Successful transformation of SGL Carbon.
Carbon and graphite for Megatrends

- Lighting
- Steel, Aluminum
- Mobility, Energy, Digitization

1878

SGL Carbon | Investor Relations Presentation
The transformation of SGL Group.
We have implemented the announced strategy

✓ Disposal of the PP business to concentrate our resources on the growth areas CFM and GMS
✓ Focus on CFM and GMS improves the balance between markets and industries, and thus reduces volatility in our business
New SGL Carbon.
Specialized on carbon- and graphite-based solutions

34 Sites
~4,800 Employees
80+ Countries

Mobility
Energy
Digitization

Industrial Applications
Chemical
Textile Fibers

€860m Revenue

1 Status 2017
Commanding entire value chain in carbon and graphite.
Advantages in cost, quality and differentiation

Control over the entire value chain enables product customization to customer requirements.

Customers receive tailor made solutions from every step of the value chain.

Forward integration in finishing technologies (GMS) and CFRP-components (CFM) including application know how are essential for differentiation.
Business Unit
Composites- Fibers & Materials (CFM)
CFM expected to grow …

### Market Segment

<table>
<thead>
<tr>
<th></th>
<th>Automotive</th>
<th>Aerospace</th>
<th>Wind Energy</th>
<th>Industrial Applications</th>
<th>Textile Fibers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales 2017</strong></td>
<td>30%¹</td>
<td>6%</td>
<td>12%²</td>
<td>23%</td>
<td>29%</td>
</tr>
<tr>
<td><strong>Sales 2018</strong></td>
<td>51%</td>
<td>6%</td>
<td>2%</td>
<td>17%</td>
<td>24%</td>
</tr>
<tr>
<td>(pro forma)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CFM midterm growth expectation**

¹ Automotive sales 2017 proportion before effect from full consolidation of joint ventures with Benteler and BMW
² Wind energy sales including full consolidation of SGL Kümpers, sold end of 2017
CO\textsubscript{2} targets drive lightweight construction in the automotive industry.

**OEM fleet target development (EU)\textsuperscript{1}**
(in g CO\textsubscript{2}/km)

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Expected targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>120</td>
<td>-20%</td>
</tr>
<tr>
<td>2021</td>
<td>100</td>
<td>-37.5%</td>
</tr>
<tr>
<td>2030</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

New target EU 2018

**Relative component weight\textsuperscript{2}**
(in %)

- Steel: ≤37.5%
- Aluminum: -40%
- CFRP quasi-isotropic: -60%
- CFRP unidirectional: -75%

\textsuperscript{1}status as of 17/12/2018
\textsuperscript{2}with same functionality

Source: ICCT, SGL estimates
By 2030 most cars expected to have fiber-reinforced polymer (FRP) parts and thermoplastic components.

Source: RedBull F1, Daimler AG, Audi AG, BMW Group
SGL Carbon is already well-positioned in the automotive industry.

Existing projects in different automotive vehicle segments

- Rear bench for performance sports cars
- Structural components for electric vehicles (EV)
- Leaf springs for light commercial vehicles and passenger car suspension systems
- Hybrid designs for large series passenger vehicles
- Friction materials for modern gear boxes

Source: Audi AG, BMW AG, Volkswagen AG, Volvo CC, SGL Carbon
The high production volume of narrow body commercial aircrafts requires serial production competency.

### Airbus monthly production volume forecast

<table>
<thead>
<tr>
<th>Airplane</th>
<th>2016</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>A350 (wide body)</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>A320 (narrow body)</td>
<td>46</td>
<td>60+</td>
</tr>
</tbody>
</table>

### Boeing monthly production volume forecast

<table>
<thead>
<tr>
<th>Airplane</th>
<th>2016</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>B787 (wide body)</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>B737 (narrow body)</td>
<td>42</td>
<td>58</td>
</tr>
</tbody>
</table>

Remark: "Narrow body" typically describes single aisle aircrafts, "wide body" aircrafts with double aisles.

