

Due Diligence and Valuation Report

| | |
|--------------------------|---------------------|
| Arrowhead Code: | 40-01-01 |
| Coverage initiated: | 06 October 2016 |
| This document: | 06 October 2016 |
| Fair share value bracket | € 21.59 and € 24.03 |
| Share price (06-Oct-16): | € 18.40 |

Analysts

| | |
|--|--|
| Parvati Rai | Himanshu Broota |
| +1 212 619-6889 | +1 212 619-6889 |
| parvati.rai@arrowheadbid.com | himanshu.broota@arrowheadbid.com |

Market Data

| | |
|--------------------------------------|-------------------|
| 52-Week Range ⁱ : | € 11.09 - € 19.94 |
| Average Daily Volume ⁱⁱ : | 17,373 |
| Market Cap. (06-Oct-16): | € 379.72 MM |

Financial Forecast (in €) (FY ending - Dec)

| € MM | '16E | '17E | '18E | '19E | '20E | '21E | '22E |
|-----------|-------|------|------|------|------|-------|-------|
| High EBIT | 28.8 | 64.6 | 76.9 | 86.9 | 97.7 | 106.1 | 112.5 |
| High NI | -1.6 | 28.2 | 36.1 | 43.2 | 51.2 | 57.6 | 62.9 |
| High EPS | -0.07 | 1.31 | 1.68 | 2.00 | 2.38 | 2.68 | 2.92 |
| Low EBIT | 26.2 | 63.3 | 75.2 | 84.8 | 95.1 | 103.0 | 108.9 |
| Low NI | -3.3 | 27.3 | 35.0 | 41.8 | 49.5 | 55.6 | 60.4 |
| Low EPS | -0.15 | 1.27 | 1.62 | 1.94 | 2.30 | 2.58 | 2.81 |

Company Overview: Mersen SA (herein referred to as "Mersen SA", "Mersen", or "the group") is a France-based manufacturer of graphite equipments and a provider of electrical solutions. Mersen operates under two segments namely - Advanced Material (graphite specialties for high temperature application, anti-corrosion equipment for chemicals, and power transmission technologies) and Electrical Power (solutions for power management and electrical protection and control that are focused on electrical market). The group's geographical footprint spans across five continents. Mersen SA, formed in 1892, is currently listed on Euronext Paris where it trades under the stock symbol of "MRN".

In H1 2016, Mersen registered an organic sales growth of 0.2% YoY despite 16% decline in chemicals segment sales during this period. The impact of poor performance in chemicals segment was largely offset by the strong performance registered in renewable energy, electronics and aeronautics divisions. Process industries accounted for 35% of the group's revenues, followed by 20% from energy, 18% from electronics, 16% from transportation and 11% from chemicals. In H1 2016, Mersen generated 36% of its revenues from North America, 35% from Europe, 24% from Asia and 5% from South America and Africaⁱⁱⁱ.



| | |
|---------------|--|
| Company: | Mersen SA |
| Ticker: | EPA: MRN |
| Headquarters: | Paris, France |
| CEO | Dr. Luc Themelin |
| CFO | Mr. Thomas Baumgartner |
| Chairman | Mr. Hervé Couffin |
| Website: | https://www.mersen.com/ https://www.mersen.com/en.html |

Arrowhead is initiating coverage on Mersen SA with a fair value bracket of € 21.59 (Low-Bracket estimate) and € 24.03 (High-Bracket estimate).

Key Highlights: **(1)** The company completed implementation of its "Transform Plan" in 2015, which aimed to rationalize the group's focus and efforts to better respond and align to the needs of the rapidly changing target markets^{iv}; **(2)** Under the plan the group reallocated production within geographies and resized its facilities. **(3)** With effect from January 1, 2016, Mersen realigned its organizational structure into two new segments - Advanced Materials and Electrical Power, where it holds leadership or joint leadership position; **(4)** The group has a strong worldwide footprint, with operations spread across 35 countries; **(5)** Mersen has a strong and diverse client portfolio including Airbus, Boeing, Samsung, Siemens and Bombardier; **(6)** The group acquired 13 companies in the last ten years to strengthen its position, broadening and extending its offerings with each acquisition; **(7)** Mersen acquired Eldre, world leader in busbars, in 2011; Cirprotec, world leader in IEC surge protection, in 2014 and ASP, a Chinese leader in Surge Protection Devices, in 2015; **(8)** On July 28, 2016, Mersen announced the results for H1 2016, the company reported organic sales growth of 0.2% for the period driven by 1.4% organic growth in Q2 2016; **(9)** The company stepped up its operational excellence plan in September 2016 with the aim of reorganizing manufacturing units to address chemicals market and some product lines of Electrical Power. The plan is expected to result in € 40-45 MM in savings by 2018.

Key Risks: Key risks include intense competition in the industry and unfavourable global economic environment.

Valuation and Assumptions: On the basis of due diligence and valuation estimates, Arrowhead believes that Mersen's fair share value lies in the € 21.59 - € 24.03 bracket. We have valued the company using the Blended valuation method, with equal weightage to Discounted Cash Flow method and EV/EBITDA multiple based valuation. Our DCF model suggests fair value bracket^v of € 22.46 to € 24.17, while relative valuation provides fair value of € 20.73 to € 23.89.

Table of Contents

| | |
|---|-----------|
| 1. SUMMARY AND OUTLOOK | 3 |
| 2. BUSINESS OVERVIEW: | 4 |
| 2.1 Company History | 5 |
| 2.2 Business Model..... | 6 |
| 2.2.1 Advanced Materials..... | 6 |
| 2.2.2 Electrical Power..... | 7 |
| 2.2.3 Strong Product Portfolio..... | 8 |
| 2.3 Industries Catered..... | 9 |
| 2.4 Financial Overview..... | 13 |
| 2.5 Company Premiums..... | 14 |
| 2.6 Company Risks..... | 14 |
| 2.7 Mersen’s Shareholding Pattern..... | 15 |
| 2.8 Listing and Contact Details..... | 15 |
| 3. KEY VARIABLE ANALYSIS | 16 |
| 3.1 Variable 1 – Revenue from Advanced Materials segment..... | 16 |
| 3.2 Variable 2 – Revenue from Electrical Power segment..... | 16 |
| 4. NEWS..... | 17 |
| 5. MANAGEMENT AND GOVERNANCE..... | 18 |
| 6. INDUSTRY OUTLOOK | 20 |
| 6.1 Macro-economic overview | 20 |
| 6.2 Industry Environment..... | 21 |
| 6.2.1 Energy industry | 21 |
| 6.2.2 Electronics industry | 22 |
| 6.2.3 Chemicals and pharmaceutical industry..... | 22 |
| 6.2.4 Transportation industry..... | 23 |
| 6.2.5 Process industry | 23 |
| 6.3 Competition | 25 |
| 7. VALUATION | 27 |
| 7.1 Discounted Cash Flow Method..... | 27 |
| Variable 1 – Revenue from Advanced materials segment..... | 28 |
| Variable 2 – Revenue from Electrical power segment..... | 28 |
| 7.2 Relative Valuation Method..... | 28 |
| 7.3 Blended Valuation | 29 |
| 8. APPENDIX..... | 31 |
| 8.1 Mersen’s Financial Summary | 31 |
| 8.2 Mersen’s Balance Sheet Forecast..... | 32 |
| 9. ANALYST CERTIFICATIONS | 33 |
| 10. NOTES AND REFERENCES..... | 34 |

1. Summary and Outlook

We initiate coverage on Mersen SA. Headquartered in Paris, France, Mersen is a leading manufacturer of graphite equipments and a provider of electrical solutions. The group operates through two segments, namely Advanced Material and Electrical Power, and serves mainly five industries – Energy, Electronics, Transportation, Process, and Chemicals and Pharmaceuticals industries.

Key Highlights:

- (1) The group adopted the “Transform Plan” in 2014 to rationalize the company’s focus and efforts to better respond and align to the needs of the rapidly changing target markets. The plan was completed by the end of 2015^{vi}. Under the plan, Mersen reallocated production within geographies and resized its facilities.
- (2) On December 2, 2015, Mersen announced changes to its business structure, in order to concentrate on key areas of expertise, innovation and growth market. Effective January 1, 2016, the group's organizational structure was divided into two new segments^{vii} – Advanced Materials and Electrical Power, where it holds leadership or joint leadership position in most of the end user industries its operates in.
- (3) The Advanced Material segment comprises of three businesses focused toward carbon materials, namely graphite specialties for high temperature application, anti-corrosion equipment for chemicals, and power transmission technologies. The Electrical Power segment combines two businesses – solutions for power management and electrical protection and control, focused on electrical market.
- (4) The group prides over its strong product portfolio. The group is one of the major manufacturers of isostatic graphite in the world. The expertise in its areas of operations, strong knowledge and close relations with world’s leading industrial group acts as a significant entry barrier making it difficult for new players to enter the market.
- (5) Mersen has a strong worldwide footprint, with operations across 35 countries. This enables the company to respond quickly to customer needs and concerns.
- (6) The company has a strong and diverse customer portfolio^{viii}, including but not limited to, Airbus Defense and Space (one of the top 10 defense companies worldwide), Samsung, BASF (the largest chemical producer in the world), Bombardier (a Fortune 500 conglomerate), Hitachi, Holcim-Lafarge, Mitsubishi, Siemens, Schneider, Arcelor Mittal. The group is also the preferred supplier of graphite components to Applied Varian, a major supplier of ion implantation equipment used in the fabrication of semiconductor chips.
- (7) Driven by an acquisition led growth strategy, Mersen has acquired 13 companies in the last 10 years to strengthen its position in the developing markets. Each new acquisition broadens and extends the group’s product offerings and expand its footprints. The company acquired Cirprotec in 2014 (world leaders in IEC surge protection) and ASP in 2015 (a leading Chinese company in Surge Protection Devices).
- (8) In H1 2016, Mersen registered organic sales growth of 0.2% driven by 1.4% organic growth in Q2 2016. The impact of poor performance in the chemicals segment was largely offset by strong performance in the renewable energy, electronics and aeronautics space^x. Process industries accounted for 35% of the group’s revenues, followed by 20% from energy, 18% from electronics, 16% from transportation and 11% from chemicals.
- (9) In H1 2016, Mersen generated 36% of its revenues from North America, 35% from Europe, 24% from Asia and 5% from South America and Africa^x.
- (10) Mersen has a strong balance sheet to support the company’s future growth and investments comfortably. Its interest coverage ratio is also sound at 4.38x in H1 2016w. The company generated an operating cash flow of € 28.5 MM in 1H 2016 compared to € 2.3 MM YoY.
- (11) In September 2016, the company stepped up its operational efficiency plan with the aim of reorganizing manufacturing units to address chemicals market and certain product lines of Electrical Power. The plan is expected to cost € 35 MM and result in € 40-45 MM in savings by 2018. The plan entails termination of 130 positions in France at the Pagny sur Moselle and Saint Bonnet de Mure sites. The overall reduction in headcount under the plan stands at 300.

Key Risks: Key risks include intense competition and unfavourable global economic environment^{xi}.

Industry Overview: In 2015, the world continued to witness significant macro-economic headwinds to global economic recovery. The global economic growth remained sluggish in 2015, with GDP growth rate of 3.1% compared to IMF estimate of 3.5% at the start of the year^{xii}. Once the engine of global growth, emerging market economies cracked under the pressure of lower demand from major economies, low commodity prices and shale revolution. According to United Nations Industrial Development Organization (UNIDO), global manufacturing production increased merely 2.8%

in 2015 as developing and emerging industrial economies registered low growth rates on account of falling commodity prices and adverse conditions for external finances^{xiii}. Going forward, manufacturers worldwide are refocusing on growth. The results of the Global Manufacturing Outlook Survey for 2016 conducted by KPMG^{xiv} showed that 74% of surveyed manufacturers reprioritized growth and 56% of the respondents were looking forward to entering new geographic markets. The survey also revealed that 49% of manufacturers plan to invest more than 6% of their revenue on R&D over the next two years, while 34% have already invested at least 6% of their revenues on R&D.

2. Business Overview:

Based out of Paris, France, Mersen SA (formerly Le Carbone Lorraine SA), founded in 1982, is presently engaged in materials and electricals business worldwide. The group primarily produces graphite equipment, metal equipment and electrical equipment. The group’s operating segments are Advanced Material segment and Electrical Power segment.

Mersen restructured its operating divisions in late 2015, leading to the reclassification of its business activities that were earlier classified as The Advanced Materials and Technologies (AMT - Materials) and The Electrical Components and Technologies (ECT - Electrical)^{xv}. AMT Materials specialized in the usage of graphite and other high-performance materials in highly demanding industrial environments, whereas ECT Electrical was focused toward electrical solutions and services for motors and generators, enhancing the safety and performance of electric installations and power electronics. The group executed the “Transform Plan” in its entirety by end of December 2015, which saw the company reallocating production within geographies and resizing facilities. The execution of the “Transform Plan” made the aforementioned restructuring possible. The restructuring enables the group to align its focus and efforts in a better manner to respond to the needs of its target markets.

