GRAFTECH INTERNATIONAL LTD Form S-1/A April 02, 2018

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As filed with the Securities and Exchange Commission on April 2, 2018.

Registration No. 333-223791

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

Amendment No. 2 to FORM S-1 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

GRAFTECH INTERNATIONAL LTD.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

3620 (Primary Standard Industrial Classification Code Number) 982 Keynote Circle Brooklyn Heights, OH 44131 **27-2496053** (I.R.S. Employer Identification No.)

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

(216) 676-2000

David J. Rintoul Chief Executive Officer GrafTech International Ltd. 982 Keynote Circle Brooklyn Heights, OH 44131

(216) 676-2000 (Name, address, including zip code, and telephone number, including area code, of agent for service)

(Copies of all communications, including communications sent to agent for service)

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Approximate date of commencement of proposed sale to the public: As soon as practicable after this registration statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box: o

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

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. (Check one):

Large accelerated filer o

Accelerated filer o

Non-accelerated filer ý (Do not check if a smaller reporting company) Smaller reporting company o

Emerging growth company ý

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 7(a)(2)(B) of the Securities Act. \acute{y}

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Proposed maximum aggregate offering price(1)(2)	Amount of registration fee(2)(3)
Common stock, \$0.01 par value per share	\$100,000,000	\$12,450

(1) Includes shares of common stock to be sold by the selling stockholder and shares to be sold upon exercise of the underwriters' overallotment option.

(2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(o) under the Securities Act of 1933, as amended (or the Securities Act).

(3) Previously paid.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

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Subject to completion, dated , 2018

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Preliminary Prospectus

shares

Common stock

This is an initial public offering of common stock of GrafTech International Ltd. The selling stockholder identified in this prospectus is selling share s of our common stock. We will not receive any of the proceeds from the sale of shares of our common stock by the selling stockholder.

This is our initial public offering and no public market currently exists for our common stock. The estimated initial public offering price is between \$ and \$ per share. We have applied to list our common stock on the New York Stock Exchange (NYSE) under the symbol "EAF."

We are an "emerging growth company" as defined in Section 2(a) of the Securities Act of 1933, as amended (or the Securities Act) and will be subject to reduced public company reporting requirements. See "Prospectus Summary Implications of Being an Emerging Growth Company."

Investing in our common stock involves risks. See "Risk Factors" beginning on page 27.

	Per share	Total
Public offering price	\$	\$
Underwriting discount ⁽¹⁾	\$	\$
Proceeds to the selling stockholder	\$	\$

(1) See "Underwriting" beginning on page 167 of the prospectus for additional information regarding total underwriting compensation. The underwriters will not receive an underwriting discount or commission on the sale of our common stock to certain independent director nominees, which allocation will be made at our direction. The selling stockholder will receive the full public offering price for such shares. See "Certain relationships and related party transactions Participation in our Initial Public Offering" for additional information regarding the sale of our common stock to certain independent director nominees.

The selling stockholder has granted the underwriters the right to purchase up to add itional shares of common stock at the public offering price less underwriting discounts and commissions, for the purpose of covering overallotments.

The underwriters expect to deliver the shares of common stock to investors on or about

, 2018.

Neither the Securities and Exchange Commission (or SEC) nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

J.P. Morgan

Credit Suisse

HSBC

Citigroup

RBC Capital Markets

BMO Capital Markets

BNP PARIBAS

CIBC Capital Markets

National Bank Financial

The date of this prospectus is

, 2018.

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We are responsible for the information contained in this prospectus and in any related free-writing prospectus we may prepare or authorize to be delivered to you. We have not authorized anyone to give you any other information, and we take no responsibility for any other information that others may give you. We and the selling stockholder are not, and the underwriters are not, making an offer of these securities in any jurisdiction where the offer is not permitted. You should not assume that the information contained in this prospectus is accurate as of any date other than the date on the front of this prospectus.

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Market and industry data and forecasts

Certain market and industry data included in this prospectus has been obtained from third party sources that we believe to be reliable. Market estimates are calculated by using independent industry publications, government publications and third party forecasts in conjunction with our assumptions about our markets. We have not independently verified such third party information. While we are not aware of any misstatements regarding any market, industry or similar data presented herein, such data involves risks and uncertainties and is subject to change based on various factors, including those discussed under the headings "Special Note Regarding Forward-Looking Statements" and "Risk Factors" in this prospectus.

Trademarks

We own or otherwise have rights to the trademarks, service marks, copyrights and trade names, including those mentioned in this prospectus, used in conjunction with the marketing and sale of our products and services. This prospectus includes trademarks, which are protected under applicable intellectual property laws and are our property and/or the property of our subsidiaries. This prospectus may also contain trademarks, service marks, copyrights and trade names of other companies, which are the property of their respective owners. We do not intend our use or display of other companies' trademarks, service marks, copyrights or trade names to imply a relationship with, or endorsement or sponsorship of us by, any other companies. Solely for convenience, our trademarks, service marks and trade names referred to in this prospectus may appear without the ®, , or SM symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights to these trademarks, service marks and trade names.

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Prospectus summary

This summary highlights information contained elsewhere in this prospectus. It may not contain all the information that may be important to you. You should read the entire prospectus carefully, including the section entitled "Risk Factors" and our financial statements and the related notes included elsewhere in this prospectus, before making an investment decision to purchase shares of our common stock.

Unless the context suggests otherwise, references in this prospectus to "GrafTech," the "Company," "we," "us," and "our" refer to GrafTech International Ltd., a Delaware corporation, and its consolidated subsidiaries. See "Our company" below for more information. References in this prospectus to the "selling stockholder" refer to BCP IV GrafTech Holdings LP, an affiliate of Brookfield Asset Management Inc. and Brookfield Business Partners L.P., and the direct owner of GrafTech. References in this prospectus to "Brookfield" refer to Brookfield Asset Management Inc. and its affiliates. All dollar amounts in this prospectus are in U.S. dollars and are expressed in thousands unless specified otherwise. The financial statements have been prepared in accordance with generally accepted accounting principles in the United States (or GAAP).

Our company

We are a leading manufacturer of high quality graphite electrode products essential to the production of electric arc furnace (or EAF) steel and other ferrous and non-ferrous metals. We believe that we have the most competitive portfolio of low-cost graphite electrode manufacturing facilities in the industry, including three of the five highest capacity facilities in the world (excluding China). We are the only large scale graphite electrode producer that is substantially vertically integrated into petroleum needle coke, the primary raw material for graphite electrode manufacturing, which is currently in limited supply. This unique position provides us with competitive advantages in product quality and cost. Founded in 1886, we have over 125 years of experience in the research and development (or R&D) of graphite- and carbon-based solutions, and our intellectual property portfolio is extensive. We currently have graphite electrode manufacturing facilities in Calais, France, Pamplona, Spain, Monterrey, Mexico and St. Marys, Pennsylvania. Our customers include major steel producers and other ferrous and non-ferrous metal producers in Europe, the Middle East and Africa (or EMEA), the Americas and Asia-Pacific (or APAC), which sell their products into the automotive, construction, appliance, machinery, equipment and transportation industries. Our vision is to be the lowest cost, highest quality producer of graphite electrodes while providing the best customer service. Based on the high quality of our graphite electrodes, reliability of our petroleum needle coke supply and our excellent customer service, we believe that we are viewed as the preferred supplier to the global EAF steel producer market.

Graphite electrodes are an industrial consumable product used primarily in EAF steel production, one of the two primary methods of steel production and the steelmaking technology used by all "mini-mills." Electrodes act as conductors of electricity in the furnace, generating sufficient heat to melt scrap metal, iron ore or other raw materials used to produce steel or other metals. We estimate that, on average, the cost of graphite electrodes represents only approximately 1% to 5% of the total production cost of steel in a typical EAF, but they are essential to EAF steel production. Graphite electrodes are currently the only known commercially available products that have the high levels of electrical conductivity and the capability to sustain the high levels of heat generated in EAF steel production. As a result, EAF steel manufacturers have been willing to pay a premium for a reliable supply of high quality graphite electrodes, and, in some cases, to pass on this premium to their customers in the form of surcharges. Graphite



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electrodes are also used in steel refining in ladle furnaces and in other processes, such as the production of titanium dioxide, stainless steel, aluminum, silicon metals and other ferrous and non-ferrous metals.

Petroleum needle coke, a crystalline form of carbon derived from decant oil, is the primary raw material used in the production of graphite electrodes. We achieved substantial vertical integration with this critical raw material source through our acquisition of Seadrift Coke LP (or Seadrift) in November 2010, significantly reducing our reliance on other suppliers. The petroleum needle coke industry is highly concentrated, with what we believe to be the largest producer, Phillips 66, controlling approximately 50% of capacity. We believe Seadrift is the second largest petroleum needle coke producer in the world. We also believe that the quality of Seadrift's petroleum needle coke is superior for graphite electrode production compared to most of the petroleum needle coke available to our peers on the open market, allowing us to produce higher quality electrodes in a cost-efficient manner. Additionally, we believe that this vertical integration provides a significant cost advantage relative to our competitors in periods of tight petroleum needle coke supply, such as the current market environment. We believe this cost advantage will grow as demand for petroleum needle coke increases for use in lithium-ion batteries in electric vehicles. The demand for petroleum needle coke in lithium-ion batteries is growing rapidly, with usage going from approximately 1,000 MT in 2014 to 60,000 MT in 2017 (representing approximately 9% of 2017 petroleum needle coke demand). This rapidly growing alternative source of demand is a significant development for the petroleum needle coke industry and is contributing to the global shortage in petroleum needle coke.

According to the World Steel Association (or WSA), EAFs accounted for 45%, or 367 million metric tons (or MT), of global crude steel production (excluding China) in 2016. Between 1984 and 2011, EAF steelmaking was the fastest-growing segment of the steel sector, with production increasing at an average rate of 3.5% per year, based on WSA data. Historically, EAF steel production has grown faster than the overall steel market due to the greater resilience, more variable cost structure, lower capital intensity and more environmentally friendly nature of EAF steelmaking. This trend was partially reversed between 2011 and 2015 due to global steel production overcapacity driven largely by Chinese blast furnace (or BOF) steel production. Beginning in 2016, efforts by the Chinese government to restructure China's domestic steel industry have led to limits on Chinese BOF steel production and lower export levels. In addition, developed economies, which typically have much larger EAF steel industries, have instituted a number of trade policies in support of domestic steel producers. As a result, since 2016, the EAF steel market has rebounded strongly and resumed its long-term growth trajectory. This revival in EAF steel production has resulted in increased demand for our graphite electrodes.

At the same time, two supply-side structural changes have contributed to recent record high prices of graphite electrodes. First, ongoing consolidation and rationalization of graphite electrode production capacity have limited the ability of graphite electrode producers to meet demand. We estimate that approximately 20% of graphite electrode industry production capacity (excluding China) has been closed or repurposed since the beginning of 2014, and we believe the majority of these closures represent permanent reductions. Second, demand for petroleum needle coke has outpaced supply due to increasing demand for petroleum needle coke for lithium-ion batteries used in electric vehicles. As a result, graphite electrode prices have recently reached record high prices. Historically, between 2006 and 2016, our weighted average realized price of graphite electrodes was approximately \$4,500 per MT (on an inflation-adjusted basis using constant 2017 dollars) and fell to a historic low of approximately \$2,500 per MT in 2016. With the renewed demand for, and constrained supply of, graphite electrodes, industry spot prices reached record levels of as high as \$15,000 to \$30,000 per MT in the first quarter of 2018. In light of improved market conditions, the long lead time required to produce our products, our position as one of the market's largest producers and our ability, through our substantial vertical integration with Seadrift, to

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provide customers with a reliable long-term supply of graphite electrodes despite the market shortage of petroleum needle coke, we have implemented a new commercial strategy to sell 60% to 65% of our production capacity to our strategic customers through three- to five-year take-or-pay contracts.

<u>GrafTech historical weighted average realized prices and signed three- to five-year weighted average contract prices for graphite electrodes</u>

On August 15, 2015, we became an indirect wholly owned subsidiary of Brookfield through a tender offer to shareholders and subsequent merger transaction. Brookfield is an experienced operator of industrial,

⁽¹⁾ Weighted average realized price for a period reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. The weighted average realized prices in this chart are shown in constant 2017 dollars for comparability. See "Management's Discussion and Analysis of Financial Condition and Results of Operations Key Operating Metrics."

⁽²⁾ Weighted average contract price for a period reflects the volume-weighted average price for graphite electrodes to be delivered under the three- to five-year take-or-pay contracts we have entered into as of March 1, 2018. All of these contracts have fixed prices and either fixed volumes (85% of the portfolio) or a specified volume range (15% of the portfolio). For those contracts with a specified volume range, weighted average contract prices are computed using the volume midpoint. The aggregate difference between the volume midpoint and the minimum and maximum volumes across our cumulative portfolio of take-or-pay contracts with specified volume ranges is approximately 5,000 MT per year in 2019-2022. See "Business Contracts and Customers."

As a leading producer of graphite electrodes, we believe we are well-positioned to benefit from this industry transformation. In 2017, based on our three currently operating facilities, we had the capability, depending on product demand and mix, to manufacture approximately 167,000 MT of graphite electrodes per year. We are also in the process of an operational improvement and debottlenecking initiative and are on target to grow our production capacity at these facilities by approximately 21% to approximately 202,000 MT of production capacity by the end of 2018. If we were then to restart our currently idled St. Marys facility, our overall production capacity would increase by another approximately 14% to 230,000 MT per year. This total production capacity (excluding China). We believe the total worldwide graphite electrode production capacity was approximately 230,000 MT (excluding China), with a capacity utilization of approximately 90% (excluding China), in 2017. Electrode production globally (excluding China) is focused on the manufacture of ultra-high power (or UHP) electrodes for EAFs, while the majority of Chinese production is of ladle electrodes for BOFs. The production of UHP electrodes requires an extensive proprietary manufacturing process and material science knowledge, including the use of superior needle coke blends. As a result, graphite electrode producers inside and outside of China are generally not in direct competition with each other for major product lines.

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natural resource and other tangible asset businesses. This transaction has provided us with a stable equity partner with experience in industrial sectors.

Our executive offices are located at 982 Keynote Circle, Brooklyn Heights, Ohio 44131 and our telephone number is (216) 676-2000. Our Internet website address is www.graftech.com. Information on, or accessible through, our website is not part of this prospectus. We have included our website address only as an inactive textual reference and do not intend it to be an active link to our website.

Key developments

Three major developments have repositioned GrafTech and the graphite electrode industry for long-term growth and significantly improved our financial and operating results:

the restructuring and repositioning of GrafTech;

the return of the EAF steel industry to long-term growth, leading to improved demand for graphite electrodes; and

structural changes in the graphite electrode and petroleum needle coke industries.

We have restructured and repositioned GrafTech for a sustainable leadership position in the graphite electrode industry

Since 2012, we have executed a three-part transformation plan to improve our competitive position and allow us to better serve our customers.

We have achieved annual fixed manufacturing cost improvements and capital expenditure reductions of approximately \$190 million since 2012, while also improving the productivity of our plant network

We have strategically shifted production from our lowest to our highest production capacity facilities to increase fixed cost absorption. In 2018, we expect to produce a greater quantity of graphite electrodes from our three operating facilities in Calais, France, Pamplona, Spain and Monterrey, Mexico, than we did from our six operating facilities in 2012. As a result, we have achieved significant operating leverage at higher capacity utilizations. In our experience, high capacity manufacturing facilities can have operating costs of more than \$1,000 per MT lower than low capacity manufacturing facilities. In addition, we have streamlined fixed costs across our plant network, including a 50% headcount reduction at Seadrift since 2014 and an optimization of Seadrift's systems and manufacturing process to reduce capital expenditure requirements. As a result of these actions, by the end of 2016, we had reduced our annual fixed manufacturing costs by approximately \$80 million and our maintenance capital expenditure requirements by approximately \$45 million since 2012.

By the end of 2016, we had also reduced our annual overhead expenses by approximately \$65 million since 2012 by simplifying our corporate structure from a conglomerate model to a centralized business focused exclusively on the production of graphite electrodes and petroleum needle coke. In addition, we have streamlined and combined our workforce and various administrative functions for efficiency, and eliminated R&D functions unrelated to graphite electrodes.

In addition to our fixed cost reductions, we have been able to achieve significant productivity improvements and variable cost reductions across our plants since 2014. We have improved our manufacturing processes and made strategic investments across our plant network, which have improved productivity, including improvements of approximately 20% at both our Seadrift and Monterrey plants,

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while also reducing our energy and raw material consumption. Our more efficient graphite electrode plants produced at record breaking levels in 2017. In 2017, the Calais and Pamplona plants exceeded previous annual record production levels by 15% and 12%, respectively, and production at the Monterrey plant was 12% higher than the highest annual production level during the past 10 years. We have achieved these production increases by exploiting latent capacity in our plants, which historically have had uneven levels of capacity across each manufacturing process step, by removing artificial constraints on cycle times and improving scheduling processes. The next stage of our operational improvement and debottlenecking initiative is a small capital program concentrated on the graphitizing stage of production at our plants, which we expect will increase our current operating capacity by approximately 21%, or 35,000 MT, by the end of 2018, allowing us to achieve further improvements in our cost structure. As a result of our prior operational improvement activities, we are able to achieve this large capacity increase with specific, highly targeted capital investments. We expect the capital investment for this initiative to be \$37 million. We believe that the optimization of our plant network will continue to drive improved fixed cost absorption and meaningfully lower variable costs.

We have reoriented our commercial strategy

In light of improved market conditions, the long lead time required to produce our products, our position as one of the market's largest producers and our ability, through our substantial vertical integration with Seadrift, to provide customers with a reliable long-term supply of graphite electrodes despite the market shortage of petroleum needle coke, we have implemented a new commercial strategy to sell approximately 60% to 65% of our production capacity to our strategic customers through three- to five-year take-or-pay contracts. These contracts define volumes and prices, along with price-escalation mechanisms for inflation, and include significant termination payments (typically, 50% to 70% of remaining contracted revenue) and, in certain cases, parent guarantees and collateral arrangements to manage our customer credit risk. These new commercial initiatives have led to approximately 636,000 MT, or 60% to 65% of our cumulative production capacity from 2018 to 2022, being contracted as of March 1, 2018. Approximately 132,000 MT of this contracted volume is for 2018. Together with sales volume committed by purchase orders, approximately 96% of our 2018 production capacity is contracted or committed by purchase orders. For future years, our strategy is to retain approximately 35% to 40% of our production capacity for sales on a shorter term or spot basis. Prices in the spot market have currently reached a level three to six times higher than our historical weighted average realized price of \$4,500 per MT (on an inflation-adjusted basis using constant 2017 dollars) between 2006 and 2016. We expect the incremental volume from our operational improvement and debottlenecking initiative to be available to customers on a spot basis, further increasing our exposure to spot prices. Seadrift produces sufficient needle coke to supply 100% of the graphite electrode production that we have contracted under our new take-or-pay contracts. In the first quarter of 2018, the estimated cost of goods sold (excluding depreciation) for electrodes produced with Seadrift needle coke is approximately \$2,600/MT and the estimated variable cost (excluding needle coke and decant oil) is approximately \$1,150/MT. To align with our three- to five-year contract profile, we have hedged the decant oil required to produce all of the graphite electrodes sold under these contracts, providing us with substantial visibility into our future raw material costs. We intend to match the volume and term of our shorter term and spot sales with our third party needle coke purchases. As our currently operating facilities are now operating at or near full production capacity, we also have reviewed our product portfolio and restructured our sales force incentives to maximize the profitability of our product mix.

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We are focused on being the industry's leading producer of the highest performing electrodes

The divestiture of our non-core legacy Engineered Solutions businesses in 2016 and 2017 has allowed our management team to focus on our core competency of graphite electrode production and generated approximately \$60 million in cash proceeds and release of working capital. By focusing our management's attention and R&D spending exclusively on the graphite electrode business, we have been able to meaningfully improve the quality of our graphite electrodes, repositioning ourselves as an industry quality leader and improving our relationships with strategic customers. Our focus on improving the quality of petroleum needle coke through R&D has led to our petroleum needle coke production at Seadrift now being best-in-class for use in the manufacturing of highly durable UHP electrodes. Our customers have responded favorably to the increased quality of our graphite electrodes, and we have increased our market share with leading EAF steel manufacturers as a result.

The EAF steel industry has strengthened, improving demand for our graphite electrodes

Historically, EAF steel production has grown faster than the overall steel market due to the greater resilience, more variable cost structure, lower capital intensity and more environmentally friendly nature of EAF steelmaking. This trend was partially reversed between 2011 and 2015 due to global steel production overcapacity driven largely by Chinese BOF steel production. Beginning in 2016, efforts by the Chinese government to eliminate excess steelmaking production capacity and improve environmental and health conditions have led to limits on Chinese BOF steel production, including the closure of over 200 million MT of its steel production capacity, based on data from S&P Global Platts and the Ministry of Commerce of the People's Republic of China. In 2017, Chinese steel exports fell by more than 30% from 2016, including 17 consecutive months of year-over-year declines, according to the National Bureau of Statistics of China. Reflecting the reduction in steelmaking production capacity, as of October 2017, Chinese steel imports had increased significantly year-over-year, including a 64% year-over-year increase in semi-finished steel billet imports. Further, developed economies, which typically have much larger EAF steel industries, have instituted a number of trade policies in support of domestic steel producers. Declining Chinese steel exports and increasing steel imports should provide additional opportunity for EAF producers outside of China to increase production, thereby increasing demand for graphite electrodes.

We estimate that in 2017, EAF steel production grew at an annual pace of at least 8% to 10% compared with 5% for steelmaking overall. We believe EAF steel producers will continue to take market share from BOF steel producers. As of 2016, according to the WSA, EAF steel production had grown to 67% of total U.S. steel production from 47% in 2000, 44% of total EMEA steel production from 33% in 2000 and 40% of total APAC (excluding China) steel production from 36% in 2000. Over the same period, global EAF production increased from 287 million MT in 2016, while non-EAF steel production (excluding China) was flat at 453 million MT in both 2000 and 2016.

We estimate that at least 105 new EAFs, reflecting 66 million MT of new annual steelmaking production capacity, have been installed or have commenced construction in China in 2017, compared to only 52 million MT of Chinese EAF steel production in 2016. As a result of significantly increased steel production since 2000, the supply of Chinese scrap has increased substantially, providing the Chinese EAF steel manufacturing industry with local scrap feedstock that was not historically available. We believe continued Chinese government environmental actions and an increasing domestic scrap supply will support the ongoing global shift towards EAF steelmaking. Assuming completion of new EAF construction and full EAF capacity utilization, we estimate total graphite electrode demand in China could increase in 2018 by over 100,000 MT from 2017.



The recent restructuring of the graphite electrode industry and changes in the petroleum needle coke industry have reduced supply as demand is recovering

Significant amounts of graphite electrode industry production capacity have recently been removed from the market globally. We estimate that approximately 20% of industry production capacity (excluding China) has been closed or repurposed since the beginning of 2014. Some of these closed manufacturing facilities have sold off equipment, been demolished, undertaken long-term environmental remediation or been repurposed for other manufacturing uses. Accordingly, we believe the majority of these closures represent permanent reductions. As part of this overall industry rationalization, we permanently shut down two plants and temporarily idled our St. Marys plant, reducing our electrode manufacturing from six operating facilities in 2012 to three operating facilities in 2017. Also, in October 2017, the third largest graphite electrode producer acquired the second largest producer.

Further affecting the availability of graphite electrodes, supplies of petroleum needle coke and coal tar (or pitch) needle coke, a less favorable substitute for petroleum needle coke, have been limited starting in the second half of 2017. Demand for petroleum needle coke has outpaced supply due to increasing demand for petroleum needle coke in the production of lithium-ion batteries used in electric vehicles. Supply of pitch for pitch needle coke production has fallen as a result of decreasing coke production for the BOF steel industry. These graphite electrode supply constraints have coincided with the recovery in EAF demand for graphite electrodes, resulting in stronger market conditions for our products.