Source: Airbus, Boeing
Business Unit
Graphite Materials & Systems (GMS)
**GMS – the hidden champion.** Favorably positioned in high growth markets to contribute to SGL Carbon’s above 8.5% CAGR

<table>
<thead>
<tr>
<th>Market Segment</th>
<th>Battery &amp; other Energy</th>
<th>Solar</th>
<th>LED</th>
<th>Semiconductor</th>
<th>Automotive &amp; Transport</th>
<th>Chemical</th>
<th>Industrial Applications</th>
</tr>
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<tr>
<td>Sales</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>19%</td>
<td>10%</td>
<td>4%</td>
<td>5%</td>
<td>7%</td>
<td>24%</td>
<td>31%</td>
</tr>
<tr>
<td>2016</td>
<td>16%</td>
<td>11%</td>
<td>2%</td>
<td>5%</td>
<td>7%</td>
<td>27%</td>
<td>32%</td>
</tr>
<tr>
<td>Mid-term targeted CAGR in %</td>
<td>High single digit</td>
<td>Mid single digit</td>
<td>Double digit</td>
<td>Double digit</td>
<td>High single digit</td>
<td>Mid single digit</td>
<td>GDP-like</td>
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GMS – the hidden champion. Favorably positioned in high growth markets to contribute to SGL Carbon’s above 8.5% CAGR

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Why graphite?
Specialty graphite materials required where other materials fail

Properties can be tailored to specific requirements

- Thermal shock resistance
- Purity
- Electrical and thermal conductivity
- Mechanical strength
- Resistance to high temperatures
- Corrosion resistance

Main properties of graphite

Graphite is present in nearly every industrial application

SGL provides its graphite based solutions to more than 35 industries
Best solutions for our customers. We command the broadest graphite competence in the industry

... in the Solar, Semiconductor and LED Industry

- Meander heater for mono-silicon units
- SiC\(^1\) coated wafer carrier for LED\(^2\)/semi-conductor production
- C/C\(^3\) carrier frame for solar wafers

... in the Battery and Energy Storage Industry

- Anode material for lithium-ion batteries
- Redox flow battery electrode consisting of battery felt and bipolar plate

... in the Chemical Industry

- Systems & equipment (e.g. syntheses, heat exchangers)
- Flexible graphite foil
- Reinforced graphite sealing sheet

\(^1\) Silicon Carbide; \(^2\) Light-Emitting Diodes; \(^3\) Carbon/carbon
Graphite solutions are mainly required along the entire silicon-based semiconductor value chain.

- **Metallurgical silicon**
  - Heaters
  - Heat shields
  - Reactor internals
  - Small electrodes

- **Polysilicon**
  - Heaters
  - Crucibles
  - Cones
  - Insulation

- **Si crystal growing**
  - Heaters
  - Crucibles
  - Cones
  - Insulation

- **Epitaxy wafer**
  - Susceptors
  - Liners

- **Wafer processing**
  - Arc slits
  - Etch electrodes

- **(Chip) Packaging**

**Graphite products**
- Heaters
- Heat shields
- Reactor internals
- Small electrodes
- Heaters
- Crucibles
- Cones
- Insulation
- Susceptors
- Liners
- Arc slits
- Etch electrodes

**Materials**

| Extruded | SiC coating | CFRC¹, felts | ISO | Extruded | CFRC, felts | GMS business |

¹Carbon fiber reinforced carbon
Financial targets
ROCE. Remains key management principle for managing the business

In 2014, we, the new Board of Management, introduced ROCE as new key management principle, replacing ROS.

As a result we implemented the ROCE target in all senior management layers, aligning their incentive system with ours.

We started reporting ROCE on Group and BU levels on a quarterly basis, so that our progress can be tracked.

While we are not yet there, we have made substantial progress toward our targeted ROCE:\n
\[ \text{ROCE} \text{ development} \]

-2014: -3.8%
-2015: 1.7%
-2016: 2.5%
-2017: 4.6%
-9M 2018: 6.1%

\[ 1 \text{ ROCE defined as } \frac{\text{EBIT}}{\text{Capital employed}} \]
SGL Carbon. New five-year plan to capture additional mid-term growth opportunities. Capex spending mainly allocated to GMS.

