or may contribute in the future may adopt measures to improve their funded status through a funding improvement or rehabilitation plan, as applicable, which may require additional contributions from employers (e.g., a surcharge on benefit contributions) and/or modifications to retiree benefits. The amount, if any, that Quanta may be obligated to contribute to these plans cannot be reasonably estimated due to uncertainty regarding the amount of future work involving covered union employees, future contribution levels and possible surcharges on plan contributions. Quanta may also be subject to additional liabilities imposed by law if it or another participating employer withdraws from a multiemployer defined benefit pension plan, a plan is terminated or a plan experiences a mass withdrawal. These liabilities may include an allocable share of the unfunded vested benefits in the plan for all plan participants, not only the benefits payable to a contributing employer's own retirees. As a result, participating employers may bear a higher proportion of liability for unfunded vested benefits if other participating employers cease to contribute or withdraw, with the reallocation of liability being more acute in cases when a withdrawn employer is insolvent or otherwise fails to pay its withdrawal liability. Quanta is not aware of any material withdrawal liabilities that have been incurred or asserted and that remain outstanding as a result of a withdrawal by Quanta from a multiemployer defined benefit pension plan. However, Quanta's future contribution obligations and potential withdrawal liability exposure could vary based on the investment and actuarial performance of the multiemployer pension plans to which it contributes and other factors, which could be negatively impacted as a result of the unfavorable and uncertain economic and financial market conditions resulting from the ongoing COVID-19 pandemic and related issues. Quanta has been subject to significant withdrawal liabilities in the past, including in connection with its withdrawal from the Central States, Southeast and Southwest Areas Pension Plan. To the extent Quanta is subject to material withdrawal liabilities in the future, such liability could adversely affect its business, financial condition, results of operations and cash flows.

#### Other Employee Benefit Plans

Quanta maintains certain other employee benefit plans. Additional information regarding these plans is included in Note 15.

### **Contingent Consideration Liabilities**

The terms of certain of Quanta's business acquisitions have included the potential payment of contingent consideration. Additional information regarding the liabilities associated with these potential obligations is included in Note 6.

### **Indemnities**

Quanta generally indemnifies its customers for the services it provides under its contracts and other specified liabilities, which may subject Quanta to indemnity claims and liabilities and related litigation. Additionally, in connection with certain acquisitions and dispositions, Quanta has indemnified various parties against specified liabilities that those parties might incur in the future. The indemnities under acquisition or disposition agreements are usually contingent upon the other party incurring liabilities that reach specified thresholds. Except as set forth in *Legal Proceedings – Silverado Wildfire Matter* above, Quanta is not aware of any indemnity claims in connection with its indemnity obligations that are material. To the extent indemnification is required with respect to any matter, the amount could adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows.

In the normal course of Quanta's acquisition transactions, Quanta obtains rights to indemnification from the sellers or former owners of acquired businesses for certain risks, liabilities and obligations arising from their operations prior to the date of acquisition, such as financial, performance, operational, safety, workforce, environmental, litigation, compliance or tax issues, some of which Quanta may not have discovered during due diligence. However, the indemnities may not cover all of Quanta's exposure for such pre-acquisition matters, or the indemnitors may be unwilling or unable to pay amounts owed to Quanta. Accordingly, Quanta may incur expenses for which it is not reimbursed, and such amounts could be material and could have a material adverse effect on Quanta's business or consolidated financial condition, results of operations and cash flows. For example, Quanta has obtained certain indemnification rights from the former owners of Hallen with respect to contingent liabilities that were assumed in connection with the acquisition, as set forth in *Legal Proceedings* — *Hallen Acquisition Assumed Liability* above.

#### Residual Value Guarantees

Quanta has also guaranteed the residual value under certain of its equipment operating leases, agreeing to pay any difference between this residual value and the fair market value of the underlying asset at the date of lease termination. As of December 31, 2021, the maximum guaranteed residual value of this equipment was \$891.8 million. While Quanta believes that no significant payments will be made as a result of these residual value guarantees, there can be no assurance that significant payments will not be required in the future.

### Deferral of Employer Payroll Taxes

During 2020, the U.S. federal government enacted the Coronavirus Aid, Relief, and Economic Security Act (the CARES Act), which provided for various tax relief and tax incentive measures. These measures did not have a material impact on Quanta's results of operations. However, pursuant to the CARES Act, Quanta deferred the payment of \$108.9 million of employer payroll taxes during the year ended December 31, 2020, 50% of which were paid in the year ended December 31, 2021 and the remainder of which is due by December 31, 2022.

## Availability of Equipment and Project Materials

Quanta's customers depend on the availability of certain materials for construction, upgrade and repair and maintenance of their infrastructure and are typically responsible for supplying most or all of the materials required for the services Quanta performs on their projects, including, among other things, steel, copper, aluminum and components for renewable energy projects (e.g., solar panels, wind turbine blades). A number of factors that Quanta and its customers may not be able to predict or control could result in increased costs for, or delays in delivery or lack of availability of, these materials, including, among other things, the continued impact of the ongoing COVID-19 pandemic on the global supply chain, global trade relationships (e.g., tariffs, sourcing restrictions) and other general market and political conditions (e.g., inflation). To the extent these or other dynamics delay Quanta's customers' projects or impact their decision-making with respect to timing of future projects, Quanta's business and demand for its services could be negatively impacted. Additionally, pursuant to certain contracts, including contracts for our comprehensive engineering, procurement and construction services, Quanta is required to procure all or part of the materials needed for a project. A number of factors that Quanta may not be able to predict or control, including those described above with respect to its customers, could negatively impact its ability to procure the materials it has agreed to procure for a project, and in such circumstances, it may be responsible for delays and additional costs associated with projects.