In-line, Mersen also announced changes to its organizational structure to concentrate on key areas of expertise, innovation and growth market. Effective January 1, 2016, the company's organizational structure is aligned in accordance with the two new segments, wherein it holds leadership or joint leadership position^{xvi}, namely:

- **Advanced Material segment**, which comprises three businesses is focused toward carbon materials such as graphite specialties for high temperature application, anti-corrosion equipment for chemicals, and power transmission technologies.
- **Electrical Power segment**, which brings together two businesses - solutions for power management and electrical protection and control focused on the electrical market.

| Exhibit 1: Products in which Mersen holds leadership position ^{xvii} | |
|---|---|
| Rank | Products |
| The Advanced Material segment | |
| #1 | <ul style="list-style-type: none"> • Graphite based anti-corrosion equipment • Brushes and brush holders for industrial electric motors |
| #2 | <ul style="list-style-type: none"> • High-Temperature isostatic graphite applications |
| The Electrical Power segment | |
| #1 | <ul style="list-style-type: none"> • Supply of passive power electronics components |
| #2 | <ul style="list-style-type: none"> • Industrial fuses |

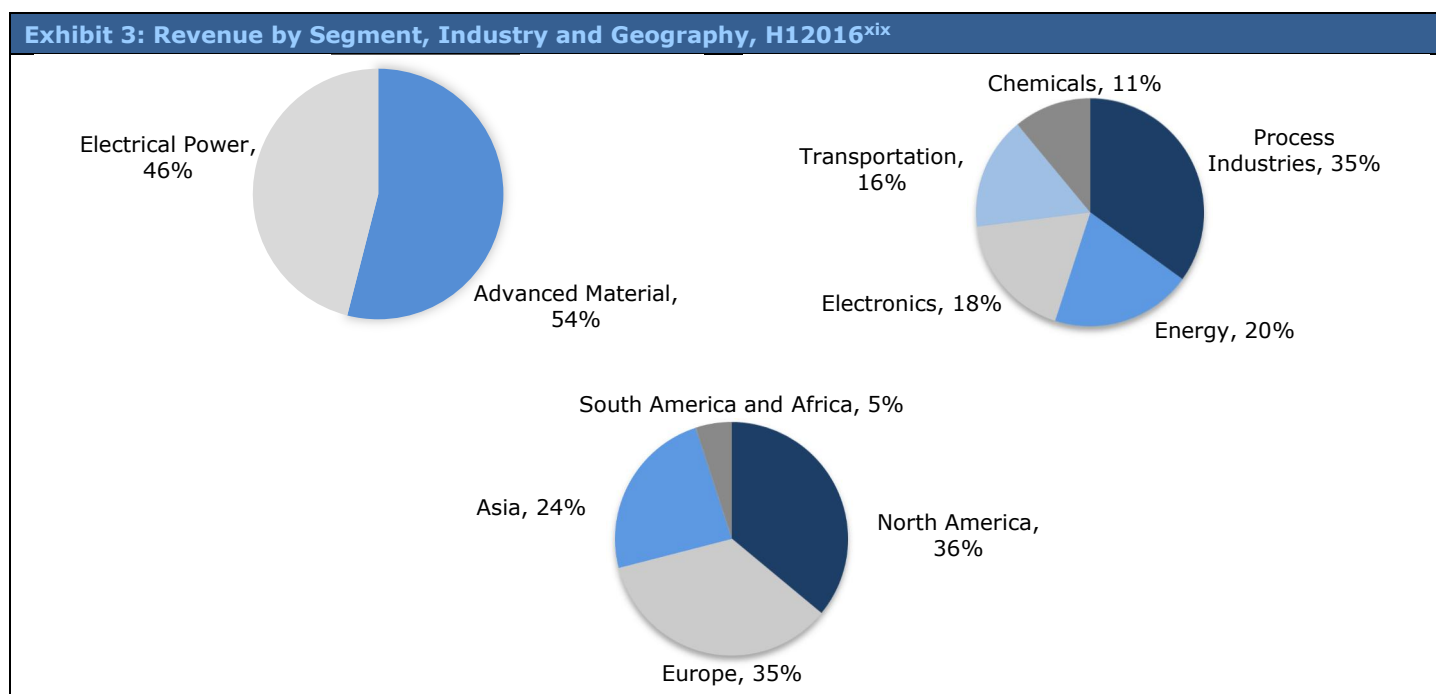
2.1 Company History

| Exhibit 2: Mersen's History ^{xviii} | |
|--|---|
| Year | Events |
| 1891 | <ul style="list-style-type: none"> The Fabius Henrion plant (Lorraine) was built. |
| 1892 | <ul style="list-style-type: none"> Le Carbone was founded in Paris for manufacturing brushes for motors. |
| 1893 | <ul style="list-style-type: none"> Graphitization process was discovered by Le Carbone. The Pagny sur Moselle plant of Fabius Henrion was built. |
| 1897 | <ul style="list-style-type: none"> Le Carbone set up its first international subsidiary in Germany. |
| 1906 | <ul style="list-style-type: none"> Le Carbone deployed first team in the United States. |
| 1915 | <ul style="list-style-type: none"> Pagny sur Moselle plant is destroyed during World War I. |
| 1927 | <ul style="list-style-type: none"> Fabius Henrion became Compagnie Lorraine de Charbons pour l'Electricite. |
| 1937 | <ul style="list-style-type: none"> Le Carbone and Compagnie Lorraine de Charbons pour l'Electricite merge to form Groupe Carbone Lorraine. |
| 1950 | <ul style="list-style-type: none"> Le Carbone Lorraine took over the worldwide distribution of products for Ferraz, an industrial fuse manufacturer based in Lyon. |
| 1953 | <ul style="list-style-type: none"> The chemical engineering business of the company was started in Pagny sur Moselle. |
| 1961 | <ul style="list-style-type: none"> The Amiens plant was built to manufacture carbon brushes for electric motors. |
| 1985 | <ul style="list-style-type: none"> Ferraz was acquired. |
| 1988 | <ul style="list-style-type: none"> Pechiney moves above 50% ownership mark. The industrial seal business was transferred to Carbone Lorraine |
| 1991 | <ul style="list-style-type: none"> Stackpole's electrical and high temperature application assets were acquired. |
| 1996 | <ul style="list-style-type: none"> Pechiney exits Carbone Lorraine. |
| 1998 | <ul style="list-style-type: none"> Cooling system units were set up. |
| 1999 | <ul style="list-style-type: none"> Gould-Shawmut group's electrical protection division was acquired. |
| 2005 | <ul style="list-style-type: none"> First solar and wind energy sales was recorded. The magnets division for automobile applications was sold. |
| 2006 | <ul style="list-style-type: none"> R-Theta was acquired to strengthen position in power electronics. |
| 2007 | <ul style="list-style-type: none"> The group's first manufacturing facility in China was inaugurated in Chongqing. |
| 2008 | <ul style="list-style-type: none"> The group made its first acquisition in China by buying Xianda and Mingrong electrical protection. The rail and motorcycle braking business was divested. The group bought Calcarb, one of the world leaders in rigid carbon felts. |
| 2009 | <ul style="list-style-type: none"> The brushes for automobile and household electrical appliances division were sold. |
| 2010 | <ul style="list-style-type: none"> A majority shareholding in silicon carbide specialist, Boostec, was acquired. A majority shareholding in Yantai was acquired to strengthen the company position in solar energy. |

| | |
|-------------|---|
| | <ul style="list-style-type: none"> • Carbone Lorraine changed its name to Mersen |
| 2011 | <ul style="list-style-type: none"> • The company acquired Eldre, the world’s largest pure player in laminated Busbars. |
| 2014 | <ul style="list-style-type: none"> • Majority stake in lightning and overvoltage protection specialist, Cirprotec, was acquired. |
| 2015 | <ul style="list-style-type: none"> • ASP, a Chinese leader in overvoltage protection, was acquired. |

2.2 Business Model

A technical and technologically driven company, Mersen is a manufacturer of materials and equipment that can withstand extreme environments. The company also manufactures safe and reliable electrical equipment like surge protection devices, fuses, fuse gears and cooling devices. Mersen specializes in designing expert and innovative solutions to meet specific needs that enables its clients across industries to optimize their manufacturing processes. Sectors such as energy, transportation, electronics, pharmaceutical, chemical and processes are Mersen’s key target industries. Geographically, the company is well positioned to cater to customers across North America, Europe, Asia, South America and Africa.

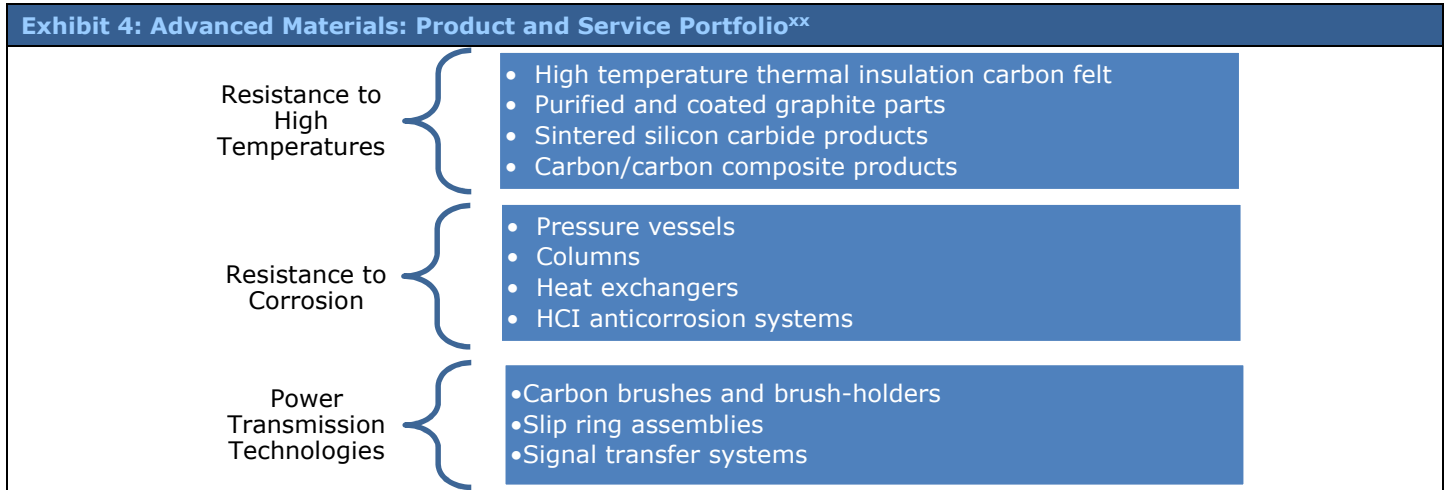


A leading player in its focus markets, Mersen classifies its offerings under two key segments – Advanced Materials and Electrical Power. The present segment categorization came to effect from January 1, 2016. The reorganization is aimed at optimizing the group’s industrial and human resources, while better aligning its business interests to the needs of the different end user markets. This restructuring was made possible by the successful execution of the “Transform Plan” in December 2015. In September 2016, the company stepped up its operational excellence plan with the aim of reorganizing its manufacturing units to address the chemicals market and certain product lines of Electrical Power segment. This would entail termination of around 130 positions in France at the Pagny sur Moselle and Saint Bonnet de Mure sites. Overall, the plan would cost € 35 MM in 2016 and would lead to reduction in the group head count by around 300. The plan is expected to reduce cost base by € 40-45 MM by 2018.

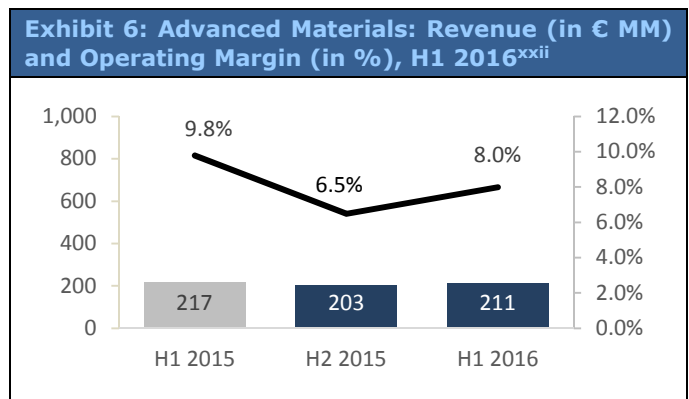
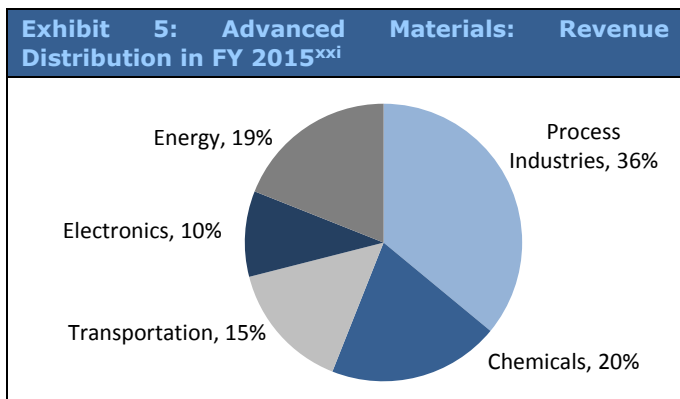
2.2.1 Advanced Materials

Advanced Materials segment offerings include a wide range of products based on carbon and high performance materials, which can withstand resistance to extreme environments requiring high temperatures and corrosion. The products are largely made of graphite and reactive metals, which can withstand demanding process constraints such as

corrosion, high pressure and high temperature. The group also offers products for power transfer under the power transfer technologies sub segment. The focus is on graphite products for high-temperature applications, anti-corrosion equipment designed primarily for chemicals, and power transmission technologies including signal transfer systems.



In this segment, the company holds market leadership globally in graphite based anti-corrosion equipment and brushes, and brush-holders for industrial electric motors. Mersen is also the second leading player worldwide in the category of high temperature isostatic graphite applications. The segment faces strong competition from German based companies such as SGL Carbon (graphite specialties) and Schunk (graphite); Japanese firms, such as Toyo Tanso (isostatic graphite) and Tokai Carbon (fine carbon); and UK firms, such as Morgan advanced material (power transmission technologies). This segment contributes ~55% of total company sales. Mersen’s expansion strategy for the segment is focused toward organic growth, coupled with targeted investments, mainly focused in the solar energy and electronics verticals.