**GMS capex projects:**

- **Battery & other Energy (GAM):**
  - Capacity expansion at low cost site Poland
  - Favorable market position esp. with Panasonic
  - Modular expansion strategy

- **LED:**
  - Capacity expansion in SiC-coating
  - Move to Asia to be near our customers and to mitigate potential risks from trade barriers
  - Highly innovative product

- **Automotive & Transport:**
  - Expansion at our site in Bonn (Germany)
  - Parts for brake assistant and cooling water pumps

**New growth program with €80m additional capex to be spent over three years (2019 – 2021)**

**CFM capex projects:**

- **Automotive:**
  - Capacity expansion for new leaf spring customer

- **Textile Fibers:**
  - Conversion of textile fiber line to precursor in Portugal

---

1 Graphite anode material; 2 Silicon carbide
Growth & profitability targets. We adjusted our mid-term targets in December 2018 to reflect new growth opportunities.

Driver for ROCE improvement: Top line growth, higher margin products, efficiency improvements.

Note: EBIT always refers to EBIT before non-recurring items.

Adding 2022 targets:
- Net profit margin ~ 6–7%
- Free cash flow margin ~ 5%

Business Unit 2022 targets:
- ROS<sub>EBIT</sub> ≥ 12%

Impact of new growth program on previous sales and EBIT targets for 2022:
- Higher sales and unchanged margin targets add low double digit million € amount to our EBIT target for 2022.

Over the entire guidance period:
- Equity ratio ≥ 30%
- Leverage ratio ≤ 2.5
- Gearing (except 2019-2020) ≤ 0.5
The new SGL Carbon.
In a nutshell:

• Material competence based on carbon\(^1\) and high temperature processes

• Commands entire carbon fiber and graphite value chain

• High tech carbon fiber & graphite based engineered solutions

• Diversified customer base – servicing more than 35 industries

• Sales growth fueled by the megatrends energy, mobility and digitization

• Targeting earnings growth more than proportionate to sales growth

\(^1\) Carbon refers to the chemical element – graphite and carbon fiber are forms of carbon
Thank you for your attention!
Backup
Outlook 2018
Reporting segment outlook 2018.

CFM

Composites – Fibers & Materials (CFM)

• Substantial increase in sales by approx. 25% expected
  – Mainly driven by acquisition of former joint ventures with BMW and Benteler
  – Accordingly sales in market segment Automotive expected to more than double, while sales with the Wind Energy industry should decline by more than half due to the sale of SGL Kümpers and lower customer demand
  – Sales to market segment Aerospace expected to increase slightly
  – Sales to market segments Industrial Applications and Textile Fibers expected on prior year level
  – Like-for-like (i.e. excluding currency and M&A effects) mid-to-high single digit growth rate expected
  – No material impact expected from initial IFRS 15 adoption

• Recurring EBIT expected to remain at previous year level
  – As cautioned in our H1 report due to weaker than previously anticipated operating performance in the market segments Wind Energy, Textile Fibers and Industrial Applications
  – Positive impact from full consolidation of former joint venture with BMW and higher volumes
  – Partially offset by negative currency effects and higher development expenses
  – No material impact from initial IFRS 15 adoption
  – Highest quarterly earnings of this fiscal year achieved in the first quarter 2018 due to the high capacity utilization as well as high shipments for particular projects
Reporting segment outlook 2018.
GMS and Corporate

Graphite Materials & Systems (GMS)
- Slight increase in sales expected – corresponding now to currency adjusted growth of approx. 10%
  - Driven by market segments LED, Automotive & Transport as well as Semiconductor
  - Industrial Applications and Chemicals expected to show slight increases in sales
  - Sales in the market segment Solar limited as we prioritize sales to market segments LED and Semiconductor
  - Strong volume increase in market segment Battery & other Energy. In combination with successful pricing initiatives, we expect an increase in sales despite negative currency effects
  - Low double digit million Euro positive impact from the initial adoption of IFRS 15
- Recurring EBIT improvement expected to substantially outpace higher expected sales growth
  - High single digit to low double digit million Euro positive impact from the initial adoption of IFRS 15
- Group ROCEEBIT target of 9-10% should again be exceeded in this business unit and improvement over prior year expected

Corporate
- Slightly higher expenses due to
  - General cost increases (esp. wage increases)
  - Higher consulting fees (OMS, new data protection directive)
  - Partly offset by one-off income from a land sale in Canada recorded in Q1/2018
Group outlook 2018.