Quanta also depends on the availability of certain equipment, including specialty vehicles, to perform services. A number of factors that Quanta may not be able to predict or control could result in increased costs for, or delays in delivery of, this equipment, including the continued impact of the ongoing COVID-19 pandemic on the global supply chain, as well as global trade relationships, geopolitical events, and other general market and political conditions (e.g., inflation). For example, based on, among other things, the significant worldwide shortage of semiconductors, vehicle manufacturers are experiencing production delays with respect to new vehicles for our fleet (both on-road and specialty vehicles) and vehicle parts (e.g., tires), and certain of Quanta's vehicle delivery orders scheduled for delivery in 2022 have been delayed and cancelled. While Quanta believes it has taken steps to secure delivery of a sufficient amount of vehicles in the near term and does not anticipate any significant disruptions with respect to its fleet, to the extent the production issues become worse than expected or become longer-term in nature, Quanta's operations could be negatively impacted.

### 17. FAIR VALUE MEASUREMENTS

For disclosure purposes, qualifying assets and liabilities are categorized into three broad levels based on the priority of the inputs used to determine their fair values. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Certain assumptions and other information as they relate to these qualifying assets and liabilities are described below.

### Goodwill and Other Intangible Assets

As discussed in Note 7, Quanta has recorded goodwill and identifiable intangible assets in connection with certain of its historical business acquisitions. Quanta utilizes the fair value premise as the primary basis for its impairment valuation procedures. The *Goodwill* and *Other Intangible Assets* sections within Notes 2 and 7 provide information regarding valuation methods, including the income approach, market approach and cost approach, and assumptions used to determine the fair value of these assets based on the appropriateness of each method in relation to the type of asset being valued. Quanta believes that the valuation methods it employs appropriately represent the methods that would be used by other market participants in determining fair value, and periodically engages the services of an independent valuation firm when a new business is acquired to assist management with the valuation process, including assistance with the selection of appropriate valuation methodologies and the development of market-based valuation assumptions. The level of inputs used for these fair value measurements is the

lowest level (Level 3).

Investments

Equity investments with readily determinable fair values are measured at fair value, with changes in fair value recognized in net income. In cases where those readily determinable values are quoted market prices, the level of input used for fair value measurements is the highest level (Level 1). Equity investments without readily determinable fair values are measured on a nonrecurring basis. These types of fair market value assessments are similar to other nonrecurring fair value measures used by Quanta, which include the use of significant judgments and available relevant market data. Such market data may include observations of the valuation of comparable companies, risk-adjusted discount rates and an evaluation of the expected performance of the underlying portfolio asset, including historical and projected levels of profitability or cash flows. In addition, a variety of additional factors may be reviewed by management, including, but not limited to, contemporaneous financing and sales transactions with third parties, changes in market outlook and the third-party financing environment. The level of inputs used for these fair value measurements is the lowest level (Level 3).

Quanta has investments accounted for using the equity and cost methods of accounting as discussed in Note 8. Quanta utilizes the fair value premise as the basis for its impairment valuation and recognizes impairment if there are sufficient indicators that the fair value of the investment is less than its carrying value.

Quanta also has COLI policies related to its deferred compensation plan as further described in Note 15. These policies are carried at their cash surrender value, which is considered their fair value. The level of input used for these fair value measurements is Level 2.

#### Financial Instruments

The carrying amounts of cash equivalents, accounts receivable, contract assets, accounts payable, accrued expenses and contract liabilities approximate fair value due to the short-term nature of these instruments. All of Quanta's cash equivalents were categorized as Level 1 assets at December 31, 2021 and 2020, as all values were based on unadjusted quoted prices for identical assets in an active market that Quanta has the ability to access.

#### Contingent Consideration Liabilities

Financial instruments required to be measured at fair value on a recurring basis consist primarily of Quanta's liabilities related to contingent consideration associated with certain acquisitions, payable in the event certain performance objectives are achieved by the acquired businesses during designated post-acquisition periods. The liabilities recorded represent the estimated fair values of future amounts payable to the former owners of the acquired businesses and are estimated by management based on entity-specific assumptions that are evaluated on an ongoing basis.

The fair values of these liabilities described in Note 6 were primarily determined using a Monte Carlo simulation valuation methodology based on probability-weighted performance projections and other inputs, including a discount rate and an expected volatility factor for each acquisition. The expected volatility factor was 50.0% based on historical asset volatility of selected guideline public companies. Depending on contingent consideration payment terms, the present values of the estimated payments are discounted based on a risk-free rate and/or Quanta's cost of debt and ranged from 0.04% to 3.9% and had a weighted average of 1.9% based on the fair value at the dates of the respective acquisitions. The fair value determinations incorporate significant inputs not observable in the market. Accordingly, the level of inputs used for these fair value measurements is the lowest level (Level 3). Significant changes in any of these assumptions could result in a significantly higher or lower potential liability.

