

# Control and assurance

## Sustainability governance

The main purpose of all governance at SCA is to guarantee the Group’s commitments to its stakeholders: shareholders, customers, employees, suppliers, lenders and communities.

**Sustainability governance**

SCA’s Executive Management Team bears the overall responsibility for the control of SCA’s business in the sustainability field.

SCA has a Group Function in charge of sustainability, led by the Senior Vice President Sustainability, who reports to the CEO and is a member of the Executive Management Team. Apart from social and environmental affairs, the function is also responsible for SCA’s public affairs. In close collaboration with the business unit presidents, the approved strategy and objectives are broken down into specific targets

and activities to ensure compliance with the Group’s objectives and business plans.

The Environmental Committee and the Social Responsibility Committee draft proposals for policies and principles for governing the sustainability work, as well as objectives and action programs at Group level. They also coordinate and follow up the Group’s initiatives and objectives in the environmental and social area. The Social Responsibility Committee is responsible for preparing documentation regarding and management of human rights. Conclusions and proposed actions are reported to SCA’s

Compliance Council and the President and Board of Directors, who approve the strategic priorities and objectives. The committees include members of all business units and representatives of the Sustainability, Human Resources, Communications and Legal Group Functions.

The Compliance Council (previously the Code of Conduct Council) consists of SCA’s SVP HR, SVP Sustainability, General Counsel, President Forest Products and the CEO (twice a year). The Compliance Council oversees implementation of and compliance with SCA’s Code of Conduct.

Responsibility for implementation rests with the operational organization. A number of networks operate horizontally across SCA’s different business units to guarantee a consistent approach.

**Corporate Governance at SCA**



**SCA Group networks**

**Water management network:** Establishes the Group's aspiration level for reductions in emissions and water usage. The network also analyzes the impact of the EU's Water Framework Directive on SCA's operations.

**FSC network:** Disseminates information on sustainable forest management throughout the organization, and coordinates the Group's position and activities in relation to the FSC.

**RMS network:** Compiles information and makes calculations and presentations relating to resource use and environmental data.

**Chemicals management network:** Leads and supports development for harmonized chemical procedures and proposes group policies, priorities and objectives.

**ESAVE network:** Coordinates the Group's projects aimed at reducing SCA's energy consumption and environmental impact.

**Energy network:** Identifies cost-efficient solutions and synergies in connection with energy sourcing. The network also handles emissions trading.

**Public Affairs network:** Leads and coordinates the work aimed at influencing legislation, decisionmakers and stakeholders in prioritized areas with potential impact on SCA's operations.

**Health and Safety network:** Proposes goals and activities, follows up initiatives and highlights health and safety best practices.

**GRI network:** Ensures that SCA's sustainability reporting is in line with the Global Reporting Initiative's guidelines.

**Monitoring**

In addition to internal audits, SCA's operations are subject to external reviews and monitoring by, among others, the Swedish Financial Supervisory Authority and Nasdaq Stockholm. Life cycle assessments are another example of third-party assessments.

SCA's own control systems include segregation of duties in critical processes and defined management responsibilities with regard to internal control. There is also a separate internal audit function at SCA that works to evaluate and improve the effectiveness of SCA's governance processes, risk management and internal control. SCA's Internal Audit organization contributes to the maintenance of high standards of

business practice and is involved in the monitoring of Code of Conduct compliance through such activities as Code of Conduct audits at manufacturing sites and Business Practice audits. To support its work, the Internal Audit unit has a number of steering documents and policies.