- Full year **Group sales** expected to increase by approx. 15%, corresponding now to a like-for-like (i.e. excluding currency and M&A effects) **high single digit growth** rate. In addition, we anticipate a low double digit million € positive impact on Group sales from the initial adoption of IFRS 15.

- **Group recurring EBIT** expected to increase at a slightly faster pace than the now higher expected sales due to:
  - Volume increases and successful implementation of pricing initiatives
  - Additional earnings contribution from the full consolidation of the former joint venture with BMW
  - Cost savings
  - Partially offset by adverse effects from personnel and raw material cost, and foreign currency developments
  - In addition, we anticipate a high single to low double digit million € positive impact from the initial adoption of IFRS 15.

- **Net result – continued operations** expected to improve to a mid double digit € million amount due to:
  - Improved operating profit (including higher IFRS impacts)
  - Lower interest expenses due to early redemption of corporate bond in October 2017 and repayment of convertible bond at maturity in January 2018 – partially offset by higher interest expenses relating to full consolidation of net debt of former JV with BMW
  - Impact from positive non-recurring effects in Q1/2018
Group outlook 2018.

- **Capex** to increase compared to prior year to approx. €80 million i.e. €15 million above level of depreciation
  - Level of depreciation increases to €65 million (before PPA) due to full consolidation of former joint ventures

- **Total free cash flow** expected to reach a “black zero”
  - **Free cash flow – continued operations** expected to improve significantly but remain negative in mid double digit range mainly due to higher capex level and cash outflow for the acquisition of the Wackersdorf site in the former joint venture with BMW
  - **Free cash flow – discontinued operations** expected to reach positive mid double digit range due to payment of final instalments of purchase price for disposal of GE and CFL/CE

- **Net debt** at end 2018 to substantially increase due to the full consolidation of former joint venture with BMW

- **Balance sheet targets** expected to continue to be met - **equity ratio** at or above 30%, **gearing** at or below 0.5 and **leverage ratio** at or below 2.5
Latest financials 9M/2018
Composites – Fibers & Materials.

- **Sales revenue** increased by 28% (currency adjusted by 30%)
  - Primarily due to structural effects in the market segment **Automotive** resulting from the initial consolidation of the former at-equity accounted JV Benteler SGL as well as the full consolidation of the former partially consolidated JV SGL ACF
  - After the sale of our share in SGL Kümpers, the market segment **Wind Energy** now only includes lower sales of carbon fibers to the wind energy industry
  - Higher sales in the market segments **Automotive** and **Aerospace**
  - Sales in the market segments **Textile Fibers** and **Industrial Applications** on prior year level

- **Recurring EBIT** increased by 22%
  - Highest earnings growth in the market segment **Automotive**, particularly due to the full consolidation of former SGL ACF
  - Partially offset by significantly lower earnings contribution from **Wind** and **Industrial Applications**
  - Earnings in market segments **Aerospace** and **Textile Fibers** on prior year level

### Financial Summary

<table>
<thead>
<tr>
<th></th>
<th>9M/2018</th>
<th>9M/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales revenue</strong></td>
<td>323.9</td>
<td>253.9</td>
</tr>
<tr>
<td><strong>EBITDA</strong></td>
<td>45.8</td>
<td>32.8</td>
</tr>
<tr>
<td><strong>EBIT</strong></td>
<td>20.9</td>
<td>17.2</td>
</tr>
<tr>
<td><strong>EBIT-Margin</strong> (in %)</td>
<td>6.5</td>
<td>6.8</td>
</tr>
<tr>
<td>**ROCE_{EBIT} (in %)</td>
<td>4.6</td>
<td>5.2</td>
</tr>
</tbody>
</table>

1 before non-recurring items of €18.1 million in 9M/2018 and minus €6.0 million in 9M/2017
Graphite Materials & Systems.