### Long-Term Debt

The carrying amount of variable rate debt, which includes borrowings under Quanta's senior credit facility, approximates fair value. Quanta's fixed rate debt primarily includes its Senior Notes. The fair value of Quanta's Senior Notes, which are described further in Note 10, was \$2.49 billion at December 31, 2021, compared to a carrying value of \$2.47 billion net of unamortized bond discount, underwriting discounts and deferred financing costs of \$27.0 million. The fair value of the senior notes is based on the quoted market prices for the same issue and are categorized as Level 1 liabilities. See Note 10 for additional information regarding Quanta's senior credit facility and the Senior Notes.

### 18. DETAIL OF CERTAIN ACCOUNTS:

### Cash and Cash Equivalents

Amounts related to Quanta's cash and cash equivalents based on geographic location of the bank accounts were as follows (in thousands):

	Decem	ber 3	1,
	2021		2020
Cash and cash equivalents held in domestic bank accounts	\$ 205,781	\$	156,122
Cash and cash equivalents held in foreign bank accounts	23,316		28,498
Total cash and cash equivalents	\$ 229,097	\$	184,620

Cash consisting of interest-bearing demand deposits is carried at cost, which approximates fair value. Quanta considers all highly liquid investments with an original maturity of three months or less at the time of purchase to be cash equivalents, which are carried at fair value. At December 31, 2021 and 2020, cash equivalents were \$140.0 million and \$98.0 million and consisted primarily of money market investments and money market mutual funds and are discussed further in Note 17.

Cash and cash equivalents held by joint ventures, which are either consolidated or proportionately consolidated, are available to support joint venture operations, but Quanta cannot utilize those assets to support its other operations. Quanta generally has no right to cash and cash equivalents held by a joint venture other than participating in distributions, to the extent made, and in the event of dissolution. Cash and cash equivalents held by Quanta's wholly-owned captive insurance company are generally not available for use in support of its other operations. Amounts related to cash and cash equivalents held by joint ventures and the captive insurance company, which are included in Quanta's total cash and cash equivalents balances, were as follows (in thousands):

	December 31,				
		2021		2020	
Cash and cash equivalents held by domestic joint ventures	\$	21,828	\$	7,714	
Cash and cash equivalents held by foreign joint ventures		3,461		3,973	
Total cash and cash equivalents held by joint ventures.		25,289		11,687	
Cash and cash equivalents held by captive insurance company		133,302		85,014	
Cash and cash equivalents not held by joint ventures or captive insurance company		70,506		87,919	
Total cash and cash equivalents	\$	229,097	\$	184,620	

#### **Property and Equipment**

Property and equipment consisted of the following (in thousands):

	<b>Estimated Useful</b>	 Decem	31,	
	Lives in Years	2021		2020
Land	N/A	\$ 86,013	\$	69,389
Buildings and leasehold improvements	5-30	318,499		249,106
Operating machinery, equipment and vehicles	1-25	2,603,149		2,297,120
Office equipment, furniture and fixtures and information technology systems	3-10	259,776		244,113
Construction work in progress	N/A	91,502		20,900
Finance lease assets and rental purchase options (see Note 11)	5-20	 64,256		52,160
Property and equipment, gross		3,423,195		2,932,788
Less — Accumulated depreciation and amortization		(1,503,498)		(1,372,132)
Property and equipment, net of accumulated depreciation		\$ 1,919,697	\$	1,560,656

Depreciation expense related to property and equipment is recognized on a straight-line basis over the estimated useful lives of the assets and was \$255.5 million, \$225.3 million and \$218.1 million for the years ended December 31, 2021, 2020 and 2019. Additionally, Quanta recorded asset impairment charges of \$5.7 million during the year ended December 31, 2021 related to certain equipment that was not utilized in Quanta's core operations, some of which was sold in October 2021 and the remainder of which was classified as assets held for sale as of December 31, 2021. Quanta also recorded asset impairment

charges of \$8.3 million during the year ended December 31, 2020 related to the exit of its Latin American operations and due to the planned sale of certain equipment and asset impairment charges of \$13.9 million during the year ended December 31, 2019 related to the winding down and exit of certain oil-influenced operations and assets, the replacement of an internally-developed software application and the planned sale and exit of certain foreign operations and assets.

### Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses consisted of the following (in thousands):

	December 31,			
		2021		2020
Accounts payable, trade	\$	1,251,118	\$	798,023
Accrued compensation and related expenses		547,161		378,002
Other accrued expenses		456,392		333,769
Accounts payable and accrued expenses	\$	2,254,671	\$	1,509,794

#### 19. SUPPLEMENTAL CASH FLOW INFORMATION:

The net effects of changes in operating assets and liabilities, net of non-cash transactions, on cash flows from operating activities are as follows (in thousands):

	Year Ended December 31,					
		2021		2020	2019	
Accounts and notes receivable	\$	(248,452)	\$	71,058	\$	(214,580)
Contract assets		(331,946)		153,832		(12,317)
Inventories		1,418		9,860		52,168
Prepaid expenses and other current assets		(6,503)		83,518		(60,475)
Accounts payable and accrued expenses and other non-current liabilities		95,829		115,569		39,419
Contract liabilities		47,163		(84,370)		174,230
Other, net (1)		(15,191)		(22,098)		(135,250)
Net change in operating assets and liabilities, net of non-cash transactions	\$	(457,682)	\$	327,369	\$	(156,805)

<sup>(1)</sup> The amount for the year ended December 31, 2019 includes the payment of \$87 million of on-demand advance payment bonds and \$25 million of on-demand performance bonds exercised in connection with the terminated telecommunications project in Peru. See *Legal Proceedings*—*Peru Project Dispute* in Note 16 for additional information on this matter.

Reconciliations of cash, cash equivalents, and restricted cash reported within the consolidated balance sheets that sum to the total of such amounts shown in the statements of cash flows are as follows (in thousands):

	December 31,							
		2021	2020		2019		2018	
Cash and cash equivalents	\$	229,097	\$	184,620	\$	164,798	\$	78,687
Restricted cash included in "Prepaid expenses and other current assets"		1,836		1,275		4,026		3,286
Restricted cash included in "Other assets, net"		954		913		921		1,283
Total cash, cash equivalents, and restricted cash reported in the statements of cash flows	\$	231,887	\$	186,808	\$	169,745	\$	83,256

Restricted cash includes any cash that is legally restricted as to withdrawal or usage.

Supplemental cash flow information related to leases and rental purchase options is as follows (in thousands):

	Year Ended December 31,					
	2021		2020			2019
Cash paid for amounts included in the measurement of lease liabilities:						
Operating cash flows from operating leases	\$	(104,434)	\$	(115,597)	\$	(119,357)
Operating cash flows from finance leases	\$	(90)	\$	(108)	\$	(64)
Financing cash flows from finance leases	\$	(1,001)	\$	(1,198)	\$	(1,835)
Lease assets obtained in exchange for lease liabilities:						
Operating leases	\$	73,713	\$	69,721	\$	96,550
Finance leases	\$	1,044	\$	1,384	\$	691
Rental purchase option assets obtained in exchange for rental purchase option liabilities	\$	11,713	\$	35,734	\$	12,229

Additional supplemental cash flow information is as follows (in thousands):

	Year Ended December 31,					
		2021	2020	2019		
Cash (paid) received during the period for -						
Interest paid	\$	(52,737) \$	(32,142) \$	(64,805)		
Income taxes paid	\$	(125,328) \$	(231,186)	(116,467)		
Income tax refunds	\$	13,257 \$	18,119	7,474		

Accrued capital expenditures were \$27.4 million and \$11.3 million as of December 31, 2021 and 2020. The impact of these items has been excluded from Quanta's capital expenditures in the accompanying consolidated statements of cash flows due to their non-cash nature.

During the year ended December 31, 2020, Quanta contributed certain assets that had a fair value of \$6.1 million as partial consideration for the purchase of an investment and recorded a note receivable of \$4.7 million as partial consideration for the sale of another investment.

### ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

There have been no changes in or disagreements with accountants on accounting and financial disclosure within the parameters of Item 304(b) of Regulation S-K.

#### ITEM 9A. Controls and Procedures

Attached as exhibits to this Annual Report on Form 10-K are certifications of Quanta's Chief Executive Officer and Chief Financial Officer that are required in accordance with Rule 13a-14 of the Securities Exchange Act of 1934, as amended (the Exchange Act). This Item 9A, section includes information concerning the controls and controls evaluation referred to in the certifications, and it should be read in conjunction with the certifications for a more complete understanding of the topics presented.

### **Evaluation of Disclosure Controls and Procedures**

Our management has established and maintains a system of disclosure controls and procedures that are designed to provide reasonable assurance that information required to be disclosed by us in the reports that we file or submit under the Exchange Act, such as this Annual Report on Form 10-K, is recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms. The disclosure controls and procedures are also designed to provide reasonable assurance that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

As of the end of the period covered by this Annual Report, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures pursuant to Rule 13a-15(b), as such disclosure controls and procedures are defined in Rule 13a-15(e) and 15d-15(e) of the Exchange Act. This evaluation was carried out under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer. Based on this evaluation,

these officers have concluded that, as of December 31, 2021, our disclosure controls and procedures were effective to provide reasonable assurance of achieving their objectives.

## **Evaluation of Internal Control over Financial Reporting**

Management's report on internal control over financial reporting can be found in Item 8. Financial Statements and Supplementary Data of this Annual Report under the heading Report of Management and is incorporated herein by reference. The report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, on the financial statements, and its opinion on the effectiveness of internal control over financial reporting, can also be found in Item 8. Financial Statements and Supplementary Data of this Annual Report under the heading Report of Independent Registered Public Accounting Firm and is incorporated herein by reference.