The table below summarizes these key changes in the industry.

	2011 - 2015	2017
EAF Steel Industry Electrode Demand	EAF steel production declined approximately 10% from 2011 to 2015 after growing faster than the overall steel market for more than 25 years.	EAFs regained market share and resumed faster growth than the overall steel market.
Graphite Electrodes Electrode Supply	China net exports of BOF steel displaced EAF production worldwide. Oversupply driven by historic trough in demand and production capacity additions.	China steel exports are down more than 30% in 2017 from 2016 and are continuing to fall, according to the National Bureau of Statistics of China. We estimate that approximately 20% of graphite electrode production capacity (excluding China) has been closed or repurposed since the beginning of 2014.
	We estimate global production capacity (excluding China) was approximately 1,000,000 MT at 30 plants in 2013.	We estimate current global graphite electrode production capacity (excluding China) is 800,000 MT at
Petroleum Needle Coke <i>Electrode Supply</i>	Excess production capacity and cost disadvantage versus pitch needle coke.	21 plants. Tight supply due to new demand from lithium-ion batteries for electric vehicles and improving graphite electrode demand.

Reduced demand from graphite electrodes.

Increased demand has led to pricing increases of four to six times for petroleum needle coke in the current market compared to one year ago.

During the most recent demand trough, the combination of decreased demand from the EAF steel industry and overcapacity in the graphite electrode industry had an adverse effect on the profitability of our operations, including a net loss of \$235.8 million for the year ended December 31, 2016. We also experienced a net loss from continuing operations of \$108.9 million for the year ended December 31, 2016. However, as a result of the recent developments in the industry summarized above, we expect to experience significant improvement in our 2018 financial results relative to these prior results. We also expect a high degree of stability in our future operating results due to our recent three- to five-year contracting initiative. As of March 1, 2018, we have entered into three- to five-year take-or-pay contracts to sell approximately 132,406, 138,446, 134,831, 117,600 and 112,883 MT in 2018, 2019, 2020, 2021 and 2022, respectively.

Set forth below are selected preliminary estimated unaudited financial results from continuing operations for the two months ended February 28, 2018 and the three months ended March 31, 2018. These financial results are unaudited and should be considered preliminary and subject to change. We have provided

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ranges, rather than specific amounts, for the preliminary results described below as our final results remain subject to the completion of our closing procedures, final adjustments, developments that may arise between now and the time the financial results are finalized, and management's and the audit committee's final reviews. Accordingly, you should not place undue reliance on this preliminary data, which may differ materially from our final results. Please see "Risk Factors," "Special Note Regarding Forward-Looking Statements" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" for a discussion of certain factors that could result in differences between the preliminary financial data reported below and the final results. These preliminary estimates should not be viewed as a substitute for our full unaudited condensed consolidated financial statements prepared in accordance with U.S. GAAP. In addition, they are not necessarily indicative of the results to be achieved in any future period.

These estimates have been prepared by and are the responsibility of management. Our independent registered public accounting firm has not audited, compiled, performed any procedures on or reviewed the preliminary financial data, and accordingly does not express an opinion or any other form of assurance with respect to the preliminary financial data.

For the two months ended February 28, 2018, management estimates:

Sales volume in the range of approximately 27,800 to 28,600 MT

Weighted average realized price in the range of approximately \$9,925 to \$9,975 per MT

Net sales in the range of approximately \$285 to \$294 million

Cost of sales in the range of approximately \$92.5 to \$97 million

Selling and administrative expenses in the range of approximately \$10 to \$11 million including approximately \$1.9 to \$2.4 million of expenses related to this offering and \$0.3 to \$0.5 million of pension and other post-employment benefit (or OPEB) plan expenses

Research and development expenses in the range of approximately \$0.2 to \$0.4 million

Depreciation and amortization in the range of approximately \$10.5 to \$11.5 million (included in cost of sales, selling and administrative expenses, and research and development expenses above)

Other expense in the range of approximately \$1 to \$1.5 million including a non-cash loss on foreign currency remeasurement of \$1 to \$1.5 million

For the three months ended March 31, 2018, management estimates:

Sales volume in the range of approximately to

Weighted average realized price in the range of approximately to

Net sales in the range of approximately to

Cost of sales in the range of approximately to

Selling and administrative expenses in the range of approximately to including approximately to of expenses related to this offering and to of pension and OPEB plan expenses

Research and development expenses in the range of approximately to

Depreciation and amortization in the range of approximately to (included in cost of sales, selling and administrative expenses, and research and development expenses above)

Other expense in the range of approximately to including a non-cash loss on foreign currency remeasurement of to

Weighted average realized price for the two months ended February 28, 2018 benefited from a small portion of our electrode sales being sold on a spot basis. Industry spot prices are at record levels of as high as \$15,000 to \$30,000 per MT. However, as a result of our recent three- to five-year contracting

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initiative and other sales commitments, approximately 96% of our 2018 production capacity is now contracted or committed by purchase orders and will not be available for spot sales. The weighted average selling price of our currently contracted and committed orders for the remaining quarters of 2018 is expected to be approximately \$9,650 per MT. This represents a combination of our three-to five-year take-or-pay contracts as well as other committed business for 2018, which was mostly negotiated in 2017 at lower prices.

We have made the strategic decision to service our long-term strategic customers through our contracted and committed purchase order volume in the second and third quarters of 2018, and as a result, expect to have only minimal production volume available for sales into the spot market during those quarters.

We expect the results of our operational improvement and debottlenecking initiative to increase our production capacity by approximately 21% beginning in the fourth quarter of 2018. We expect the majority of the incremental volume from our capacity expansion to be available for sale to customers on a spot basis going forward.

We expect that the quarter ended March 31, 2018 will benefit from lower cost of goods sold than future quarters of 2018 due to higher input raw material purchase costs in 2018, which will be reflected in cost of goods sold in future quarters.

Competitive strengths

We are one of the two largest producers of graphite electrodes outside of China, accounting for approximately 21% of global production capacity (excluding China), and we believe our strategically positioned global footprint provides us with competitive advantages

We believe our facilities are among the most strategically located and lowest cost large-scale graphite electrode manufacturing plants in the world. Of the 21 graphite electrode manufacturing facilities currently operating outside of China, we estimate that our three operating manufacturing facilities represent approximately 21% of estimated production capacity for graphite electrodes, making us a critical supplier to global EAF steel manufacturers. Our manufacturing facilities are located in the Americas and EMEA, providing us with access to low-cost and reliable energy sources, logistical and freight advantages in sourcing raw materials and shipping our graphite electrodes to our customers compared to our competitors, and excellent visibility into the large North American and European EAF steelmaking markets. Our experience in producing graphite electrodes for a varied global customer base positions us to meet customer requirements across a range of product types and quality levels, including support and technical services, further distinguishing us from our competitors.

We are a pure-play provider of an essential consumable for EAF steel producers, the fastest-growing sector of the steel industry

We estimate that EAF steelmaking grew at an annual pace of at least 8% to 10% in 2017, compared with 5% for steelmaking overall. As a result of the increasing global availability of steel scrap and the more resilient, high-variable cost and environmentally friendly EAF model, we expect EAF producers to continue to grow at a faster rate than BOF producers globally. Additionally, EAF producers are increasingly able to utilize higher quality scrap and iron units, their two primary raw materials, to produce higher quality steel grades and capture market share from BOF producers, while maintaining a favorable cost structure. According to the WSA, in EMEA and the Americas, which together made up 92% of our 2017 net sales, EAF



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producers have increased market share from approximately 37% in 2000 to 48% in 2016, reflecting growth from 190 million MT to 237 million MT. In APAC, which made up approximately 9% of our 2017 net sales, government initiatives in China are expected to result in a greater use of the EAF method in steelmaking despite the historical dominance of BOF producers. These initiatives are the result of efforts to eliminate excess steelmaking production capacity and to improve environmental conditions. The EAF method produces approximately 25% of the carbon dioxide (or CO_2) emissions of a BOF facility and does not require the smelting of virgin iron ore or the burning of coal. Additionally, as a result of significantly increased steel production in China since 2000, the supply of Chinese scrap is expected to increase substantially, which may result in lower scrap prices and provide the Chinese steel manufacturing industry with local scrap feedstock that was not historically available. We believe these trends will allow EAF steel producers to increase their market share and grow at a faster rate than BOF steel producers, resulting in increasing demand for graphite electrodes.

We have capital-efficient growth opportunities available to us

The graphite electrode industry responded to oversupplied markets from 2011 to 2015 with production capacity rationalization and consolidation, and after the normalization of the market for EAF steel in 2017, we expect the resulting graphite electrode supply deficit could last for some time. Additionally, we believe the lead time from initial permitting to full production of a greenfield graphite electrode manufacturing facility would be approximately five to ten years and cost approximately \$10,000 per MT. Similarly, brownfield development is complicated by significant capital costs and space and process constraints. Only one new greenfield graphite electrode facility outside of China has been built since the 1980s and only one significant brownfield expansion has occurred, reflecting the historical difficulty of adding further graphite electrode production capacity. As a result of this long and uncertain time horizon to build new plants, we believe only a few companies have the necessary technology and expertise to meet the rising demand for graphite electrodes.

Our current facilities are modern, strategically located and well-maintained, providing us with ample operational optimization capabilities. We are in the process of expanding our current production capacity of 167,000 MT by approximately 21%, or 35,000 MT, by the end of 2018 through strategic capital investments and operational improvements in baking cycles and the graphitization process. We estimate that the capital cost to achieve this production capacity expansion is approximately \$37 million, or approximately \$1,000 per MT. As a result of our prior operational improvement activities, we are able to achieve this large capacity increase with specific, highly targeted capital investments. We expect these expansions to provide additional fixed cost absorption and drive further efficiencies of scale across our manufacturing base. We also can increase production by resuming production at our currently idled St. Marys facility, depending on market conditions, which would add 28,000 MT, or an increase of approximately 14%, to our expected production capacity at the end of 2018. We believe that resuming production at our St. Marys facility, which we believe is cost-competitive with facilities currently operated by our competitors, would cost approximately \$5 million to \$11 million in capital expenditures and start-up staffing requirements, depending on our targeted production capacity.

We believe we have the industry's most efficient production platform of high production capacity assets with substantial vertical integration

Based on our experience, high capacity manufacturing facilities can have operating costs of more than \$1,000 per MT lower than low capacity manufacturing facilities. Our recent restructuring activities have included the closures of our lower capacity manufacturing facilities in South Africa and Brazil and the

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idling of our St. Marys facility, which together accounted for approximately 35% of our previous production capacity. Our restructuring actions have eliminated approximately \$125 million of annual fixed manufacturing costs and maintenance capital expenditure requirements since 2012. These actions allow us to run our Calais, Pamplona and Monterrey plants at or near 100% capacity utilization. Since 2014, we have also improved our manufacturing processes and made strategic investments across our plant network, which have improved productivity while also reducing our energy and raw material consumption. Following our footprint optimization, we expect to produce a greater quantity of graphite electrodes in 2018 from our three operating facilities than we did from our six operating facilities in 2012. In 2017, the Calais and Pamplona plants exceeded previous annual record production levels by 15% and 12%, respectively, and production at the Monterrey plant was 12% higher than the highest annual production level during the past 10 years. We believe that the optimization of our plant network will continue to drive improved fixed cost absorption and meaningfully lower variable costs.

Moreover, our Seadrift, Calais, Pamplona, Monterrey and St. Marys facilities each provide unique advantages for us. On average, petroleum needle coke represents 25% to 45% of our graphite electrode manufacturing costs, with labor representing only 5% to 10%. Seadrift provides a substantial portion of our petroleum needle coke supply needs internally and at a competitive cost and allows us to maximize capacity utilization more efficiently than competitors, who may be more constrained by petroleum needle coke supply. Seadrift is one of only five petroleum needle coke facilities in the world, excluding a small facility in China, and we believe it is the second largest petroleum needle coke producer in the world. We also believe that Calais, Pamplona and Monterrey are three of the five highest capacity graphite electrode facilities in the world (excluding China), allowing for significant operating leverage. We believe our facilities have significant cost advantages given their scale and access to low cost, reliable energy sources. While much of the production capacity rationalized during the downturn was permanently shut down, we temporarily idled our St. Marys facility and retain the option to restart it. We believe that our St. Marys facility could be cost-competitive with facilities currently operated by our competitors, and we continue to monitor petroleum needle coke availability to assess restarting the plant.

We are the only petroleum needle coke producer in the world specifically focused on the production of graphite electrodes

Our production of petroleum needle coke specifically for graphite electrodes provides us the opportunity to produce super premium petroleum needle coke of the highest quality and allows us to tailor graphite electrodes for customer requirements. Seadrift has 140,000 MT of petroleum needle coke production capacity, which we believe makes it the second largest petroleum needle coke producer in the world. We believe that no petroleum needle coke production capacity has been added outside of China for at least 10 years, given high capital costs and technological barriers. Additionally, the growing petroleum needle coke demand from manufacturers of lithium-ion batteries for electric vehicles has created a shortage of petroleum needle coke available to graphite electrode manufacturers. Sourcing the majority of our petroleum needle coke internally allows us to offer our customers certainty of supply, further enhancing our competitive position and supporting our new three- to five-year, take-or-pay contracts strategy. To align with our three- to five-year contract profile, we have hedged the decant oil required to produce all of the graphite electrode sold under these contracts, providing us with substantial visibility into our future raw material costs. We believe our use of petroleum needle coke is a further competitive advantage, as the use of pitch needle coke, an alternative raw material, results in longer bake times during graphite electrode production, significantly affecting graphite electrode production rates and cost. Finally, the decline in the price of oil and increase in the price of coal tar pitch in recent years has further improved the competitive advantage of using petroleum needle coke relative to pitch needle coke.

Our graphite electrodes and petroleum needle coke are among the highest quality in the industry

After the divestiture of our non-core legacy Engineered Solutions businesses in 2016 and 2017, we focused on our core competency of graphite electrode production and generated approximately \$60 million in cash proceeds and release of working capital from these divestitures. Our restructured and simplified business model has reduced our annual overhead expenses by approximately \$65 million since 2012, allowing us to redeploy the savings into our graphite electrode business. We have identified and implemented mechanical and chemical improvements to our electrodes, invested in the capability to produce super premium petroleum needle coke needed for high-margin UHP graphite electrodes, and optimized our production of pins at our Monterrey plant, which are a critical component used to connect and fasten graphite electrode production on site. As a result, we believe the quality and the consistency of our electrodes is unrivaled in North America and EMEA and on par with that of any producer globally. We have seen customer satisfaction rise to ten-year highs at a time when the industry has been focused on production capacity rationalization rather than quality. We believe the durability and infrequent breakage of our graphite electrodes create operating efficiencies and value opportunities for our customers. We also believe we have a competitive advantage in offering customers our ArchiTech Furnace Productivity System (or ArchiTech), which we believe is the most advanced support and technical service platform in the graphite electrode industry. ArchiTech, which has been installed in 145 customer furnaces, enables our engineers to work with our customers value our high quality products and customer service, and have provide real-time diagnostics and troubleshooting. We believe our customers value our high quality products and customer service, and have provide us with opportunities to expand our business with them as a result.

Our experienced executive leadership and general managers and flexible workforce have positioned us for future earnings growth

Our seasoned leadership is committed to earnings growth. We have undertaken strategic investments to increase our production capacity in a capital-efficient manner while reducing our cost position. Our executive and manufacturing leadership have led manufacturing companies through many cycles and are focused on positioning us for profitable growth in any environment. We expect to grow our production capacity by approximately 21%, or 35,000 MT, in 2018 as a result of our operational improvement and debottlenecking initiative and a further 14%, or 28,000 MT, if we restart production at our currently idled St. Marys facility.

Additionally, since our acquisition by Brookfield, we have reorganized our manufacturing facilities as profit centers. We use LEAN manufacturing techniques, which focus on the constant elimination of waste from the manufacturing process. We also rely on Six Sigma methods, a set of management techniques intended to improve quality by significantly reducing the probability that an error or defect will occur. We believe the LEAN and Six Sigma initiatives have increased overall utilization by optimizing our plant production capacity and controlled costs while also improving quality. We also redesigned general manager incentive plans to reward efficiency gains. Similarly, our labor force is incentivized to drive efficiencies through country-specific labor incentive plans. Further, we believe our positive relations with our labor force allow for increased flexibility.

Business strategies

Implement our new commercial strategy

We believe our customers value certainty of supply of high quality graphite electrodes due to their mission-critical nature in the EAF steelmaking process and relatively low cost compared to the total cost of steelmaking. In light of improved market conditions, the long lead time required to produce our products, our position as one of the market's largest producers and our ability, through our substantial vertical integration with Seadrift, to provide customers with a reliable long-term supply of graphite electrodes despite the market shortage of petroleum needle coke, we have implemented a new commercial strategy to sell 60% to 65% of our production capacity to our strategic customers through three- to five-year take-or-pay contracts for approximately 636,000 MT, or approximately 60% to 65% of our cumulative production capacity from 2018 through 2022. As of March 1, 2018, 13% of these contracts are three- and four-year contracts and 87% are five-year contracts. Furthermore, many of our customers have sought to purchase greater volumes from us than they have historically because of our reliable source of petroleum needle coke and the high quality of our graphite electrodes. This new commercial strategy reflects a shift from our historic approach to sales, which were negotiated annually and on a non-binding basis.

Grow production capacity through capital-efficient operational improvements and the restart of our St. Marys facility

We believe our well-maintained facilities provide us with opportunities to improve our production capacity by approximately 21% from current production capacity levels with relatively low capital investments. We have improved our manufacturing processes and made strategic investments across our plant network, which have improved productivity, including improvements of approximately 20% at both our Seadrift and Monterrey facilities, while also reducing our energy and raw material consumption. We have achieved these production increases by exploiting latent capacity in our plants, which historically have had uneven levels of capacity across each manufacturing process step, by removing artificial constraints on cycle times and improving scheduling processes. These improvements have had the additional advantage of reducing the capital expenditures required to achieve further production capacity increases through debottlenecking. We plan to invest approximately \$37 million to optimize our bake schedules and graphitization processes as part of our operational improvement and debottlenecking initiative. We expect these upgrades at our three operational facilities to include:

Calais: adding graphitizing furnaces and increasing graphitizing production capacity are expected to increase annual production capacity from 46,000 MT to 65,000 MT.

Pamplona: optimizing graphitization cycles, adding a new extrusion press to unlock graphitizing production capacity and adding a new impregnation facility are expected to increase annual production capacity from 66,000 MT to 76,000 MT.

Monterrey: adding a new bake car, bigger furnace, second crane and additional longitudinal furnaces are expected to increase annual production capacity from 55,000 MT to 61,000 MT.

As a result of our prior operational improvement activities, we are able to achieve this large capacity increase with specific, highly targeted capital investments. We also continue to evaluate restarting production at our St. Marys facility. Restarting our St. Marys facility would provide an additional 28,000

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MT of production capacity, or an incremental 14%. Our St. Marys facility has access to low-cost natural gas and electricity, providing what we believe to be a significant cost advantage relative to our competitors. Additionally, its greater proximity to U.S. EAF and non-ferrous metals producers provides it with a further freight cost advantage.

Utilize our production efficiency program to support our focus on cost efficiency

As part of our corporate restructuring, we have reduced corporate overhead expenses by approximately \$65 million, or approximately 60%, from 2012 levels through a strategic realignment of our corporate structure and the elimination of the legacy Engineered Solutions R&D expenses and overhead. We temporarily idled our St. Marys facility and reconfigured our production footprint by closing our Brazil and South Africa manufacturing facilities to drive higher capacity utilizations at our three largest, most strategically located and lowest-cost manufacturing facilities. Additionally, we continue to optimize our capital investment opportunities through rigorous quantitative analysis and deploy simultaneous work process improvements at our manufacturing facilities through LEAN and Six Sigma techniques.

Continue to be a reliable, preferred supplier for mission-critical graphite electrodes

We believe that improvements in overall quality create significant operating efficiencies and value opportunities for our customers, and provide us with the opportunity to increase sales volumes and market share. We continue to work closely with key customers to enhance the durability of our graphite electrodes, reducing the frequency of graphite electrode breaks and enhancing the usable life of our graphite electrodes, to make us their preferred supplier. We will continue to use our petroleum needle coke facility to help secure customer orders of mission-critical graphite electrodes. We believe that at a time of supply uncertainty for many competitors, we will continue to see high demand from our customers.

Maintain balance sheet discipline and strong liquidity to provide strategic flexibility

We plan to maintain a solid balance sheet in order to provide flexibility to grow and invest in our business in all market environments. As of December 31, 2017, after giving effect to (i) our entrance into the 2018 Credit Agreement, the borrowing of \$1,500 million of 2018 Term Loans under the 2018 Credit Agreement on February 12, 2018 and the use of proceeds therefrom and (ii) the issuance as a conditional dividend of a \$750 million promissory note (or the Brookfield Promissory Note) to the selling stockholder, which we expect to issue on or around May 9, 2018 assuming the applicable conditions are met, we would have had approximately \$2,250 million of indebtedness outstanding and total liquidity of approximately \$253.7 million, consisting of \$241.8 million available for borrowing under the 2018 Revolving Credit Facility (taking into account approximately \$8.2 million of outstanding letters of credit issued thereunder) and cash and cash equivalents of approximately \$11.9 million. In addition, prior to the consummation of this offering, we expect to declare a \$160 million conditional cash dividend payable to the selling stockholder. Assuming the applicable conditions are met, we expect to pay the dividend on or around May 9, 2018. See " Recent Developments."

Risk factors

Our business is subject to numerous risks. See "Risk Factors" beginning on page 27. In particular, our business may be adversely affected by, among other factors:

our history of net losses and the possibility that we may not achieve or maintain profitability in the future;

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our inability to implement our business strategies, including our initiative to secure and maintain long-term, take-or-pay customer contracts, in an effective manner;

the fact that pricing for graphite electrodes has historically been cyclical and, in the future, the price of graphite electrodes will likely decline from recent record highs;

the sensitivity of our business and operating results to economic conditions;

our dependence on the global steel industry generally and the EAF steel industry in particular;

the possibility that global graphite electrode overcapacity may adversely affect graphite electrode prices;

the competitiveness of the graphite electrode industry;

our dependence on the supply of petroleum needle coke;

our dependence on supplies of raw materials (in addition to petroleum needle coke) and energy; and

the legal, economic, social and political risks associated with our substantial operations in multiple countries.

Implications of being an emerging growth company

We qualify as an "emerging growth company" as defined in Section 2(a) of the Securities Act of 1933 (or the Securities Act), as modified by the Jumpstart Our Business Startups Act of 2012 (or the JOBS Act). As an emerging growth company, we may take advantage of specified reduced disclosure and other requirements that are otherwise applicable generally to public companies, which are not emerging growth companies.

We may take advantage of these exemptions until such time that we are no longer an emerging growth company. We will remain an "emerging growth company" until the earliest of (1) the last day of the fiscal year following the fifth anniversary of the completion of this offering, (2) the last day of the fiscal year in which we have total annual gross revenue of at least \$1.07 billion, (3) the date on which we are deemed to be a large accelerated filer under the Securities Exchange Act of 1934 (or the Exchange Act), which means the market value of our common stock that is held by non-affiliates exceeds \$700.0 million as of the prior June 30, and (4) the date on which we have issued more than \$1.0 billion in non-convertible debt during the prior three-year period. We have taken advantage of reduced disclosure regarding executive compensation arrangements in this prospectus, and we may choose to take advantage of some but not all of these reduced disclosure obligations in future filings. If we do, the information that we provide to stockholders may be different than you might get from other public companies in which you hold stock.

Under the JOBS Act, emerging growth companies can also delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, will be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

Recent developments

Tax Act

The Tax Cuts and Jobs Act (or the Tax Act), enacted on December 22, 2017, caused us to write down the carrying value of our deferred tax assets as of December 31, 2017, primarily due to the reduction in the U.S. federal corporate tax rate from 35% to 21%. We recognized an

estimated net write down to the value

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of our net deferred tax assets of approximately \$52.2 million. This write down was offset by a corresponding reduction in the valuation allowance against our deferred tax assets. See "Risk Factors Risk related to our business and industry New tax legislation could adversely affect us or our shareholders."