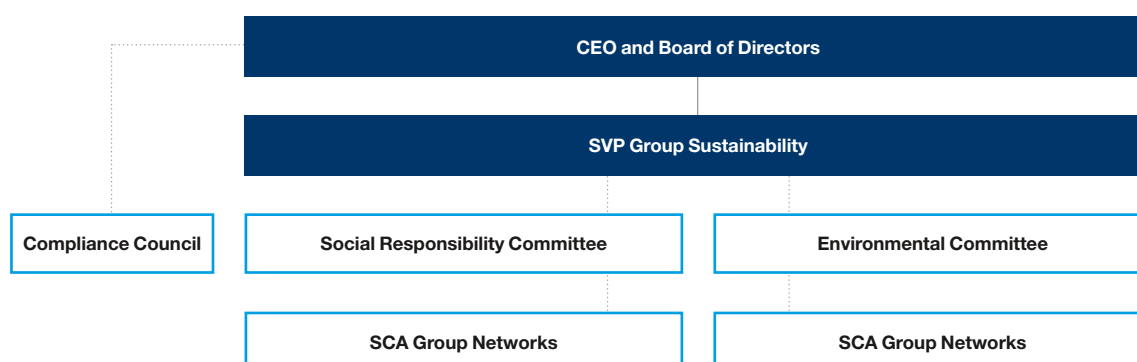
**Risk and risk management**

SCA is exposed to various risks with a greater or lesser potential impact on the Group. The responsibility for long-term and overall management of material risks follows the company's delegation scheme, from the Board to the President, and from the President to the business unit presidents.

A description of the most significant risks that impact SCA's ability to achieve its established targets and its risk management is presented on pages 76–81 of the 2015 Annual Report.

**Corporate Governance Report**

The complete Corporate Governance Report is available on SCA's website [www.sca.com](http://www.sca.com) and in the 2015 Annual Report.

**SCA's sustainability governance**

# The Resource Management System, RMS

SCA operates an extensive system for gathering and presenting data for individual production facilities and entire business units. The Resource Management System (RMS) allows SCA to analyze data, describing how the company uses energy, water, transport and raw materials, and to monitor waste and emissions levels.

The RMS data is used for internal control and monitoring, external benchmarking and as a tool for evaluating acquisitions and major investments. This year's RMS data includes one new personal care plant.

## Resources

This section describes SCA's use of raw materials, water, energy and transport in 2015.

### Raw materials

A typical SCA product is made from various types of wood fiber. It also contains small amounts of inorganic and fossil organic materials.

Renewable raw materials (fresh fiber and recycled fiber) account for the largest share of the material used in an average SCA product. Inorganic materials (kaolin clay and calcium carbonate) are used as filler and coating pigment in certain types of paper in order to satisfy high customer quality requirements. Synthetic materials are used in highly absorbent hygiene products to improve quality and function. The diagram to the right shows the raw material distribution of SCA's products.

### Water

SCA's water supply is presented in the table "Raw materials, energy and emissions". The figures stated are totals for surface water, groundwater and municipal water systems. SCA's total water intake amounted to 206 Mm<sup>3</sup>.

### Energy

Energy use includes purchased energy (heating, electricity and fuel) supplied to production units, energy generated from wood, liquor, bark, sludge and waste paper, and electricity generated on site. A large portion of the energy used by SCA comes from the incineration of wood residuals and from on-site co-generation of electricity. The energy data figures stated therefore include both a fuel component and an electricity component.

Any excess electricity produced at an SCA facility that is not used internally is supplied to the national grid. In 2015, SCA delivered 30.6 GWh of electricity to the national grid.

SCA supplies secondary heat derived from effluent hot water to district heating systems, mainly in Sweden, which is an effective way of

saving energy. In 2015, SCA delivered heat to district heating systems equivalent to 36,049 cubic meters of fuel oil.

### Transport

Raw materials are transported to SCA's production plants and finished products are delivered to SCA's customers. SCA uses external suppliers for most of its transportation needs. SCA's use of transportation is equivalent to 31.7 billion ton-kilometers. Sea freight accounts for the greatest portion of SCA's transport and the remainder consists of road and rail. Transportation of SCA's raw materials and products uses the equivalent of 11,782 TJ of fuel and electricity.

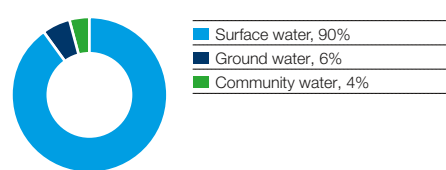
### Emissions

The company's total emissions are determined by fuel consumption, which in turn is determined by the level of production. Changes in production volumes over the past few years, measured in tons and cubic meters. The SCA Group's emissions are shown in the tables that present Group emissions in 2013, 2014 and 2015.