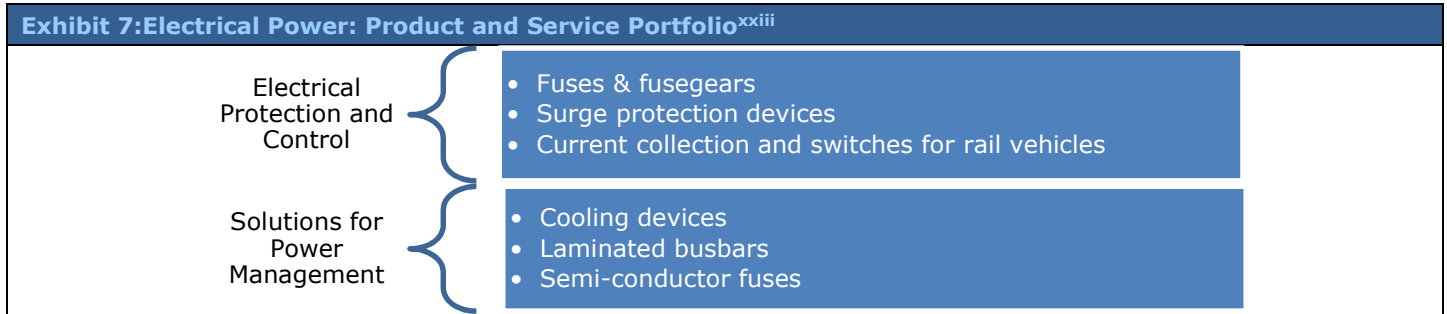


Advanced Materials reported a 3.1% decline in sales during H1 2016 at € 210.5MM vis-à-vis € 217.3MM in H1 2015. The decrease in revenue was mainly due to poor performance within the chemicals market, which was, however, offset by strong growth recorded in the solar and transportation markets. On an organic basis, the performance was relatively better with the segment revenue, remaining almost flat with a marginal 0.3% decline in H1 2016 over last year. Operating margin for the segment contracted from 9.8% in H1 2015 to 8.0% in H1 2016 due to lower volumes and adverse price effect in graphite. However, this is better compared to H2 2015.

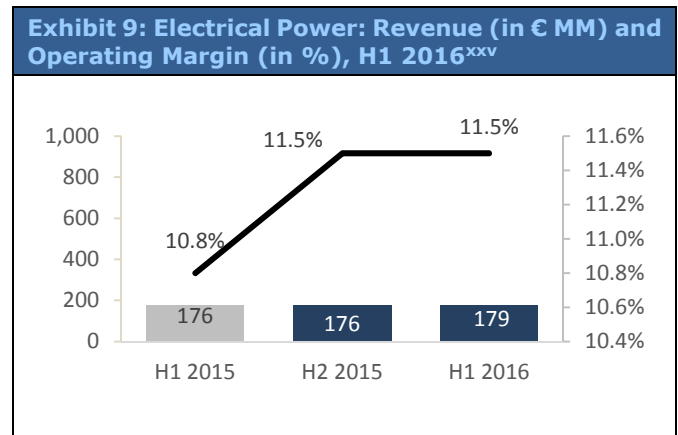
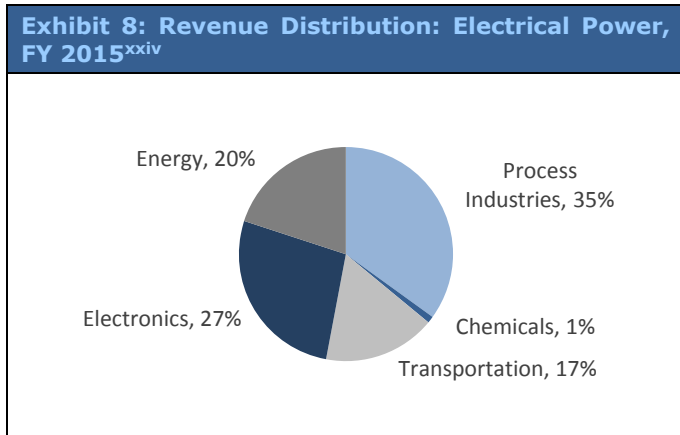
2.2.2 Electrical Power

The Electrical Power segment deals in electrical solutions and services for power management (mainly for power electronics) and electrical protection and control. The products and solutions offered to clients in this segment are geared toward ensuring efficient operation of power generation and distribution systems, and effective utilization of production facilities. The portfolio offerings include comprehensive line of fuses, fuse gears and fuse systems, and surge protection

devices. Mersen switches meet the needs of several demanding industries including industrial controls, power distribution and renewable energy, power generation, research labs, chemical industries, etc.



In the Electrical Power segment, Mersen is the market leader in the supply of passive power electronics components, while it is the second largest supplier worldwide for industrial fuses. The company's key competitors in this segment include Eaton / Cooper Industries (fuses) and Rogers (laminated busbars). With a contribution of ~45% to the top line, Mersen's growth strategy in this segment includes maximizing mature products, while expanding on growth products through path breaking innovations and bolt-on acquisitions. Mature products comprise of fuses, fuse-gears, which hold strong market share and optimized manufacturing capabilities.



Electric Power segment reported positive growth of 1.7% in sales (at € 179MM) compared to H1 2015, driven by robust performance in the solar, transportation and electronics market, which off-set the revenue decline recorded in the process industries. On an organic basis, a sales growth of 0.9% was registered in H1 2016 vis-à-vis H1 2015 in the segment.

Operating margin for the Electrical Power segment expanded by 70bps to 11.5% in H1 2016 compared to H1 2015, benefitting from positive volume impact combined with negative price effect in the US.

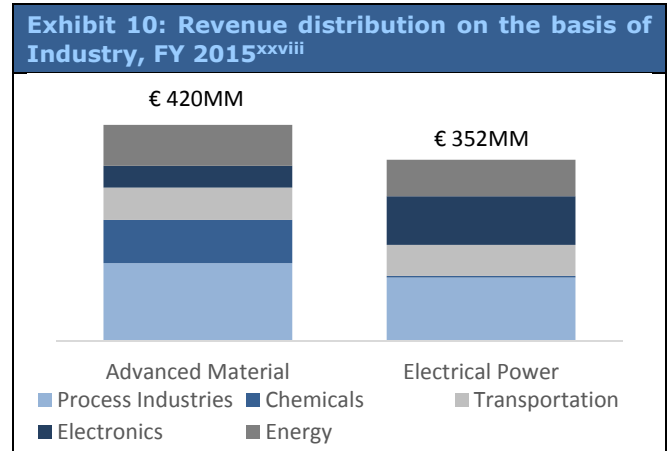
2.2.3 Strong Product Portfolio^{xxvi}

The group offers a wide variety of products and solutions to industrial companies worldwide to enhance their product performance. Mersen is one of the major manufacturers of isostatic graphite. Manufacturing isostatic graphite is fraught with complex production procedures which makes it difficult for any new player to enter the market. In addition, Mersen offers a wide product range in its Electrical Power segment adhering to standards set by various markets including US and China.

Moreover, the company enjoys close relationships with world's leading industrial group and strong expertise in its segments of operation. This acts as a strong entry barrier, barring new players from entering into the market.

2.3 Industries Catered^{xxvii}

The markets Mersen caters to through its two segments, Advanced Materials and Electrical Power, are mainly driven by end-user industries. Leveraging its expertise in both the segments, Mersen’s portfolio offerings is quite exhaustive and geared toward serving markets that address the challenges of energy efficiency and demographic growth. Key focus industries for the company’s products and solutions are Chemical, Process, Transportation, Electronics and Energy. In FY 2015, the Advanced Material segment generated € 420MM sales and Electrical Power generated € 352 MM. The Process Industry was the largest contributor to the sales and accounted for ~35% sales of both Advanced Material segment and Electrical Power segment. In H1 2016, Process industry continued to remain the largest contributor to the revenue at 35%, followed by Energy at 20%, Electronics at 18%, Transportation at 16%, and lastly Chemicals at 11%.



- 1. Energy^{xxx}:** Mersen develops solutions to address the needs of conventional sources of energy, along with alternative energy sources, such as renewable energy. The company’s conventional energy solutions are mainly focused on power generation and power conversion, where it holds expertise in re-engineering existing solutions, along with creating maintenance tools to improve overall performance. A strong player, Mersen has a diversified client base in the conventional energy market, comprising of motor and generator manufacturers (ABB, Alstom, Siemens, and General Electric) and distribution system operators (EDF). In the conventional energy installation segment, the company offers a wide range of solutions, including equipment for thermal power stations, for which it is a leading supplier.

Exhibit 11: Mersen’s Solar Cell Manufacturing Offerings^{xxix}

| | |
|--|---|
| Manufacture of polysilicon | Complex graphite components & equipment |
| Ingot production | Furnace linings, machined graphite parts, furnace insulation |
| Doping & surface treatments | Graphite and composite material equipment |
| Solar panels power protection | Fuses, fuse gears, electronic systems, surge protection devices, combiner boxes |
| Power conversion | Cooling devices, laminated busbars, fuses |

Exhibit 12: Mersen’s Customers^{xxxi}

In the alternative energy segment, Mersen is also working toward developing cost effective technological solutions, which can increase efficiency in the manufacturing process for renewable energy. Among the new renewable energy sources, solar energy is a strong focus area for the company. Mersen offers a host of solutions across the value chain of the complex solar cell manufacturing process. In addition, it also provides a full range of products and

solutions for the conversion and distribution of photovoltaic energy and for the protection of installations. By the end of 2015, Mersen also become the first company to offer a complete range of protection components for 1500V DC applications. The company’s growth strategy in the solar space is to further consolidate its market position by supporting polysilicon manufacturers development projects, mainly in the US and Chinese region.

Wind energy is another strong market within the energy domain for Mersen, wherein it provides solutions for energy conversion and distribution, electricity generation, and electrical protection. The group also develops maintenance services to optimize wind energy production. These services include technical diagnostics, equipment verification, installation and replacement of components.

| Exhibit 13: Mersen’s Wind Power Industry Offerings ^{xxxii} | |
|---|--|
| Blade Orientation | Signal transmission systems, brush and brush holders |
| Power Generation | Slip ring assemblies, brushes and brush-holders |
| Power Distribution | Fuses and fuse gears |
| Power Electronics | Cooling devices, laminated busbars, fuses |
| Maintenance and other services | |




A recognized player within the wind power market, Mersen services both OEM and replacement markets, with replacement markets (especially in US) constituting a major portion. Strong on customer relationship, the company has signed contacts with industry leaders including ABB, Vestas and ELIN Motoren, etc. Growth strategy adopted for wind energy includes strengthening its positions in the OEM market.

Hydro energy is another interest area within the renewable energy market, wherein its portfolio services include a range of customized services, along with efficient solutions in electrical, mechanical and sealing areas. The company’s key hydro energy offerings include brush and brush holders for generators, slip rings, and carbon dust collection systems.

- 2. Electronics^{xxxiv}:** Mersen provides solutions to electronics industry for manufacturing semiconductors and for power conversion. As the market evolves toward energy efficient products, the demand for power electronics and low consumption energy components are rising remarkably. Here the company is mainly focused on high-end applications. Operating in both the segments of electronics market (upstream and downstream) and armed with the technological expertise, Mersen is well positioned across the semi-conductor manufacturing value chain. The company is equipped to provide high-grade and ultra-pure graphite for the manufacture of semiconductors to its clients, ensuring optimal efficiency of their products. The company provides custom-made power electronics components (sophisticated cooling, interconnection and protection systems) to equipment suppliers that are critical in optimizing the design of their power modules. These components are found primarily in speed drives for electric motors in industrial and service facilities, in transmission grid and energy distribution interconnections.

| Exhibit 15: Mersen's Semiconductor Products ^{xxxv} | |
|---|---|
| Production of monocrystals | Complex graphite components, furnace linings and ultra-pure carbon insulation equipment |
| Active layer deposition | Ultra-pure graphite wafer carriers |
| Component encapsulation and welding | High precision graphite and composite machined jigs |



| Exhibit 16: Mersen's Customers ^{xxxvi} | |
|---|---|
| Component manufacturers | |
|  |  |
|  |  |
| OEMs | |
|  |  |
|  | |

Mersen has adopted a two-pronged growth strategy, whereby it looks to consolidate market position by banking on its strong relationship with equipment manufacturers on one hand, while on the other undertake investments to tap into the evolving semiconductors market, mainly in the US. Europe and Rest of the World are not a focus market, wherein investments have declined in 2015.

Mersen's growth strategy also includes increasing the production of Silicon Carbide where it is well positioned with the main producers of silicon carbide monocrystals such as Cree Research and SiCrystal. SiCrystal is also involved in the production of other kinds of monocrystals, such as gallium arsenide and calcium fluoride, for which the company received large orders in 2015.

- 3. Chemicals and pharmaceuticals^{xxxvii}:** A leading company in the anticorrosion industrial equipment space, Mersen holds considerable expertise in chemical processes, thermal and mechanical design, corrosion and materials, welding and manufacturing processes. Mersen supplies an extensive range of custom made graphite and reactive metals equipment to meet the needs of several industries including construction, auto, agrochemicals and pharmaceuticals.

| Exhibit 17: Mersen's Chemical and Pharmaceutical Industry Offerings ^{xxxviii} | |
|--|---|
| Customized graphite and reactive metal equipment | Heat exchangers, columns, reactors |
| Pre-assembled systems | Combination of synthesis units, columns and heat exchangers |

| Exhibit 18: Mersen's Customers ^{xxxix} | |
|---|---|
| Chemicals | |
|  |  |
|  |  |
|  | |
| API | |
|  |  |
|  |  |
|  | |

The chemicals industry, however, has witnessed a slowdown since 2014 across geographies, on account of unfavourable economic environment around the world. The market sluggishness has translated into a slowdown in sales of new integrated equipment for Mersen impacting overall performance in the segment. Orders in the industry are primarily driven by new capex investments, especially by the corrosive chemicals manufacturers, and maintenance services. The company received few notable orders in this space during 2015 such as a contract with a European company for the supply turnkey system for the synthesis of liquid hydrochloric acid, and orders for heat exchangers in Morocco and China. In addition, Mersen also received large orders from the growing specialty chemicals sector (herbicides, food additives and paint). Fertilizers within this space continued to remain a significant market for the company, as the market grew in Middle East and Africa, while it slowed in Asia, particularly in China.

- 4. Transportation^{xl}:** Mersen solutions in the transportation industry are focused toward rail, air and space segment. The company's solutions and services are geared toward enhancing efficiency, reliability, and safety of electrical systems, wherein it provides equipment catering to both rail infrastructure and rolling stock. In air transport, the company is focused on providing advanced components that are able to withstand extreme environments, while in the space segment the emphasis is toward supplying silicon carbide mirrors and structures for telescopes.