As described in *Report of Management*, management's assessment of the effectiveness of our internal control over financial reporting as of December 31, 2021 excluded the ten businesses we acquired in 2021. Such exclusion was in accordance with SEC guidance that an assessment of recently acquired businesses may be omitted in management's report on internal control over financial reporting, provided the acquisitions took place within twelve months of management's evaluation. These acquisitions comprised approximately 5.1% and 3.8% of our consolidated assets and revenues as of and for the year ended December 31, 2021 and included the acquisition of Blattner, which comprised approximately 4.0% and 3.4% of our consolidated assets and revenues as of and for the year ended December 31, 2021. We are in the process of integrating each acquired business into our overall internal control over financial reporting process.

There has been no change in our internal control over financial reporting that occurred during the quarter ended December 31, 2021 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

## **Design and Operation of Control Systems**

Our management, including the Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and breakdowns can occur because of simple errors or mistakes. Controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

ITEM 9B. Other Information

None.

ITEM 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

### PART III

## ITEM 10. Directors, Executive Officers and Corporate Governance

The information required by this Item 10 is incorporated by reference to the definitive proxy statement related to our 2022 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2021 fiscal year.

## ITEM 11. Executive Compensation

The information required by this Item 11 is incorporated by reference to the definitive proxy statement related to our 2022 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2021 fiscal year.

## ITEM 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item 12 is incorporated by reference to the definitive proxy statement related to our 2022 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2021 fiscal year.

## ITEM 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item 13 is incorporated by reference to the definitive proxy statement related to our 2022 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2021 fiscal year.

## ITEM 14. Principal Accounting Fees and Services

The information required by this Item 14 is incorporated by reference to the definitive proxy statement related to our 2022 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2021 fiscal year.

## PART IV

## ITEM 15. Exhibits and Financial Statement Schedules

The following financial statements, schedules and exhibits are filed as part of this Annual Report on Form 10-K:

- (1) Consolidated financial statements. The consolidated financial statements are included in Item 8. Financial Statements and Supplementary Data of this Annual Report on Form 10-K.
- (2) Financial statement schedules. All financial statement schedules are omitted because they are not applicable or the required information is shown in the consolidated financial statements or the notes to the consolidated financial statements in Item 8. Financial Statements and Supplementary Data of this Annual Report on Form 10-K.
  - (3) Exhibits.

## **EXHIBIT INDEX**

Exhibit

- 2.1 Agreement and Plan of Merger by and among Blattner Holding Company, Quanta Services, Inc., Quanta Merger Sub, LLC and certain shareholders of Blattner Holding Company, dated as of September 1, 2021 (previously filed as Exhibit 2.1 to the Company's Form 8-K filed October 15, 2021 and incorporated herein by reference)
- 3.1 Restated Certificate of Incorporation of Quanta Services, Inc. (previously filed as Exhibit 3.1 to the Company's Form 8-K filed March 26, 2019 and incorporated herein by reference)
- 3.2 Bylaws of Quanta Services, Inc., as amended and restated December 6, 2018 (previously filed as Exhibit 3.1 to the Company's Form 8-K filed December 11, 2018 and incorporated herein by reference)
- 4.1 Description of Quanta Services, Inc.'s Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934 (previously filed as Exhibit 4.1 to the Company's Form 10-K filed March 1, 2021 and incorporated herein by reference)
- 4.2 Form of Common Stock Certificate (previously filed as Exhibit 4.1 to the Company's Registration Statement on Form S-1/Amendment No. 2 filed February 9, 1998 and incorporated herein by reference)
- 4.3 Indenture, dated as of September 22, 2020, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.1 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
- 4.4 First Supplemental Indenture, dated as of September 22, 2020, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.2 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
- 4.5 Second Supplemental Indenture, dated as of September 23, 2021, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.2 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 4.6 Third Supplemental Indenture, dated as of September 23, 2021, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.3 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 4.7 Fourth Supplemental Indenture, dated as of September 23, 2021, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.4 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 4.8 Form of 2.900% Senior Notes due 2030 (previously filed as Exhibit 4.3 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
- 4.9 Form of 0.095% Senior Notes due 2024 (previously filed as Exhibit 4.5 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 4.10 Form of 2.350% Senior Notes due 2032 (previously filed as Exhibit 4.6 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 4.11 Form of 3.050% Senior Notes due 2041 (previously filed as Exhibit 4.7 to the Company's Form 8-K filed September 23, 2021 and incorporated herein by reference)
- 10.1\* Quanta Services, Inc. 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.1 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- 10.2\* Form of RSU Award Agreement for awards to employees/consultants pursuant to the 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.2 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- 10.3\* Form of RSU Award Agreement for awards to non-employee directors pursuant to the 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.3 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- 10.4\* Form of PSU Award Agreement for awards to employees/consultants pursuant to the 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- 10.5\* Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 4.5 to the Company's Form S-8 filed May 20, 2011 and incorporated herein by reference)
- 10.6\* Amendment No. 1 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 10-Q for the quarter ended June 30, 2013 filed August 9, 2013 and incorporated herein by reference)