2018 Credit Agreement

On February 12, 2018, we entered into a credit agreement (or, as amended from time to time, the 2018 Credit Agreement), which provides for (i) a \$1,500 million senior secured term loan facility (or the 2018 Term Loan Facility) and (ii) a \$250 million senior secured revolving credit facility (or the 2018 Revolving Credit Facility and, together with the 2018 Term Loan Facility, the Senior Secured Credit Facilities), which may be used from time to time for revolving credit borrowings denominated in dollars or Euro, the issuance of one or more letters of credit denominated in dollars, Euro, Pounds Sterling or Swiss Francs and one or more swing line loans denominated in dollars. On February 12, 2018, GrafTech Finance Inc. (or GrafTech Finance), a Delaware corporation and our wholly owned subsidiary, borrowed \$1,500 million under the 2018 Term Loan Facility is February 12, 2023. Funds received were used to pay off our outstanding debt, including borrowings under our existing credit agreement and the \$300 million principal amount of senior notes due 2020 (or the Senior Notes) and accrued interest relating to such borrowings and the Senior Notes, declare and pay a dividend to the selling stockholder and pay fees and expenses incurred in connection therewith and for other general corporate purposes. See "Management's Discussion and Analysis of Financial Condition and Results of Operations Financing Transactions 2018 Credit Agreement."

Conditional dividend to selling stockholder

Prior to the consummation of this offering, we expect to declare a \$160 million cash dividend payable to the selling stockholder. Payment of this dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the payment of the dividend and (iii) the payment occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to pay the dividend on or around May 9, 2018. However, there can be no assurance that we will meet these conditions by this date or at all. In addition, although this dividend is not expected to be paid until after the consummation of this offering, it will be payable solely to the selling stockholder, as sole stockholder of the Company on the dividend record date, which will be prior to the consummation of this offering. As a result, you will not be entitled to receive any portion of this dividend regardless of when the conditions are satisfied.

Brookfield Promissory Note

Prior to the consummation of this offering, we expect to declare a dividend in the form of the \$750 million Brookfield Promissory Note to the selling stockholder. The issuance of the Brookfield Promissory Note as a dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (each as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the issuance of the Brookfield Promissory Note and (iii) the issuance occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to issue the Brookfield Promissory Note as a dividend on or around May 9, 2018. However, there can be no assurance that we will meet these conditions by this date or at all.



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The Brookfield Promissory Note will mature eight years from the date of issuance and will bear interest at a rate equal to the Adjusted LIBO Rate (as defined in the Brookfield Promissory Note) plus an applicable margin equal to 4.50% per annum, with an additional 2.00% per annum starting from the third anniversary from the date of issuance. We will be permitted to make voluntary prepayments at any time without premium or penalty. All obligations under the Brookfield Promissory Note will be unsecured and guaranteed by all of our existing and future domestic wholly owned subsidiaries that guarantee, or are borrowers under, the Senior Secured Credit Facilities. No funds will be lent or otherwise contributed to us by the selling stockholder in connection with the Brookfield Promissory Note. As a result, we will receive no consideration in connection with its issuance.

Following the issuance of the Brookfield Promissory Note, we plan to explore opportunities to refinance it with debt securities or other long-term debt to the extent available on attractive terms. However, there can be no assurance that we will be able to refinance the Brookfield Promissory Note on commercially reasonable terms in the near term or at all. In addition, there can be no assurance that the terms of any such refinancing indebtedness (including the interest rate) will be as or more favorable to us as the corresponding terms under the Brookfield Promissory Note. See "Management's Discussion and Analysis of Financial Condition and Results of Operations Financing Transactions Brookfield Promissory Note."

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The offering

Common stock offered by the selling stockholder	shares, assuming no exercise by the underwriters of their options to purchase an additional shares of common stock from the selling stockholder to cover overallotments.
Common stock to be issued and outstanding after this offering	shares.
Underwriters' option to purchase additional shares of our common stock	The selling stockholder has granted the underwriters an option, for a period of 30 days, to purchase up to additional shares of our common stock held by it on the same terms and conditions as set forth on the front cover of this prospectus.
Use of proceeds	We will not receive any proceeds from the sale of our common stock by the selling stockholder named in this prospectus.
Proposed purchase by certain director nominees	Certain of our independent director nominees may purchase up to an aggregate of shares of common stock in this offering at the public offering price. The allocation of shares in this offering to our independent director nominees will be made at our direction. The underwriters will not receive any underwriting discount or commission from the shares of our common stock purchased by these director nominees in this offering. Any shares sold to these director nominees will be subject to the lock-up agreements described under the sections entitled "Shares Eligible for Future Sale" and "Underwriting."
Dividend policy	Following the completion of this offering, we currently expect to pay a quarterly cash dividend of \$0.085 per share, or an aggregate of \$0.34 per share on an annualized basis. For the quarterly period ending June 30, 2018, we expect to pay a prorated cash dividend for the period beginning on the closing date of this offering and ending on the last day of that period.
	Our board of directors may change the timing and amount of any future dividend payments or eliminate the payment of future dividends in its sole discretion, without prior notice to our stockholders. Our ability to pay dividends that our board of directors may determine to pay and any future determination by our board of directors to pay dividends on our common stock will depend upon many factors, including our financial position and liquidity, results of operations, legal requirements, restrictions that may be imposed by the terms of our current and future credit facilities and other debt obligations and other factors deemed relevant by our board of directors. See "Dividend Policy."

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Risk factors	Please read the section entitled "Risk Factors" beginning on page 27 for a discussion of some of the factors you should carefully consider before deciding to invest in our common stock.			
NYSE listing and symbol The number of shares of common stock to be is common stock issued and outstanding as of under our Omnibus Equity Incentive Plan.	We have applied to have our common stock listed on the NYSE under the symbol "EAF." ssued and outstanding after the completion of this offering is based on shares , 2018 and excludes an additional shares reserved for future issuance			
Except as otherwise indicated, all information in this prospectus:				
gives effect to a -for-	stock split on our common stock to be effected prior to the completion of this offering.			
assumes an initial public offering prio on the cover page of this prospectus;				
assumes no exercise by the underwrit stockholder to cover overallotments.	ters of their options to purchase an additional shares of common stock from the selling			
	20			

Summary historical consolidated financial and other data

The following tables present selected consolidated financial information of the Company. You should read these tables along with "Management's Discussion and Analysis of Financial Condition and Results of Operations," "Business" and our audited consolidated financial statements and the related notes included elsewhere in this prospectus.

The summary consolidated statement of operations data for the years ended December 31, 2017, 2016 and 2015 (January 1, 2015 to August 14, 2015, Predecessor Period, and August 15, 2015 to December 31, 2015, Successor Period) and the summary consolidated balance sheet data at December 31, 2017 and 2016 have been derived from our audited consolidated financial statements included elsewhere in this prospectus. Our historical results are not necessarily indicative of the results to be expected in the future.

As a result of business combination accounting resulting from our acquisition by Brookfield (see Note 2, Preferred Share Issuance and Merger, of the Notes to the Consolidated Financial Statements included elsewhere in this prospectus), our financial statements are separated into two distinct periods, the period before the consummation of our acquisition by Brookfield (labeled "Predecessor") and the period after that date (labeled "Successor"), to indicate the application of the different basis of accounting between the periods presented. There were no operational activities that changed as a result of our acquisition by Brookfield.

					Successor	Predecessor
				e year ended December 31	For the period August 15 through December 31,	For the period January 1 through August 14,
			2017	2016	2015	2015
			(in tl	ousands, exc	ept share and p	er share data)
Statement of Operations Data:						
Net sales		\$	550,771			\$ 339,907
Income (loss) from continuing operations			14,212	(108,869)	(28,625)	(101,970)
Net income (loss)			7,983	(235,843)	(33,551)	(120,649)
Basic income (loss) per common share(a):						
Income (loss) from continuing operations per share		\$	142,120	\$ (1,088,690)	\$ (286,250)	\$ (0.74)
Weighted average common shares outstanding			100	100	100	137,152,430
Balance Sheet Data (at period end):						
Total assets		\$	1,199,103	\$ 1,172,276	\$ 1,422,015	
Other long-term obligations(b)			68,907	82,148	94,318	
Total long-term debt			322,900	356,580	362,455	
Other Financial Data:						
Net cash provided by operating activities		\$	36,573	\$ 22,815	\$ 23,115	\$ 28,323
Net cash (used in) provided by investing activities		Ŷ	(2,199)	(10,471)	. ,	(39,918)
Net cash (used in) provided by investing activities			(32,995)	(8,317)		20,824
(a) Per share data does not give effect to the effected prior to the completion of this offering.	-for-		stock sj	plit on our c	ommon stock	to be

(b) Represents pension and OPEB and related costs and miscellaneous other long-term obligations.

		Successor	Predecessor
		For the	For the
		period	period
		August 15	January 1
For the year	ar ended	through	through
Dece	mber 31D	ecember 31,	August 14,
2017	2016	2015	2015

(in thousands)

EBITDA from continuing operations(1)	\$ 97,884 \$	(12,251) \$	12,674	\$ (32,197)
Adjusted EBITDA from continuing operations(1)	\$ 95,806 \$	(2,898) \$	14,396	\$ 31,628

		For the year ended December 31,			
(in thousands, except price data)	2017		2016		2015
Sales volume (MT)(2)	172		163		145
Weighted average realized price(3)	\$ 2,945	\$	2,459	\$	3,344
Production volume (MT)(4)	166		151		137
Production capacity (MT)(5)	195		195		195
Production capacity excluding St. Marys during idle period (MT)(6)	167		176		195
Capacity utilization(7)	85%		77%		70%
Capacity utilization excluding St. Marys during idle period(6)	99%		85%		70%

(1) See below for more information and a reconciliation of EBITDA and adjusted EBITDA to net income (loss), the most directly comparable financial measure calculated and presented in accordance with GAAP.

(2) Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. See below for more information on our key operating metrics.

(3) Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. See below for more information on our key operating metrics.

(4) Production volume reflects graphite electrodes produced during the period. See below for more information on our key operating metrics.

(5) Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Actual production may vary. See below for more information on our key operating metrics.

(6) The St. Marys, Pennsylvania facility was temporarily idled effective the second quarter of 2016, except for the machining of semi-finished products sourced from other plants.

(7) Capacity utilization reflects production volume as a percentage of production capacity. See below for more information on our key operating metrics.

Non-GAAP financial measures

In addition to providing results that are determined in accordance with GAAP, we have provided certain financial measures that are not in accordance with GAAP. EBITDA from continuing operations and adjusted EBITDA from continuing operations are non-GAAP financial measures. We define EBITDA from continuing operations, a non-GAAP financial measure, as net income or loss plus interest expense, minus interest income, plus income taxes, discontinued operations and depreciation and amortization. We define adjusted EBITDA from continuing operations plus any pension and OPEB plan expenses, impairments, rationalization-related charges, acquisition costs and costs related to the change in control as well as proxy contests costs, non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar and non-cash fixed asset write-offs. Adjusted EBITDA from continuing operations is the primary metric used by our management and our board of directors to establish budgets and operational goals for managing our business and evaluating our performance.

We monitor adjusted EBITDA from continuing operations as a supplement to our GAAP measures, and believe it is useful to present to investors, because we believe that it facilitates evaluation of our period-to-period operating performance by eliminating items that are not operational in nature, allowing comparison of our recurring core business operating results over multiple periods unaffected by differences in capital structure, capital investment cycles and fixed asset base. In addition, we believe adjusted EBITDA from continuing operations and similar measures are widely used by investors, securities analysts, ratings agencies, and other parties in evaluating companies in our industry as a measure of financial performance and debt-service capabilities.

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Our use of adjusted EBITDA from continuing operations has limitations as an analytical tool, and you should not consider it in isolation or as a substitute for analysis of our results as reported under GAAP. Some of these limitations are:

adjusted EBITDA from continuing operations does not reflect changes in, or cash requirements for, our working capital needs;

adjusted EBITDA from continuing operations does not reflect our cash expenditures for capital equipment or other contractual commitments, including any capital expenditures for future capital expenditure requirements to augment or replace our capital assets;

adjusted EBITDA from continuing operations does not reflect the interest expense or the cash requirements necessary to service interest or principal payments on our indebtedness;

adjusted EBITDA from continuing operations does not reflect tax payments that may represent a reduction in cash available to us;

adjusted EBITDA from continuing operations does not reflect expenses relating to our pension and OPEB plans;

adjusted EBITDA from continuing operations does not reflect impairment of long-lived assets and goodwill;

adjusted EBITDA from continuing operations does not reflect the non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar;

adjusted EBITDA from continuing operations does not reflect rationalization-related charges, acquisition costs, costs related to the change in control and proxy contests costs or the non-cash write-off of fixed assets; and

other companies, including companies in our industry, may calculate EBITDA from continuing operations and adjusted EBITDA from continuing operations differently, which reduces its usefulness as a comparative measure.

In evaluating EBITDA from continuing operations and adjusted EBITDA from continuing operations, you should be aware that in the future, we will incur expenses similar to the adjustments in this presentation. Our presentations of EBITDA from continuing operations and adjusted EBITDA from continuing operations should not be construed as suggesting that our future results will be unaffected by these expenses or any unusual or non-recurring items. When evaluating our performance, you should consider EBITDA from continuing operations and adjusted EBITDA from continuing operations alongside other financial performance measures, including our net income (loss) and other GAAP measures.

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The following table reconciles our non-GAAP key financial measures to the most directly comparable GAAP measures:

Successor Predecessor

For the	For the			
period	period			
January 1	August 15			
through	through	the year	For	
August 14,	ended December 31, December 31,			
2015	2015	2016	2017	

		(in thousands)			
Net income (loss)	\$ 7,983 \$	(235,843) \$	(33,551) \$	(120,649)	
Add:					
Discontinued operations	6,229	126,974	4,926	18,679	
Depreciation and amortization	64,025	77,614	24,424	37,473	
Interest expense	30,823	26,914	9,999	26,211	
Interest income	(395)	(358)	(6)	(363)	
Income taxes	(10,781)	(7,552)	6,882	6,452	
EBITDA from continuing operations	97,884	(12,251)	12,674	(32,197)	
Adjustments:					
Pension and OPEB plan (gain) expenses(1)	(1,611)	(626)	2,397	2,973	
Impairments(2)		2,843		35,381	
Rationalization-related (gains)/charges(3)	(3,970)	2,366	387	3,049	
Acquisition and proxy contests costs(4)	886	8,036	961	22,618	
Non-cash loss (gain) on foreign currency remeasurement(5)	1,731	(5,465)	(2,023)	(196)	
Non-cash fixed asset write-off(6)	886	2,199			
Adjusted EBITDA from continuing operations	\$ 95,806 \$	(2,898) \$	14,396 \$	31,628	

(1) Service and interest cost of our OPEB plans. Also includes a mark-to-market loss (gain) for plan assets as of December of each year. See "Management's Discussion and Analysis of Financial Condition and Results of Operations-Components of Results of Operations-Selling and Administrative Expenses" for more information.

(2) Goodwill impairment in the first quarter of 2015 for the needle coke reporting unit.

(3) Costs associated with rationalizations in our graphite electrode manufacturing operations and in the corporate structure. They include severance charges, contract termination charges, write-off of equipment and (gain)/loss on sale of manufacturing sites.

(4) Legal costs associated with the proxy contests in early 2015; transaction costs associated with the merger transaction with Brookfield in August 2015, resulting in change in control compensation expenses, including the acceleration of stock-based compensation in the period January 1 through August 14, 2015.

(5) Non-cash (gain) loss from foreign currency remeasurement of non-operating liabilities of our non-U.S. subsidiaries where the functional currency is the U.S. dollar.

(6) Non-cash fixed asset write-off recorded for obsolete manufacturing equipment in the fourth quarter of 2016 and the third quarter of 2017.

Key Operating Metrics

Key operating metrics consist of sales volume, weighted average realized price, production volume, production capacity and capacity utilization. Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. For a discussion of our revenue recognition policy, see "Management's Discussion and Analysis of Financial Condition and Results of Operations Critical Accounting Policies Revenue Recognition." Under our policy, volume discounts and rebates are recorded as

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a reduction of revenue in conjunction with the sale of the graphite electrodes, and shipping and handling revenues relating to graphite electrodes sold are included as an increase to revenue. Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. Production volume reflects graphite electrodes produced during the period. Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Capacity utilization reflects production volume as a percentage of production capacity.

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Risk factors

Investing in our common stock involves a high degree of risk. You should carefully consider the following risk factors, as well as other information contained in this prospectus, before deciding to invest in our common stock. The occurrence of any of the following risks could materially and adversely affect our business, financial condition, results of operations and cash flow, in which case the trading price of our common stock could decline and you could lose all or part of your investment.

Risks related to our business and industry

We have a history of net losses and may not achieve or maintain profitability in the future.

We have a history of significant net operating losses, including a net loss of \$235.8 million for the year ended December 31, 2016. We may not be able to achieve or maintain profitability for the current or any future fiscal year. Our ability to achieve and maintain profitability depends on a number of factors, including the growth rate of the graphite electrode industry, the price of our products, the cost to produce our products, the competitiveness of our products and the production capacity at our existing plants. We may incur significant losses in the future for a number of reasons, including due to the other risks described in this prospectus, and we may encounter unforeseen expenses, difficulties, complications and delays and other unknown events. In addition, as a public company, we will incur significant legal, accounting and other expenses that we did not incur as a private company. As a result, our operations may not achieve profitability in the future and, even if we do achieve profitability, we may not be able to maintain or increase it.

We may be unable to implement our business strategies, including our initiative to secure and maintain three- to five-year take-or-pay customer contracts, in an effective manner.

Our future financial performance and success largely depend on our ability to implement our business strategies for growth successfully. We have undertaken, and will continue to undertake, various business strategies to sell a significant portion of our production capacity through three-to five-year, take-or-pay contracts, grow our production capacity, and improve operating efficiencies and generate cost savings. We cannot assure you that we will successfully implement our business strategies or that implementing these strategies will sustain or improve and not harm our results of operations. In particular, our ability to implement our new strategy to enter into three- to five-year take-or-pay contracts successfully is subject to certain risks, including customers seeking to renegotiate key terms of their contracts, such as pricing and specified volume commitments, in the event market conditions change during the contract term; our inability to extend contracts when they expire; and a disruption in our access to Seadrift-produced petroleum needle coke, which we will rely on to deliver the contracted volumes under the contracts. In addition, the costs involved in implementing our strategies may be significantly greater than we currently anticipate. For example, our ability to complete production capacity expansions or make other operational improvements as planned may be delayed or interrupted by the need to obtain environmental and other regulatory approvals, the availability of labor and materials, unforeseen hazards, such as weather conditions, and other risks customarily associated with construction projects. Moreover, the cost of expanding production capacity could have a negative impact on our financial results until capacity utilization is sufficient to absorb the incremental costs associated with the expansion.

Our business strategies are based on our assumptions about future demand for our products and on our continuing ability to produce our products profitably. Each of these factors depends, among other things,



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on our ability to finance our operations, maintain high-quality and efficient manufacturing operations, respond to competitive and regulatory changes, access quality raw materials in a cost-effective and timely manner, and retain and attract highly skilled technical, managerial, marketing and finance personnel. Any failure to develop, revise or implement our business strategies in a timely and effective manner may adversely affect our business, financial condition, results of operations or cash flows.

Pricing for graphite electrodes has historically been cyclical and, in the future, the price of graphite electrodes will likely decline from recent record highs.

Pricing for graphite electrodes has historically been cyclical, reflecting the demand trends of the global EAF steelmaking industry and the supply of graphite electrodes. In addition, as petroleum needle coke reflects a significant percentage of the raw material cost of graphite electrodes, graphite electrodes have historically been priced at a spread to petroleum needle coke, which in the past has increased in tight demand markets. Historically, between 2006 and 2016, our weighted average realized price of graphite electrodes was approximately \$4,500 per MT (on an inflation-adjusted basis using constant 2017 dollars).

During the most recent demand trough, our weighted average realized price of graphite electrodes fell to approximately \$2,500 per MT in 2016, on an inflation-adjusted basis using constant 2017 dollars. Following the significant rationalization of graphite electrode production globally, the resumption of growth in EAF steel production, falling scrap prices, reductions in Chinese steel production and constrained supply of needle coke, graphite electrode prices have recently reached record highs. For example, graphite electrode industry spot prices reached record levels of as high as \$15,000 to \$30,000 per MT in the first quarter of 2018. As of March 1, 2018, we have executed three- to five-year take-or-pay contracts, representing approximately 60% to 65% of our production capacity from 2018 through 2022. The weighted average contract price for the contracted volumes over the next five years is approximately \$9,700 per MT. If spot prices remain above our contract prices, our profitability may be negatively impacted compared to what it would have been if we had sold the contracted volume in the spot market. However, due to the cyclical nature of graphite electrode pricing, this recent upward pricing trend is likely not sustainable and, as a result, the price for graphite electrodes will likely decline in the future. Our business, financial condition and operating results could be materially and adversely affected to the extent prices for graphite electrodes decline in the future to or below our historical weighted average realized price levels.

Our business and operating results have been and will continue to be sensitive to economic conditions and a downturn in economic conditions may materially adversely affect our business.

Our operations and performance are materially affected by global and regional economic conditions. As described further below, we are dependent on the steel industry, which historically has been highly cyclical and is affected by general economic conditions. An economic downturn may reduce customer demand, reduce prices for our products or inhibit our ability to produce our products, which would negatively affect our operating results. Our business and operating results have also been and will continue to be sensitive to declining consumer and business confidence; fluctuating commodity prices; volatile exchange rates and other challenges that can affect the economy. Our customers may experience deterioration of their businesses, cash flow shortages and difficulty obtaining financing, leading them to delay or cancel plans to purchase our products or seek to renegotiate terms of their supply contracts, and they may not be able to fulfill their obligations to us in a timely fashion. Further, suppliers and other business partners may experience similar conditions, which could impact their ability to fulfill their obligations to us. Also, it could be difficult to find replacements for business partners without incurring significant delays or cost increases. These events would negatively impact our revenues and results of operations.

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We are dependent on the global steel industry generally and the EAF steel industry in particular, and a downturn in these industries may materially adversely affect our business.

We sell our products primarily to the EAF steel production industry. The steel industry historically has been highly cyclical and is affected significantly by general economic conditions. Significant customers for the steel industry include companies in the automotive, construction, appliance, machinery, equipment and transportation industries, which are industries that were negatively affected by the general economic downturn and the deterioration in financial markets, including severely restricted liquidity and credit availability, in the recent past. In particular, EAF steel production declined approximately 17% from 2008 to 2009 as a result of that general economic downturn and deterioration in financial markets.

In addition, EAF steel production declined approximately 10% from 2011 to 2015 due to global steel production overcapacity driven largely by Chinese BOF steel production. Since 2016, however, the EAF steel market has rebounded strongly and resumed its long-term growth trajectory. Our customers, including major steel producers, have in the past experienced and may again experience downturns or financial distress that could adversely impact our ability to collect our accounts receivable on a timely basis or at all.

Global graphite electrode overcapacity has adversely affected graphite electrode prices in the past, and may adversely affect them again in the future, which could negatively impact our sales, margins and profitability.

Overcapacity in the graphite electrode industry has adversely affected pricing and may do so again. The rapid growth of Chinese steel production after 2010, which was primarily produced from BOF steelmaking, created a significant global oversupply of steel. Chinese steel exports gained market share from EAF producers, creating graphite electrode industry oversupply and inventory de-stocking in this period. Historically, between 2006 and 2016, our weighted average realized price of graphite electrodes was approximately \$4,500 per MT (on an inflation-adjusted basis using constant 2017 dollars). During the most recent demand trough, our weighted average realized price fell to approximately \$2,500 per MT in 2016. Although Chinese steel production has decreased since 2016 as a result of the enactment of certain Chinese governmental initiatives, any significant future growth in Chinese BOF steel production could once again lead to an oversupply of steel, which would adversely affect the price of graphite electrodes.