Rising demand for mass transit solutions, primarily in the emerging markets of China and India, resulted in transportation industry offering brisk business for Mersen during 2015. In the past year, the company received orders to supply several international rail projects, such as Hawaii, Riyadh (Saudi Arabia), Kochi (India), the subway systems in Honolulu and a suburban train system renewal contract in South Africa. Mersen also signed a contract for the Dubai subway system (United Arab Emirates) with Bombardier and Kinki Sharyo. Similarly, the group did well in the air transportation segment too. In 2015, the group continued to make efforts to increase its market share in the segment. In 2015, Mersen worked with subcontractors supplying products to industry majors such as Airbus, Boeing, Bombardier and Embraer, providing components such as refractories, bus bars, carbon brushes and many more products. In the space segment, the company received subcontracting orders from Airbus Defense and Space for the Euclid, IASI-NG, Sentinel 2C and 2D projects. Transportation industry, presently contributes 16% (H1 2016) to the company's sales; albeit it is a fast growing segment.

| | |
|------------------------------------|---|
| Power distribution | Current collectors, fuses, surge protection devices |
| Energy supply | Brushes, coolers, laminated busbars |
| Abrasion resistant products | Refractory components |
| Other components | Sealing components, aerospace mechanical components, carbon brushes |

| | |
|---|---|
| Rail | |
|  |  |
| Aeronautics | |
|  |  |
| Space | |
|  | |

5. Process industries^{xliii}: In the Process industry, Mersen primarily serves companies operating in metallurgy, mining, cement production, and paper production through both its divisions, Advanced Material and Electrical Power. The company's 2014 acquisition of Cirprotec enhanced its offerings within the surge protection devices, enabling Mersen to hold a significant presence in the market. However, the company's business activities remained affected in 2015 and first half 2016 due to sluggish economic environment globally. The process industry, with 35% contribution to the top line in H1 2016, continued to remain the largest end-user market for Mersen.

| | |
|-------------------------------|--|
| Metallurgy | Electrical solutions for foundries and furnaces, hot and cold rolling mills and galvanic lines |
| Cement | Electrical solutions for DC motors, asynchronous motors with wound rotors, etc. |
| Rubber and Plastics | Solutions designed for specific operations (extrusion, injection, hot working, constant or variable speed, etc.) |
| Mining | Solutions designed for the optimal performance of power shovels, draglines, loaders, dump trucks, underground equipment, etc. |
| Pulp and Paper | High-performance electrical solutions (for pulping machines, winders, rollers, driers, etc.), and mechanical and sealing solutions (for pumps and other systems) |
| Assembly Manufacturing | Optimized solutions and services for electrical rotating machines and power and signal transfer |

2.4 Financial Overview^{xlv}

Mersen reported a 6.3% YoY increase in the top line at € 772MM in 2015 as compared to € 726MM sales in 2014, driven by strong growth in the expanding markets such as renewables, electronics and aeronautics. However, the revenue declined 2.2% on a like-for-like basis mainly due to poor performance in the chemicals sector globally.

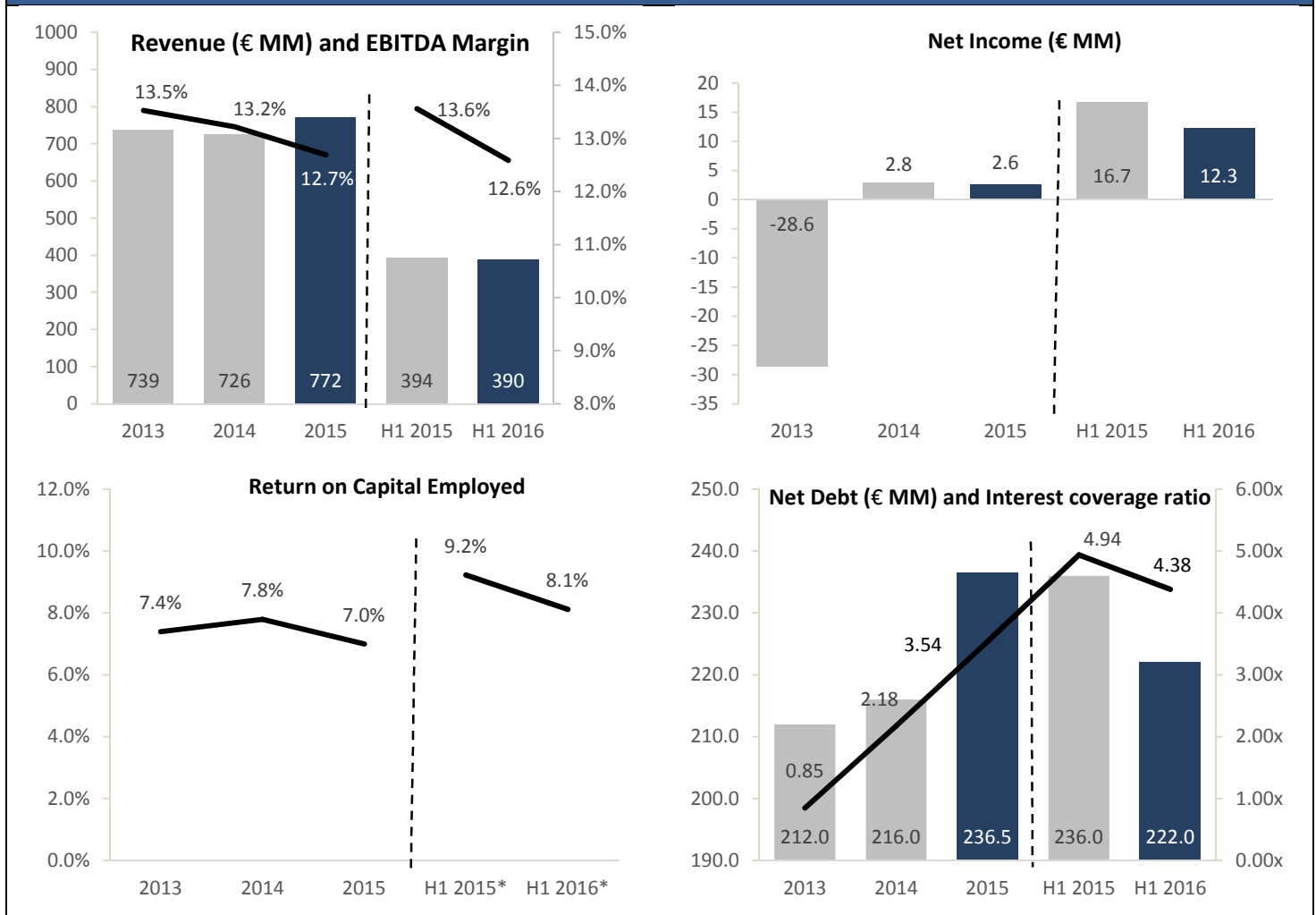
By market, process industries contributed the largest portion of revenue at 35.5% in 2015 (35.0% in 2014) followed by energy sector at 19.0% (18.0% in 2014), electronics sector at 18.0% (no change since 2014), transportation sector at 16.5% (16.0% in 2014), and chemicals sector at 11.0% (13% in 2014).

Despite the like-for-like business contraction, Mersen SA delivered an EBITDA margin of 12.7% under challenging conditions, driven by the benefits of the transform plan.

In H1 2016, Mersen registered almost flat sales of € 390MM compared to € 394MM in H1 2015. The EBITDA margin, however, contracted by 100bps due to unfavorable market environment that was partially offset by the benefits derived from the various operational improvement plans implemented since the beginning of the year. Going ahead, the operational excellence plan will entail a cost of € 35 MM in 2016 and is expected to deliver € 40-45 MM in savings to the company over the period of 2016-18. In addition, the company is in discussions to sell the high voltage switches business at the Saint Loup de Naud site in France. This would result in € 5 million loss of sales and € 6 million reduction in Net Income (mainly on account of asset impairment charges).

Mersen has a strong balance sheet, which can support the company’s future growth and investments comfortably. Its debt coverage ratio is also sound at 4.38x in H1 2016. Net debt overall decreased as of June 30, 2016 to € 222MM from € 236.5MM as of June 30, 2015.

Exhibit 22: Financial snapshot^{xlvi}



2.5 Company Premiums^{xlvi}

- 1. Diversified geographic presence:** Mersen has a strong international presence with operations in 35 countries globally, through its subsidiaries, affiliates and representative offices. The company's strategy of setting up localized production facilities for higher productivity and efficiency, combined with a widely distributed customer base will bring about economies of scale and improve margins. A better geographic spread also provides Mersen stability and growth in situations of adverse economic conditions in a particular market or economy. Major markets where the company has exposure includes North America (37% of revenue), Europe (34%), Asia (24%) and South America and Africa (5%).
- 2. Focus toward customer service:** Mersen operates 56 facilities across five continents. This enables the company to stay close to its customer base and provide the timely services, which in turn enhances Mersen's brand image. In addition, the company operates 12 R&D centers around the world (four in the US, seven in Europe and one in China), which allows it to stay close to customers and develop new products and solutions, which are more aligned with their needs. Localized operations increase the competitiveness of Mersen's products.
- 3. Strong product portfolio:** The company, by the virtue of its strong expertise in materials segment and knowledge of norms and standards in electrical segment, enjoys market leader or joint market leader position in several products. One of the important offerings of the company, isostatic graphite, has a complex production procedure which acts as an effective entry barrier and makes it difficult for new players to enter the market.
- 4. Focus on core business competencies:** Mersen completed its "Transform Plan" in 2015 under which it reallocated production within geographies, resized facilities. This has enabled the company to focus more on its core competencies and is expected to yield significant improvements going ahead.
- 5. Strong and diverse customer portfolio:** Mersen offers its solutions to several key markets such as energy, transportation, electronics, process, and chemicals and pharmaceuticals allowing for a strong and diverse customer base. The company's customer portfolio boasts of major names such as Airbus Defense and Space (one of the top 10 defense companies worldwide), Samsung, BASF (the largest chemical producer in the world), Bombardier (a Fortune 500 conglomerate), Hitachi, Holcim-Lafarge, Mitsubishi, Siemens, Schneider, Arcelor Mittal. Mersen is also the preferred supplier of graphite components to Applied Varian (a major supplier of ion implantation equipment used in the fabrication of semiconductor chips).

2.6 Company Risks^{xlvi}

- 1. Customer base is sensitive to global economic cycles:** Mersen's primary customer base is constituted of clients from industries, which are considerably impacted by global economic conditions. For example, Processes industry, the company's largest revenue contributor predominantly serves oil and mineral extraction companies, cement producing companies, paper production and glassmaking. All these industries are impacted by economic cycles. Thus, a downturn in economic cycle can have an adverse impact on Mersen.
- 2. Intense competition:** Mersen operates in a highly competitive industry characterized by companies of varying sizes, with different companies specializing in different products, and different levels of financial resources. Mersen's key competitors include SGL Carbon SE, Toyo Tanso Co., Ltd., Tokai Carbon Co., Ltd., Morgan Advanced Materials plc, and Schunk GmbH & Co. KG under the Advanced Material segment. Under the Electrical Power segment the company faces competition from Eaton/Bussmann, Inc. and Rogers Corporation.
- 3. Legal risks:** The company has certain pending legal proceedings against it in Canada and France. The civil proceedings initiated by Morgan Crucible Ltd. against Mersen Toronto, following the imposition of CAD 1 million fine on the former for anti-trust practices is still in progress; there have been no new developments since 2007 in the same. Criminal proceedings initiated over an accident on April 7, 2010 at Mersen's site in Gennevilliers is still in progress.

2.7 Mersen's Shareholding Pattern^{xlix}

As on June 30, 2016, the number of shares outstanding was 20,636,854. The number of shares could be increased to 21,531,381 after exercising the unexercised options of 894,527 shares.

| Exhibit 23: Shareholding pattern | | Exhibit 24: Shareholding Pattern | | |
|---|------------------------------------|----------------------------------|-------------------|--|
| <p>Legend:</p> <ul style="list-style-type: none"> ACF Investment Corp BPIFrance Participations Caisse des Depots et Consignations Sofina SA Others | Shareholders | No. of Shares | % of total | |
| | ACF Investment Corp | 3,624,304 | 17.6% | |
| | BPIFrance Participations | 2,242,770 | 10.9% | |
| | Caisse des Depots et Consignations | 922,269 | 4.5% | |
| | Sofina SA | 1,679,852 | 8.1% | |
| | Others | 12,167,655 | 59.0% | |
| | Total | 20,636,854 | 100.0% | |

2.8 Listing and Contact Details^l

The ordinary shares of Mersen SA are listed on Euronext Paris (EPA) (Ticker: EPA: MRN, Date of Listing: July 27, 1989)

Contacts: Tour EQHO, 2 avenue Gambetta, La Défense Cedex, Paris, 10077 France

E-mail ID: dri@mersen.com

Phone: +33 1 46 91 54 19

3. Key Variable Analysisⁱ

According to the new organization structure from 2016 onward, the operations of the company have been split into Advanced Materials segment and Electrical Power segment.