- **Sales revenue** (including IFRS 15 effects) up 15 % (currency adjusted by 17%)
  - Double digit growth in **Battery & other Energy, LED, Semiconductors, Automotive & Transport and Chemicals**
  - Slightly higher demand in **Industrial Applications**; limited sales to the **Solar** market segment to prioritize sales to **Semiconductors** and **LED**
  - Adjusted for IFRS 15 and FX, sales in GMS grew by approx. 11% (approx. 10% at H1/2018)

- Recurring **EBIT in 9M/2018** increased substantially more than proportionately to sales by 59% due to improvements in nearly all market segments and successful implementation of price increase initiatives (IFRS 15 effects of €14.7 million)

### Financial Figures (in € million)

<table>
<thead>
<tr>
<th></th>
<th>9M/2018</th>
<th>9M/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales revenue</td>
<td>436.8</td>
<td>381.5</td>
</tr>
<tr>
<td>EBITDA(^1)</td>
<td>76.5</td>
<td>54.4</td>
</tr>
<tr>
<td>EBIT(^1)</td>
<td>59.5</td>
<td>37.5</td>
</tr>
<tr>
<td>EBIT-Margin(^1) (in %)</td>
<td>13.6</td>
<td>9.8</td>
</tr>
<tr>
<td>ROCE(_{EBIT}) (in %)</td>
<td>16.0</td>
<td>11.8</td>
</tr>
</tbody>
</table>

\(^1\) before non-recurring items of €0.6 million in 9M/2018 and €1.0 million in 9M/2017
• **Sales revenue** improved significantly due to the disposal of our former PP activities. Services to PP now recorded as sales to third parties

• Recurring **EBIT** remained nearly stable due to the earnings contributions of approx. €4 million from a land sale in Canada, which more than compensated for
  – Costs for the implementation of the Operations Management System (OMS)
  – End of cost pass through to former PP activities, which were sold in 2017
  – **Central Innovation** expenses remained stable at €6.1 million

<table>
<thead>
<tr>
<th>in € million</th>
<th>9M/2018</th>
<th>9M/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales revenue</td>
<td>25.6</td>
<td>6.7</td>
</tr>
<tr>
<td>EBITDA(^1)</td>
<td>-16.6</td>
<td>-17.1</td>
</tr>
<tr>
<td>EBIT(^1)</td>
<td>-21.2</td>
<td>-21.7</td>
</tr>
</tbody>
</table>

\(^1\) before non-recurring items of €1.8 million in 9M/2018
EBIT before non-recurring items increased by 79% to €59.2 million due to acquisition-driven higher results in CFM and improved earnings in the business unit GMS.

Non-recurring items predominantly relate to ppa effects relating to the purchase of remaining shares in former JVs with BMW and Benteler.

Net financing result improved significantly due to the repayment of the corporate bond and the convertible bond 2012/2018.
Free cash flow.

### in € million (continuing operations)

<table>
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<tr>
<th></th>
<th>9M/2018</th>
<th>9M/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash flow from operating activities</td>
<td>7.6</td>
<td>-27.2</td>
</tr>
<tr>
<td>• Capital expenditures in property, plant, equipment and intangible assets</td>
<td>-38.7</td>
<td>-30.3</td>
</tr>
<tr>
<td>• Cash flow from other investing activities</td>
<td>-8.8</td>
<td>20.1</td>
</tr>
<tr>
<td>Cash flow from investing activities</td>
<td>-47.5</td>
<td>-10.2</td>
</tr>
<tr>
<td>Free cash flow</td>
<td>-39.9</td>
<td>-37.4</td>
</tr>
<tr>
<td>Free cash flow from discontinued operations</td>
<td>58.6</td>
<td>4.1</td>
</tr>
</tbody>
</table>

- **Cash flow from operating activities** improved significantly mainly due to the improved result from continuing operations and lower build-up of working capital.