An increase in global graphite electrode production capacity that outpaces an increase in demand for graphite electrodes could adversely affect the price of graphite electrodes. Excess production capacity may result in manufacturers producing and exporting electrodes at prices that are lower than prevailing domestic prices, and sometimes at or below their cost of production. Excessive imports into the Americas and EMEA, which collectively make up 90% of our market, can also exert downward pressure on graphite electrode prices, which negatively affects our sales, margins and profitability.

The graphite industry is highly competitive. Our market share, net sales or net income could decline due to vigorous price and other competition.

Competition in the graphite industry (other than, generally, with respect to new products) is based primarily on price, product differentiation and quality, delivery reliability and customer service. Graphite electrodes, in particular, are subject to rigorous price competition. Competition with respect to new products is, and is expected to continue to be, based primarily on price, performance and cost effectiveness, customer service as well as product innovation. Competition could prevent implementation of price increases, require price reductions or require increased spending on research and development, marketing and sales that could adversely affect us. In such a competitive market, changes in market



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conditions, including customer demand and technological development, could adversely affect our competitiveness, sales and/or profitability.

We are dependent on the supply of petroleum needle coke. Our results of operations could deteriorate if recent disruptions in the supply of petroleum needle coke continue or worsen for an extended period.

Petroleum needle coke is the primary raw material used in the production of graphite electrodes. The supply of petroleum needle coke has been limited starting in the second half of 2017 as the demand for petroleum needle coke has outpaced supply due to increasing demand for petroleum needle coke for use in the production of lithium-ion batteries used in electric vehicles. Seadrift currently provides approximately 75% of our current petroleum needle coke requirements, and we purchase the remaining 25% from a variety of external sources. We plan to rely on Seadrift-produced petroleum needle coke to support the production of the contracted volumes of graphite electrodes under our three- to five-year take-or-pay contracts. As a result, a disruption in Seadrift's production of petroleum needle coke from external sources at a higher cost to support the production of these contracted volumes. Moreover, although estimates vary as to the duration of this period of tight petroleum needle coke supply, if the current market shortage of petroleum needle coke continues or worsens, we may be unable to acquire sufficient amounts of petroleum needle coke from external sources to support the 25% of our needle coke requirements currently used in the production of graphite electrodes for sale in the spot market. As a result, a continued or worsening disruption in the supply of petroleum needle coke could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We are dependent on supplies of raw materials (in addition to petroleum needle coke) and energy. Our results of operations could deteriorate if those supplies increase in cost or are substantially disrupted for an extended period.

We purchase raw materials and energy from a variety of sources. In many cases, we purchase them under short-term contracts or on the spot market, in each case at fluctuating prices. The availability and price of raw materials and energy may be subject to curtailment or change due to:

limitations, which may be imposed under new legislation or regulation;

suppliers' allocations to meet demand from other purchasers during periods of shortage (or, in the case of energy suppliers, extended hot or cold weather);

interruptions or cessations in production by suppliers; and

market and other events and conditions.

Petroleum and coal products, including decant oil and pitch, which are our principal raw materials other than petroleum needle coke, and energy, particularly natural gas, have been subject to significant price fluctuations. For example, Seadrift may not always be able to obtain an adequate quantity of suitable low-sulfur decant oil for the manufacture of petroleum needle coke, and capital may not be available to install equipment to allow use of higher sulfur decant oil (which is more readily available in the United States) if supplies of low-sulfur decant oil become more limited in the future.

We have in the past entered into, and may continue in the future to enter into, derivative contracts and short-duration fixed rate purchase contracts to effectively fix a portion of our exposure to certain products. These strategies may not be available or successful in eliminating our exposure. A substantial increase in



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raw material or energy prices that cannot be mitigated or passed on to customers or a continued interruption in supply, particularly in the supply of decant oil or energy, would have a material adverse effect on our business, financial condition, results of operations or cash flows.

We are subject to a variety of legal, economic, social and political risks associated with our substantial operations in multiple countries, which could have a material adverse effect on our financial and business operations.

A substantial majority of our net sales are derived from sales outside the United States, and a majority of our operations and our total property, plant and equipment and other long-lived assets are located outside the United States. As a result, we are subject to risks associated with operating in multiple countries, including:

currency fluctuations and devaluations in currency exchange rates, including impacts of transactions in various currencies, translation of various currencies into dollars for U.S. reporting and financial covenant compliance purposes, and impacts on results of operations due to the fact that the costs of our non-U.S. operations are primarily incurred in local currencies while their products are primarily sold in dollars and euros;

imposition of or increases in customs duties and other tariffs;

imposition of or increases in currency exchange controls, including imposition of or increases in limitations on conversion of various currencies into dollars, euros, or other currencies, making of intercompany loans by subsidiaries or remittance of dividends, interest or principal payments or other payments by subsidiaries;

imposition of or increases in revenue, income or earnings taxes and withholding and other taxes on remittances and other payments by subsidiaries;

inflation, deflation and stagflation in any country in which we have a manufacturing facility;

imposition of or increases in investment or trade restrictions by the United States or other jurisdictions or trade sanctions adopted by the United States;

inability to determine or satisfy legal requirements, effectively enforce contract or legal rights, including our rights under our three- to five-year take-or-pay contracts, and obtain complete financial or other information under local legal, judicial, regulatory, disclosure and other systems; and

nationalization or expropriation of assets, and other risks that could result from a change in government or government policy, or from other political, social or economic instability.

Any of these risks could have a material adverse effect on our business, financial condition, results of operations or cash flows, and we may not be able to mitigate these effects.

The fluctuation of foreign currency exchange rates could materially harm our financial results.

Changes in foreign currency exchange rates have in the past resulted, and may in the future result, in significant gains or losses. When the currencies of non-U.S. countries in which we have a manufacturing facility decline (or increase) in value relative to the U.S. dollar, this has the effect of reducing (or increasing) the U.S. dollar equivalent cost of sales and other expenses with respect to those facilities. In certain countries in which we have manufacturing facilities, and in certain instances where we price our products for sale in export markets, we sell in currencies other than the dollar. Accordingly, increases (or

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declines) in value in these currencies relative to the U.S. dollar have the effect of increasing (or reducing) our net sales. The result of these effects is to increase (or decrease) operating profit and net income. Additionally, as part of our cash management, we have non-U.S. dollar-denominated intercompany loans between our subsidiaries. These loans are deemed to be temporary and, as a result, remeasurement gains and losses on these loans are recorded as currency gains and losses in other income (expense), net, on the Consolidated Statements of Income. We have in the past entered into, and may in the future enter into, foreign currency derivatives to attempt to manage exposure to changes in currency exchange rates. These hedges may be insufficient or ineffective in protecting against the impact of these fluctuations. We also may purchase or sell these financial instruments, and open and close hedges or other positions, at any time. Fluctuations in foreign currency exchange rates could materially harm our financial results.

Our results of operations could deteriorate if our manufacturing operations were substantially disrupted for an extended period for any reason, including equipment failure, climate change, natural disasters, public health crises, political crises or other catastrophic events.

Our manufacturing operations are subject to disruption due to equipment failure, extreme weather conditions, floods, hurricanes and tropical storms and similar events, major industrial accidents, including fires or explosions, cybersecurity attacks, strikes and lockouts, adoption of new laws or regulations, changes in interpretations of existing laws or regulations or changes in governmental enforcement policies, civil disruption, riots, terrorist attacks, war, public health crises and other events. These events may also impact the operations of one or more of our suppliers. For example, the potential physical impacts of climate change on our operations are uncertain and will likely be particular to the geographic circumstances. These physical impacts may include changes in rainfall and storm patterns, shortages of water or other natural resources, changing sea levels, and changing global average temperatures. For instance, our Seadrift facility in Texas and our Calais facility in France are located in geographic areas less than 50 feet above sea level. As a result, any future rising sea levels could have an adverse impact on their operations and on their suppliers. In addition, our three operating manufacturing facilities are currently operating at or near full production capacity. As a result, in the event manufacturing operations are substantially disrupted at one of our operating facilities, we will not have the ability to increase production at our remaining operating facilities in order to compensate. To the extent any of these events occur, our business, financial condition and operating results could be materially and adversely affected.

Plant production capacity expansions may be delayed or may not achieve the expected benefits.

Our ability to complete currently planned or future production capacity expansions, including our operational improvement and debottlenecking initiative and the potential restart of our St. Marys plant, may be delayed, interrupted or otherwise limited by the need to obtain environmental and other regulatory approvals, unexpected cost increases, availability of labor and materials, unforeseen hazards such as weather conditions, and other risks customarily associated with construction projects. For example, the potential restart of our St. Marys plant will be substantially dependent on the availability of external sources of petroleum needle coke. Moreover, the costs of these activities could have a negative impact on our results of operations, particularly until capacity utilization at the facility is sufficient to absorb the incremental costs of expansion. In addition, completed capacity expansions may not achieve the expected benefits as a result of changes in market conditions, raw material shortages or other unforeseen contingencies.

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We depend on third parties for certain construction, maintenance, engineering, transportation, warehousing and logistics services.

We contract with third parties for certain services relating to the design, construction and maintenance of various components of our production facilities and other systems. If these third parties fail to comply with their obligations, we may experience delays in the completion of expansions of existing facilities or the facilities may not operate as intended, which may result in delays in the production of our products and materially adversely affect our ability to meet our production targets and satisfy customer requirements or we may be required to recognize impairment charges. In addition, production delays could cause us to miss deliveries and breach our contracts, which could damage our relationships with our customers and subject us to claims for damages under our contracts. Any of these events could have a material adverse effect on our business, financial condition, results of operations or cash flows.

We also rely primarily on third parties for the transportation of the products we manufacture. In particular, a significant portion of the goods we manufacture are transported to different countries, which requires sophisticated warehousing, logistics and other resources. If any of the third parties that we use to transport products are unable to deliver the goods we manufacture in a timely manner, we may be unable to sell these products at full value or at all, which could cause us to miss deliveries and breach our contracts, which could damage our relationships with our customers and subject us to claims for damages under our contracts. Any of these events could have a material adverse effect on our business, financial condition, results of operations or cash flows.

We may not be able to recruit or retain key management and plant operating personnel.

Our success is dependent on the management and leadership skills of our key management and plant operating personnel. Following the completion of our acquisition by Brookfield, our management team has been reorganized, including the establishment of new positions reporting directly to the chief executive officer, and significant competencies have been added to the management team to further strengthen our business. The loss of any member of our reorganized key management team and personnel or an inability to attract, retain, develop and maintain additional personnel could prevent us from implementing our business strategy. In addition, our future growth and success also depend on our ability to attract, train, retain and motivate skilled managerial, sales, administration, operating and technical personnel. The loss of one or more members of our key management or plant operating personnel, or the failure to attract, retain and develop additional key personnel, could have a material adverse effect on our business, financial condition, results of operations or cash flows.

If we are unable to successfully negotiate with the representatives of our employees, including labor unions, we may experience strikes and work stoppages.

We are party to collective bargaining agreements and similar agreements with our employees. As of December 31, 2017, approximately 718 employees, or 55%, of our worldwide employees, are covered by collective bargaining or similar agreements. As of December 31, 2017, approximately 716 employees, or 55% of our worldwide employees, were covered by agreements that expire, or are subject to renegotiation, at various times through December 31, 2018. Although we believe that, in general, our relationships with our employees are good, we cannot predict the outcome of current and future negotiations and consultations with employee representatives, which could have a material adverse effect on our business. We may not succeed in renewing or extending these agreements on terms satisfactory to us. Although we have not had any material work stoppages or strikes during the past decade, they may occur in the future during renewal or extension negotiations or otherwise. A material work stoppage, strike or other union dispute could adversely affect our business, financial condition, results of operations and cash flows.



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We may divest or acquire businesses, which could require significant management attention or disrupt our business.

We may divest or acquire businesses to rationalize or expand our businesses and enhance our cash flows. For example, on February 26, 2016, we announced a strategic review of our Engineered Solutions businesses to better direct its resources and simplify its operations. The disposition of those businesses was substantially complete by the end of the third quarter of 2017.

Any acquisitions that we are able to identify and complete may involve a number of risks, including:

our inability to successfully or profitably integrate, operate, maintain and manage our newly acquired operations or employees;

the diversion of our management's attention from our existing business;

possible material adverse effects on our results of operations during the integration process;

becoming subject to contingent or other liabilities, including liabilities arising from events or conduct predating the acquisition that were not known to us at the time of the acquisition; and

our possible inability to achieve the intended objectives of the transaction, including the inability to achieve cost savings and synergies.

Any divestitures may also involve a number of risks, including the diversion of management's attention, significant costs and expenses, the loss of customer relationships and cash flow, and the disruption of the affected business or business operations. Failure to timely complete or to consummate an acquisition or a divestiture may negatively affect the valuation of the affected business or business operations or result in restructuring charges.

We have significant goodwill on our balance sheet that is sensitive to changes in the market, which could result in impairment charges.

We have \$171.1 million of goodwill on our balance sheet as of December 31, 2017. Our annual impairment test of goodwill was performed in the fourth quarter of 2017. The estimated fair values of our reporting units were based on discounted cash flow models derived from internal earnings forecasts and assumptions. The assumptions and estimates used in these valuations incorporated the current and expected economic environment. In that annual impairment test, our graphite electrode reporting unit's fair value exceeded its carrying value. During the first quarter of 2015, as a result of our ongoing monitoring of triggering events, we recorded a goodwill impairment charge in our petroleum needle coke reporting unit totaling \$35.4 million. A deterioration in the global economic environment or in any of the input assumptions in our calculation could adversely affect the fair value of our reporting units and result in further impairment of some or all of the goodwill on the balance sheet.

We may be subject to information technology systems failures, cybersecurity attacks, network disruptions and breaches of data security, which could compromise our information and expose us to liability.

Our information technology systems are an important element for effectively operating our business. Information technology systems failures, including risks associated with any failure to maintain or upgrade our systems, network disruptions and breaches of data security could disrupt our operations by impeding our processing of transactions, our ability to protect customer or company information or our financial reporting, leading to increased costs. It is possible that future technological developments could adversely

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affect the functionality of our computer systems and require further action and substantial funds to prevent or repair computer malfunctions. Our computer systems, including our back-up systems, could be damaged or interrupted by power outages, computer and telecommunications failures, computer viruses, cybercrimes, internal or external security breaches, events such as fires, earthquakes, floods, tornadoes and hurricanes, or errors by our employees. Although we have taken steps to address these concerns by implementing network security, back-up systems and internal control measures, these steps may be insufficient or ineffective and a system failure or data security breach could have a material adverse effect on our business, financial condition, results of operations or cash flows.

Further, we collect data, including personally identifiable information of our employees, in the course of our business activities and transfer such data between our affiliated entities, to and from our business partners and to third-party service providers, which may be subject to global data privacy laws and cross-border transfer restrictions. While we take steps to comply with these legal requirements, any changes to such laws may impact our ability to effectively transfer data across borders in support of our business operations and any breach of such laws may lead to administrative, civil or criminal liability, as well as reputational harm to the Company and its employees. For example, the European Union's General Data Protection Regulation (GDPR), which is enforceable as of May 25, 2018, introduces a number of new obligations for subject companies, including obligations relating to data transfers and the security of personal data they process. We take steps to protect the security and integrity of the information we collect, but there is no guarantee that the steps we have taken will prevent inadvertent or unauthorized use or disclosure of such information, or prevent third parties from gaining unauthorized access to this information despite our efforts. Any such incident could result in legal claims or proceedings, liability under laws that protect the privacy of personally identifiable information (including the GDPR) and damage to our reputation.

The cost of ongoing compliance with global data protection and privacy laws and the potential fines and penalties levied in the event of a breach of such laws may have an adverse effect on our business and operations. For example, the GDPR currently provides that supervisory authorities in the European Union may impose administrative fines for non-compliance of up to \notin 20,000,000 or 4% of the subject company's annual, group-wide turnover (whichever is higher) and individuals who have suffered damage as a result of a subject company's non-compliance with the GDPR also have the right to seek compensation from such company. We will need to continue dedicating financial resources and management time to compliance efforts with respect to global data protection and privacy laws, including the GDPR.

Our ability to grow and compete effectively depends on protecting our intellectual property. Failure to protect our intellectual property could adversely affect our business.

We believe that our intellectual property, consisting primarily of patents and proprietary know-how and information, is important to our growth. Failure to protect our intellectual property may result in the loss of the exclusive right to use our technologies. We rely on patent, trademark, copyright and trade secret laws and confidentiality and restricted use agreements to protect our intellectual property. However, some of our intellectual property is not covered by any patent or patent application or any such agreement. Intellectual property protection does not protect against technological obsolescence due to developments by others or changes in customer needs.

Patents are subject to complex factual and legal considerations. Accordingly, the validity, scope and enforceability of any particular patent can be uncertain. Therefore, we cannot assure you that:

any of the U.S. or non-U.S. patents now or hereafter owned by us, or that third parties have licensed to us or may in the future license to us, will not be circumvented, challenged or invalidated;



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any of the U.S. or non-U.S. patents that third parties have non-exclusively licensed to us, or may non-exclusively license to us in the future, will not be licensed to others; or

any of the patents for which we have applied or may in the future apply will be issued at all or with the breadth of claim coverage we seek.

Moreover, patents, even if valid, only provide protection for a specified limited duration. In addition, effective patent, trademark and trade secret protection may be limited or unavailable or we may not apply for it in the United States or in any of the other countries in which we operate.

The protection of our intellectual property rights may be achieved, in part, by prosecuting claims against others who we believe have misappropriated our technology or have infringed upon our intellectual property rights, as well as by defending against misappropriation or infringement claims brought by others against us. Our involvement in litigation to protect or defend our rights in these areas could result in a significant expense to us, adversely affect the development of sales of the related products, and divert the efforts of our technical and management personnel, regardless of the outcome of such litigation.

We cannot assure you that agreements designed to protect our proprietary know-how and information will not be breached, that we will have adequate remedies for any such breach, or that our strategic alliance suppliers and customers, consultants, employees or others will not assert rights against us with respect to intellectual property arising out of our relationships with them.

Third parties may claim that our products or processes infringe their intellectual property rights, which may cause us to pay unexpected litigation costs or damages or prevent us from selling our products or services.

From time to time, we may become subject to legal proceedings, including allegations and claims of alleged infringement or misappropriation by us of the patents and other intellectual property rights of third parties. We cannot assure you that the use of our patented technology or proprietary know-how or information does not infringe the intellectual property rights of others. In addition, attempts to enforce our own intellectual property claims may subject us to counterclaims that our intellectual property rights are invalid, unenforceable or are licensed to the party against whom we are asserting the claim or that we are infringing that party's alleged intellectual property rights. We may also be obligated to indemnify affiliates or other partners who are accused of violating third parties' intellectual property rights by virtue of those affiliates or partners' agreements with us, and this could increase our costs in defending such claims and our damages.

Legal proceedings involving intellectual property rights, regardless of merit, are highly uncertain and can involve complex legal and scientific analyses, can be time consuming, expensive to litigate or settle and can significantly divert resources, even if resolved in our favor. Our failure to prevail in such matters could result in loss of intellectual property rights or judgments awarding substantial damages and injunctive or other equitable relief against us. If we were to be held liable or discover or be notified that our products or processes potentially infringe or otherwise violate the intellectual property rights of others, we may face a loss of reputation and may not be able to exploit some or all of our intellectual property rights or technology. If necessary, we may seek licenses to intellectual property of others. However, we may not be able to obtain the necessary licenses on terms acceptable to us or at all. Our failure to obtain a license from a third party for that intellectual property necessary for the production or sale of any of our products could cause us to incur substantial liabilities and/or suspend the production or shipment of products or the use of processes requiring the use of that intellectual property. We may be required to substantially re-engineer our products or processes to avoid infringement.



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Any of the foregoing may require considerable effort and expense, result in substantial increases in operating costs, delay or inhibit sales or preclude us from effectively competing in the marketplace, which in turn could have a material adverse effect on our business and financial results.

Our operations are subject to hazards which could result in significant liability to us.

Our operations are subject to hazards associated with manufacturing and the related use, storage, transportation and disposal of raw materials, products and wastes. These hazards include explosions, fires, severe weather (including but not limited to hurricanes or other adverse weather that may be increasing as a result of climate change) and natural disasters, industrial accidents, mechanical failures, discharges or releases of toxic or hazardous substances or gases, transportation interruptions, human error and terrorist activities. These hazards can cause personal injury and loss of life, severe damage to or destruction of property and equipment as well as environmental damage, and may result in suspension of operations and the imposition of civil and criminal liabilities, including penalties and damage awards. While we believe our insurance policies are in accordance with customary industry practices, such insurance may not cover all risks associated with the hazards of our business and is subject to limitations, including deductibles and maximum liabilities covered. We may incur losses beyond the limits, or outside the coverage, of our insurance policies. In the future, we may not be able to obtain coverage at current levels, and our premiums may increase significantly on coverage that we maintain. Costs associated with unanticipated events in excess of our insurance coverage could have a material adverse effect on our business, competitive or financial position or our ongoing results of operations.

Stringent health, safety and environmental regulations applicable to our manufacturing operations and facilities could result in substantial costs related to compliance, sanctions or material liabilities and may affect the availability of raw materials.

We are subject to stringent environmental, health and safety laws and regulations relating to our current and former properties (including former onsite landfills over which we have retained ownership), other properties that neighbor ours or to which we sent wastes for treatment or disposal, as well as our current raw materials, products, and operations. Some of our products (including our raw materials) are subject to extensive environmental and industrial hygiene regulations governing the registration and safety analysis of their component substances. Coal tar pitch, which is classified as a substance of very high concern under REACH, is used in certain of our processes but in a manner that does not currently require us to obtain a specific authorization from the European Chemicals Agency (or ECHA). Violations of these laws and regulations, or of the terms and conditions of permits required for our operations, can result in damage claims, in the imposition of substantial fines and criminal sanctions and sometimes require the installation of costly pollution control or safety equipment or costly changes in operations to limit pollution or decrease the likelihood of injuries. In addition, we are currently conducting remediation and/or monitoring at certain current and former properties and may become subject to material liabilities in the future for the investigation and cleanup of contaminated properties, including properties on which we have ceased operations. We have been in the past, and could be in the future, subject to claims alleging personal injury, death or property damage resulting from exposure to hazardous substances, accidents or otherwise for conditions creating an unsafe workplace. Further, alleged noncompliance with or stricter enforcement of, or changes in interpretations of, existing laws and regulations, adoption of more stringent new laws and regulations, discovery of previously unknown contamination or imposition of new or increased requirements could require us to incur costs or become the basis of new or increased liabilities that have a material adverse impact on our operations, costs or results of operations. It is also possible that the impact of safety and environmental regulations on our suppliers could affect the availability and cost of our raw materials.

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For example, legislators, regulators and others, as well as many companies, are considering ways to reduce emissions of greenhouse gases (or GHGs) due to scientific, political and public concern that GHG emissions are altering the atmosphere in ways that are affecting, and are expected to continue to affect, the global climate. The EU has established GHG regulations and is revising its emission trading system for the period after 2020 in a manner that may require us to incur additional costs. The United States required reporting of greenhouse gas emissions from certain large sources beginning in 2011. Further measures, in the EU and many other countries, may be enacted in the future. In particular, in December 2015, more than 190 countries participating in the United National Framework Convention on Climate Change reached an international agreement related to curbing GHG emissions (or Paris Agreement). Further GHG regulations under the Paris Agreement or otherwise may take the form of a national or international cap-and-trade emissions permit system, a carbon tax, emissions controls, reporting requirements, or other regulatory initiatives. For more information, see the section entitled "Business Environment."