3.1 Variable 1 – Revenue from Advanced Materials segment

The Advanced Material segment accounts for ~55% of the sales. Under the segment, Mersen offers products based on carbon and high performance materials, which can withstand extreme environments (including high temperatures and corrosion) and offers power transfer products such as carbon brushes, slip ring assemblies etc. Mersen holds market leadership position in graphite based anti-corrosion equipment and brushes and brush-holders for industrial electric motors. The company is also the second leading player worldwide in high temperature isostatic graphite applications. Mersen's future strategy for the segment is focused toward organic growth. Going ahead, we expect the growth in renewable energy and transport to make up for the slump in chemicals industry. Overall, we forecast the sales from Advanced Material segment to grow at a CAGR of 5.0%-4.6% between 2016-22.

| Exhibit 25: Advanced Material segment | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| In €MM | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Low Bracket | 413.0 | 427.6 | 445.7 | 469.3 | 494.6 | 516.3 | 541.5 |
| High Bracket | 414.9 | 431.2 | 451.3 | 476.4 | 503.5 | 527.3 | 554.7 |

3.2 Variable 2 – Revenue from Electrical Power segment

The Electrical Power segment accounts for ~45% of the sales. In this segment, Mersen deals in electrical solutions and services for power management (mainly for power electronics) and electrical protection and control. Mersen holds market leading position in the supply of passive power electronics components. The group is also the second largest supplier worldwide for industrial fuses. Mersen's growth strategy for the segment includes maximizing mature products as well as expanding on growth products through innovations and bolt-on acquisitions, mainly targeted in the solar and wind energy and electronics verticals. Going ahead, we expect the growth in electronics and energy segment to drive the growth in Electrical Power segment. Overall, we forecast the sales from Electrical Power segment to grow at a CAGR of 3.9%-3.6% between 2016-22.:

| Exhibit 26: Electrical Power segment | | | | | | | |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| In €MM | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Low Bracket | 359.3 | 367.4 | 375.4 | 385.5 | 396.0 | 418.1 | 443.1 |
| High Bracket | 360.4 | 369.6 | 378.8 | 390.2 | 402.1 | 425.9 | 453.0 |

We have relatively maintained our forecast for FY 2016 at the same level as FY 2015 on account of slowdown in chemical industry and stable process industries.

4. News^{lii}

- 1. Announced stepping up of operational excellence plan:** On September 13, 2016, Mersen announced its intention to step up its operational excellence plan. The plan aims to reorganize the company's manufacturing units and addressing the chemical markets and certain product lines in Electrical Power segment. The plan entails termination of 130 positions in France at the Pagny sur Moselle and Saint Bonnet de Mure sites. Overall the plan would result in reduction in headcount by 300 and generate a cost base reduction of € 40-45 MM by 2018.
- 2. Announced results for H1 2016:** On July 28, 2016, Mersen announced the results for H1 2016. The company reported an organic sales growth of 0.2%. The operating margin contracted to 7.8% for H1 2016 from 8.6% YoY. However, it is an improvement over the 7.1% operating margin posted in H2 2015.
- 3. Announced multi-year contract with Bombardier Transportation:** On July 18, 2016, Mersen announced signing of multi-year contract with Bombardier Transportation to supply cooling devices and laminated bus bars for the San Francisco BART project over a five-year period. This is the largest contract in Mersen's history.
- 4. Announced signing of partnership agreement with TransPod:** On May 19, 2016, Mersen announced signing of a partnership agreement with TransPod, the Canadian startup that is building the world's leading Hyperloop system to disrupt and redefine commercial transportation. Under the partnership, Mersen will provide cooling solutions to protect the power conversion equipment, enabling the capsule to travel at a speed of over 1,000 km/h in a vacuum tube.
- 5. Announced approval of its new governance framework:** On May 11, 2016, Mersen announced adoption of its new governance framework, wherein a Board of Directors will now lead the Group. Previously, Mersen's governance framework consisted of a Supervisory Board and a Management Board. Following the Annual General Meeting, the Board of Directors appointed Hervé Couffin as Chairman of the Board of Directors and Luc Themelin as Chief Executive Officer. It also adopted its Internal Rules.
- 6. Announced signing of contract for supply of structure and mirrors for optical instrument:** On April 21, 2016, Mersen announced signing of contract with Airbus Defence and Space for supply of structure and mirrors for the optical instrument for MicroCarb satellite. The € 1MM worth order stands as a testimony to Mersen's expertise in advanced materials.
- 7. Announced results for full year 2015:** On March 09, 2016, Mersen announced the results for year 2015. The company reported a 6.3% YoY increase in its revenue. However, the EBITDA margin declined to 12.7% in 2015 from 13.2% in 2014.
- 8. Announced signing of contract for supply of laser mirrors:** On February 23, 2016, Mersen announced signing of € 1.9MM order for supply of laser mirrors for a new generation of revolutionary scanners. These images are crucial for the supervision and documentation of a vast variety of high-precision environments. The order illustrates Mersen's ability to serve all sectors within the industry.
- 9. Announced change in its organizational structure:** On December 2, 2015, Mersen announced changes to its organizational structure based on the priorities set out in its development strategy. Under the new organization, Mersen created two uniform segments, namely Advanced Materials and Electrical Power. The reorganization will enable the group to optimize its industrial and human resources and align its businesses more effectively with the needs of its different markets.
- 10. Announced acquisition of ASP:** On June 24, 2015, Mersen announced signing of an agreement to acquire ASP, a Chinese leader specializing in overvoltage protection (surge protection devices). The acquisition was part of its strategy to expand the group's electrical segment in the overvoltage protection market. In February 2014, Mersen had acquired a majority stake in Cirprotec, which provided the group with a strong expertise in IEC standards.

5. Management and Governance^{liii}

The Company has a team of experienced professionals with expertise in varied fields. These highly qualified professionals have been with the firm for a long time, signifying the stability of the firm's management. The management's focus is on improving profitability.

| Exhibit 27: Management Team | | |
|-----------------------------|---|--|
| Name | Designation | Background |
| Luc Themelin | CEO | <ul style="list-style-type: none"> • Luc Themelin holds a Ph.D. in ceramic material science. • He started his career in 1988 at Alliages Frites Metafram. • Associated with the company for over 23 years, Luc Themelin has held various positions and responsibilities at Mersen. He worked in the capacity of Chairman of the Management Board between August 2011 and May 2016. Following the change in governance, he was appointed as the CEO of the company in May 2016. |
| Thomas Baumgartner | CFO | <ul style="list-style-type: none"> • Thomas Baumgartner is a graduate in political studies from IEP school, Paris. • He began his career in 1996 at Credit Lyonnais. • Joining Mersen in 1999 as head of Financing and Treasury, Thomas was appointed as the CFO in March 2010; he further progressed to be a part of the company's management board in August 2011, and his term in office was renewed in May 2013 for another four years. He was a member of the Management Board between August 2011 and May 2016 |
| Gilles Boisseau | Group VP, Electrical Power | <ul style="list-style-type: none"> • Gilles Boisseau holds a Master of Advanced Study in Metallurgy from Université Paris VI. • Possessing 25 years of experience in the Electrical Power industry in France and globally; he has worked with leading companies like Ensival Moret, Schneider and Areva, before joining Mersen. • Gilles was appointed as the company's VP, Electrical Power in April 2015. |
| Christophe Bommier | Group VP, Technology, Research, Innovation and Business Support | <ul style="list-style-type: none"> • Christophe Bommier is a graduate from the Paris School of Physics and Chemistry. • Beginning his career with Pechiney as an R&D engineer, he joined Mersen in 1989. • Christophe moved the ranks swiftly to become the Global VP, High Temperatures in 2010; further he was appointed to the management board of Mersen in August 2011, post which on December 31, 2015 he resigned as a part of the management board. Now he is a part of the management team. |
| Thomas Farkas | Group VP, Strategy and M&A | <ul style="list-style-type: none"> • Thomas Farkas is a graduate in Finance from HEC Paris. • Prior to joining Mersen, has worked with JP Morgan, Mars & Co. and Estin and Co.; primarily focused on strategy consulting. • Associated with Mersen for more than 10 years, in his present role he is responsible for corporate strategy, M&A, innovation and strategic marketing. |
| Jean-Philippe Fournier | Group VP, Operational Excellence | <ul style="list-style-type: none"> • Jean-Philippe Fournier holds a Master of Sciences, Operation Management from Ecole Centrale Paris. • Jean-Philippe possesses more than 25 years of industry experience in industrial operations (automotive, oil& gas, electrical manufacturing), and has worked with leading companies like GE and Schneider prior to joining Mersen. • He joined Mersen in 2013 as the group's VP, Operational Excellence to lead the company's industrial strategy and implement lean management program across more than 60 production sites spread across 20 countries. |
| Eric Guajioty | Group VP, Advanced Material | <ul style="list-style-type: none"> • Eric Guajioty has done his finance & strategy course from Ashridge Business School, along with couple of leadership programs from INSEAD and Harvard Business School Executive Education. • With more than 25 years of experience, Eric has played key roles such as Director, Performance, Transformation and Strategy in The Linde Group, along with holding leading positions with SGL Carbon. • Eric joined Mersen in December 2015 as the company's VP, Advanced Materials. |

| | | |
|-----------------|---------------------------|---|
| Estelle Legrand | Group VP, Human Resources | <ul style="list-style-type: none"> • Estelle Legrand holds specialization in Economics Laws from Montpellier University, post completing a degree in Business Law from Université Paris X Nanterre. • Prior to joining Mersen in September 2009, Estelle has worked with L'Oréal, Thomson Consumer Electronics and Alstom. |
| Didier Muller | Group VP, Asia Region | <ul style="list-style-type: none"> • Possessing a Master's degree in economic science, Didier Muller completed his graduation from the Rouen ESC business school. • In 1981, he started his career in a sales role; he joined Mersen in 1989. • He has headed several key leadership positions in Mersen before joining the management board in August 2011. As on December 31, 2015, Didier has resigned from the management board of Mersen. Currently, he is a part of the management team. |

6. Industry Outlook

Materials and Electric Power segment is characterized by its correlation to the macro-economic environment in its areas of operation. Mersen's key markets in 2015 were North America with 37% contribution to revenue; Europe was at 34%; followed by Asia at 24% and lastly a negligible 5% came in from South America and Africa. Therefore, we have considered macro-economic environment in which the company operates in addition to the geographic exposure.

6.1 Macro-economic overview

In 2015, the world continued to witness significant macro-economic headwinds to the global economic recovery. Worldwide economic growth remained sluggish in 2015, with GDP growth rate of 3.1% compared to IMF estimate of 3.5% at the start of the year. Once the engine of global growth, emerging market economies cracked under the pressure of lower demand from major economies, low commodity prices and shale revolution recording a decline in growth rates. Development in China slowed in 2015 on account of the shift of the economy to more balanced growth in industrial production and services. The global commodity prices weakened on account of uncertainty regarding the growth of the Chinese economy. This slowdown reverberated through the developed world leading to excess capacity and buildup of inventory in many developed nations, including the US and Japan.

Going ahead, the IMF is projecting a slow global GDP growth^{liv}. After revising its forecast for global GDP growth downward in April 2016, the IMF further lowered its forecast for global GDP growth post BREXIT by 0.1pps for 2016 and 2017 to 3.1% and 3.4% respectively. Similar revisions were observed for many advanced economies. The GDP growth forecast for UK was revised lower by 0.2pps for 2016 and 0.9pps for 2017. The GDP growth forecast for US was revised lower by 0.2pps to 2.2% for 2016. The IMF cut Japan's GDP growth forecast by 0.2pps citing the post BREXIT strengthening of Japanese Yen. However, IMF has increased the same by 0.2pps for 2017. The outlook on emerging and developed economies remained broadly unchanged relative to April. China's growth forecast was revised 0.1pps upward to 6.6% for 2016.

| Exhibit 28: IMF GDP growth forecast ^{liv} | | | | |
|--|-------------------|------------|-------------------|-------------|
| | Projection (in %) | | Revision (in pps) | |
| | 2016 | 2017 | 2016 | 2017 |
| US | 2.2 | 2.5 | -0.2 | 0 |
| Canada | 1.4 | 2.1 | -0.1 | 0.2 |
| Japan | 0.3 | 0.1 | -0.2 | 0.2 |
| UK | 1.7 | 1.3 | -0.2 | -0.9 |
| Euro Area | 1.6 | 1.4 | 0.1 | -0.2 |
| Advanced Economies | 1.8 | 1.8 | -0.1 | -0.2 |
| China | 6.6 | 6.2 | 0.1 | 0 |
| Brazil | -3.3 | 0.5 | 0.5 | 0.5 |
| India | 7.4 | 7.4 | -0.1 | -0.1 |
| Emerging and developing economies | 4.1 | 4.6 | 0 | 0 |

The global consumer expenditure is expected to grow by 3% in 2016 compared to 2.5% in 2015 driven by recovery in key emerging markets. Real consumer expenditure is expected to grow by 2-3% and 4.4%, respectively in developed countries and emerging economies in 2016. The labor market is expected to improve in developed economies with unemployment falling to 6.5% of the economically active population in 2016, down from 6.8% in 2015. The average annual household real disposable income in the developed economies is expected to grow by 1.2% YoY in 2016, slightly

below the 1.3% growth in 2015. The increase in consumption expenditure would act as a stimulant for industries leading to higher investment to enhance production. This would in turn create demand for the group offerings.

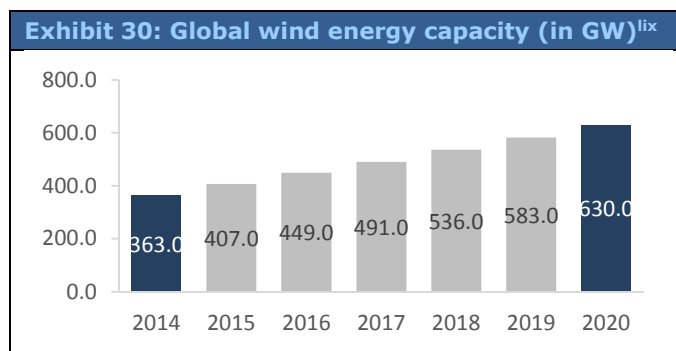
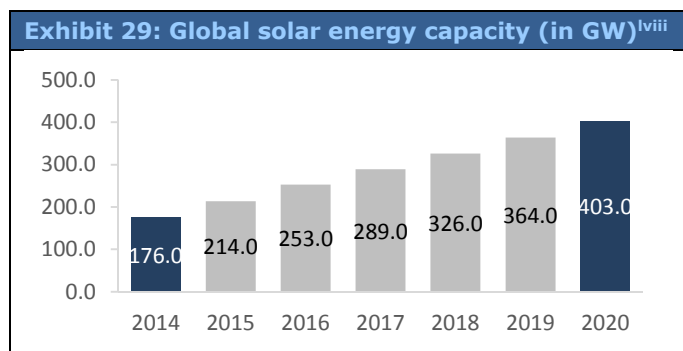
6.2 Industry Environment

According to UNIDO, global manufacturing production rose merely 2.8% in 2015 as developing and emerging industrial economies registered low growth rates. Since the great financial crisis, which negatively impacted manufacturing growth of industrialized economies, emerging industrial economies have maintained relatively higher manufacturing production growth rates. However, this growth rate decelerated in 2015 on account of falling commodity prices and adverse conditions for external finances. The manufacturing value added (MVA) growth rate of developing and emerging industrial economies fell to 4.5% in 2015 from 5.4% YoY. In contrast, industrialized economies registered improvement in their growth performance driven by lower fuel prices and improved fiscal conditions. In 2015, the MVA of industrialized economies grew by 1.5%.