- Higher **cash outflow from investing activities** due to:
  - Cash outflow for the payment for the remaining interest in SGL ACF Germany of €23.1 million
  - Higher capex compared to prior year

- **Free cash flow from discontinued operations** contained cash inflow from the final outstanding payments for the sale of former PP activities

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1 dividends received, payments for capital contributions in investments accounted for At-Equity and other financial assets, payments for acquiring remaining stakes in our joint ventures, proceeds from sale of intangible assets and property, plant and equipment
Balance sheet.

<table>
<thead>
<tr>
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<td>Equity ratio (in %)</td>
<td>33.6</td>
<td>29.6</td>
</tr>
<tr>
<td>Total liquidity (incl. discontinued operations in 2017)</td>
<td>247.4</td>
<td>382.9</td>
</tr>
<tr>
<td>Net financial debt</td>
<td>220.9</td>
<td>139.0</td>
</tr>
<tr>
<td>Gearing (net debt/equity)</td>
<td>0.41</td>
<td>0.30</td>
</tr>
<tr>
<td>Leverage ratio (net debt/EBITDA)</td>
<td>1.7</td>
<td>1.5</td>
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- **Equity ratio** improved by 400bps mainly due to positive net result of the period of €47.7 million as well as
  - Adoption of IFRS 15 and IFRS 9 on transition date January 1, 2018 amounting to €13.8 million
  - Contribution from the IFRS equity component of the new convertible bond of €13.7 million
  - Adoption of higher interest rates on pension liabilities led to a positive impact of €12.9 million

- **Total liquidity** decreased mainly as a result of the repayment of the convertible bond in January 2018 (€239.2 million) and the repayment of a portion of the debt of SGL Composites (€67.5 million) which more than offset the cash inflow from the new convertible bond 2018/2023 (€159.3 million)

- Higher **net financial debt** reflects initial consolidation of the proportional debt relating to the full consolidation of SGL Composites amounting to €92.2 million
Appendix
## Group market segmentation.
### Stronger orientation to customer and growth markets

<table>
<thead>
<tr>
<th>Market Segment</th>
<th>Sales¹ (€ million)</th>
<th>Mobility²</th>
<th>Energy³</th>
<th>Digitization⁴</th>
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<tbody>
<tr>
<td>2017</td>
<td>860</td>
<td>19%</td>
<td>22%</td>
<td>5%</td>
<td>29%</td>
<td>14%</td>
<td>11%</td>
</tr>
<tr>
<td>2016</td>
<td>770</td>
<td>20%</td>
<td>22%</td>
<td>4%</td>
<td>27%</td>
<td>15%</td>
<td>12%</td>
</tr>
</tbody>
</table>

¹ Figures do not reflect full consolidation of SGL ACF and Benteler SGL as well as disposal of SGL Kümpers
² comprises automotive, aerospace and transport markets; ³ comprises battery, solar, wind and other energy markets; ⁴ comprises LED and semiconductor markets
Global presence.
SGL Carbon worldwide sites
**Group market segmentation.**
Stronger orientation to customer and growth markets

<table>
<thead>
<tr>
<th>Market Segment</th>
<th>Sales € million</th>
<th>Mobility</th>
<th>Energy</th>
<th>Digitization</th>
<th>Industrial Applications</th>
<th>Chemical</th>
<th>Textile Fibers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>860</td>
<td>19%</td>
<td>22%</td>
<td>5%</td>
<td>29%</td>
<td>14%</td>
<td>11%</td>
</tr>
<tr>
<td>2016</td>
<td>770</td>
<td>20%</td>
<td>22%</td>
<td>4%</td>
<td>27%</td>
<td>15%</td>
<td>12%</td>
</tr>
</tbody>
</table>

1 Figures do not reflect full consolidation of SGL ACF and Benteler SGL as well as disposal of SGL Kümpers
2 comprises automotive, aerospace and transport markets; 3 comprises battery, solar, wind and other energy markets; 4 comprises LED and semiconductor markets
CFM growth strategy is based on the integration and control of the entire value chain