It is possible that some form of regulation of GHG emissions will also be introduced in the future in other countries in which we operate or market our products. Regulation of GHG emissions could impose additional costs, both direct and indirect, on our business, and on the businesses of our customers and suppliers, such as increased energy and insurance rates, higher taxes, new environmental compliance program expenses, including capital improvements, environmental monitoring and the purchase of emission credits, and other administrative costs necessary to comply with current and potential future requirements or limitations that may be imposed, as well as other unforeseen or unknown costs. To the extent that similar requirements and limitations are not imposed globally, this regulation may impact our ability to compete with companies located in countries that do not have these requirements or limitations. We may also experience a change in competitive position relative to industry peers, changes in prices received for products sold and changes to profit or loss arising from increased or decreased demand for our products. The impact of any future GHG regulatory requirements on our global business will be dependent upon the design of the regulatory schemes that are ultimately adopted and, as a result, we are unable to predict their significance to our operations at this time.

Significant changes in our jurisdictional earnings mix or in the tax laws of those jurisdictions could adversely affect our business, financial condition, results or operations and cash flows.

Our future tax rates may be adversely affected by a number of factors, including the enactment of new tax legislation, other changes in tax laws or the interpretation of tax laws, changes in the estimated realization of our net deferred tax assets (arising, among other things, from tax loss carry forwards and our acquisition by Brookfield), changes to the jurisdictions in which profits are determined to be earned and taxed, adjustments to estimated taxes upon finalization of various tax returns, increases in expenses that are not deductible for tax purposes, including write-offs of acquired in-process R&D and impairment of goodwill in connection with acquisitions, changes in available tax credits and additional tax or interest payments resulting from tax audits with various tax authorities. Losses for which no tax benefits can be recorded could materially impact our tax rate and its volatility from period to period. Any significant change in our jurisdictional earnings mix or in the tax laws in those jurisdictions could increase our tax rates and adversely impact our financial results in those periods.

New tax legislation could adversely affect us or our shareholders

New tax legislation, the Tax Act, was enacted on December 22, 2017. The Tax Act significantly revises the U.S. corporate income tax regime by, among other things:

lowering corporate income tax rates;



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temporarily allowing for immediate expensing of expenditures for certain tangible property;

repealing the corporate alternative minimum tax;

implementing a 100% dividends-received deduction on certain dividends from 10% or greater owned foreign subsidiaries;

imposing an income tax on deemed repatriated earnings of foreign subsidiaries generally as of December 31, 2017 (payable at reduced rates and potentially over an eight year period);

imposing tax at a reduced rate on certain income derived by foreign corporate subsidiaries in excess of a deemed return on tangible assets (i.e., tax on "global intangible low-taxed income" or GILTI);

imposing limitations on the ability to deduct interest expense and utilize net operating losses (or NOLs), and

instituting certain proposals to limit base erosion (including the "base erosion anti-abuse tax" or BEAT, and limitations on the deductibility of certain related-party payments).

Although we currently anticipate that the Tax Act and the accompanying changes in the corporate tax rate and calculation of taxable income will have a favorable effect on our financial condition, profitability and cash flows, the overall implications of the Tax Act at this time are uncertain, and it is not possible to predict the full effect of the Tax Act on our business and operations. Thus, the Tax Act and future implementing regulations, administrative guidance or interpretations of the legislation may have unanticipated adverse effects on us or our shareholders.

We will be required to make payments under a tax receivable agreement for certain tax benefits we may claim in the future, and the amounts we may pay could be significant.

Immediately prior to the completion of this offering, we will enter into a tax receivable agreement (or the TRA) that provides the right to receive future payments from us to certain of our stockholders prior to the completion of this offering (or the Existing Stockholders) of 85% of the amount of cash savings, if any, in U.S. federal income tax and Swiss tax that we and our subsidiaries realize as a result of the utilization of certain tax assets attributable to periods prior to our initial public offering, including certain federal net operating losses (or NOLs), previously taxed income under Section 959 of the Internal Revenue Code of 1986, as amended from time to time (or the Code), foreign tax credits, and certain NOLs in GrafTech Switzerland S.A. (or, collectively, the Pre-IPO Tax Assets). In addition, we will pay interest on the payments we will make to the Existing Stockholders with respect to the amount of this cash savings from the due date (without extensions) of our tax return where we realize this savings to the payment date at a rate equal to LIBOR plus 1.00% per annum. The term of the TRA will commence upon consummation of this offering and will continue until there is no potential for any future tax benefit payments.

We expect that, based on current tax laws and taking into account recent changes under the Tax Act, no material payments will be made to our counterparties during the term of the TRA. However, there is still uncertainty surrounding the Tax Act, and it is possible that a change in law or additional implementing regulations, administrative guidance or interpretations of the Tax Act could enable us to utilize our Pre-IPO Tax Assets to reduce future U.S. federal income tax and Swiss tax realized by us and our subsidiaries. If such future events were to occur, and assuming that we and our subsidiaries earn sufficient taxable income to realize the full tax benefits subject to the TRA, we expect that payments under the TRA relating to the Pre-IPO Tax Assets could aggregate to a maximum amount of approximately \$100 million. This figure does not account for our Pre-IPO Tax Assets attributable to previously taxed income under

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Section 959 of the Code, the value of which is highly speculative, and certain NOLs in GrafTech Switzerland S.A., which we expect to have nominal value at the time of this offering. Any payments made by us to our counterparties under the TRA will generally reduce the amount of overall cash flow that might have otherwise been available to us.

For more information about the TRA, see "Certain relationships and related party transactions Tax Receivable Agreement."

There are material limitations with making estimates of our results for current or prior periods prior to the completion of our normal review procedures for those periods.

The preliminary financial data contained in "Summary" is not a comprehensive statement of our financial data for the two months ended February 28, 2018 or the quarter ended March 31, 2018 and has not been reviewed or audited by our independent registered public accounting firm or any other independent auditors. The actual data for the two months ended February 28, 2018 and the quarter ended March 31, 2018 may vary from our expectations and may be materially different from the preliminary financial estimates we have provided due to completion of monthly or quarterly close procedures, as applicable, final adjustments and other developments that may arise between now and the time the financial data for this period are finalized. In addition, these preliminary results are not necessarily indicative of what our results will be in the year ended December 31, 2018. See "Management Discussion and Analysis of Financial Condition and Results of Operations."

Accordingly, investors should not place undue reliance on this preliminary financial information. If any of these risks were to materialize, our business, results of operations, cash flows and financial condition could be materially adversely affected. The risks referred to above are not the only ones that may exist. Additional risks not currently known by us or that we deem immaterial may also impair our business operations.

Risks related to our indebtedness

Our indebtedness could limit our financial and operating activities and adversely affect our ability to incur additional debt to fund future needs and our ability to fulfill our obligations under our existing and future indebtedness.

On February 12, 2018, we entered into the 2018 Credit Agreement among us, various of our subsidiaries, the lenders and issuing banks party thereto and JPMorgan Chase Bank, N.A. as administrative agent and as collateral agent, which provides for the Senior Secured Credit Facilities. The 2018 Revolving Credit Facility may be used from time to time for revolving credit borrowings denominated in dollars or Euro, the issuance of one or more letters of credit denominated in dollars, Euro, Pounds Sterling or Swiss Francs and one or more swing line loans denominated in dollars. On February 12, 2018, our wholly owned subsidiary, GrafTech Finance, borrowed \$1,500 million aggregate principal of the 2018 Term Loans. The 2018 Term Loans mature on February 12, 2025. The maturity date for the 2018 Revolving Credit Facility is February 12, 2023. Funds received were used to pay off our outstanding debt, including borrowings under our existing credit agreement and the Senior Notes and accrued interest relating to such borrowings and the Senior Notes, declare and pay a dividend to the selling stockholder and pay fees and expenses incurred in connection therewith and for other general corporate purposes.

Prior to the consummation of this offering, we expect to declare a dividend in the form of the \$750 million Brookfield Promissory Note to the selling stockholder. If issued, the Brookfield Promissory Note will mature eight years from the date of issuance and will bear interest at a rate equal to the Adjusted LIBO Rate (as



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defined in the Brookfield Promissory Note) plus an applicable margin equal to 4.50% per annum, with an additional 2.00% per annum starting from the third anniversary from the date of issuance. We will be permitted to make voluntary prepayments at any time without premium or penalty. All obligations under the Brookfield Promissory Note will be unsecured and guaranteed by all of our existing and future domestic wholly owned subsidiaries that guarantee, or are borrowers under, the Senior Secured Credit Facilities.

As of December 31, 2017, after giving effect to (i) our entrance into the 2018 Credit Agreement, the borrowing of \$1,500 million of 2018 Term Loans under the 2018 Term Loan Facility on February 12, 2018 and the use of proceeds therefrom and (ii) the issuance of Brookfield Promissory Note, we would have had approximately \$2,250 million of indebtedness outstanding, with \$241.8 million available for borrowing under the 2018 Revolving Credit Facility (taking into account approximately \$8.2 million of outstanding letters of credit issued thereunder).

Applying an interest rate of one month LIBOR as of February 28, 2018, our interest expense for the borrowings under the 2018 Term Loans and the Brookfield Promissory Note, had the 2018 Term Loans and the Brookfield Promissory Note been in place since January 1, 2017, would have totaled approximately \$123.9 million for the year ended December 31, 2017. Actual interest expense for the year ended December 31, 2017 was approximately \$30.8 million.

This substantial amount of indebtedness could:

require us to dedicate a substantial portion of our cash flow to the payment of principal and interest, thereby reducing the funds available for operations and future business opportunities;

make it more difficult for us to satisfy our obligations;

limit our ability to borrow additional money if needed for other purposes, including working capital, capital expenditures, debt service requirements, acquisitions and general corporate or other purposes, on satisfactory terms or at all;

limit our ability to adjust to changing economic, business and competitive conditions;

place us at a competitive disadvantage with competitors who may have less indebtedness or greater access to financing;

make us more vulnerable to an increase in interest rates, a downturn in our operating performance or a decline in general economic conditions; and

make us more susceptible to changes in credit ratings, which could impact our ability to obtain financing in the future and increase the cost of such financing.

Compliance with our debt obligations under the Senior Secured Credit Facilities could materially limit our financial or operating activities, or hinder our ability to adapt to changing industry conditions, which could result in our losing market share, a decline in our revenue or a negative impact on our operating results.

The 2018 Credit Agreement includes, and the Brookfield Promissory Note is expected to include, covenants that could restrict or limit our financial and business operations.

The 2018 Credit Agreement and the Brookfield Promissory Note contain a number of restrictive covenants that, subject to certain exceptions and qualifications, restrict or limit our ability and the ability of our subsidiaries to, among other things:

incur, repay or refinance indebtedness;

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create liens on or sell our assets;

engage in certain fundamental corporate changes or changes to our business activities;

make investments or engage in mergers or acquisitions;

pay dividends or repurchase stock;

engage in certain affiliate transactions;

enter into agreements or otherwise restrict our subsidiaries from making distributions or paying dividends to the borrowers under the Senior Secured Credit Facilities or to us or certain of our subsidiaries under the Brookfield Promissory Note, as applicable; and

repay intercompany indebtedness or make intercompany distributions or pay intercompany dividends.

The 2018 Credit Agreement also contains certain affirmative covenants and contains a financial covenant that requires us to maintain a senior secured first lien net leverage ratio not greater than 4.00:1.00 when the aggregate principal amount of borrowings under the 2018 Revolving Credit Facility and outstanding letters of credit issued under the 2018 Revolving Credit Facility (except for undrawn letters of credit in an aggregate amount equal to or less than \$35 million), taken together, exceed 35% of the total amount of commitments under the 2018 Revolving Credit Facility.

These covenants and restrictions could affect our ability to operate our business, and may limit our ability to react to market conditions or take advantage of potential business opportunities as they arise. Additionally, our ability to comply with these covenants may be affected by events beyond our control, including general economic and credit conditions and industry downturns.

If we fail to comply with the covenants in the 2018 Credit Agreement and are unable to obtain a waiver or amendment, an event of default would result, and the lenders and noteholders could, among other things, declare outstanding amounts due and payable or refuse to lend additional amounts to us, or require deposit of cash collateral in respect of outstanding letters of credit. If we were unable to repay or pay the amounts due, the lenders under the 2018 Credit Agreement could, among other things, proceed against the collateral granted to them to secure the indebtedness, which includes substantially all of our and our U.S. subsidiaries' assets and certain assets of certain of our non-U.S. subsidiaries.

Our cash flows may not be sufficient to service our indebtedness, and if we are unable to satisfy our obligations under our indebtedness, we may be required to seek other financing alternatives, which may not be successful.

Our ability to make timely payments of principal and interest on our debt obligations, including our obligations under the Senior Secured Credit Facilities, depends on our ability to generate positive cash flows from operations, which is subject to general economic conditions, competitive pressures and certain financial, business and other factors beyond our control. If our cash flows and capital resources are insufficient to make these payments, we may be required to seek additional financing sources, reduce or delay capital expenditures, sell assets or operations or refinance our indebtedness. These actions could have a material adverse effect on our business, financial conditions and results of operations. In addition, we may not be able to take any of these actions, and, even if successful, these actions may not permit us to meet our scheduled debt service obligations. Our ability to restructure or refinance the debt under the Senior Secured Credit Facilities will depend on, among other things, the condition of the capital markets and our financial condition at the time. We may not be able to restructure or refinance any of our

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indebtedness on commercially reasonable terms or at all. If we cannot make scheduled payments on our debt, we will be in default and the outstanding principal and interest on our debt could be declared to be due and payable, in which case we could be forced into bankruptcy or liquidation or required to substantially restructure or alter our business operations or debt obligations.

Borrowings under the Senior Secured Credit Facilities bear interest at a variable rate, which subjects us to interest rate risk, which could cause our debt service obligations to increase significantly.

All of our borrowings under the Senior Secured Credit Facilities are at variable rates of interest and expose us to interest rate risk. If interest rates increase, our debt service obligations on this variable rate indebtedness would increase even if the amount borrowed remains the same.

Additionally, we have in the past entered into, and may in the future enter into, interest rate swaps and caps to attempt to manage interest rate expense. We may purchase or sell these financial instruments, and open and close hedges or other positions, at any time. Changes in interest rates have in the past resulted, and may in the future result, in significant gains or losses. These instruments are marked-to-market monthly and related gains and losses are recorded in Other Comprehensive Income on the Consolidated Balance Sheets.

A lowering or withdrawal of the ratings assigned to our debt by rating agencies may increase our future borrowing costs and reduce our access to capital.

Any rating assigned to our debt could be lowered or withdrawn entirely by a rating agency if, in that rating agency's judgment, future circumstances relating to the basis of the rating, such as adverse changes, so warrant. Any future lowering of our ratings likely would make it more difficult or more expensive for us to obtain additional debt financing. Additionally, we enter into various forms of hedging arrangements against currency, interest rate or decant oil price fluctuations. Financial strength and credit ratings are also important to the availability and pricing of these hedging activities, and a downgrade of our credit ratings may make it more costly for us to engage in these activities.

Disruptions in the capital and credit markets, which may occur at any time, could adversely affect our results of operations, cash flows and financial condition, or those of our customers and suppliers.

Disruptions in the capital and credit markets as a result of uncertainty, changing or increased regulation, reduced alternatives or failures of significant financial institutions could adversely affect our access to liquidity needed to conduct or expand our businesses or conduct acquisitions or make other discretionary investments, as well as our ability to effectively hedge our currency or interest rate risks and exposures, which could adversely impact our business, results of operations, financial condition and cash flows. These disruptions may also adversely impact the financial position of our customers and suppliers, which, in turn, could adversely affect our results of operations, financial condition and cash flows.

Risks related to our common stock

If the ownership of our common stock continues to be highly concentrated, it may prevent minority stockholders from influencing significant corporate decisions and may result in conflicts of interest.

Following the completion of this offering, Brookfield will own approximately % of our outstanding common stock, or % if the underwriters' overallotment option is fully exercised. As a result, Brookfield will own shares sufficient for the majority vote over all matters requiring a stockholder vote, including the election of directors; mergers, consolidations and acquisitions; the sale of all or substantially all of our assets and other decisions affecting our capital structure; the amendment of our existing



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Amended and Restated Certificate of Incorporation (or Certificate of Incorporation) and our existing Amended and Restated By-Laws (or By-Laws); and our winding up and dissolution. This concentration of ownership may delay, deter or prevent acts that would be favored by our other stockholders. The interests of Brookfield may not always coincide with our interests or the interests of our other stockholders. This concentration of ownership may also have the effect of delaying, preventing or deterring a change in control. Also, Brookfield may seek to cause us to take courses of action that, in its judgment, could enhance its investment in us, but that might involve risks to our other stockholders or adversely affect us or our other stockholders, including investors in this offering. As a result, the market price of our common stock could decline or stockholders might not receive a premium over the then-current market price of our common stock upon a change in control. In addition, this concentration of share ownership may adversely affect the trading price of our common stock because investors may perceive disadvantages in owning shares in a company with significant stockholders.

Certain of our stockholders have the right to engage or invest in the same or similar businesses as us.

Brookfield has other investments and business activities in addition to their ownership of us. Brookfield has the right, and has no duty to abstain from exercising such right, to engage or invest in the same or similar businesses as us, do business with any of our clients, customers or vendors or employ or otherwise engage any of our officers, directors or employees. If Brookfield or any of its officers, directors or employees acquire knowledge of a potential transaction that could be a corporate opportunity, they have no duty, to the fullest extent permitted by law, to offer such corporate opportunity to us, our stockholders or our affiliates.

In the event that any of our directors and officers who is also a director, officer or employee of Brookfield acquires knowledge of a corporate opportunity or is offered a corporate opportunity, provided that this knowledge was not acquired solely in such person's capacity as our director or officer and such person acts in good faith, then to the fullest extent permitted by law such person is deemed to have fully satisfied such person's fiduciary duties owed to us and is not liable to us, if Brookfield pursues or acquires the corporate opportunity or if Brookfield does not present the corporate opportunity to us.

We may not pay cash dividends on our common stock.

Following this offering, we expect to pay cash dividends on our common stock in accordance with our dividend policy. However, our board of directors may, in its sole discretion, change the amount or frequency of dividends or discontinue the payment of dividends entirely. Any future determination to pay dividends on our common stock will be subject to the approval of our board of directors and will depend upon many factors, including our financial position and liquidity, results of operations, legal requirements, restrictions that may be imposed by the terms of our current and future credit facilities and other debt obligations and other factors deemed relevant by our board of directors. As a result, we cannot assure you that we will pay dividends at any rate or at all. Our ability to pay dividends on our common stock is limited by the terms of the 2018 Credit Agreement. In the future, we may also enter into other credit agreements or other borrowing arrangements or issue debt securities that, in each case, restrict or limit our ability to pay cash dividends on our common stock. In addition, since we are a holding company with no operations of our own, our ability to pay dividends is dependent on the ability of our subsidiaries to make distributions to us. Their ability to make such distributions will be subject to their operating results, cash requirements and financial condition. Any change in the level of our dividends or the suspension of the payment thereof could adversely affect the market price of our common stock. See "Dividend Policy."

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Certain provisions, including in the Amended and Restated Certificate of Incorporation and the Amended and Restated By-Laws that we intend to adopt in connection with this offering, could hinder, delay or prevent a change in control, which could adversely affect the price of our common stock.

Our Amended and Restated Certificate of Incorporation (or Amended Certificate of Incorporation) and Amended and Restated By-Laws (or Amended By-Laws) will contain provisions that could make it more difficult for a third party to acquire us without the consent of our board of directors or Brookfield, including:

provisions in our Amended Certificate of Incorporation and Amended By-Laws that prevent stockholders from calling special meetings of our stockholders, except where the Delaware General Corporation Law (or the DGCL) confers the right to fix the date of such meetings upon shareholders;

advance notice requirements by stockholders with respect to director nominations and actions to be taken at annual meetings;

certain rights of Brookfield with respect to the designation of directors for nomination and election to our board of directors;

no provision in our Amended Certificate of Incorporation or Amended By-Laws will provide for cumulative voting in the election of directors, which means that the holders of a majority of the outstanding shares of our common stock can elect all the directors standing for election;

under our Amended Certificate of Incorporation, our board of directors will have authority to cause the issuance of preferred stock from time to time in one or more series and to establish the terms, preferences and rights of any such series of preferred stock, all without approval of our stockholders; and

nothing in our Amended Certificate of Incorporation will preclude future issuances without stockholder approval of the authorized but unissued shares of our common stock.

These provisions may make it difficult and expensive for a third party to pursue a tender offer, change in control or takeover attempt that is opposed by Brookfield, our management or our board of directors. Public shareholders who might desire to participate in these types of transactions may not have an opportunity to do so, even if the transaction is favorable to shareholders. These anti-takeover provisions could substantially impede the ability of public shareholders to benefit from a change in control or to change our management and board of directors and, as a result, may adversely affect the market price of our common stock and your ability to realize any potential change of control premium.

In addition, in the event of certain changes in control, including if Brookfield's ownership of our outstanding common stock were to fall below 30%, payments to certain of our senior management may be triggered under certain of our compensation arrangements, which could have an adverse impact on us.

Our Amended Certificate of Incorporation will provide that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers, or employees.

Our Amended Certificate of Incorporation will provide that the Court of Chancery of the State of Delaware is the exclusive forum for:

any derivative action or proceeding brought on our behalf;

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any action asserting a breach of fiduciary duty;

any action asserting a claim against us arising under the DGCL, our Amended Certificate of Incorporation, or our Amended By-Laws; and

any action asserting a claim against us that is governed by the internal-affairs doctrine.

This exclusive forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers, and other employees. If a court were to find the exclusive forum provision in our Amended Certificate of Incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving the dispute in other jurisdictions, which could harm our business.

We expect to be a "controlled company" within the meaning of the NYSE corporate governance standards and would qualify for exemptions from certain corporate governance requirements.

Because Brookfield will own a majority of our outstanding common stock following the completion of this offering, we expect to be a "controlled company" as that term is set forth in the NYSE corporate governance standards. Under these rules, a company of which more than 50% of the voting power is held by another person or group of persons acting together is a "controlled company" and may elect not to comply with certain corporate governance requirements, including:

the requirement that a majority of our board of directors consist of independent directors;

the requirement that our governance committee be composed entirely of independent directors with a written charter addressing the committee's purpose and responsibilities; and

the requirement that our compensation committee be composed entirely of independent directors with a written charter addressing the committee's purpose and responsibilities.

These requirements will not apply to us as long as we remain a "controlled company." Following this offering, we may utilize some or all of these exemptions. Accordingly, you may not have the same protections afforded to stockholders of companies that are subject to all of the NYSE corporate governance requirements. Brookfield's significant ownership interest could adversely affect investors' perceptions of our corporate governance.

The reduced disclosure requirements applicable to us as an "emerging growth company" under the JOBS Act may make our common stock less attractive to investors.

We are an "emerging growth company" under the JOBS Act until the earliest of:

the last day of the fiscal year during which we had total annual gross revenues of \$1.07 billion or more;

the last day of the fiscal year following the fifth anniversary of the completion of this offering;

the date on which we have issued more than \$1.0 billion in non-convertible debt during the previous three-year period; or

the date on which we are deemed a "large accelerated filer" as defined under the federal securities laws.

For so long as we remain an "emerging growth company," we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies, including, but not

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limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements and exemptions from the requirements of holding a nonbinding advisory vote on certain executive compensation matters, such as "say on pay" and "say on frequency." As a result, our stockholders may not have access to certain information that they may deem important.

We cannot predict if investors will find our common stock less attractive as a result of our taking advantage of these exemptions. If they do, there may be a less active trading market for our common stock and our stock price may be more volatile.

There is no current trading market for our common stock and an active and liquid market for our common stock may never develop or be sustained.

Although we have applied to have our common stock approved for listing on the NYSE, an active trading market for our common stock may not develop on that exchange or elsewhere or, if it does develop, that market may not be sustained. In that case, the liquidity of our common stock, your ability to sell your shares of common stock when desired and the prices that you may obtain for your shares of common stock would be adversely affected.

The market price and trading volume of our common stock may be volatile, which could result in rapid and substantial losses for our stockholders.