- 10.7\* Amendment No. 2 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended June 30, 2016 filed August 8, 2016 and incorporated herein by reference)
- 10.8\* Amendment No. 3 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 8-K filed May 30, 2018 and incorporated herein by reference)
- 10.9\* Amendment No. 4 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.6 to the Company's Form 8-K filed March 14, 2019 and incorporated herein by reference)
- 10.10\* Form of Restricted Stock Unit Award Agreement for awards to employees/consultants pursuant to the 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.2 to the Company's Form 8-K filed March 8, 2013 and incorporated herein by reference)
- 10.11\* Form of Restricted Stock Unit Award Agreement for awards to non-employee directors pursuant to the 2011 Omnibus Equity Incentive Plan (Settled in Stock Unless Cash Settlement Elected) (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended June 30, 2015 filed August 10, 2015 and incorporated herein by reference)
- 10.12\* Form of Performance Unit Award Agreement for awards to employees/consultants pursuant to the 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.2 to the Company's Form 8-K filed March 7, 2014 and incorporated herein by reference)
- 10.13\* Employment Agreement dated September 1, 2016, effective as of March 14, 2016, by and between Quanta Services, Inc. and Earl C. Austin, Jr. (previously filed as Exhibit 10.1 to the Company's Form 8-K filed September 8, 2016 and incorporated herein by reference)
- 10.14\* Employment Agreement dated March 29, 2012, effective as of May 17, 2012, by and between Quanta Services, Inc. and Derrick A. Jensen (previously filed as Exhibit 10.2 to the Company's Form 8-K filed April 2, 2012 and incorporated herein by reference)
- 10.15\* Employment Agreement dated September 12, 2017, effective as of January 1, 2017, by and between Quanta Services, Inc. and Paul C. Gregory (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended September 30, 2017 filed November 9, 2017 and incorporated herein by reference)
- 10.16\* Employment Agreement dated September 12, 2017, effective as of May 15, 2017, by and between Quanta Services, Inc. and Donald C. Wayne (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended September 30, 2017 filed November 9, 2017 and incorporated herein by reference)
- 10.17\* Employment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Quanta Services, Inc. and James Redgie Probst (previously filed as Exhibit 10.1 to the Company's Form 10-Q filed May 8, 2020 and incorporated herein by reference)
- 10.18\* Quanta Services, Inc. Term Sheet for 2019 Annual Incentive Plan Corporate Employees, Quanta Services, Inc. Term Sheet for 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan All Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 14, 2019 and incorporated herein by reference)
- 10.19\* Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan Corporate Employees, Quanta Services, Inc. Term Sheet for 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for Discretionary Plan –All Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)
- 10.20\* Quanta Services, Inc. Term Sheet for 2021 Annual Incentive Plan Corporate Employees, Quanta Services, Inc. Term Sheet for 2021 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2021 Discretionary Plan All Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 30, 2021 and incorporated herein by reference)
- 10.21\* Director Compensation Summary, revised as of May 27, 2020 and effective as of May 28, 2020 (previously filed as Exhibit 10.1 to the Company's Form 8-K filed June 2, 2020 and incorporated herein by reference)
- 10.22\* Director Compensation Summary, adopted December 1, 2021 and effective as of May 27, 2022
- 10.23\* Quanta Services, Inc. Non-Employee Director Deferred Compensation Plan dated effective January 1, 2017 (previously filed as Exhibit 10.25 to the Company's Form 10-K for the year ended December 31, 2016 filed March 1, 2017 and incorporated herein by reference)
- 10.24\* Quanta Services, Inc. Nonqualified Deferred Compensation Plan, as restated effective January 1, 2017, including the Nonqualified Deferred Compensation Plan Adoption Agreement (previously filed as Exhibit 10.27 to the Company's Form 10-K for the year ended December 31, 2016 filed March 1, 2017 and incorporated herein by reference)

- 10.25\* Form of Amended and Restated Indemnity Agreement (previously filed as Exhibit 10.1 to the Company's Form 8-K filed December 11, 2018 and incorporated herein by reference)
- 10.26 Fourth Amended and Restated Credit Agreement, dated as of December 18, 2015, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders party thereto (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 23, 2015 and incorporated herein by reference)
- 10.27 First Amendment to Fourth Amended and Restated Credit Agreement dated as of June 27, 2016, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders party thereto (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed August 8, 2016 and incorporated herein by reference)
- 10.28 Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated herein by reference)
- Third Amendment to Fourth Amended and Restated Credit Agreement, dated as of August 24, 2018, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed October 15, 2018 and incorporated herein by reference)
- 10.30 Fourth Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 10, 2018, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.2 to the Company's Form 8-K filed October 15, 2018 and incorporated herein by reference)
- 10.31 Incremental Term Loan Amendment and Fifth Amendment to Fourth Amended and Restated Credit Agreement and Omnibus Amendment to Loan Documents, dated as of September 6, 2019, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the L/C Issuers party thereto (previously filed as Exhibit 10.6 to the Company's Form 8-K filed September 9, 2019 and incorporated herein by reference)
- 10.32 Incremental Revolving Credit Increase Agreement and Lender Joinder Agreement, dated as of September 12, 2019, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, BNP Paribas, the Swing Line Lenders and L/C Issuers party thereto and Bank of America, N.A., as Administrative Agent (previously filed as Exhibit 10.4 to the Company's Form 10-Q filed November 1, 2019 and incorporated herein by reference)
- 10.33 Sixth Amendment to Fourth Amended and Restated Credit Agreement, dated as of September 22, 2020, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
- 10.34 Seventh Amendment to Fourth Amended and Restated Credit Agreement, dated as of May 17, 2021, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 10-Q filed August 5, 2021 and incorporated herein by reference)
- 10.35 Eighth Amendment to Fourth Amended and Restated Credit Agreement, dated as of September 9, 2021, among Quanta Services, Inc., and certain subsidiaries of Quanta Services, Inc., as Borrowers, Quanta Services, Inc., as Guarantor, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed October 15, 2021 and incorporated herein by reference)