CFM key technologies and products

<table>
<thead>
<tr>
<th>Upstream Area (Product Line Fibers)</th>
<th>Downstream Area (Product Lines Materials and Composites)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precursor</td>
<td>Prepreg (impregnated material)</td>
</tr>
<tr>
<td>Carbon fiber</td>
<td>Parts/Components</td>
</tr>
</tbody>
</table>

- 50k (24k)
- Panox
- 50k, 24k
- Panox
- Continuous fibers
- Short-cut/milled
- Non-crimped fabrics
- Braided textiles
- Non-wovens
- Woven fabrics
- Prepreg
- Towpreg
- Organo sheets
- RTM
- Wet press
- Compression technology
- Filament winding
- OEM

- Security of raw material supply
- Quality control (precursor)
- Cost competitive Panox and carbon fiber
- Certified/qualified materials
- Cost control of intermediate production stages
- Elimination of interfaces
- OEMs* request part/component solutions from their suppliers
- Provide “one-stop shopping”
- Customer value creation

Demonstration of technology, development and series production competence along entire value chain is key

* In particular, the automotive industry, but also the aerospace sector
The next level of Carbon Fiber in Automotive. BMW 7 series

Significant weight-savings through lightweight chassis

Source: BMW
Our composites in the automotive industry.
Leaf springs for suspension systems

Significant weight-savings through glass fiber based lightweight leaf spring

- Structural component for axle module, from simulation-assisted product design up to parts delivery in large series
- Fully automated production lines
- Peak volume over 550,000 pieces/a
- Weight saving combined with dynamic driving advantages

Volvo SPA¹ Platform

¹Scalable Product Architecture
Source: Benteler, SGL
Wind energy is the key driver for the energy segment.

Key benefits of composites in the wind energy industry:

- Corrosion resistance
- Strength-to-weight ratio

Efficiency requirement for rotor blade design leads to potential for composites:

- The growing demand of efficient wind energy plants has led to new developments in wind turbine designs
- Plants with a large number of wind turbines with short rotor blades are being upgraded with a smaller number of wind turbines with longer rotor blades
- The requirement of longer rotor blades has resulted in a huge potential for composite use in rotor blade construction

1Source: Globaldata
**Graphite Materials & Systems.**
**Leading market shares in major end markets**

**Global markets shares 2017**

<table>
<thead>
<tr>
<th>Market</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals</td>
<td>30%</td>
</tr>
<tr>
<td>Batteries &amp; other energy</td>
<td>20%</td>
</tr>
<tr>
<td>LED</td>
<td>20%</td>
</tr>
<tr>
<td>Solar</td>
<td>15%</td>
</tr>
<tr>
<td>Semiconductor</td>
<td>15%</td>
</tr>
<tr>
<td>Automotive &amp; transportation</td>
<td>15%</td>
</tr>
<tr>
<td>Industrial applications</td>
<td>10%-50%</td>
</tr>
</tbody>
</table>

Source: SGL Carbon’s own estimates
Levers to further profitability improvement.

**Sales:**
Focus on higher margin innovative **Megatrend markets** (digitization, energy, mobility)
Increase in share of **higher margin downstream businesses**
**Increase utilization** of existing capacities (CFM) and capacity extensions (GMS)
**Commercial Excellence:** margin and KPI steered sales organization with focus on price increases, improved product mix, high margin and high growth areas

**Costs:**
**Automation**
**Digitization**
Global **standardized and efficient processes:** e.g. Operations Management System
Fully utilize **Shared Service Center** and transfer further transactional tasks

**Portfolio:**
**Lightweight and Application Center** will support market penetration in automotive industry by closing the gap between materials and applications
**Battery laboratory:** continuous build-up of own competencies to develop next generation material
Strategic and **KPI-driven CAPEX** planning and improved execution
SGL Carbon – our sales growth paths.
Different mid-term growth patterns expected in GMS and CFM

**GMS**
- Well developed material
- Well established markets and businesses
- "Linear" growth expected

**CFM**
- Young material
- Breakthrough in composites today
- We have to develop our markets
- Project-driven growth expected, back-end loaded

Graphs for illustrative purposes; not to scale
## Regional Sales Distribution.