Even if an active trading market develops, the market price of our common stock may be highly volatile and could be subject to wide fluctuations. In addition, the trading volume in our common stock may fluctuate and cause significant price variations to occur. The initial public offering price of our common stock has been determined by negotiation between us and the representatives of the underwriters based on a number of factors and may not be indicative of prices that will prevail in the open market following completion of this offering. If the market price of our common stock declines significantly, you may be unable to resell your shares at or above your purchase price, if at all. The market price of our common stock may fluctuate or decline significantly in the future. Some of the factors that could negatively affect our share price or result in fluctuations in the price or trading volume of our common stock include:

variations in our quarterly or annual operating results;

changes in our earnings estimates (if provided) or differences between our actual financial and operating results and those expected by investors and analysts;

the contents of published research reports about us or our industry or the failure of securities analysts to cover our common stock after this offering;

additions or departures of key management personnel;

any increased indebtedness we may incur in the future;

announcements by us or others and developments affecting us;

actions by institutional stockholders;

litigation and governmental investigations;

changes in market valuations of similar companies;

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speculation or reports by the press or investment community with respect to us or our industry in general;

increases in market interest rates that may lead purchasers of our shares to demand a higher yield;

announcements by us or our competitors of significant contracts, acquisitions, dispositions, strategic relationships, joint ventures or capital commitments; and

general market, political and economic conditions, including any such conditions and local conditions in the markets in which our customers are located.

These broad market and industry factors may decrease the market price of our common stock, regardless of our actual operating performance. The stock market in general has from time to time experienced extreme price and volume fluctuations, including in recent months. In addition, in the past, following periods of volatility in the overall market and the market price of a company's securities, securities class action litigation has often been instituted against these companies. This litigation, if instituted against us, could result in substantial costs and a diversion of our management's attention and resources.

Future offerings of debt or equity securities by us may adversely affect the market price of our common stock.

In the future, we may attempt to obtain financing or to further increase our capital resources by issuing additional shares of our common stock or offering debt or other equity securities, including commercial paper, medium-term notes, senior or subordinated notes, debt securities convertible into equity or shares of preferred stock. Future acquisitions could require substantial additional capital in excess of cash from operations. We would expect to finance any future acquisitions through a combination of additional issuances of equity, corporate indebtedness, asset-backed acquisition financing and/or cash from operations.

Issuing additional shares of our common stock or other equity securities or securities convertible into equity may dilute the economic and voting rights of our existing stockholders or reduce the market price of our common stock or both. Upon liquidation, holders of such debt securities and preferred shares, if issued, and lenders with respect to other borrowings would receive a distribution of our available assets prior to the holders of our common stock. Debt securities convertible into equity could be subject to adjustments in the conversion ratio pursuant to which certain events may increase the number of equity securities issuable upon conversion. Preferred shares, if issued, could have a preference with respect to liquidating distributions or a preference with respect to dividend payments that could limit our ability to pay dividends to the holders of our common stock. Our decision to issue securities in any future offering will depend on market conditions and other factors beyond our control, which may adversely affect the amount, timing or nature of our future offerings. Thus, holders of our common stock bear the risk that our future offerings may reduce the market price of our common stock and dilute their stockholdings in us.

The market price of our common stock could be negatively affected by sales of substantial amounts of our common stock in the public markets.

After this offering, there will be shares of common stock outstanding. This number includes the shares that Brookfield is selling in this offering (or shares if the underwriters exercise their overallotment option in full), which will be freely transferable. Following completion of the offering, approximately % of our outstanding common stock (or % if the underwriters exercise their overallotment option in full) will be held by Brookfield and can be resold into the public markets in the future in accordance with the requirements of Rule 144. See "Shares Eligible For Future Sale."



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We and our executive officers, directors and Brookfield (who will hold in the aggregate approximately % of our outstanding common stock immediately after the completion of this offering, or % if the underwriters exercise their overallotment option in full) have agreed with the underwriters that, subject to certain exceptions, for a period of 180 days after the date of this prospectus, we and they will not directly or indirectly offer, pledge, sell, contract to sell, sell any option or contract to purchase or otherwise dispose of any common stock or any securities convertible into or exercisable or exchangeable for common stock, or in any manner transfer all or a portion of the economic consequences associated with the ownership of common stock, or cause a registration statement covering any common stock to be filed, without the prior written consent of J.P. Morgan Securities LLC and Credit Suisse Securities (USA) LLC. See "Underwriting." J.P. Morgan Securities LLC and Credit Suisse Securities at their discretion.

The market price of our common stock may decline significantly when the restrictions on resale by our existing stockholders lapse. A decline in the price of our common stock might impede our ability to raise capital through the issuance of additional common stock or other equity securities.

The future issuance of additional common stock in connection with our incentive plans, acquisitions or otherwise will dilute all other stockholdings.

After this offering, we will have an aggregate of shares of common stock authorized but unissued and not reserved for issuance under our incentive plans. We may issue all of these shares of common stock without any action or approval by our stockholders, subject to certain exceptions. We also intend to continue to evaluate acquisition opportunities and may issue common stock in connection with these acquisitions. Any common stock issued in connection with our incentive plans, acquisitions, the exercise of outstanding stock options or otherwise would dilute the percentage ownership held by the investors who purchase common stock in this offering.

As a public company, we will incur additional costs and face increased demands on our management.

Since our acquisition by Brookfield in 2015, we have continued to comply with certain provisions of the Sarbanes-Oxley Act and regulations of the SEC. However, as a public company with shares listed on a U.S. exchange, we will need to comply with additional rules and regulations that have not applied to us since 2015. We expect these rules and regulations to increase our legal and financial compliance costs and to make some activities more time-consuming and costly. For example, as a result of becoming a public company, we intend to add independent directors and create additional board committees. In addition, we will incur additional costs associated with our public company reporting requirements and maintaining directors' and officers' liability insurance. We are currently evaluating and monitoring developments with respect to these rules, which may impose additional costs on us and materially affect our business, financial condition and results of operations.

If securities or industry analysts do not publish research or publish inaccurate or unfavorable research about our business, our stock price and trading volume could decline.

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business. We do not currently have and may never obtain research coverage by securities and industry analysts. If no securities or industry analysts commence coverage of our Company, the trading price for our common stock would be negatively impacted. If we obtain securities or industry analyst coverage and if one or more of the analysts who covers us downgrades our common stock or publishes inaccurate or unfavorable research about our business, our stock price would likely decline. If one or more of these analysts ceases coverage of us or fails to publish reports on us regularly, demand for our common stock could decrease, which could cause our stock price and trading volume to decline.



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Special note regarding forward-looking statements

Some of the statements under "Prospectus Summary," "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," "Business," "Industry" and elsewhere in this prospectus may contain forward-looking statements that reflect our current views with respect to, among other things, future events and financial performance. You can identify these forward-looking statements by the use of forward-looking words such as "will," "may," "plan," "estimate," "project," "believe," "anticipate," "expect," "intend," "should," "would," "could," "target," "goal," "continue to," "positioned to" or the negative version of those words or other comparable words. Any forward-looking statements contained in this prospectus are based upon our historical performance and on our current plans, estimates and expectations in light of information currently available to us. The inclusion of this forward-looking information should not be regarded as a representation by us, the selling stockholder, the underwriters or any other person that the future plans, estimates or expectations contemplated by us will be achieved. These forward-looking statements are subject to various risks and uncertainties and assumptions relating to our operations, financial results, financial condition, business, prospects, growth strategy and liquidity. Accordingly, there are or will be important factors that could cause our actual results to differ materially from those indicated in these statements. We believe that these factors include, but are not limited to:

our history of net losses and the possibility that we may not achieve or maintain profitability in the future;

the possibility that we are unable to implement our business strategies, including our initiative to secure and maintain three- to five-year take-or-pay customer contracts, in an effective manner;

the possibility that new tax legislation could adversely affect us or our shareholders;

the fact that pricing for graphite electrodes has historically been cyclical and, in the future, the price of graphite electrodes will likely decline from recent record highs;

the sensitivity of our business and operating results to economic conditions;

our dependence on the global steel industry generally and the EAF steel industry in particular;

the possibility that global graphite electrode overcapacity may adversely affect graphite electrode prices;

the competitiveness of the graphite electrode industry;

our dependence on the supply of petroleum needle coke;

our dependence on supplies of raw materials (in addition to petroleum needle coke) and energy;

the legal, economic, social and political risks associated with our substantial operations in multiple countries;

the possibility that fluctuation of foreign currency exchange rates could materially harm our financial results;

the possibility that our results of operations could deteriorate if our manufacturing operations were substantially disrupted for an extended period, including as a result of equipment failure, climate change, natural disasters, public health crises, political crises or other catastrophic events;

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the possibility that plant capacity expansions may be delayed or may not achieve the expected benefits;

our dependence on third parties for certain construction, maintenance, engineering, transportation, warehousing and logistics services;

the possibility that we are unable to recruit or retain key management and plant operating personnel or successfully negotiate with the representatives of our employees, including labor unions;

the possibility that we may divest or acquire businesses, which could require significant management attention or disrupt our business;

the sensitivity of goodwill on our balance sheet to changes in the market;

the possibility that we are subject to information technology systems failures, cybersecurity attacks, network disruptions and breaches of data security;

our dependence on protecting our intellectual property;

the possibility that third parties may claim that our products or processes infringe their intellectual property rights;

the possibility that our manufacturing operations are subject to hazards;

changes in, or more stringent enforcement of, health, safety and environmental regulations applicable to our manufacturing operations and facilities;

the possibility that significant changes in our jurisdictional earnings mix or in the tax laws of those jurisdictions could adversely affect our business;

the fact that there are material limitations with making estimates of our results for current or prior periods prior to the completion of our normal review procedures;

the possibility that our indebtedness could limit our financial and operating activities or that our cash flows may not be sufficient to service our indebtedness;

the possibility that restrictive covenants in our financing agreements could restrict or limit our operations;

the possibility that our cash flows are insufficient to service our indebtedness;

the fact that borrowings under certain of our existing financing agreements subjects us to interest rate risk;

the possibility of a lowering or withdrawal of the ratings assigned to our debt;

the possibility that disruptions in the capital and credit markets adversely affect our results of operations, cash flows and financial condition, or those of our customers and suppliers;

the possibility that highly concentrated ownership of our common stock may prevent minority stockholders from influencing significant corporate decisions;

the fact that certain of our stockholders have the right to engage or invest in the same or similar businesses as us;

the fact that we do not currently anticipate paying any dividends in the foreseeable future;

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the fact that certain provisions of our Amended Certificate of Incorporation and our Amended By-Laws could hinder, delay or prevent a change of control;

the fact that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders;

our expectation to be a "controlled company" within the meaning of the NYSE corporate governance standards, which would allow us to qualify for exemptions from certain corporate governance requirements; and

other risks described in the "Risk Factors" section of this prospectus beginning on page 27.

These factors should not be construed as exhaustive and should be read in conjunction with the other cautionary statements that are included in this prospectus. The forward-looking statements made in this prospectus relate only to events as of the date on which the statements are made. We do not undertake any obligation to publicly update or review any forward-looking statement except as required by law, whether as a result of new information, future developments or otherwise.

If one or more of these or other risks or uncertainties materialize, or if our underlying assumptions prove to be incorrect, our actual results may vary materially from what we may have expressed or implied by these forward-looking statements. We caution that you should not place undue reliance on any of our forward-looking statements. You should specifically consider the factors identified in this prospectus that could cause actual results to differ before making an investment decision to purchase our common stock. Furthermore, new risks and uncertainties arise from time to time, and it is impossible for us to predict those events or how they may affect us.

Use of proceeds

The selling stockholder will receive all of the net proceeds from the sale of shares of our common stock it is offering pursuant to this prospectus. The aggregate proceeds to the selling stockholder from the sale of shares of common stock will be the purchase price of the shares of common stock less discounts and commissions, if any. We will not receive any proceeds from the sale of these shares of common stock, including from any exercise by the underwriters of their option to purchase additional shares. We will bear all costs, fees and expenses in connection with this offering, which are estimated to be \$ million, except that the selling stockholder will pay all underwriting discounts. See "Principal Stockholders and Selling Stockholder."

Dividend policy

Prior to the consummation of this offering, we expect to declare a \$160 million cash dividend payable to the selling stockholder. Payment of this dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the payment of the dividend and (iii) the payment occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to pay the dividend on or around May 9, 2018. However, there can be no assurance that we will meet these conditions by this date or at all. In addition, although this dividend is not expected to be paid until after the consummation of this offering, it will be payable solely to the selling stockholder, as sole stockholder of the Company on the dividend record date, which will be prior to the consummation of this offering. As a result, you will not be entitled to receive any portion of this dividend regardless of when the conditions are satisfied.

Prior to the consummation of this offering, we expect to declare a dividend in the form of the \$750 million Brookfield Promissory Note to the selling stockholder. The issuance of the Brookfield Promissory Note as a dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (each as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the issuance of the Brookfield Promissory Note and (iii) the issuance occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to issue the Brookfield Promissory Note as a dividend on or around May 9, 2018. However, there can be no assurance that we will meet these conditions by this date or at all. No funds will be lent or otherwise contributed to us by the selling stockholder in connection with the Brookfield Promissory Note. As a result, we will receive no consideration in connection with its issuance.

Following the completion of this offering, we currently expect to pay a quarterly cash dividend of \$0.085 per share, or an aggregate of \$0.34 per share on an annualized basis. For the quarterly period ending June 30, 2018, we expect to pay a prorated cash dividend for the period beginning on the closing date of this offering and ending on the last day of that period.

We cannot assure you, however, that we will pay any dividends that our board of directors may determine to pay. Our board of directors may also change the timing and amount of any future dividend payments or eliminate the payment of future dividends in its sole discretion, without prior notice to our stockholders. Our ability to pay dividends that our board of directors may determine to pay and any future determination by our board of directors to pay dividends on our common stock will depend upon many



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factors, including our financial position and liquidity, results of operations, legal requirements, restrictions that may be imposed by the terms of our current and future credit facilities and other debt obligations and other factors deemed relevant by our board of directors.

Our ability to pay dividends on our common stock is limited as a practical matter by the terms of the 2018 Credit Agreement. In the future, we may also enter into other credit agreements or other borrowing arrangements or issue debt securities that, in each case, restrict or limit our ability to pay cash dividends on our common stock. In addition, since we are a holding company with no operations of our own, our ability to pay dividends is dependent on the ability of our subsidiaries to make distributions to us. Their ability to make such distributions will be subject to their operating results, cash requirements and financial condition.

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Capitalization

Because all of the shares of our common stock to be sold in this offering, including those subject to the underwriters' option to purchase additional shares, will be sold by the selling stockholder, our capitalization will not change as a result of this offering. The following sets forth our cash and cash equivalents and capitalization as of December 31, 2017 on:

an actual basis; and

a pro forma basis to give effect to (A) (i) our entrance into the 2018 Credit Agreement and the borrowing of \$1,500 million of 2018 Term Loans thereunder in February 2018; and (ii) the use of proceeds therefrom to (x) repay in full all outstanding indebtedness under the Old Credit Agreement, (y) redeem in full the Senior Notes at a redemption price of 101.594% of the principal amount thereof plus accrued and unpaid interest to the date of redemption and (z) declare and pay a dividend to the selling stockholder of \$1,112 million, (B) the declaration, prior to the consummation of this offering, of the Brookfield Promissory Note as a dividend to the selling stockholder, and the issuance thereof, which is expected to occur on or around May 9, 2018 and (C) the declaration, prior to the consummation of this offering, of the \$160 million cash dividend payable to the selling stockholder that we expect to pay on or around May 9, 2018 out of cash expected to be generated between December 31, 2017 and the consummation of this offering.

You should read this table in conjunction with "Use of Proceeds," "Selected Consolidated Historical Financial Data" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our audited consolidated financial statements and related notes and other financial information included elsewhere in this prospectus.

	December 31, 2017	Pro Forma
		(thousands)
Cash and cash equivalents	\$ 13,365	\$ 11,898
Cash dividend payable(1)		160,000
Debt:		
Credit Facility (Old Revolving Credit Facility and Old Term Loan Facility)(2)	58,192	
Senior Notes(2)	280,586	
2018 Credit Agreement(2)		1,476,653
Brookfield Promissory Note(3)		750,000
Other debt	596	596
Total debt	339,374	2,227,249
Stockholders' equity:		
Common stock, par value \$0.01 per share, 1,000 shares authorized, 100 shares issued(4)		
Additional paid-in capital	854,337	854,337
Accumulated other comprehensive (loss) income	20,289	20,289
Accumulated deficit(1)(2)(3)	(261,411)	(2,307,607)
Total stockholders' equity	613,215	(1,432,981)
Total stockholidels equity	013,213	(1,432,901)
Total capitalization	\$ 952,589	\$ 794,268

(1) Prior to the consummation of this offering, we expect to declare a \$160 million cash dividend payable to the selling stockholder. Payment of this dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the payment of the dividend and (iii) the payment occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to pay the dividend on or around May 9, 2018 out of the cash expected to be generated between December 31, 2017 and the consummation of this offering. However, there can be no assurance that we will meet these conditions by this date or at all. In addition, although this dividend is not expected to be paid until after the consummation of this offering, it will be payable solely to the selling stockholder, as sole stockholder of the Company on the dividend record date, which will be prior to the consummation of this offering. As a result, you will not be entitled to receive any portion of this dividend regardless of when the conditions are satisfied.

(2) In February 2018, we entered into the 2018 Credit Agreement, which provides for the 2018 Revolving Credit Facility and the 2018 Term Loan Facility. At that time, we also borrowed \$1,500 million of 2018 Term Loans under the 2018 Term Loan Facility, the proceeds of which were used, among other things, to repay all outstanding borrowings under the Old Revolving Credit Facility and Old Term Loan Facility (which were then terminated), redeem in full the Senior Notes at a redemption price of 101.594% of the principal amount thereof plus accrued and unpaid interest to the date of redemption and declare and pay a dividend of \$1,112 million to the selling stockholder. Pro forma accumulated deficit includes an aggregate of \$24.2 million as a result of the redemption of the Senior Notes and a redemption premium of \$4.8 million. In addition, as of December 31, 2017, after giving effect to the foregoing transactions, we would have also had \$241.8 million available for borrowing under the 2018 Revolving Credit Facility (taking into account approximately \$8.2 million of outstanding letters of credit issued thereunder). See "Management's Discussion and Analysis of Financial Condition and Results of Operations Financing Transactions 2018 Credit Agreement."

(3) Prior to the consummation of this offering, we expect to declare a dividend in the form of a \$750 million promissory note to the selling stockholder. The issuance of the Brookfield Promissory Note as a dividend will be conditioned upon (i) the Senior Secured First Lien Net Leverage Ratio (as defined in the 2018 Credit Agreement), as calculated based on our final financial results for the first quarter of 2018, being equal to or less than 1.75 to 1.00, (ii) no Default or Event of Default (each as defined in the 2018 Credit Agreement) having occurred and continuing or that would result from the issuance of the Brookfield Promissory Note and (iii) the issuance occurring within 60 days from the dividend record date. Assuming these conditions are met, we expect to issue the Brookfield Promissory Note as a dividend on or around May 9, 2018. However, there can be no assurance that we will meet these conditions by this date or at all. In addition, although this note is not expected to be issued as a dividend until after the consummation of this offering, it will be prior to the consummation of this offering. As a result, you will not be entitled to receive any portion of this dividend regardless of when the conditions are satisfied. No funds will be lent or otherwise contributed to us by the selling stockholder in connection with the Brookfield Promissory Note. As a result, we will receive no consideration in connection with its issuance.

(4) Does not give effect to the -forcompletion of this offering or the additional Equity Incentive Plan. stock split on our common stock to be effected prior to the shares reserved for future issuance under our Omnibus

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Dilution

If you invest in our common stock, your ownership interest will be diluted to the extent of the difference between the initial public offering price in this offering per share of our common stock and the pro forma as adjusted net tangible book value per share of our common stock upon consummation of this offering. Net tangible book value per share represents the book value of our total tangible assets less the book value of our total liabilities divided by the number of shares of common stock then issued and outstanding.

Our net tangible book value as of , 2018 was approximately \$ million, or approximately \$ per share based on the shares of common stock issued and outstanding as of such date. Because all of the shares of our common stock to be sold in this offering, including those subject to the underwriters' option to purchase additional shares, will be sold by the selling stockholder, there will be no increase in the number of shares of our common stock outstanding as a result of this offering. After giving effect to our payment of the estimated offering expenses in connection with this offering, our pro forma as adjusted net tangible book value as of \$ million, or \$ per share. This represents an immediate dilution of \$ per share to new investors purchasing common stock in this offering. The following table illustrates this dilution per share:

Assumed initial public offering price per share	\$
Net tangible book value per share as of , 2018	\$
Decrease in net tangible book value per share attributable to this offering	
Pro forma as adjusted net tangible book value per share after giving effect to this offering	
Dilution per share to new investors in this offering	\$

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share (the midpoint of the estimated initial public offering price range set forth on the cover page of this prospectus) would not affect our pro forma as adjusted net tangible book value per share, but would increase or decrease, as applicable, dilution per share to new investors in the offering by \$ per share.

The following table summarizes, on a pro forma basis as of , 2018, the differences between the number of shares of common stock purchased, the total price paid and the average price per share paid by existing stockholders and by the new investors in this offering, at an assumed initial public offering price of \$ per share (the midpoint of the estimated initial public offering price range set forth on the cover page of this prospectus).

	Shares purchased		Average price per
	NumberPercent	AmountPercent	share
	(in		
	thousands)	(in thousands)	
Existing stockholders	%	\$ %	\$
New investors			
Total	%	\$ %	

A \$1.00 increase (decrease) in the assumed initial offering price would increase (decrease) total consideration paid by new investors and average price per share paid by new investors by \$ million and \$1.00 per share, respectively. An increase (decrease) of 1.0 million in the number of shares offered by the selling stockholder would increase (decrease) total consideration paid by new investors and average price per share paid by new investors by \$ million and \$ per share, respectively.

Selected historical consolidated financial and other data

The following tables present selected consolidated financial information of the Company. You should read these tables along with "Management's Discussion and Analysis of Financial Condition and Results of Operations," "Business" and our audited consolidated financial statements and the related notes included elsewhere in this prospectus.

The summary consolidated statement of operations data for the years ended December 31, 2017, 2016 and 2015 (January 1, 2015 to August 14, 2015, Predecessor Period, and August 15, 2015 to December 31, 2015, Successor Period) and the summary consolidated balance sheet data at December 31, 2017 and 2016 have been derived from our audited consolidated financial statements included elsewhere in this prospectus. Our historical results are not necessarily indicative of the results to be expected in the future.

As a result of business combination accounting resulting from our acquisition by Brookfield (see Note 2, Preferred Share Issuance and Merger, of the Notes to the Consolidated Financial Statements included elsewhere in this prospectus), our financial statements are separated into two distinct periods, the period before the consummation of our acquisition by Brookfield (labeled "Predecessor") and the period after that date (labeled "Successor"), to indicate the application of the different basis of accounting between the periods presented. There were no operational activities that changed as a result of our acquisition by Brookfield.

					Successor	Predecessor
				e year ended December 31,	For the period August 15 through December 31,	For the period January 1 through August 14,
			2017	2016	2015	2015
			(in tl	ousands, exc	ept share and p	er share data)
Statement of Operations Data:						
Net sales		\$	550,771	\$ 437,963	\$ 193,133	\$ 339,907
Income (loss) from continuing operations			14,212	(108,869)	(28,625)	(101,970)
Net income (loss)			7,983	(235,843)	(33,551)	(120,649)
Basic income (loss) per common share(a):						
Income (loss) from continuing operations per share		\$	142,120	\$ (1,088,690)	\$ (286,250)	\$ (0.74)
Weighted average common shares outstanding			100	100	100	137,152,430
Balance Sheet Data (at period end):						
Total assets		\$	1,199,103	\$ 1,172,276	\$ 1,422,015	
Other long-term obligations(b)		Ŧ	68,907	82,148	94,318	
Total long-term debt			322,900	356,580	362,455	
Other Financial Data:						
Net cash provided by operating activities		\$	36,573	\$ 22,815	\$ 23,115	\$ 28,323
Net cash (used in) provided by investing activities		Ψ	(2,199)	(10,471)		(39,918)
Net cash (used in) provided by financing activities			(32,995)	(8,317)		20,824
(a) Per share data does not give effect to the effected prior to the completion of this offering.	-for-		stock sj	olit on our c	ommon stock	to be

(b) Represents pension and OPEB and related costs and miscellaneous other long-term obligations.