- 10.36 Ninth Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 8, 2021, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, Quanta Services, Inc., as Guarantor, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.2 to the Company's Form 8-K filed October 15, 2021 and incorporated herein by reference)
- 10.37 Tenth Amendment to Fourth Amended and Restated Credit Agreement, dated as of February 4, 2022, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, the lenders party thereto and Bank of America, N.A., as Administrative Agent
- 10.38 Underwriting, Continuing Indemnity and Security Agreement dated as of March 14, 2005 by Quanta Services, Inc. and the subsidiaries and affiliates of Quanta Services, Inc. identified therein, in favor of Federal Insurance Company (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 16, 2005 and incorporated herein by reference)
- 10.39 Joinder Agreement and Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of November 28, 2006, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 4, 2006 and incorporated herein by reference)
- Second Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of January 9, 2008, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.34 to the Company's Form 10-K for the year ended December 31, 2007 filed February 29, 2008 and incorporated herein by reference)
- 10.41 Joinder Agreement and Third Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of December 19, 2008, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.30 to the Company's Form 10-K for the year ended December 31, 2011 filed February 29, 2012 and incorporated herein by reference)
- 10.42 Joinder Agreement and Fourth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of March 31, 2009, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 99.1 to the Company's Form 8-K filed April 1, 2009 and incorporated herein by reference)
- 10.43 Joinder Agreement and Fifth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of May 17, 2012, among Federal Insurance Company, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA, The Insurance Company of the State of Pennsylvania, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended June 30, 2012 filed August 8, 2012 and incorporated herein by reference)
- Sixth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of December 3, 2012, among Federal Insurance Company, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA, The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.32 to the Company's Form 10-K for the year ended December 31, 2012 filed March 1, 2013 and incorporated herein by reference)
- Seventh Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of August 4, 2015, among Federal Insurance Company; American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA and The Insurance Company of the State of Pennsylvania; Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company and Safeco Insurance Company of America; Quanta Services, Inc., the other Indemnitors identified therein; and the Stallone Companies (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended June 30, 2018 filed August 7, 2018 and incorporated herein by reference)

- 10.46 Eighth Amendment to Underwriting, Continuing Indemnity and Security Agreement, dated as of September 22, 2020, among Federal Insurance Company, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Quanta Services, Inc. and the other Indemnitors identified therein (previously filed as Exhibit 10.2 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
- 21.1° Subsidiaries
- 23.1 Consent of PricewaterhouseCoopers LLP
- 31.1 Certification of Chief Executive Officer pursuant to Rule 13a-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Chief Financial Officer pursuant to Rule 13a-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32.1† Certification of Chief Executive Officer and Chief Financial Officer pursuant to Rule 13a-14(b) of the Exchange Act and 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 101.INS^ The following financial statements from the Company's Annual Report on Form 10-K for the year ended December 31, 2021, formatted in Inline XBRL: (i) Consolidated Balance Sheets, (ii) Consolidated Statements of Operations, (iii) Consolidated Statements of Comprehensive Income, (iv) Consolidated Statements of Cash Flows, (v) Consolidated Statements of Equity and (vi) Notes to Consolidated Financial Statements, tagged as blocks of text and with detailed tags
  - 104\* The cover page from the Company's Annual Report on Form 10-K for the year ended December 31, 2021, formatted in Inline XBRL (included as Exhibit 101)

<sup>\*</sup> Management contracts or compensatory plans or arrangements

Filed with this Annual Report on Form 10-K

<sup>†</sup> Furnished with this Annual Report on Form 10-K

## ITEM 16. Form 10-K Summary.

Not applicable.

### **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, Quanta Services, Inc. has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Houston, State of Texas, on February 25, 2022.

QUANTA SERVICES, INC.

By:	/s/ EARL C. AUSTIN, JR.
	Earl C. Austin, Jr.
	President and Chief Executive Officer

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Earl C. Austin, Jr. and Derrick A. Jensen, each of whom may act without joinder of the other, as their true and lawful attorneys-in-fact and agents, each with full power of substitution and resubstitution, for such person and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed by the following persons in the capacities indicated on February 25, 2022.