Going forward, manufacturers worldwide are refocusing on growth. The results of the Global Manufacturing Outlook Survey for 2016 conducted by KPMG showed that 74% of surveyed manufacturers reprioritized growth and 56% of the respondents were looking forward to enter new geographic markets. The survey also revealed that 49% of manufacturers are planning to invest more than 6% of their revenue on R&D over the next two years, while 34% have already invested at least 6% of their revenues on R&D.

6.2.1 Energy industry

Globally, the world’s energy infrastructure is undergoing a massive transformation driven by rock bottom oil prices, shutdown of coal plants and flourishing solar industry (further boosted by the landmark Paris climate change deal and increasing interest in nuclear energy). Low oil price scenario is expected to continue in 2016 as well as demand from China declines, Paris climate change agreement gains more traction and an overall economic slowdown. As a result, oil and gas producers have cut down on costs and deferred approximately \$ 400BB in capital expenditure since the crude price collapse^{vi}. However, on the other hand, investments have skyrocketed in the clean energy sector in 2015 being close to \$ 330BB, which is about six times more than in 2004. China, accounting for more than one-third of the investments is becoming an economy to reckon in this space. The COP21 (Paris Agreement) requires a fully decarbonized power system by 2050. This would provide further impetus to clean energy growth, as governments are implementing policies to deliver on commitments. The solar energy boom seen in 2015 is expected to continue with estimates from Bloomberg New Energy Finance for it to account for almost 35% of new power generation infrastructure being built out over the next 25 years^{vii}.



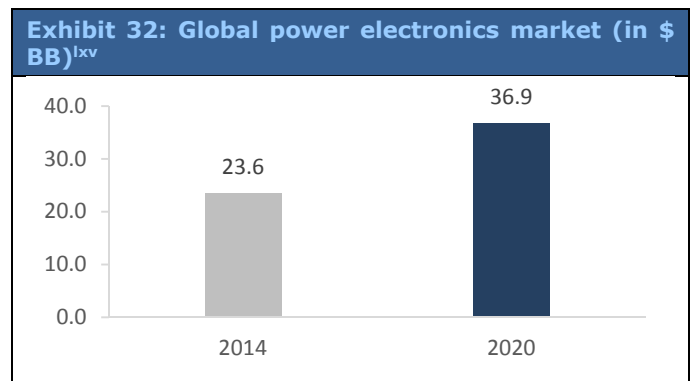
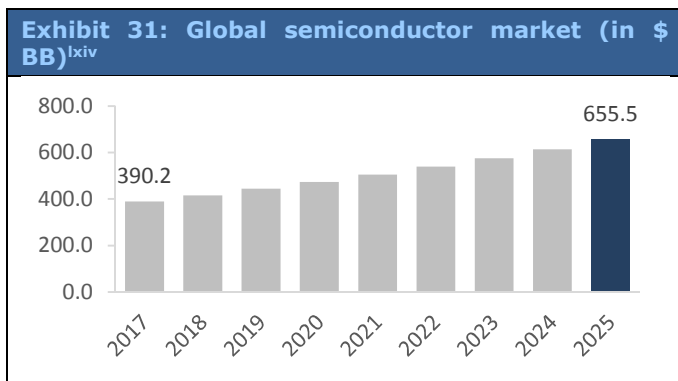
Wind energy, is another fast growing area within the renewable energy sector where the Global Wind Energy Council (GWEC) projects wind power installations to double in the next five years. At the end of 2015, worldwide the total installed wind energy capacity was about 433 GW, with record 63 GW installations in 2015 itself, an increase of 22% over 2014. China held the lead in wind energy installations in 2015^{lx}. China’s heightened interest in the renewable energy sector was clearly visible as it was the single country to with investments more than \$ 100BB into renewable projects during 2015. In addition to China, India is another key wind energy market in the Asian region. Apart from Asia, there other newer markets emerging across Africa, Asia and Latin America and will be major growth markets in the next decade. In Africa, South Africa is expected to lead the market alongside Egypt, Morocco, Ethiopia and Kenya. Brazil will continue to lead in Latin America, followed by Chile and Uruguay, and a potentially very large market is just now opening up in Argentina.

6.2.2 Electronics industry

The semiconductor market has been rapidly evolving to meet the changing industry needs, where the shift is more toward complete system solutions rather than standalone components, as was previously. Presently, the growth in the global semiconductor market is driven by demand from electronics production where the market for smartphones, tablets, digital televisions, wireless communication infrastructure, network hardware, computers and electro-medical devices is growing at a rapid pace. New applications are being continuously developed for semiconductors driven by the need for better performance, reduced power consumption, lower costs and miniaturization.^{ixi} The shift is also toward non-silicon-based semiconductors as more of the new age applications focus on efficiency and power benefits.

World Semiconductor Trade Statistics (WSTS) estimates the global semiconductor market will experience sluggish growth in 2016, and will be at \$ 327.2BB, a 2.4% decline compared to 2015. Although WSTS estimates sales to pick modestly for semiconductor industry in 2017 and 2018 recording a growth of 2.0% and 2.2%, respectively. With semiconductor industry being driven ultimately by other end user markets, below are few areas in which it is likely to record strong performances.

- PricewaterhouseCoopers (PwC) expects the industrial semiconductor market to grow at a CAGR of 9.7% between 2014 and 2019.
- According to IC Insights, the global medical semiconductor sales is expected to grow at a CAGR of 12.3% to reach \$8.2 billion in 2018.^{ixii}
- The Consumer Technology Association (CTA) expects US consumer technology (tablets, LCD TVs, Blu-ray players, smartphones, etc.) retail sales to touch \$ 287BB in 2016.^{ixiii}
- The growth in cloud computing is increasing demand for dumber terminals that rely on cloud-based services and software. The demand for denser, energy efficient and secure data centers and networks, and more intelligent network control in this segment would boost the demand for semiconductors.

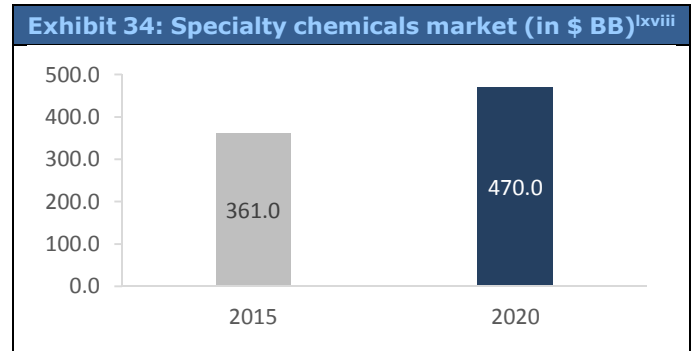
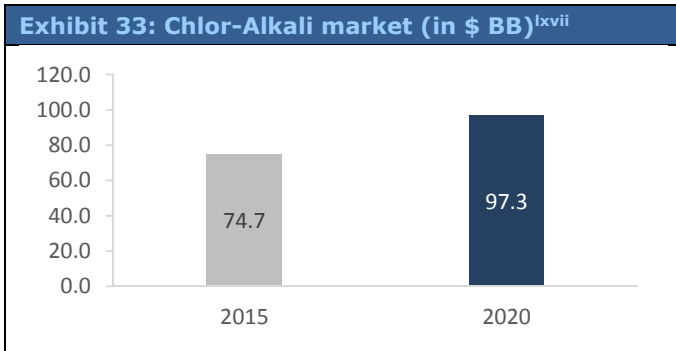


A high growth potential market, power electronics, which is at the core of semiconductor power devices, is estimated to touch \$ 36.9BB by 2020, growing at a CAGR of 7.7% from 2014-2020^{ixvi}. Demand for conversion of energy is increasing manifolds across industries, including IT, energy and transportation, which is ultimately driving the market for power electronics. For example, in transportation sector demand for electric and hybrid vehicles will drive sales, whereas in energy sector scale-up in renewable energy production, combined with smart-grid technology implementation, will lead to strong growth.

6.2.3 Chemicals and pharmaceutical industry

The global chemicals industry has been witnessing a shift in landscape as key user markets shift to emerging nations, representing almost half of the \$ 5TN market worldwide. In the recent period, Europe (which was the key chemical market till sometime back) has been experiencing decelerating growth. The situation is not quite rosy for the emerging market players as well, where the growth has been fluctuating for the past couple of years; although, Asia-Pacific continued to remain the industry leader, dominated by Japanese and Chinese chemical companies.

Worldwide chemical markets to remain challenging in 2016 amid the competitive pressures, with key markets not expected to rebound in the short term. China to see a downtrend in demand for chemicals due to slower construction activity, whereas Japan is expected to record muted growth due to impact of a weak economic environment. The European markets might report little growth benefitting from the low oil price vis-à-vis its US competitors, where production is based on gas. Demand in South American region is likely to be stagnant as well in 2016.



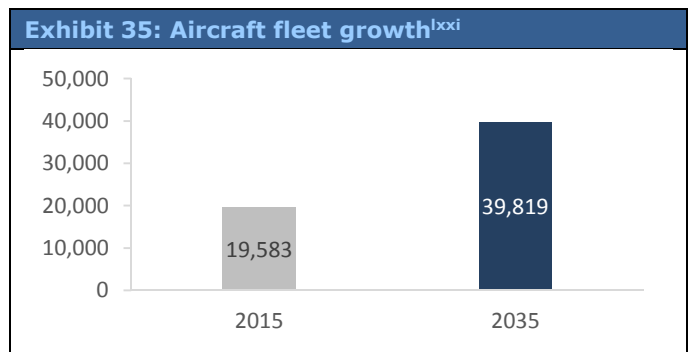
Pharmaceutical industry, on the other hand, is expected to perform relatively well compared to the chemicals market. Estimated to remain largely stable, the pharmaceutical market will be largely driven by customized medicine and increasing use of technology. The global prescription drug market is expected to reach \$ 770BB in 2016 from \$ 750BB in 2015, with a pick-up in growth. The global spending on pharmaceutical products is expected to reach \$ 1.4TN by 2020^{lxix}.

6.2.4 Transportation industry

Global aviation industry recorded modest growth despite a slowdown in economy worldwide driven by higher passenger traffic and benefits arising from lower fuel prices in 2015. According to a study by International Air Transport Association (IATA), the Middle East passenger airlines are forecasted to grow at a CAGR of 6.3% between 2013-17 and Asia-Pacific to grow at a CAGR of 5.7%. Demand from the growing middle class in Asia will help counter balance the lack of public investment by improving the business scenario for private deals. This is expected to drive total airport investments up from \$ 13.2BB to \$ 18.7BB between 2015 and 2025^{lxx}.

Rail transportation grew by about 3% worldwide in 2015. The highest growth in the segment was recorded by Subways and good transportation markets at 5% and 6%, respectively. Driven by record equipment demand from China, growth was recorded in high-speed trains, after a period of slowdown. Going forward, demand for rail transportation is expected to be strong backed by growth in mature markets. For example, in Western Europe, mainly UK and Spain, where public transport is finding higher support, investments are likely to be undertaken in further developing high-speed networks. Increasing demand for public transportation and rising need for energy efficient transport mediums are driving the demand for rolling stock market (estimated to grow at a CAGR of 3.68% to \$ 58.6BB in 2021 from \$ 48.9BB in 2016). Based on technology, turbocharged locomotives to account for the highest share in rolling stock market, whereas in value terms Asia-Oceania to be the largest market in this segment, followed by Europe and North America.

Based on PwC 2015 Transportation report, the investments toward transport infrastructure is estimated to expand at a CAGR of about 5% globally during the period 2014-2025. Further, while Sub-Saharan Africa is projected to grow the fastest at 11%, increased investments to the tune of \$ 900BB per year in 2025 from the present \$ 557BB per year will ensure Asia-Pacific will remain the largest transport infrastructure market. The transportation market is to receive a boost from China’s ambitious “One Belt One Road” initiative, wherein it has shortlisted several high priority international mega infrastructure projects to allow for connectivity between China-Laos, China-Pakistan, China-Thailand and China-Russia. Western Europe is likely to continue its lackluster performance, with lower investments and longer recovery period^{lxxii}.



6.2.5 Process industry

Year 2015 proved to be quite challenging for mining and oil extraction companies due to slowdown in Chinese market. China accounts for as much as 40%-50% of global commodity demand, and the decline in demand led to the plunge in commodity and oil prices pressurizing the bottom-line of miners and energy companies. Oil companies are set to decrease their capital expenditures on account of low oil prices. A study by Wood Mackenzie^{lxxiii} estimates a \$ 125BB decline in capital expenditures in 48 states as a result of sharp retrenchment in drilling and steep decline in rig counts. The industry experts estimate Deepwater capex to decline until 2018^{lxxiv}.

The situation is no different for metals and mining. Miners across metals and minerals firms are expected to focus on core operations, cost cutting, and capital discipline to improve their cost position and remain profitable during this prolonged period of low prices. The steel prices are expected to remain soft in 2016 due to low demand from China. However, the non-ferrous metals industry is expected to grow at a CAGR of 5% between 2016 and 2020 driven by growing demand for Aluminum. In terms of volume, the global copper market is forecasted to reach 38 million metric tons by 2020. The global lead market is expected to reach 15 million metric tons by 2020 and aluminum market is expected to reach 88.97 million metric tonnes by 2020^{lxv}.