		Successor	Predecessor
		For the	For the
		period	period
		August 15	January 1
For the yea	ar ended	through	through
Decer	nber 31,D	ecember 31,	August 14,
2017	2016	2015	2015

(in thousands)

EBITDA from continuing operations(1)	\$ 97,884 \$	(12,251) \$	12,674	\$ (32,197)
	\$ 95,806 \$	(2,898) \$	14,396	\$ 31,628

		For the De	•	r ended Iber 31,
(in thousands, except price data)	2017	2016		2015
Sales volume (MT)(2)	172	163		145
Weighted average realized price(3)	\$ 2,945	\$ 2,459	\$	3,344
Production volume (MT)(4)	166	151		137
Production capacity (MT)(5)	195	195		195
Production capacity excluding St. Marys during idle period (MT)(6)	167	176		195
Capacity utilization(7)	85%	77%		70%
Capacity utilization excluding St. Marys during idle period(6)	99%	85%		70%

(1) See below for more information and a reconciliation of EBITDA and adjusted EBITDA to net income (loss), the most directly comparable financial measure calculated and presented in accordance with GAAP.

(2) Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. See below for more information on our key operating metrics.

(3) Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. See below for more information on our key operating metrics.

(4) Production volume reflects graphite electrodes produced during the period. See below for more information on our key operating metrics.

(5) Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Actual production may vary. See below for more information on our key operating metrics.

(6) The St. Marys, Pennsylvania facility was temporarily idled effective the second quarter of 2016, except for the machining of semi-finished products sourced from other plants.

(7) Capacity utilization reflects production volume as a percentage of production capacity. See below for more information on our key operating metrics.

Non-GAAP financial measures

In addition to providing results that are determined in accordance with GAAP, we have provided certain financial measures that are not in accordance with GAAP. EBITDA from continuing operations and adjusted EBITDA from continuing operations are non-GAAP financial measures. We define EBITDA from continuing operations, a non-GAAP financial measure, as net income or loss plus interest expense, minus interest income, plus income taxes, discontinued operations and depreciation and amortization. We define adjusted EBITDA from continuing operations plus any pension and OPEB plan expenses, impairments, rationalization-related charges, acquisition costs and costs related to the change in control as well as proxy contests costs, non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar and non-cash fixed asset write-offs. Adjusted EBITDA from continuing operations is the primary metric used by our management and our board of directors to establish budgets and operational goals for managing our business and evaluating our performance.

We monitor adjusted EBITDA from continuing operations as a supplement to our GAAP measures, and believe it is useful to present to investors, because we believe that it facilitates evaluation of our period-to-period operating performance by eliminating items that are not operational in nature, allowing comparison of our recurring core business operating results over multiple periods unaffected by differences in capital structure, capital investment cycles and fixed asset base. In addition, we believe adjusted EBITDA from continuing operations and similar measures are widely used by investors, securities analysts, ratings agencies, and other parties in evaluating companies in our industry as a measure of financial performance and debt-service capabilities.

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Our use of adjusted EBITDA from continuing operations has limitations as an analytical tool, and you should not consider it in isolation or as a substitute for analysis of our results as reported under GAAP. Some of these limitations are:

adjusted EBITDA from continuing operations does not reflect changes in, or cash requirements for, our working capital needs;

adjusted EBITDA from continuing operations does not reflect our cash expenditures for capital equipment or other contractual commitments, including any capital expenditures for future capital expenditure requirements to augment or replace our capital assets;

adjusted EBITDA from continuing operations does not reflect the interest expense or the cash requirements necessary to service interest or principal payments on our indebtedness;

adjusted EBITDA from continuing operations does not reflect tax payments that may represent a reduction in cash available to us;

adjusted EBITDA from continuing operations does not reflect expenses relating to our pension and OPEB plans;

adjusted EBITDA from continuing operations does not reflect impairment of long-lived assets and goodwill;

adjusted EBITDA from continuing operations does not reflect the non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar;

adjusted EBITDA from continuing operations does not reflect rationalization-related charges, acquisition costs, costs related to the change in control and proxy contests costs or the non-cash write-off of fixed assets; and

other companies, including companies in our industry, may calculate EBITDA from continuing operations and adjusted EBITDA from continuing operations differently, which reduces its usefulness as a comparative measure.

In evaluating EBITDA from continuing operations and adjusted EBITDA from continuing operations, you should be aware that in the future, we will incur expenses similar to the adjustments in this presentation. Our presentations of EBITDA from continuing operations and adjusted EBITDA from continuing operations should not be construed as suggesting that our future results will be unaffected by these expenses or any unusual or non-recurring items. When evaluating our performance, you should consider EBITDA from continuing operations and adjusted EBITDA from continuing operations alongside other financial performance measures, including our net income (loss) and other GAAP measures.

For a reconciliation of these measures to the most directly comparable GAAP measures, see "Management's Discussion and Analysis of Financial Condition and Results of Operation Non-GAAP Financial Measures."

Key Operating Metrics

Key operating metrics consist of sales volume, weighted average realized price, production volume, production capacity and capacity utilization. Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. For a discussion of our revenue recognition

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policy, see "Management's Discussion and Analysis of Financial Condition and Results of Operations Critical Accounting Policies Revenue Recognition." Under our policy, volume discounts and rebates are recorded as a reduction of revenue in conjunction with the sale of the graphite electrodes, and shipping and handling revenues relating to graphite electrodes sold are included as an increase to revenue. Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. Production volume reflects graphite electrodes produced during the period. Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Capacity utilization reflects production volume as a percentage of production capacity.

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 should be read together with our Consolidated Financial Statements and the accompanying notes and other financial information appearing elsewhere in this prospectus. Information in this section is intended to assist the reader in obtaining an understanding of our Consolidated Financial Statements, the changes in certain key items in those financial statements from year-to-year, the primary factors that accounted for those changes, any known trends or uncertainties that we are aware of that may have a material effect on our future performance, as well as how certain accounting principles affect our Consolidated Financial Statements. This discussion and analysis contains forward-looking statements that involve risks, uncertainties and assumptions. See "Special Note Regarding Forward-Looking Statements." Our actual results could differ materially from those forward-looking statements as a result of many factors, including those discussed in "Risk Factors" and elsewhere in this prospectus.

Overview

We are a leading manufacturer of high quality graphite electrode products essential to the production of EAF steel and other ferrous and non-ferrous metals. We believe that we have the most competitive portfolio of low-cost graphite electrode manufacturing facilities in the industry, including three of the five highest capacity facilities in the world (excluding China). We are the only large scale graphite electrode producer that is substantially vertically integrated into petroleum needle coke, the primary raw material for graphite electrode manufacturing, which is currently in limited supply. Between 1984 and 2011, EAF steelmaking was the fastest-growing segment of the steel sector, with production increasing at an average rate of 3.5% per year, based on WSA data. Historically, EAF steel production has grown faster than the overall steel market due to the greater resilience, more variable cost structure, lower capital intensity and more environmentally friendly nature of EAF steel production. Beginning in 2016, efforts by the Chinese government to restructure China's domestic steel industry have led to limits on Chinese BOF steel production and lower export levels, and developed economies, which typically have much larger EAF steel industry have led to limits, have instituted a number of trade policies in support of domestic steel producers. As a result, since 2016, the EAF steel market has rebounded strongly and resumed its long-term growth trajectory. This revival in EAF steel production has resulted in increased demand for our graphite electrodes.

At the same time, two supply-side structural changes have contributed to recent record high prices of graphite electrodes. First, ongoing consolidation and rationalization of graphite electrode production capacity have limited the ability of graphite electrode producers to meet demand. We estimate that approximately 20% of graphite electrode industry production capacity (excluding China) has been closed or repurposed since the beginning of 2014, and we believe the majority of these closures represent permanent reductions. Second, demand for petroleum needle coke has outpaced supply due to increasing demand for petroleum needle coke for lithium-ion batteries used in electric vehicles. As a result, graphite electrode prices have recently reached record high prices. We have implemented a new commercial strategy to sell 60% to 65% of our production capacity through three- to five-year take-or-pay contracts. These contracts define volumes and prices, along with price-escalation mechanisms for inflation, and include significant termination payments (typically, 50% to 70% of remaining contracted revenue) and, in certain cases, parent guarantees and collateral arrangements to manage our customer credit risk. We

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expect a high degree of stability in our future operating results due to these contracts. As of March 1, 2018, we have entered into three-to-five-year take-or-pay contracts to sell approximately 132,406, 138,446, 134,831, 117,600 and 112,883 MT in 2018, 2019, 2020, 2021 and 2022, respectively. See "Business Our company We have reoriented our commercial strategy" and "Business Contracts and customers."

GrafTech's transformation

Since 2012, we have executed a three-part transformation plan to improve our competitive position and allow us to better serve our customers. Since 2012, we have achieved annual fixed manufacturing cost improvements of \$80 million, annual capital expenditure requirement reductions of \$45 million and annual overhead expense reductions of approximately \$65 million, all while also improving the productivity of our plant network. We have strategically shifted production from our lowest to our highest production capacity facilities to increase fixed cost absorption. This, coupled with a recovery in customer demand, resulted in a steady increase in our capacity utilization, reaching 99% in 2017 (excluding the temporarily idled St. Marys facility). We have also reduced our annual overhead expenses by approximately \$65 million since 2012 by simplifying our corporate structure from a conglomerate model to a centralized business focused exclusively on the production of graphite electrodes and petroleum needle coke, and we have streamlined and combined our workforce and various administrative functions for efficiency, and eliminated R&D functions unrelated to graphite electrodes. In 2018, we expect to have maintenance capital expenditures of approximately \$35 million. In addition to our fixed cost reductions, we have been able to achieve significant productivity improvements and variable cost reductions across our plants since 2014. Finally, we are currently implementing an operational improvement and debottlenecking initiative, which we expect will increase our currently operating production capacity by approximately 21%, or 35,000 MT, by the end of 2018, allowing us to achieve further improvements in our cost structure. As a result of our prior operational improvement activities, we are able to achieve this large capacity increase with specific, highly targeted capital investments.

In light of improved market conditions, the long lead time required to produce our products, our position as one of the market's largest producers and our ability, through our substantial vertical integration with Seadrift, to provide customers with a reliable long-term supply of graphite electrodes despite the market shortage of petroleum needle coke, we have implemented a new commercial strategy to sell 60% to 65% of our production capacity through three- to five-year take-or-pay contracts. For more information on our new commercial strategy, see "Business Contracts and Customers." Additionally, the divestiture of our non-core legacy Engineered Solutions businesses in 2016 and 2017 has allowed our management team to focus on our core competency of graphite electrode production and generated approximately \$60 million in cash proceeds and release of working capital. By focusing our management's attention and R&D spending exclusively on the graphite electrode business, we have been able to meaningfully improve the quality of our graphite electrodes, repositioning ourselves as an industry quality leader and improving our relationships with strategic customers.

Global economic conditions and outlook

The graphite electrode industry has historically followed the growth of the EAF steel industry and, to a lesser extent, the steel industry as a whole, which has been highly cyclical and affected significantly by general economic conditions. Historically, EAF steel production has grown faster than the overall steel market due to the greater resilience, more variable cost structure, lower capital intensity and more environmentally friendly nature of EAF steelmaking.

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This growth trend has resumed after a decline in EAF steelmaking between 2011 and 2015, as Chinese steel production, which is predominantly BOF-based, grew significantly, taking market share from EAF steel producers. Throughout 2015 and 2016, our business faced significant headwinds in the major industries that we served, including slow economic growth and stagnation in steel production year-over-year. These factors exerted continued downward pressure on prices for our products, which negatively impacted our recent historical profitability. Additionally, in 2015, steel producers utilized BOFs over EAFs at rates higher than we had historically seen, pressuring the prices of and demand for graphite electrodes, as steel consumers in the United States and Europe, our largest markets, increased imports of low-cost steel products, primarily from China. Additionally, prices for iron ore, the key raw material for BOFs, declined faster than scrap steel, the key raw material in EAF production. While a decline in the price of oil benefited our cost structure overall, it contributed to lower prices for petroleum needle coke and, indirectly, graphite electrodes.

Graphite electrodes saw further pricing pressure in the first half of 2016, but EAF production started to recover during the second half of 2016, which indicated a potential bottoming out in prices. Costs of the key raw materials used to run BOFs increased, and the price of scrap steel decreased, re-balancing the economics of EAF mills relative to BOFs. These developments resulted in an increase in our sales volume over the prior year; however, the decline in prices more than offset the volume increase. Because customers historically negotiated annual agreements in the third and fourth quarters of each calendar year for graphite electrodes to be delivered the following year, increases in price often lag behind increases in volume. Nonetheless, a decline in the price of oil and our rationalization initiatives significantly improved our cost structure and positioned us to benefit from a potential recovery.

The outlook for general economic and industry-specific growth brightened in 2017. In its January 2018 report, the IMF increased its October 2017 estimated global growth rate by 0.1% to 3.7% for 2017 and revised upwards both its 2018 and 2019 estimates by 0.2% to 3.9%, respectively. The WSA estimated global steel production outside of China would grow by 2.6% over 2016 levels to 856 million MT in 2017 and by 3.0% to 882 million MT in 2018. The WSA noted that both advanced and developing economies exhibited stronger economic momentum in 2017. Confidence and investor sentiments are improving in a large part of the world despite some financial market volatility and growing concerns about stock market overvaluation.

Other recent macroeconomic and industry trends have created significant increases in demand for graphite electrodes. Beginning in 2016, efforts by the Chinese government to eliminate excess steelmaking production capacity and improve environmental and health conditions have led to limits on Chinese BOF steel production, including the closure of over 200 million MT of its steel production capacity, based on data from S&P Global Platts and the Ministry of Commerce of the People's Republic of China. In 2017, Chinese steel exports fell by more than 30% from 2016, including 17 consecutive months of year-over-year declines, according to the National Bureau of Statistics of China. Reflecting the reduction in steel production capacity, as a result, the historical growth trend of EAF steelmaking relative to the overall steel market resumed and has led to increased demand for our graphite electrodes. At the same time, ongoing consolidation and rationalization of graphite electrode production capacity has limited the ability of graphite electrode producers to meet this demand. Prior to this improvement in demand, the electrode industry experienced an extended, five-year downturn, resulting in a reduction of production capacity outside of China of approximately 200,000 MT (or approximately 20%) since the beginning of 2014.

Petroleum needle coke, which is the primary raw material for graphite electrode manufacturing, and coal tar pitch, which is a raw material used in our manufacturing processes, are currently in limited supply. Demand for petroleum needle coke has outpaced supply due to increasing demand for petroleum needle

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coke in the production of lithium-ion batteries used in electric vehicles. Increased demand has led to pricing increases of four to six times for petroleum needle coke in the current market compared to one year ago. While we believe that our substantial vertical integration into petroleum needle coke through our ownership of Seadrift provides a significant cost advantage relative to our competitors in periods of tight petroleum needle coke supply, such as the current market environment, we currently purchase approximately 25% of our petroleum needle coke requirements from external sources. As a result, we expect to incur increased costs purchasing that portion of our petroleum needle coke supply. Additionally, supply of coal tar pitch, a byproduct of coking metallurgical coal used in BOF steelmaking, has fallen as a result of the reduced demand for metallurgical coke for BOF steel furnaces. Consequently, prices for coal tar pitch have increased starting in the second half of 2017. The higher raw material purchase costs for both petroleum needle coke and coal tar pitch are expected to contribute to an increase in our costs of goods sold in future quarters of 2018.

These factors have led to supply constraints for our products. There are indications that this demand and supply imbalance could persist for some time. As a result, graphite electrode prices have reached record high prices.

Tax Cuts and Jobs Act

On December 22, 2017, the U.S. government enacted the Tax Act, which significantly revises the U.S. corporate income tax system. These changes include a federal statutory rate reduction from 35% to 21%, the elimination or reduction of certain domestic deductions and credits and limitations on the deductibility of interest expense and executive compensation. The Tax Act also transitions international taxation from a worldwide system to a modified territorial system and includes base erosion prevention measures which have the effect of subjecting certain earnings of our foreign subsidiaries to U.S. taxation as global intangible low-taxed income (or GILTI). In general, these changes will be effective beginning in 2018. The Tax Act also includes a one-time mandatory deemed repatriation or transition tax on the accumulated previously untaxed foreign earnings of our foreign subsidiaries.

As a result of the Tax Act, we recorded a charge in 2017 totaling \$54.1 million, reflecting our current estimate of the impact of the Tax Act. This charge included a \$52.2 million charge related to the revaluation of our deferred tax assets and liabilities due to the reduction of the U.S. corporate tax rate and \$39.6 million of transition tax, partially offset by \$37.7 million of additional foreign tax credit related to the transition tax. However, this \$54.1 million charge was offset by a release of valuation allowance reserve on the deferred tax assets. Our accounting for the impacts of the Tax Act is provisional and amounts may be revised in future periods as described in SEC Staff Accounting Bulletin No. 118, which was issued on December 22, 2017 to provide guidance on the accounting for the effects of the Tax Act.

Preliminary estimated financial results for the first quarter of 2018

Set forth below are selected preliminary estimated unaudited financial results from continuing operations for the two months ended February 28, 2018 and the three months ended March 31, 2018. These financial results are unaudited and should be considered preliminary and subject to change. We have provided ranges, rather than specific amounts, for the preliminary results described below as our final results remain subject to the completion of our closing procedures, final adjustments, developments that may arise between now and the time the financial results are finalized, and management's and the audit committee's final reviews. Accordingly, you should not place undue reliance on this preliminary data, which may differ materially from our final results. Please see "Risk Factors," "Special Note Regarding Forward-Looking Statements" and "Management's Discussion and Analysis of Financial Condition and Results of Operations"

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for a discussion of certain factors that could result in differences between the preliminary financial data reported below and the final results. These preliminary estimates should not be viewed as a substitute for our full unaudited condensed consolidated financial statements prepared in accordance with U.S. GAAP. In addition, they are not necessarily indicative of the results to be achieved in any future period.

These estimates have been prepared by and are the responsibility of management. Our independent registered public accounting firm has not audited, compiled, performed any procedures on or reviewed the preliminary financial data, and accordingly does not express an opinion or any other form of assurance with respect to the preliminary financial data.

For the two months ended February 28, 2018, management estimates:

Sales volume in the range of approximately 27,800 to 28,600 MT

Weighted average realized price in the range of approximately \$9,925 to \$9,975 per MT

Net sales in the range of approximately \$285 to \$294 million

Cost of sales in the range of approximately \$92.5 to \$97 million

Selling and administrative expenses in the range of approximately \$10 to \$11 million including approximately \$1.9 to \$2.4 million of expenses related to this offering and \$0.3 to \$0.5 million of pension and OPEB plan expenses

Research and development expenses in the range of approximately \$0.2 to \$0.4 million

Depreciation and amortization in the range of approximately \$10.5 to \$11.5 million (included in cost of sales, selling and administrative expenses, and research and development expenses above)

Other expense in the range of approximately \$1 to \$1.5 million including a non-cash loss on foreign currency remeasurement of \$1 to \$1.5 million

For the three months ended March 31, 2018, management estimates:

Sales volume in the range of approximately to
Weighted average realized price in the range of approximately to
Net sales in the range of approximately to
Cost of sales in the range of approximately to
Selling and administrative expenses in the range of approximately of expenses related to this offering and totoincluding approximately of pension and OPEB plan expensesto
Research and development expenses in the range of approximately to
Depreciation and amortization in the range of approximately to (included in cost of sales, selling and administrative expenses, and research and development expenses above)
Other expense in the range of approximately to including a non-cash loss on foreign currency remeasurement of to

Weighted average realized price for the two months ended February 28, 2018 benefited from a small portion of our electrode sales being sold on a spot basis. Industry spot prices are at record levels of as high as \$15,000 to \$30,000 per MT. However, as a result of our recent three- to five-year contracting initiative and other sales commitments, approximately 96% of our 2018 production capacity is now contracted or committed by purchase orders and will not be available for spot sales. The weighted average selling price of our currently contracted and committed orders for the remaining quarters of 2018 is expected to be approximately \$9,650 per MT. This represents a combination of our three-to five-year take-or-pay contracts as well as other committed business for 2018, which was mostly negotiated in 2017 at lower prices.

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We have made the strategic decision to service our long-term strategic customers through our contracted and committed purchase order volume in the second and third quarters of 2018, and as a result, expect to have only minimal production volume available for sales into the spot market during these quarters.

We expect the results of our operational improvement and debottlenecking initiative to increase our production capacity by approximately 21% beginning in the fourth quarter of 2018. We expect the majority of the incremental volume from our capacity expansion to be available for sale to customers on a spot basis going forward.

We expect that the quarter ended March 31, 2018 will benefit from lower cost of goods sold than future quarters of 2018 due to higher input raw material purchase costs in 2018, which will be reflected in cost of goods sold in future quarters.

Components of results of operations

Net sales

Net sales reflect sales of our products, including graphite electrodes and associated by-products. Several factors affect net sales in any period, including general economic conditions, competitive conditions, scheduled plant shutdowns by customers, national vacation practices, changes in customer production schedules in response to seasonal changes in energy costs, weather conditions, strikes and work stoppages at customer plants and changes in customer order patterns including those in response to the announcement of price increases or price adjustments.

Revenue from sales of our commercial products is recognized when persuasive evidence of an arrangement exists, delivery has occurred, title has passed, the amount is determinable and collection is reasonably assured. Sales are recognized when both title and the risks and rewards of ownership are transferred to the customer or services have been rendered and fees have been earned in accordance with the contract.

Volume discounts, rebates, and returns are recorded as a reduction of revenue in conjunction with the sale of the related products. Returns are highly infrequent as graphite electrodes are consumed upon their use in the steel production process. Changes to estimates are recorded when they become probable.

Cost of sales

Cost of sales includes the costs associated with products invoiced during the period as well as non-inventoried manufacturing overhead costs and outbound transportation costs. Cost of sales includes all costs incurred at our production facilities to make products saleable, such as raw materials, energy costs, direct labor and indirect labor and facilities costs, including purchasing and receiving costs, plant management, inspection costs, product engineering and internal transfer costs. In addition, all depreciation associated with assets used to produce products and make them saleable is included in cost of sales. Direct labor costs consist of salaries, benefits and other personnel-related costs for employees engaged in the manufacturing of our products.

Inventory valuation

Inventories are stated at the lower of cost or market. Cost is principally determined using the "first-in first-out" (or FIFO) and average cost, which approximates FIFO, methods. Elements of cost in inventory include raw materials, energy costs, direct labor, manufacturing overhead and depreciation of the manufacturing fixed assets. We allocate fixed production overheads to the costs of conversion based on normal capacity of the production facilities. We recognize abnormal amounts of idle facility expense, freight, handling costs, and wasted materials (spoilage) as current period charges. Market, or net realizable

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value, is the estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation.

Research and development

We conduct our research and development both independently and in conjunction with our strategic suppliers, customers and others. Expenditures relating to the development of new products and processes, including significant improvements to existing products, are expensed as incurred.

Selling and administrative expenses

Selling and administrative expenses include salaries, benefits and other personnel related costs for employees engaged in sales and marketing, customer technical services, engineering, finance, information technology, human resources and executive management. Other costs include outside legal and accounting fees, risk management (insurance), global operational excellence, global supply chain, in-house legal, share-based compensation and certain other administrative and global resources costs. Our "mark-to-market adjustment" refers to our accounting policy regarding pension and OPEB plans, where we immediately recognize the change in the fair value of plan assets and net actuarial gains and losses annually in the fourth quarter of each year.

Other expense (income)

Other expense (income) consists primarily of foreign currency impacts on non-operating assets and liabilities and miscellaneous income and expense.