Signature	Title
/s/ EARL C. AUSTIN, JR.	President, Chief Executive Officer and Director
Earl C. Austin, Jr.	(Principal Executive Officer)
	`
/s/ DERRICK A. JENSEN	Chief Financial Officer
Derrick A. Jensen	(Principal Financial Officer)
/s/ PAUL M. NOBEL	Chief Accounting Officer
Paul M. Nobel	(Principal Accounting Officer)
/s/ DOYLE N. BENEBY	Director
Doyle N. Beneby	
/s/ VINCENT D. FOSTER	Director
Vincent D. Foster	
/s/ BERNARD FRIED	Director
Bernard Fried	
/s/ WORTHING F. JACKMAN	Director
Worthing F. Jackman	
//	
/s/ HOLLI C. LADHANI	Director
Holli C. Ladhani	
/s/ DAVID M. McCLANAHAN	Chairman of the Board of Directors
David M. McClanahan	
// MARGARET D. GWANNANA	D' - 1
/s/ MARGARET B. SHANNON	Director
Margaret B. Shannon	
/s/ PAT WOOD, III	Director
Pat Wood, III	
// MARTHAR WAYROOM	Discortors
/s/ MARTHA B. WYRSCH	Director
Martha B. Wyrsch	

# **DIRECTORS**

## **Director Name and Principal Position / Experience**

Earl C. (Duke) Austin, Jr.	President and Chief Executive Officer of Quanta
Doyle N. Beneby	President and Chief Executive Officer of Midland Cogeneration Venture 2,4
Vincent D. Foster	Executive Chairman and Former Chief Executive Officer of Main Street Capital Corporation 1,4
Bernard Fried	Principal of BF Consulting and Former Chief Executive Officer of Plastikon Industries, Inc. <sup>1, 2</sup>
Worthing F. Jackman	President and Chief Executive Officer of Waste Connections, Inc. 1,2
Holli C. Ladhani	Former President and Chief Executive Officer of Select Energy Services, Inc. 3.4
David M. McClanahan	Chairman of the Board of Quanta and Former President and Chief Executive Officer of CenterPoint Energy, Inc.
Margaret B. Shannon	Former Vice President and General Counsel of BJ Services Company 3, 4
Pat Wood, III	Chief Executive Officer of Hunt Energy Network and Former Chairman of the Federal Energy Regulatory Commission <sup>3,4</sup>
Martha B. Wyrsch	Former Executive Vice President and General Counsel of Sempra Energy <sup>2,3</sup>

<sup>1 -</sup> Audit Committee, 2 - Compensation Committee, 3 - Governance and Nominating Committee, 4 - Investment Committee

## **Executive Officers**

Earl C. (Duke) Austin, Jr.
President, Chief Executive Officer
and Director

## **Donald C. Wayne** Executive Vice President and General Counsel

## **Derrick A. Jensen** Chief Financial Officer

## Jayshree Desai Chief Corporate Development Officer

## Redgie Probst Chief Operating Officer

## Paul M. Nobel Vice President and Chief Accounting Officer

# Paul C. Gregory Chief Strategy Officer

## **Dorothy Upperman** Vice President – Tax

# **Investor Information**

## **New York Stock Exchange**

Last year, our Annual CEO Certification, without qualifications, was timely submitted to the NYSE. Also, we have filed the certifications required under The Sarbanes-Oxley Act of 2002 as exhibits to our Annual Report on Form 10-K.

Ticker Symbol | PWR

## **Transfer Agent**

American Stock Transfer & Trust Company, LLC 6201 15th Avenue Brooklyn, New York 11219 718.921.8200

### **Auditors**

PricewaterhouseCoopers LLP 1000 Louisiana Street, Suite 5800 Houston, Texas 77002 713.356.4000

## **Investor Relations**

Kip Rupp, CFA, Vice President – Investor Relations 713.629.7600 investors@quantaservices.com

CAUTIONARY STATEMENT ABOUT FORWARD-LOOKING STATEMENTS This document contains "forward-looking statements" reflecting assumptions, expectations, projections, intentions or beliefs about future events that are intended to qualify for the "safe harbor" from liability established by the Private Securities Litigation Reform Act of 1995. You can identify these statements by the fact that they do not relate strictly to historical or current facts. They use words such as "anticipate," "estimate," "project," "forecast," "may," "will," "should," "could," "could," "could," "expect," "lapin," "intend" and other words of similar meaning. These forward-looking statements are not guarantees of future performance, involve or rely on a number of risks, uncertainties, and assumptions that are difficult to predict or are beyond our control, and reflect management's beliefs and assumptions based on information available at the time the statements are made. We caution you that actual outcomes and results may differ materially from what is expressed, implied or forecasted by our forward-looking statements and that any or all of our forward-looking statements may turn out to be inaccurate or incorrect. Forward-looking statements can be affected by inaccurate assumptions and by known or unknown risks and uncertainties, including, among others, the risks and uncertainties detailed in Quanta's Annual Report on Form 10-K for the year ended Dec. 31, 2021 and any other documents that Quanta files with the Securities and Exchange Commission (SEC). For a discussion of these risks, uncertainties and assumptions, investors are urged to refer to Quanta's documents filed with the SEC that are available through the company's website at www.quantaservices.com or through the SEC's Electronic Data Gathering and Analysis Retrieval System at www.sec.gov. Should one or more of these risks materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those expressed or implied in any forward-looking statements. I

References in this document to Quanta, Quanta Services, the company, we, us, our or similar are references collectively to Quanta Services, Inc. and its subsidiaries.



2800 POST OAK BLVD. SUITE 2600 | HOUSTON, TX 77056 713.629.7600 | QUANTASERVICES.COM