6.3 Competition

There are various products offered by the players in the industry. The following table presents an overview of the main competitors of Mersen.

| Exhibit 36: Services offered by various players in the market | | | |
|--|-----------------------------------|---------------------------------|--|
| | Advanced Materials Segment | Electrical Power Segment | |
| Schunk | ✓ | | A multinational manufacturing company with operations spread across 50 countries, Schunk is primarily based out of Germany and the US. The company's key offerings include Lathe Chunks, Tool holding systems, Pneumatic gripping systems, etc. Schunk is one of the main competitors of Mersen in supply of brushes, brush-holders, pantograph strips and isostatic graphite. |
| SGL Carbon | ✓ | | SGL Carbon SE is one of the leading manufacturers of carbon products in the world. The company's offering ranges from carbon and graphite materials to carbon fibers and composites. SGL Carbon has 38 production sites globally, and service networks in over 100 countries. |
| Tokai Carbon | ✓ | | Tokai Carbon Co. Ltd. is a Japanese company engaged in developing and stocking of graphite material for use in nuclear power. The company is one of the main competitors of Mersen in supply of isostatic graphite. |
| Toyo Tanso | ✓ | | Toyo Tanso Co. Ltd. is engaged in manufacturing, processing and selling special graphite products, general carbon products, composite material and others. The company offerings include crucibles for single crystal silicon pulling furnaces, heaters, susceptors for metal organic chemical vapor deposition (MOCVD) devices, continuous casting dies and many more. |
| Aavid | | ✓ | Aavid engineering is one of the largest design engineering and manufacturing corporation focused on thermal management solutions in the world. Aavid provides thermal solutions across all industries. The company is one of the main competitors of Mersen in cooling devices. |
| Dehn | | ✓ | Dehn develops, produces and sells lightning protection and safety products. The company offerings include protective devices for installations in switchgears, meter panels, distribution cabinets, cable ducts, socket outlets, and terminal devices; surge protection products for bus systems and measuring and control technology, telecommunication and telephony, data networks and many more. |
| Eaton/Bussman | | ✓ | Eaton Corporation is a power management company providing energy efficient solutions for management of electrical, hydraulic and mechanical power. The company develops and manufactures critical circuit protection, power management and electrical safety products. The company sells products in over 175 countries. |
| Lytron | | ✓ | Lytron Inc. provides thermal management solutions. The company offerings include old plates, chassis, chillers, cooling systems, and heat exchangers and many more. Lytron is one of the main competitors of Mersen in cooling devices. |
| Methode | | ✓ | Methode Electronics is engaged in designing, manufacturing and marketing of devices employing electrical, radio remote control, electronic, wireless and sensing technologies. Methode is a competitor of Mersen in supplying bus bars. |
| Morgan Advanced Material | ✓ | | Morgan Advanced Material is an engineering company engaged in manufacturing of specialist products using carbon, advanced ceramics and composites. The company's offerings include insulating fibers, electrical carbon transfer systems, seals and bearings, ceramic cores, |

| | | | |
|-----------------|--|---|---|
| | | | piezoelectric sensors, crucibles for metals processing and high technology composites. |
| Phoenix Contact | | ✓ | Phoenix Contacts is a company engaged in manufacturing industrial automation, interconnection, and interface solutions. The company offerings include terminal blocks, relays, connectors, signal conditioners, power supplies, etc. |
| Rogers | | ✓ | Rogers Corporation is engaged in designing, developing, manufacturing and selling of engineered materials and components for applications, including communications infrastructure, automotive, consumer electronics, and aerospace or defense. Rogers is a competitor of Mersen in supplying bus bars. |

Note: The list of services may not be exhaustive. Additional services may be offered by the individual firms.

Comparison with listed peers

| Exhibit 37: Electrical Power segment ^{lxxxvi} | | | | | |
|--|----------------|----------------|------------------------------------|-----------------------------------|-------------|
| Company Name | Market Cap. | EV | Revenue (Trailing 12 Months) | EBITDA (Trailing 12 Months) | EV/EBITDA |
| SGL Carbon SE | 972.8 | 1,593.9 | 1,154.4 | -48.6 | NM |
| Tokai Carbon Co Ltd | 547.7 | 514.1 | 741.0 | 89.4 | 5.8 |
| Toyo Tanso Co Ltd | 241.6 | 175.4 | 269.5 | 35.1 | 5.0 |
| Methode Electronics Inc | 1,159.1 | 984.1 | 718.6 | 116.6 | 8.4 |
| Morgan Advanced Materials PLC | 944.2 | 1,285.0 | 1,227.6 | 154.0 | 8.3 |
| Rogers Corp | 975.3 | 915.3 | 569.0 | 102.8 | 8.9 |
| Sum/Average | 4,840.8 | 5,467.8 | 4,680.0 | 449.3 | 7.3x |

7. Valuation^{lxxvii}

The Fair Market Value for all of the Company shares stands between € 446 MM and € 496 MM as of October 06, 2016. The Fair Market Value for one Company publicly traded share stands between € 21.59 and € 24.03 as of October 06, 2016 using blended valuation (Discounted Cash Flow and EV/EBITDA Multiple).

7.1 Discounted Cash Flow Method

| Valuation | |
|-----------------------|--------------------------|
| WACC | |
| Risk-free rate | 1.72% ^{lxxviii} |
| Beta | 1.07 ^{lxxix} |
| Equity Market premium | 9.15% ^{lxxx} |
| Country Risk Premium | 0.08% ^{lxxxi} |
| Cost of Equity | 9.7% |
| Cost of Debt | 2.7% |
| Terminal Growth Rate | 1.0% |
| WACC (Discount Rate) | 6.93% |

| Year Ending- Dec | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| FCFE (High) | | | | | | | |
| Net cash from operating activities | 54 | 90 | 96 | 95 | 100 | 105 | 108 |
| Capital Expenditure | (33) | (34) | (34) | (34) | (35) | (35) | (36) |
| Net finance expense | (11) | (11) | (10) | (10) | (10) | (9) | (9) |
| Net Debt Addition | (5) | 10 | (5) | (7) | (12) | (15) | (18) |
| Free Cash Flow to Equity | 6 | 55 | 47 | 43 | 43 | 45 | 46 |
| Discount factor | 0.98 | 0.92 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |
| Present Value of FCFE | 6 | 50 | 40 | 35 | 33 | 32 | 30 |
| FCFE (Low) | | | | | | | |
| Net cash from operating activities | 53 | 89 | 95 | 93 | 99 | 103 | 106 |
| Capital Expenditure | (33) | (34) | (34) | (34) | (35) | (35) | (36) |
| Net finance expense | (11) | (11) | (10) | (10) | (10) | (9) | (9) |
| Net Debt Addition | (5) | 10 | (5) | (7) | (12) | (15) | (18) |
| Free Cash Flow to Equity | 4 | 54 | 46 | 42 | 42 | 43 | 43 |
| Discount factor | 0.98 | 0.92 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |
| Present Value of FCFE | 4 | 50 | 39 | 33 | 31 | 30 | 28 |

| Arrowhead Fair Value Bracket | High | Low |
|--|--------------|--------------|
| Terminal Value (TV) | 778 | 737 |
| Present Value of TV | 510 | 484 |
| Present Value of FCF | 225 | 217 |
| Equity Value Bracket | | |
| Shares O/s (000's) | 21 | 21 |
| Fair Share Value Bracket (€) | | |
| | 24.17 | 22.46 |
| Current Market Price (€) | 18.40 | 18.40 |
| Upside/(Downside) | 31.1% | 21.8% |
| Current Market Cap. (€ '000) ^{lxxxii} | 380 | 380 |
| Target Market Cap. Bracket (€ '000) | | |
| | 499 | 463 |

Approach for DCF Valuation

Time Horizon: The Arrowhead fair valuation for Mersen is based on a DCF method. The time period chosen for the valuation is 84 months (2016E-2022E).

Terminal Value: Terminal value is estimated using terminal growth rate of 1.0%.

Prudential nature of valuation: It should be noted that this Arrowhead Fair Value Bracket estimate is a relatively prudential estimate, as it discounts the eventuality of any new products being launched in the market or any significant change in the strategy.

Key variables: The upper and lower bounds in the estimation correspond to the extreme positions taken by the following key variables:

Variable 1 – Revenue from Advanced materials segment^{lxxxiii}

| Exhibit 38: Advanced Material segment | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| In €MM | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Low Bracket | 413.0 | 427.6 | 445.7 | 469.3 | 494.6 | 516.3 | 541.5 |
| High Bracket | 414.9 | 431.2 | 451.3 | 476.4 | 503.5 | 527.3 | 554.7 |

Variable 2 – Revenue from Electrical power segment^{lxxxiv}

| Exhibit 39: Electrical Power segment | | | | | | | |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| In €MM | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Low Bracket | 359.3 | 367.4 | 375.4 | 385.5 | 396.0 | 418.1 | 443.1 |
| High Bracket | 360.4 | 369.6 | 378.8 | 390.2 | 402.1 | 425.9 | 453.0 |

7.2 Relative Valuation Method

The Fair Market Value of one of Mersen's publicly traded regular shares stands between € 20.73 and € 23.89 as on October 06, 2016 according to relative valuation method.

Exhibit 40: Relative Valuation Method

| Company Name | Market Cap (in € MM) | Current Enterprise Value (in € MM) | EBITDA (Trailing 12 Months) (in € MM) | EV/EBITDA (Trailing 12 Months) (in € MM) |
|-------------------------------|----------------------|------------------------------------|---------------------------------------|--|
| SGL Carbon SE | 985 | 1,606 | -49 | NM |
| Tokai Carbon Co Ltd | 545 | 512 | 89 | 5.7x |
| Toyo Tanso Co Ltd | 240 | 173 | 35 | 4.9x |
| Methode Electronics Inc | 1,179 | 1,004 | 117 | 8.6x |
| Morgan Advanced Materials PLC | 969 | 1,310 | 154 | 8.5x |
| Rogers Corp | 962 | 902 | 103 | 8.8x |
| Average | | | | 7.3x |

All figures are in € MM except per share data

| Relative Valuation (All figures are in € MM except per share data) | | |
|--|--------------|--------------|
| | High | Low |
| Mersen EBITDA FY2020 (€ MM) | 139.5 | 127.0 |
| PEER EV/ EBITDA | 7.3 | 7.3 |
| Enterprise Value (EV) FY2020 (€ MM) | 1,020.0 | 928.7 |
| PV of FY2020 EV | 730 | 664 |
| Adjustment | | |
| Less: Debt (Net cash) | 236.6 | 236.6 |
| Implied Equity Value | 493 | 428 |
| Shares o/s ('000s) | 20.6 | 20.6 |
| Intrinsic Value per share | 23.89 | 20.73 |
| Current market Price | 18.40 | 18.40 |
| Upside / (Downside) | 29.8% | 12.6% |

7.3 Blended Valuation

The Fair Market Value of one of Mersen's publicly traded regular shares stands between € 21.59 and € 24.03 as on October 06, 2016 according to blended valuation method.

| Exhibit 41: Blended Valuation | | |
|-------------------------------|--------------|--------------|
| | High | Low |
| DCF | 24.17 | 22.46 |
| Relative Valuation | 23.89 | 20.73 |
| Blended Value | 24.03 | 21.59 |

Important information on Arrowhead methodology

The principles of the valuation methodology employed by Arrowhead BID are variable to a certain extent depending on the subsectors in which the research is conducted, but all Arrowhead valuation research possesses an underlying set of common principles and a generally common quantitative process.

With Arrowhead Commercial and Technical Due Diligence, Arrowhead extensively researches the fundamentals, assets and liabilities of a Company, and builds solid estimates for revenue and expenditure over a coherently determined forecast period.

Elements of past performance, such as price/earnings ratios, indicated as applicable, are present mainly for reference purposes. Still, elements of real-world past performance enter the valuation through their impact on the commercial and technical due diligence.

Elements of comparison, such as multiple analyses may be to some limited extent integrated in the valuation on a project-by-project or asset-by-asset basis. In the case of this Mersen report, we have integrated relative valuation in the valuation along with DCF.

Arrowhead BID Fair Market Value Bracket

The Arrowhead Fair Market Value is given as a bracket. This is based on quantitative key variable analysis, such as key price analysis for revenue and cost drivers or analysis and discounts on revenue estimates for projects, especially relevant to those projects estimated to provide revenue near the end of the chosen forecast period. Low and high estimates for key variables are produced as a tool for valuation. The high-bracket DCF valuation is derived from the high-bracket key variables, while the low-bracket DCF valuation is based on the low-bracket key variables.

In principle, an investor who is comfortable with the high-brackets of our key variable analysis will align with the high-bracket in the Arrowhead Fair Value Bracket, and likewise in terms of low estimates. The investor will also take into account the Company intangibles – as presented in the first few pages of this document in the analysis on strengths and weaknesses and other essential Company information. These intangibles serve as supplementary decision factors for adding or subtracting a premium in the investor's own analysis.

The bracket should be understood as a tool provided by Arrowhead BID for the reader of this report and the reader should not solely rely on this information to make his decision on any particular security. The reader must also understand that on one hand, global capital markets contain inefficiencies, especially in terms of information, and that on the other hand, corporations and their commercial and technical positions evolve rapidly: this present edition of the Arrowhead valuation is for a short to medium-term alignment analysis (one to twelve months). The reader should refer to important disclosures on page 33 of this report.