### Sales by destination

<table>
<thead>
<tr>
<th></th>
<th>Germany</th>
<th>Europe outside Germany</th>
<th>North America</th>
<th>Asia</th>
<th>Rest of World</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>26 %</td>
<td>22 %</td>
<td>19 %</td>
<td>28 %</td>
<td>6 %</td>
</tr>
<tr>
<td>2016</td>
<td>27 %</td>
<td>22 %</td>
<td>18 %</td>
<td>27 %</td>
<td>5 %</td>
</tr>
</tbody>
</table>

### Sales by origin

<table>
<thead>
<tr>
<th></th>
<th>Germany</th>
<th>Europe outside Germany</th>
<th>North America</th>
<th>Asia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>41 %</td>
<td>32 %</td>
<td>21 %</td>
<td>6 %</td>
</tr>
<tr>
<td>2016</td>
<td>41 %</td>
<td>33 %</td>
<td>21 %</td>
<td>5 %</td>
</tr>
</tbody>
</table>
Shares in issue and shareholder structure.

<table>
<thead>
<tr>
<th>Basic shares</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Security Identification Number</td>
<td>723530</td>
</tr>
<tr>
<td>ISIN Number</td>
<td>DE0007235301</td>
</tr>
<tr>
<td>Cusip Number</td>
<td>784 188 203</td>
</tr>
<tr>
<td>Number of Shares (as at December 31, 2018)</td>
<td>122,341,478</td>
</tr>
<tr>
<td>Free float</td>
<td>~ 46%</td>
</tr>
</tbody>
</table>

Reported shareholdings according to §§ 21 f. WpHG and other notifications

<table>
<thead>
<tr>
<th>Reported shareholdings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SKion GmbH</td>
<td>28.5%</td>
</tr>
<tr>
<td>BMW AG</td>
<td>18.4%</td>
</tr>
<tr>
<td>Volkswagen AG</td>
<td>7.4%</td>
</tr>
</tbody>
</table>
Debt market instruments.

<table>
<thead>
<tr>
<th>Convertible notes 2015/2020</th>
<th>Convertible notes 2018/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coupon</strong></td>
<td><strong>Coupon</strong></td>
</tr>
<tr>
<td>3.5%</td>
<td>3.0%</td>
</tr>
<tr>
<td><strong>Principal Amount</strong></td>
<td><strong>Principal Amount</strong></td>
</tr>
<tr>
<td>€ 167 million</td>
<td>€ 159.3 million</td>
</tr>
<tr>
<td><strong>Adjusted Conversion Price</strong></td>
<td><strong>Initial Conversion Price</strong></td>
</tr>
<tr>
<td>€ 17.0732</td>
<td>€ 13.0220</td>
</tr>
<tr>
<td><strong>Conversion Right (as at December 31, 2018)</strong></td>
<td><strong>Conversion Right</strong></td>
</tr>
<tr>
<td>9.78 million shares</td>
<td>12.234 million shares</td>
</tr>
<tr>
<td><strong>Issue Date</strong></td>
<td><strong>Issue Date</strong></td>
</tr>
<tr>
<td>14 September 2015</td>
<td>20 September 2018</td>
</tr>
<tr>
<td><strong>Date of Maturity</strong></td>
<td><strong>Date of Maturity</strong></td>
</tr>
<tr>
<td>30 September 2020</td>
<td>20 September 2023</td>
</tr>
</tbody>
</table>

Corporate bond (4.875% coupon, €250m principal amount, maturity 15 January 2021) with issue date 12 December 2013 redeemed early on October 30, 2017
## Financial calendar/contact details.

### Financial calendar 2019

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 27, 2019</td>
<td>Annual Report 2018</td>
</tr>
<tr>
<td>May 7, 2019</td>
<td>Report on the first quarter 2019</td>
</tr>
<tr>
<td>May 10, 2019</td>
<td>Annual General Meeting</td>
</tr>
<tr>
<td>August 6, 2019</td>
<td>Report on the first half year 2019</td>
</tr>
<tr>
<td>November 5, 2019</td>
<td>Report on the first nine months 2019</td>
</tr>
</tbody>
</table>

### Contact

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