GRAFTECH INTERNATIONAL LTD Form S-1/A April 04, 2018

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As filed with the Securities and Exchange Commission on April 4, 2018.

Registration No. 333-223791

27-2496053

(I.R.S. Employer

Identification No.)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 3 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 Kevnote Circle **Brooklyn Heights, OH 44131** (216) 676-2000

including area code, of registrant's principal executive offices)

(Address, including zip code, and telephone number,

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)

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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.

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

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act. \circ

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered(1)(2)	Proposed maximum offering price per share(2)(3)	Proposed maximum aggregate offering price	Amount of registration fee(4)
Common stock, \$0.01 par value				
per share	43,444,443	\$24.00	\$1,042,666,632	\$129,812

- (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(a) under the Securities Act of 1933, as amended (or the Securities Act).
- (3) Anticipated to be between \$21.00 and \$24.00.
- (4) Includes \$12,450 the registrant previously paid in connection with the initial filing of this registration statement.

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 April 4, 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

37,777,777 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 37,777,777 shares 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 \$21.00 and \$24.00 per share. We have applied to list our common stock on the New York Stock Exchange (NYSE) under the symbol "FAF"

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 175 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 5,666,666 additional 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

Citigroup RBC Capital Markets HSBC

BMO Capital BNP CIBC Capital National Bank TD Markets PARIBAS Markets Financial Securities

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.

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

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 would be comparable to our largest competitor, which we estimate currently has a total of approximately 230,000 MT of production capacity (excluding China). We believe the total worldwide graphite electrode production capacity was approximately 800,000 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.

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."

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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 2000 to 418 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.

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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.

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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 21 plants.

Petroleum Needle Coke

Electrode Supply

Excess production capacity and cost disadvantage versus pitch needle coke.

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 43,000 to 44,000 MT

Weighted average realized price in the range of approximately \$10,000 to \$10,150 per MT

Net sales in the range of approximately \$440 to \$460 million

Cost of sales in the range of approximately \$140 to \$155 million

Selling and administrative expenses in the range of approximately \$16 to \$17 million including approximately \$2.75 to \$3.25 million of expenses related to this offering and \$0.4 to \$0.6 million of pension and OPEB plan expenses

Research and development expenses in the range of approximately \$0.3 to \$0.7 million

Depreciation and amortization in the range of approximately \$15.5 to \$16.5 million (included in cost of sales, selling and administrative expenses, and research and development expenses above)

Other expense in the range of approximately \$1.5 to \$2.5 million including a non-cash loss on foreign currency remeasurement of \$1.5 to \$2.5 million

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 CO₂) 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 electrodes 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.

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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 electrodes together in a furnace. By producing pins at our Monterrey plant, we are able to realize meaningful fixed-cost synergies with our 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 seamlessly to maximize the performance of their furnaces and provide real-time diagnostics and troubleshooting. We believe our customers value our high quality products and customer service, and have provided us with opport

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.

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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. In the new supply-constrained market environment, as of March 1, 2018, we have secured minimum sales volume under 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.

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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 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 (or 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 \$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

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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.

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

37,777,777 shares, assuming no exercise by the underwriters of their options to purchase an additional 5,666,666 shares of common stock from the selling stockholder to cover overallotments.

Common stock to be issued and outstanding after this offering

302,225,923 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 5,666,666 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 16,666 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. See "Dividend Policy."

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We cannot assure you, however, that we will pay dividends in these amounts or at all. 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 any prior notice to our stockholders. Our ability to pay dividends 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. For further discussion of the factors that may affect our business and our ability to pay dividends, see "Risk Factors Risks Related to Our Business and Industry" and "Risk Factors Risks Related to our Common Stock We may not pay cash dividends on our common stock."

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 We have applied to have our common stock listed on the NYSE under the symbol "EAF." The number of shares of common stock to be issued and outstanding after the completion of this offering is based on 302,225,923 shares of common stock issued and outstanding after giving effect to the 3,022,259.23-for-1 stock split on our common stock to be effected prior to the completion of this offering, and excludes an additional 15,000,000 shares reserved for future issuance under our Omnibus Equity Incentive Plan.

Except as otherwise indicated, all information in this prospectus:

gives effect to a 3,022,259.23-for-1 stock split on our common stock to be effected prior to the completion of this offering.

assumes an initial public offering price of \$22.50 per share, the midpoint of the estimated initial public offering price range set forth on the cover page of this prospectus; and

assumes no exercise by the underwriters of their options to purchase an additional 5,666,666 shares of common stock from the selling stockholder to cover overallotments.

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.

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						Successor	Pre	edecessor
		For the year ended December 31,			For the period August 15 through December 31,			For the period anuary 1 through ugust 14,
		2017		2016		2015		2015
		(in th	ou	sands, exce	ept	share and pe	r sh	are 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	\$	0.05	\$	(0.36)	\$	(0.09)	\$	(0.74)
Weighted average common shares outstanding	302	2,225,923	30	2,225,923	3	302,225,923	137	7,152,430
Balance Sheet Data (at period end):			_		_			
Total assets	\$ 1		\$	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		(2,199)		(10,471)		(17,484)		(39,918)
Net cash (used in) provided by financing activities		(32,995)		(8,317)		(23,072)		20,824

- (a) Successor period per share data gives effect to the 3,022,259.23-for-1 stock split on our common stock to be effected prior to the completion of this offering.
- (b) Represents pension and OPEB and related costs and miscellaneous other long-term obligations.

Predecessor	Successor		
For the	For the		
period	period		
January 1	August 15		
through	through	ear ended	For the ye
August 14,	ecember 31,	ember 31,D	Dece
2015	2015	2016	2017

(in thousands)

Other Financial Information:

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

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For the year ended December 31,

(in thousands, except price data) 2017 2016 2015