8. Appendix

8.1 Mersen's Financial Summary

| Exhibit 42: Financial Summary | | <i>Low Bracket Estimates</i> | | | | | |
|--------------------------------------|--------------|------------------------------|--------------|--------------|--------------|--------------|--------------|
| <i>Year Ending Dec</i> | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |
| Revenue (€ MM) | 772 | 795 | 821 | 855 | 891 | 934 | 985 |
| Operating Profit (€ MM) | 26 | 63 | 75 | 85 | 95 | 103 | 109 |
| Net Income (€ MM) | (3) | 27 | 35 | 42 | 50 | 56 | 60 |
| EPS | (0.15) | 1.27 | 1.62 | 1.94 | 2.30 | 2.58 | 2.81 |
| Growth rates (%) | | | | | | | |
| Revenue | 0.0% | 2.9% | 3.3% | 4.1% | 4.2% | 4.9% | 5.4% |
| Operating Profit | (25.9%) | 141.1% | 18.8% | 12.9% | 12.1% | 8.3% | 5.7% |
| Margins (%) | | | | | | | |
| Gross Margins (%) | 30.3% | 30.5% | 31.0% | 31.3% | 31.5% | 31.5% | 31.5% |
| Operating Profit Margin | 7.5% | 8.7% | 9.7% | 10.4% | 11.1% | 11.4% | 11.4% |
| Net Profit Margin | (0.4%) | 3.4% | 4.3% | 4.9% | 5.6% | 5.9% | 6.1% |
| Ratios | | | | | | | |
| ROA | (0.3%) | 2.7% | 3.4% | 4.1% | 4.8% | 5.4% | 5.8% |
| ROE | (0.7%) | 5.7% | 7.2% | 8.4% | 9.6% | 10.4% | 10.9% |
| Debt/Equity | 0.6x | 0.6x | 0.6x | 0.5x | 0.5x | 0.4x | 0.4x |
| Interest Coverage | 2.4x | 6.0x | 7.2x | 8.2x | 9.7x | 11.2x | 12.7x |

| Exhibit 43: Financial Summary | | <i>High Bracket Estimates</i> | | | | | |
|--------------------------------------|--------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|
| <i>Year Ending Dec</i> | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |
| Revenue (€ MM) | 775 | 801 | 830 | 867 | 906 | 953 | 1,008 |
| Operating Profit (€ MM) | 29 | 65 | 77 | 87 | 98 | 106 | 113 |
| Net Income (€ MM) | (2) | 28 | 36 | 43 | 51 | 58 | 63 |
| EPS | (0.07) | 1.31 | 1.68 | 2.00 | 2.38 | 2.68 | 2.92 |
| Growth rates (%) | | | | | | | |
| Revenue | 0.4% | 3.3% | 3.7% | 4.4% | 4.5% | 5.3% | 5.7% |
| Operating Profit | (18.7%) | 124.4% | 19.0% | 13.1% | 12.4% | 8.6% | 6.1% |
| Margins (%) | | | | | | | |
| Gross Margins (%) | 30.5% | 31.0% | 31.5% | 31.8% | 32.0% | 32.0% | 32.0% |
| Operating Profit Margin | 7.8% | 8.8% | 9.8% | 10.5% | 11.2% | 11.5% | 11.5% |
| Net Profit Margin | (0.2%) | 3.5% | 4.3% | 5.0% | 5.7% | 6.0% | 6.2% |
| Ratios | | | | | | | |
| ROA | (0.2%) | 2.8% | 3.5% | 4.2% | 5.0% | 5.5% | 6.0% |
| ROE | (0.3%) | 5.9% | 7.4% | 8.6% | 9.9% | 10.7% | 11.2% |
| Debt/Equity | 0.6x | 0.6x | 0.6x | 0.5x | 0.5x | 0.4x | 0.4x |
| Interest Coverage | 2.7x | 6.1x | 7.4x | 8.4x | 10.0x | 11.5x | 13.1x |

8.2 Mersen's Balance Sheet Forecast

| Exhibit 44: Consolidated Balance Sheet | | All figures in € MM, unless stated differently | | <i>Low Bracket estimates</i> | | | |
|---|--------------|---|--------------|----------------------------------|--------------|--------------|--------------|
| <i>Year Ending-Dec</i> | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |
| Total current assets | 356 | 363 | 370 | 383 | 393 | 402 | 407 |
| Total non-current assets | 661 | 652 | 646 | 641 | 638 | 636 | 636 |
| TOTAL ASSETS | 1,017 | 1,015 | 1,016 | 1,024 | 1,031 | 1,038 | 1,043 |
| Total current liabilities | 266 | 220 | 225 | 222 | 222 | 217 | 219 |
| Total non-current liabilities | 278 | 315 | 298 | 295 | 285 | 277 | 258 |
| TOTAL LIABILITIES | 544 | 534 | 524 | 518 | 507 | 493 | 477 |
| Total shareholder's equity | 473 | 481 | 492 | 506 | 524 | 545 | 566 |
| TOTAL LIABILITIES & EQUITY | 1,017 | 1,015 | 1,016 | 1,024 | 1,031 | 1,038 | 1,043 |

| Exhibit 45: Consolidated Balance Sheet | | All figures in € MM, unless stated differently | | <i>High Bracket estimates</i> | | | |
|---|--------------|---|--------------|-----------------------------------|--------------|--------------|--------------|
| <i>Year Ending-Dec</i> | 2016E | 2017E | 2018E | 2019E | 2020E | 2021E | 2022E |
| Total current assets | 357 | 364 | 372 | 386 | 397 | 406 | 412 |
| Total non-current assets | 661 | 652 | 646 | 641 | 638 | 636 | 636 |
| TOTAL ASSETS | 1,018 | 1,016 | 1,018 | 1,026 | 1,035 | 1,043 | 1,049 |
| Total current liabilities | 266 | 220 | 225 | 222 | 222 | 217 | 219 |
| Total non-current liabilities | 278 | 315 | 298 | 295 | 285 | 277 | 258 |
| TOTAL LIABILITIES | 544 | 534 | 524 | 518 | 507 | 493 | 477 |
| Total shareholder's equity | 474 | 482 | 494 | 509 | 528 | 549 | 572 |
| TOTAL LIABILITIES & EQUITY | 1,018 | 1,016 | 1,018 | 1,026 | 1,035 | 1,043 | 1,049 |

9. Analyst Certifications

I, Parvati Rai, certify that all of the views expressed in this research report accurately reflect my personal views about the subject security and the subject Company, based on the collection and analysis of public information and public Company disclosures.

I, Himanshu Broota, certify that all of the views expressed in this research report accurately reflect my personal views about the subject security and the subject Company, based on the collection and analysis of public information and public Company disclosures.

Important disclosures

Arrowhead Business and Investment Decisions, LLC received fees in 2015 and 2016 and will receive fees in 2016 from Mersen SA for researching and drafting this report and for a series of other services to Mersen SA, including distribution of this report and investor relations services. Neither Arrowhead BID nor any of its principals or employees owns any long or short positions in Mersen. Arrowhead BID's principals have a mandate for investment banking services from Mersen and expect to receive compensation for investment banking activities for Mersen in 2016.

Aside from certain reports published on a periodic basis, the large majority of reports are published by Arrowhead BID at irregular intervals as appropriate in the analyst's judgment.

Any opinions expressed in this report are statements of Arrowhead BID's judgment to this date and are subject to change without notice.

This report was prepared for general circulation and does not provide investment recommendations specific to individual investors. As such, any of the financial or other money-management instruments linked to the Company and Company valuation described in this report, hereafter referred to as "the securities", may not be suitable for all investors.

Investors must make their own investment decisions based upon their specific investment objectives and financial situation utilizing their own financial advisors as they deem necessary.

Investors are advised to gather and consult multiple sources of information while preparing their investment decisions. Recipients of this report are strongly advised to read the Information on Arrowhead Methodology section of this report to understand if and how the Arrowhead Due Diligence and Arrowhead Fair Value Bracket integrate alongside the rest of their stream of information and within their decision making process.

Past performance of securities described directly or indirectly in this report should not be taken as an indication or guarantee of future results. The price, value of, and income from any of the financial securities described in this report may rise as well as fall and may be affected by simple and complex changes in economic, financial and political factors.

Should a security described in this report be denominated in a currency other than the investor's home currency, a change in exchange rates may adversely affect the price of, value of, or income derived from the security.

This report is published solely for information purposes, and is not to be considered in any case as an offer to buy any security, in any state.

Other than disclosures relating to Arrowhead Business and Investment Decisions, LLC, the information herein is based on sources Arrowhead BID believes to be reliable but is not guaranteed by Arrowhead BID and does not purport to be a complete statement or summary of the available data.

Arrowhead Business and Investment Decisions, LLC is not responsible for any loss, financial or other, directly or indirectly linked to any price movement or absence of price movement of the securities described in this report.

10. Notes and References

- i 52 weeks to October 05, 2016. Source: Bloomberg, October 06, 2016
- ii 3 months to October 05, 2016. Source: Bloomberg, October 06, 2016
- iii Source: Company H1 2016 Presentation
- iv Source: Company FY 2015 Reference report
- v Arrowhead Business and Investment Decisions Fair Value Bracket – AFVBTM. See information on valuation on pages 24-27 of this report and important disclosures on page 32 of this report
- vi Source: Company FY 2015 Reference report
- vii Source: Company FY 2015 Reference report
- viii Source: Company FY 2015 Reference report
- ix Source: Company H1 2016 Financial report
- x Source: Company H1 2016 Financial report
- xi Source: Arrowhead BID Research
- xii Source: <http://www.imf.org/external/pubs/ft/weo/2015/update/01/>
- xiii Source: <http://www.unido.org/news/press/global-manufacturing-increased-modestly-in-2015-as-growth-slowed-in-developing-and-emerging-industrial-economies-unido-report.html>
- xiv Source: https://info.kpmg.us/content/dam/kpmg-im/trends/2016GMO_Infographic.pdf
- xv Source: Company FY 2015 Reference report
- xvi Source: Company FY 2015 Reference report
- xvii Source: Company FY 2015 Annual report
- xviii Source: Company website
- xix Source: Company H1 2016 Presentation
- xx Source: Company website
- xxi Source: Company management
- xxii Source: Company H1 2016 Financial report
- xxiii Source: Company website
- xxiv Source: Company management
- xxv Source: Company H1 2016 Financial report
- xxvi Source: Company website
- xxvii Source: Company H1 2016 Financial report
- xxviii Source: Company management
- xxix Source: Company Factsheet 2015
- xxx Source: Company FY 2015 Financial report
- xxxi Source: Company Factsheet
- xxxii Source: Company Factsheet 2015

- xxxiii Source: Company Factsheet 2015
- xxxiv Source: Company FY 2015 Financial report
- xxxv Source: Company Factsheet 2015
- xxxvi Source: Company Factsheet 2015
- xxxvii Source: Company FY 2015 Financial report
- xxxviii Source: Company Factsheet 2015
- xxxix Source: Company Factsheet 2015
- xl Source: Company FY 2015 Financial report
- xli Source: Company Factsheet 2015
- xlII Source: Company Factsheet 2015
- xlIII Source: Company FY 2015 Financial report
- xliv Source: Company Factsheet 2015
- xlv Source: Company H1 2016 Financial report
- xlvi Source: Company H1 2016 Financial report
- xlVII Source: Arrowhead BID Research
- xlVIII Source: Arrowhead BID Research
- xlIX Source: Company reports, Bloomberg
- l Source: Company website, Bloomberg
- li Source: Arrowhead BID Research
- lii Source: Company website and financial reports
- liii Source: Company website, financial reports and LinkedIn
- liv Source: <http://www.imf.org/en/News/Articles/2016/07/18/18/11/NA07192016-IMF-Cuts-Global-Growth-Forecasts-on-Brexit-Warns-of-Risks-to-Outlook>
- lv Source: <http://www.imf.org/en/News/Articles/2016/07/18/18/11/NA07192016-IMF-Cuts-Global-Growth-Forecasts-on-Brexit-Warns-of-Risks-to-Outlook>
- lvi Source: <http://www.ft.com/cms/s/0/50bbaec2-ba0e-11e5-bf7e-8a339b6f2164.html>
- lvii Source: <http://fortune.com/2015/12/30/5-trends-energy-2016/>
- lviii Source: <http://www.iea.org/Textbase/npsum/MTrenew2014sum.pdf>
- lix Source: <http://www.iea.org/Textbase/npsum/MTrenew2014sum.pdf>
- lx Source: <http://www.gwec.net/wind-power-leads-all-new-power-generation/>
- lxi Source: <http://www.nasdaq.com/article/semiconductor-industry-outlook-may-2016-cm621071>
- lxii Source: <http://www.nasdaq.com/article/semiconductor-industry-outlook-may-2016-cm621071>
- lxiii Source: <http://www.nasdaq.com/article/semiconductor-industry-outlook-may-2016-cm621071>
- lxiv Source: <http://www.semi.org/en/node/57416>
- lxv Source: <http://www.marketsandmarkets.com/PressReleases/power-electronics.asp>
- lxvi Source: <http://www.marketsandmarkets.com/PressReleases/power-electronics.asp>
- lxvii Source: <http://www.marketsandmarkets.com/PressReleases/chlor-alkali.asp>

-
- lxviii Source: <http://www.marketsandmarkets.com/PressReleases/specialty-chemicals-market.asp>
 - lxix Source: <http://www.statista.com/statistics/280572/medicine-spending-worldwide/>
 - lxx Source: <https://www.pwc.com/gx/en/transportation-logistics/pdf/assessing-global-transport-infrastructure-market.pdf>
 - lxxi Source: <http://www.airbus.com/company/market/global-market-forecast-2016-2035/>
 - lxxii Source: <http://www.khmertimeskh.com/news/28194/one-belt--one-road--one-corridor/>
 - lxxiii Source: <http://www.cnbc.com/2016/06/15/global-oil-industrys-retrenchment-tops-a-staggering-1-trillion.html>
 - lxxiv Source: <http://www.ogfj.com/articles/print/volume-13/issue-6/features/low-prices-curtail-deepwater-capex.html>
 - lxxv Source: <http://www.businesswire.com/news/home/20160804005038/en/Growing-Demand-Aluminum-Driving-Global-Non-ferrous-Metals>
 - lxxvi Source: Bloomberg, retrieved on October 06, 2016
 - lxxvii Source: Arrowhead BID Estimate
 - lxxviii Source: Bloomberg
 - lxxix Source: Bloomberg
 - lxxx Source: Bloomberg
 - lxxxi Source: Bloomberg
 - lxxxii Source: Bloomberg
 - lxxxiii Source: Arrowhead BID Estimate
 - lxxxiv Source: Arrowhead BID Estimate