Interest expense

Interest expense consists primarily of interest expense on our Old Revolving Credit Facility and the Senior Notes, accretion of the fair value adjustment on the Senior Notes and amortization of debt issuance costs.

Income (loss) from discontinued operations

As of June 30, 2016, the Engineered Solutions segment qualified for reporting as discontinued operations, and the disposition of the segment was substantially complete by the end of the third quarter of 2017. All results are reported as gain or loss from discontinued operations, net of tax.

Business combination accounting

As a result of business combination accounting resulting from our acquisition by Brookfield (see Note 2, Preferred Share Issuance and Merger, of the Notes to the Consolidated Financial Statements included elsewhere in this prospectus), our financial statements are separated into two distinct periods, the period before the consummation of our acquisition by Brookfield (labeled "Predecessor") and the period after that date (labeled "Successor"), to indicate the application of the different basis of accounting between the periods presented. There were no operational activities that changed as a result of our acquisition by Brookfield. Our consolidated statements of operations subsequent to our acquisition by Brookfield include amortization expense relating to the fair value adjustment of intangibles and depreciation expense based on the fair value of our property, plant and equipment that had previously been carried at historical cost less accumulated depreciation.

Effects of changes in currency exchange rates

When the currencies of non-U.S. countries in which we have a manufacturing facility decline (or increase) in value relative to the U.S. dollar, this has the effect of reducing (or increasing) the U.S. dollar equivalent

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cost of sales and other expenses with respect to those facilities. In certain countries in which we have manufacturing facilities, and in certain export markets, we sell in currencies other than the U.S. dollar. Accordingly, when these currencies increase (or decline) in value relative to the U.S. dollar, this has the effect of increasing (or reducing) net sales. The result of these effects is to increase (or decrease) operating profit and net income.

Some of the non-U.S. countries in which we have a manufacturing facility have been subject to significant economic and political changes, which have significantly impacted currency exchange rates. We cannot predict changes in currency exchange rates in the future or whether those changes will have net positive or negative impacts on our net sales, cost of sales or net income.

The impact of these changes in the average exchange rates of other currencies against the U.S. dollar on our net sales was an increase of \$4.5 million, \$0.4 million and a decrease of \$37.8 million for the years ended December 31, 2017, 2016 and 2015, respectively.

The impact of these changes in the average exchange rates of other currencies against the U.S. dollar on our cost of sales was an increase of \$4.2 million and decreases of \$10.1 million and \$37.5 million for the nine months ended September 30, 2017 and the years ended December 31, 2017, 2016 and 2015, respectively.

As part of our cash management, we also have intercompany loans between our subsidiaries. These loans are deemed to be temporary and, as a result, remeasurement gains and losses on these loans are recorded as currency gains or losses in other income (expense), net, on the Consolidated Statements of Operations.

We have in the past and may in the future use various financial instruments to manage certain exposures to risks caused by currency exchange rate changes, as described under "Quantitative and Qualitative Disclosures about Market Risks."

Key metrics used by management to measure performance

In addition to measures of financial performance presented in our Consolidated Financial Statements in accordance with GAAP, we use certain other financial measures and operating metrics to analyze the performance of our company. The "non-GAAP" financial measures consist of EBITDA from continuing operations and adjusted EBITDA from continuing operations, which help us evaluate growth trends, establish budgets, assess operational efficiencies and evaluate our overall financial performance. The key operating metrics consist of sales volume, weighted average realized price, production volume, production capacity and capacity utilization.

Key financial measures

			Successor	Predecessor
	For the ye		For the period August 15 through cember 31,	For the period January 1 through August 14,
(in thousands)	2017	2016	2015	2015
Net sales	\$ 550,771 \$	437,963 \$	193,133	\$ 339,907
Net income (loss)	\$ 7,983 \$	(235,843) \$	(33,551)	\$ (120,649)
EBITDA from continuing operations(1)	\$ 97,884 \$	(12,251) \$	12,674	\$ (32,197)
Adjusted EBITDA from continuing operations(1)	\$ 95,806 \$	(2,898) \$	14,396	\$ 31,628

Key operating metrics

		For the De	•	r ended Iber 31,
(in thousands, except price data)	2017	2016		2015
Sales volume (MT)(2)	172	163		145
Weighted average realized price(3)	\$ 2,945	\$ 2,459	\$	3,344
Production volume (MT)(4)	166	151		137
Production capacity (MT)(5)	195	195		195
Production capacity excluding St. Marys during idle period (MT)(6)	167	176		195
Capacity utilization(7)	85%	77%		70%
Capacity utilization excluding St. Marys during idle period(6)	99%	85%		70%

(1) See below for more information and a reconciliation of EBITDA and adjusted EBITDA to net income (loss), the most directly comparable financial measure calculated and presented in accordance with GAAP.

(2) Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. See below for more information on our key operating metrics.

(3) Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. See below for more information on our key operating metrics.

(4) Production volume reflects graphite electrodes produced during the period. See below for more information on our key operating metrics.

(5) Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Actual production may vary. See below for more information on our key operating metrics.

(6) The St. Marys, Pennsylvania facility was temporarily idled effective the second quarter of 2016, except for the machining of semi-finished products sourced from other plants.

(7) Capacity utilization reflects production volume as a percentage of production capacity. See below for more information on our key operating metrics.

Non-GAAP financial measures

In addition to providing results that are determined in accordance with GAAP, we have provided certain financial measures that are not in accordance with GAAP. EBITDA from continuing operations and adjusted EBITDA from continuing operations are non-GAAP financial measures. We define EBITDA from continuing operations, a non-GAAP financial measure, as net income or loss plus interest expense, minus interest income, plus income taxes, discontinued operations and depreciation and amortization from continuing operations. We define adjusted EBITDA from continuing operations as EBITDA from continuing operations plus any pension and OPEB plan expenses, impairments, rationalization-related charges, acquisition costs and costs related to the change in control as well as proxy contests costs, non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar and non-cash fixed asset write-offs. Adjusted EBITDA from continuing operations is the primary metric used by our management and our board of directors to establish budgets and operational goals for managing our business and evaluating our performance.

We monitor adjusted EBITDA from continuing operations as a supplement to our GAAP measures, and believe it is useful to present to investors, because we believe that it facilitates evaluation of our period-to-period operating performance by eliminating items that are not operational in nature, allowing comparison of our recurring core business operating results over multiple periods unaffected by differences in capital structure, capital investment cycles and fixed asset base. In addition, we believe adjusted EBITDA from continuing operations and similar measures are widely used by investors, securities analysts, ratings agencies, and other parties in evaluating companies in our industry as a measure of financial performance and debt-service capabilities.

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Our use of adjusted EBITDA from continuing operations has limitations as an analytical tool, and you should not consider it in isolation or as a substitute for analysis of our results as reported under GAAP. Some of these limitations are:

adjusted EBITDA from continuing operations does not reflect changes in, or cash requirements for, our working capital needs;

adjusted EBITDA from continuing operations does not reflect our cash expenditures for capital equipment or other contractual commitments, including any capital expenditures for future capital expenditure requirements to augment or replace our capital assets;

adjusted EBITDA from continuing operations does not reflect the interest expense or the cash requirements necessary to service interest or principal payments on our indebtedness;

adjusted EBITDA from continuing operations does not reflect tax payments that may represent a reduction in cash available to us;

adjusted EBITDA from continuing operations does not reflect expenses relating to our pension and OPEB plans;

adjusted EBITDA from continuing operations does not reflect impairment of long-lived assets and goodwill;

adjusted EBITDA from continuing operations does not reflect the non-cash gains or losses from foreign currency remeasurement of non-operating liabilities in our foreign subsidiaries where the functional currency is the U.S. dollar;

adjusted EBITDA from continuing operations does not reflect rationalization-related charges, acquisition costs, costs related to the change in control and proxy contests costs or the non-cash write-off of fixed assets; and

other companies, including companies in our industry, may calculate EBITDA from continuing operations and adjusted EBITDA from continuing operations differently, which reduces its usefulness as a comparative measure.

In evaluating EBITDA from continuing operations and adjusted EBITDA from continuing operations, you should be aware that in the future, we will incur expenses similar to the adjustments in this presentation. Our presentations of EBITDA from continuing operations and adjusted EBITDA from continuing operations should not be construed as suggesting that our future results will be unaffected by these expenses or any unusual or non-recurring items. When evaluating our performance, you should consider EBITDA from continuing operations and adjusted EBITDA from continuing operations alongside other financial performance measures, including our net income (loss) and other GAAP measures.

The following table reconciles our non-GAAP key financial measures to the most directly comparable GAAP measures:

		:	Successor	Predecessor
	For the y Dec	For the period August 15 through ember 31,	For the period January 1 through August 14,	
	2017	2016	2015	2015
			(i	n thousands)
Net income (loss)	\$ 7,983 \$	(235,843) \$	(33,551)	\$ (120,649)
Add:				
Discontinued operations	6,229	126,974	4,926	18,679
Depreciation and amortization	64,025	77,614	24,424	37,473
Interest expense	30,823	26,914	9,999	26,211
Interest income	(395)	(358)	(6)	(363)
Income taxes	(10,781)	(7,552)	6,882	6,452
EBITDA from continuing operations	97,884	(12,251)	12,674	(32,197)
Adjustments:				
Pension and OPEB plan (gain) expenses(1)	(1,611)	(626)	2,397	2,973
Impairments(2)		2,843		35,381
Rationalization-related (gains)/charges(3)	(3,970)	2,366	387	3,049
Acquisition and proxy contests costs(4)	886	8,036	961	22,618
Non-cash loss (gain) on foreign currency remeasurement(5)	1,731	(5,465)	(2,023)	(196)
Non-cash fixed asset write-off(6)	886	2,199		

Adjusted EBITDA from continuing operations

Service and interest cost of our OPEB plans. Also includes a mark-to-market loss (gain) for plan assets as of (1)December of each year. See "Management's Discussion and Analysis of Financial Condition and Results of Operations Components of Results of Operations Selling and Administrative Expenses" for more information.

\$ 95,806 \$

(2,898) \$

14.396

\$

31,628

Goodwill impairment in the first quarter of 2015 for the needle coke reporting unit. (2)

Costs associated with rationalizations in our graphite electrode manufacturing operations and in the corporate (3) structure. They include severance charges, contract termination charges, write-off of equipment and (gain)/loss on sale of manufacturing sites.

(4) Legal costs associated with the proxy contests in early 2015; transaction costs associated with the merger transaction with Brookfield in August 2015, resulting in change in control compensation expenses, including the acceleration of stock-based compensation in the period January 1 through August 14, 2015.

Non-cash (gain) loss from foreign currency remeasurement of non-operating liabilities of our non-U.S. (5) subsidiaries where the functional currency is the U.S. dollar.

(6) Non-cash fixed asset write-off recorded for obsolete manufacturing equipment in the fourth quarter of 2016 and the third quarter of 2017.

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Key Operating Metrics

Key operating metrics consist of sales volume, weighted average realized price, production volume, production capacity and capacity utilization.

Sales volume reflects the total volume of graphite electrodes sold for which revenue has been recognized during the period. For a discussion of our revenue recognition policy, see "Management's Discussion and Analysis of Financial Condition and Results of Operations Critical Accounting Policies Revenue Recognition." Under our policy, volume discounts and rebates are recorded as a reduction of revenue in conjunction with the sale of the graphite electrodes, and shipping and handling revenues relating to graphite electrodes sold are included as an increase to revenue. Weighted average realized price reflects the total revenues from sales of graphite electrodes for the period divided by the graphite electrode sales volume for that period. Sales volume and price help investors understand the factors that drive our net sales.

Production volume reflects graphite electrodes produced during the period. Production capacity reflects expected maximum production volume during the period under normal operating conditions, standard product mix and expected maintenance downtime. Capacity utilization reflects production volume as a percentage of production capacity. Production volume, production capacity and capacity utilization help us understand the efficiency of our production, evaluate cost of sales and consider how to approach our contract initiative.

Customer base

We are a global company and sell our products in every major geographic market. Sales of these products to buyers outside the United States accounted for approximately 81% in 2017 and 83% in 2016 of our net sales.

In 2017, five of our ten largest customers were based in Europe, two in the United States and one each in Brazil, Russia and Mexico. However, all of these customers are multi-national operators.

The following table summarizes information as to our operations in different geographical areas:

	For the year ended December 31,				
(in thousands)	2017	2016			
Net sales:					
United States	\$ 103,890	\$	74,526		
Americas (excluding the United States)	129,103		116,944		
Asia Pacific	46,329		41,302		
Europe, Middle East, Africa	271,449		205,191		
Total	\$ 550,771	\$	437,963		

In 2017, one customer accounted for more than 10% of our net sales. Due to the increased demand for our products, we believe this customer does not pose a significant risk, as sales to this customer could be replaced by demand from other customers.

Results of operations

Results of operations for 2017 as compared to 2016

	For the Year Ended December 31,			
(in thousands)	2017	2016		
Net sales	\$ 550,771	\$ 437,963		
Cost of sales	461,339	448,016		
Additions to lower of cost or market inventory reserve	1,509	18,974		
Gross profit (loss)	87,923	(29,027)		
Research and development	2,951	2,399		
Selling and administrative expenses	49,479	57,784		
Impairment of long-lived assets and goodwill		2,843		
Operating income (loss)	35,493	(92,053)		
Other expense (income), net	1,634	(2,188)		
Interest expense	30,823	26,914		
Interest income	(395)	(358)		
Income (loss) from continuing operations before provision for income taxes	3,431	(116,421)		
(Benefit) provision for income taxes	(10,781)	(7,552)		
Net income (loss) from continuing operations	\$ 14,212	\$ (108,869)		
Loss from discontinued operations, net of tax	(6,229)	(126,974)		
• •		/		
Net income (loss)	\$ 7,983	\$ (235,843)		

Net sales. Net sales increased by \$112.8 million, or 26%, from \$438.0 million in 2016 to \$550.8 million in 2017. This increase was driven by a 19% increase in weighted average realized price for graphite electrodes and a 6.5% increase in sales volume in 2017 compared to 2016. The increases in weighted average sales price and sales volume were driven by increased demand for graphite electrodes due to recent general economic and industry conditions. In particular, prices decreased throughout 2016 and into the first quarter of 2017, but began to increase in the third quarter of 2017. The weighted average sales price increased an additional 42% from the third quarter to the fourth quarter of 2017.

Cost of sales. Cost of sales increased by \$13.3 million, or 3%, from \$448.0 million in 2016 to \$461.3 million in 2017. Increased sales volume of graphite electrodes was the primary driver of this increase resulting in additional cost of sales of \$15.1 million.

Lower of cost or market inventory adjustment. We incurred an inventory adjustment to reduce inventory to the lower of cost or market of \$19.0 million in 2016 for certain product lines within our graphite electrode business. Improved pricing and lower costs in 2017 lessened the need for these charges.

Research and development. Research and development expenses increased by \$0.6 million, or 23% from \$2.4 million in 2016 to \$3.0 million in 2017, primarily due to the write-off of certain research and development fixed assets in connection with our decision to stop research on a project. These charges were partially offset by an increased benefit of \$0.3 million in 2017 from our annual mark-to-market adjustment for pension and OPEB plans.

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Selling and administrative expenses. Selling and administrative expenses decreased by \$8.3 million, or 14%, from \$57.8 million in 2016 to \$49.5 million in 2017. This decrease was driven primarily by continued cost reduction efforts, which were achieved by simplifying our corporate structure. We also experienced an increased benefit of \$1.9 million in 2017 compared to 2016 from our annual mark-to-market adjustment for pension and OPEB plans.

Other (income) expense. Other expense increased by \$3.8 million, or 175%, from income of \$2.2 million in 2016 to expense of \$1.6 million in 2017. This increase was primarily due to non-cash foreign currency impacts on non-operating assets and liabilities and was partially offset by interest income received as part of the resolution of a value added tax (or VAT) dispute in a foreign jurisdiction.

Interest expense. Interest expense increased by \$3.9 million, or 15%, from \$26.9 million in 2016 to \$30.8 million in 2017, primarily due to the increased effective interest rate on our Old Revolving Credit Facility.

Loss from discontinued operations. Loss from our discontinued operations decreased by \$120.7 million, or 95%, from \$127.0 million in 2016 to \$6.2 million in 2017. The decrease in loss was primarily due to a \$119.9 million impairment charge to align the carrying value of assets held for sale to their estimated fair value in 2016.

Benefit from income taxes. The following table summarizes the benefit for income taxes in 2017 and 2016:

		Successor For the Year Ended December 31,		
	2017	2016		
Tax benefit Income (loss) from continuing operations before provision for income taxes	\$ (10,781) 3,431	\$ (7,552) \$ (116,421)		
Effective tax rates	(314)%	6.5%		

The effective tax rate for fiscal 2017 was (314)%. It reflects the release of \$16 million of valuation allowance reserve established against our GrafTech Switzerland net deferred tax assets. A \$54.1 million charge related to the impact of the Tax Act was recorded in the fourth quarter of 2017 but was offset by a release of a valuation allowance reserve on the deferred tax assets. The \$54.1 million charge includes a \$52.2 million charge related to the revaluation of our deferred tax assets and liabilities due to the reduction of the U.S. corporate tax rate and \$39.6 million of transition tax, partially offset by \$37.7 million of additional foreign tax credit related to the transition tax on unrepatriated earnings.

During 2016 and 2017 the effective tax rates differed from the U.S. statutory rate of 35% primarily due to the losses incurred in the United States (and in Switzerland in 2016), where we receive no tax benefit due to a full valuation allowance, as well as taxes on worldwide earnings from various countries. The recognition of the valuation allowance does not result in or limit our ability to utilize these tax assets in the future.

The tax expense changed from a benefit of \$7.6 million, for an effective tax rate of 6.5% for the year ended December 31, 2016 to a tax benefit of \$10.8 million for a (314)% effective rate for the year ended December 31, 2017. This change in the effective tax rate is primarily related to a shift in the jurisdictional mix of earnings and losses from year to year. Certain foreign jurisdictions shifted from pre-tax losses in

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2016 to pre-tax earnings in 2017 (including Switzerland, where a tax benefit was reflected in the 2017 effective tax rate) while the contribution of U.S. pre-tax losses, for which we receive no tax benefit, decreased from 2016 to 2017.

We are still evaluating the impact of the Tax Act on our future U.S. tax liability, but at this time, we expect that the overall impact of the Tax Act on our effective tax rate will be a decrease over more normalized levels from 2016. This decrease is expected due to certain new provisions included in the Tax Act, specifically the reduction in the U.S. income tax rate offset by the new GILTI rules.

Production Capacity

Our graphite electrode plant production capacity in 2017 was 195,000 MT including our St. Marys facility, which has been temporarily idled since the second quarter of 2016. Due to the idling of St. Marys, our production capacity declined to 176,000 MT in 2016 and 167,000 MT in 2017. This production capacity reduction concentrated our manufacturing capabilities at our lowest cost, highest efficiency facilities. This, coupled with a recovery in customer demand, resulted in an increase to our capacity utilization, excluding the St. Marys facility, from 85% in 2016 to 99% in 2017.

Results of operations for 2016 as compared to 2015

		Successor		Predecessor	
(in thousands)	or the year ended cember 31, 2016	For the period August 15 through December 31, 2015			For the period January 1 through August 14, 2015
Net sales	\$ 437,963	\$	193,133	\$	339,907
Cost of sales	448,016		180,845		305,001
Additions to lower of cost or market inventory reserve	18,974				
Gross profit (loss) Research and development Selling and administrative expenses Impairment of long-lived assets and goodwill	(29,027) 2,399 57,784 2,843		12,288 1,083 23,768		34,906 3,377 64,397 35,381
Operating loss	(92,053)		(12,563)		(68,249)
Other expense (income), net	(2,188)		(813)		1,421
Interest expense	26,914		9,999		26,211
Interest income	(358)		(6)		(363)
Loss from continuing operations before provision for income taxes	(116,421)		(21,743)		(95,518)
(Benefit) provision for income taxes	(7,552)		6,882		6,452
Net loss from continuing operations	\$ (108,869)	\$	(28,625)	\$	(101,970)
Loss from discontinued operations, net of tax	(126,974)		(4,926)		(18,679)
Net loss	\$ (235,843)	\$	(33,551)	\$	(120,649)

Net sales. Net sales decreased from \$339.9 million in the period January 1 through August 14, 2015 and \$193.1 million in the period August 15 through December 31, 2015 to \$438.0 million in 2016. This decrease was driven by a 27% decrease in the weighted average realized price for graphite electrodes, which was largely due to overcapacity within the graphite electrode industry. The decrease in price was partially

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offset by a 12% increase in sales volume due to our customers restocking on electrodes as EAF industry production levels began to recover.

Cost of sales. We experienced a decrease in cost of sales from \$305.0 million in the period January 1 through August 14, 2015 and \$180.8 million in the period August 15 through December 31, 2015 to \$448.0 million in 2016. We achieved this reduction despite the 12% increase in sales volumes and increased depreciation expense resulting from the increase in fixed asset carrying value due to the step-up in value after our acquisition by Brookfield. Decreased oil prices during 2016 drove down the price of decant oil, the key raw material in our petroleum needle coke production platform, which decreased our cost of sales. Cost savings resulting from our rationalization initiatives over the previous three years generated the remainder of the favorable impact to cost of sales, as we shifted production from our smaller production facilities to our largest production facilities to increase fixed cost absorption, resulting in an increase to our capacity utilization, excluding the St. Marys facility, from 70% for the year ended December 31, 2015 to 85% for the year ended December 31, 2016.

Lower of cost or market inventory adjustment. In 2016, we incurred an inventory adjustment of \$19.0 million to reduce inventory to the lower of cost or market in certain product lines within our graphite electrode business reflecting the decreased prices for graphite electrodes.

Research and development. Research and development expenses decreased from \$3.4 million in the period January 1 through August 14, 2015 and \$1.1 million in the period August 15 through December 31, 2015 to \$2.4 million in 2016. This decrease was primarily driven by headcount reductions and cost-cutting measures.

Selling and administrative expenses. Selling and administrative expenses decreased from \$64.4 million in the period January 1 through August 14, 2015 and \$23.8 million in the period August 15 through December 31, 2015 to \$57.8 million in 2016. This decrease was primarily driven by a reduction in non-recurring charges. Fees associated with our proxy contests and acquisition-related costs represented \$23.6 million in 2015, while they were approximately \$8.0 million in 2016. Additionally, we incurred a \$2.9 million decrease in our 2016 mark-to-market adjustment as compared to 2015. The remainder of the decrease was the result of headcount reductions and cost-cutting measures, which were achieved by simplifying our corporate structure.

Impairments. As a result of the margin contraction for petroleum needle coke due to the price decreases, we recorded a goodwill impairment charge in our petroleum needle coke reporting unit totaling \$35.4 million during the first quarter of 2015. During the fourth quarter of 2016, we recorded an impairment in the value of assets held for sale at our facility in Brazil totaling \$2.8 million to align its fair value to offers at lower prices than previously estimated.

Other expense (income). Other expense (income) decreased from \$1.4 million of expense in the period January 1 through August 14, 2015 and \$0.8 million of income in the period August 15 through December 31, 2015 to \$2.2 million of income in 2016. The decrease was due to advantageous foreign currency impacts on non-operating assets and liabilities.

Interest expense. Interest expense decreased from \$26.2 million in the period January 1 through August 14, 2015 and \$10.0 million in the period August 15 through December 31, 2015 to \$26.9 million in 2016. The decrease was due to prepayment of our senior subordinated notes issued for an aggregate total face amount of \$200 million (or the Senior Subordinated Notes) in 2015.

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Loss from discontinued operations. Loss from discontinued operations increased from \$18.7 million in the period January 1 through August 14, 2015 and \$4.9 million in the period August 15 through December 31, 2015 to \$127.0 million in 2016. This increase was primarily due to a \$119.9 million impairment charge to align the carrying value of assets held for sale to their estimated fair value.

Provision for income taxes. The following table summarizes the expense for income taxes in 2016 and 2015:

Successor Predecessor