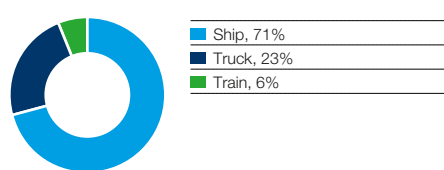
### Emissions to air

Air emissions comprise emissions from all combustion units at SCA's production sites, including fossil fuel and biofuel emissions and emissions from purchased thermal energy. When energy (primarily thermal energy and/or electricity) is supplied to an external facility, air emissions are reduced in relation to the energy

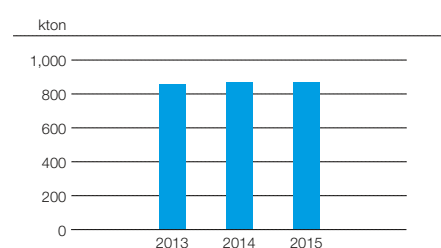
Distribution of water supply



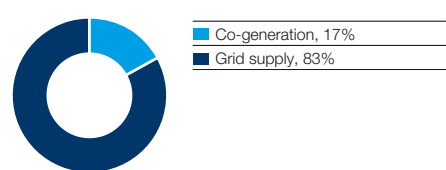
Distribution of transport usage



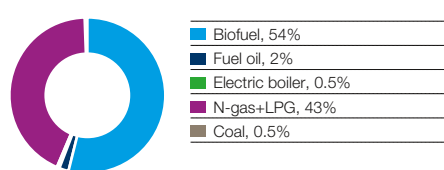
Emissions from transport, CO<sub>2</sub>



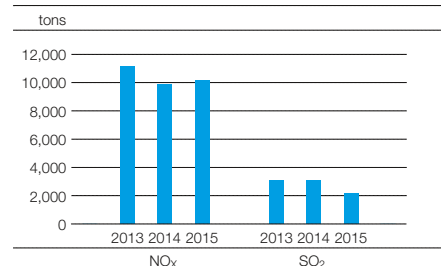
Distribution of electricity supply



Distribution of fuel supply



Emissions from transport, NO<sub>x</sub> and SO<sub>2</sub>



amount delivered and the reduction is distributed among SCA's main products.

Three chemical compounds are measured and reported in relation to air emissions: NO<sub>x</sub>, SO<sub>2</sub> and fossil CO<sub>2</sub>.

SCA uses Group-wide established procedures and principles for calculating RMS data so as to create comparability.

CO<sub>2</sub> emissions from SCA's use of fossil fuels corresponded to 1,589 ktons and purchased electricity to 1,444 ktons during the year.

#### Air emissions from transport

A large portion of SCA's air emissions is generated by transport, rather than the company's production activities. Transport emissions are not included in the table "Raw materials, energy, and emissions" on page 58, but are presented in the diagrams on page 56.

SCA's transport emissions of SO<sub>2</sub> were reduced by 31% in 2015. The decrease was mainly due to SCA's vessels being adapted to the new regulation from the UN's International Maritime Organization regarding sulphur content (0.1%) in defined regions, which came into effect in January 2015.

#### Emissions to water

SCA's effluent water is divided into cooling water and process water. Cooling water has simply been heated and is not contaminated in any way. The total volume of discharged process water is 113 Mm<sup>3</sup>. This water is treated using methods

similar to those employed at municipal wastewater treatment facilities. The figures for 2015 refer to process water emissions.

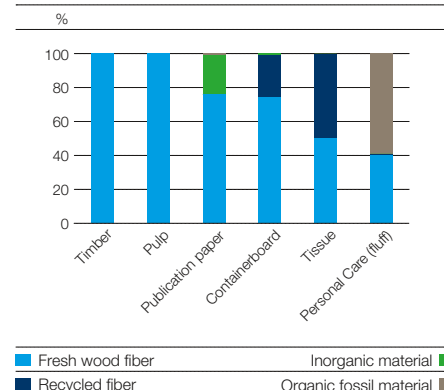
The emissions to water stated in the tables comprise COD, BOD, suspended solids, AOX, P and N. Measurement methods differ in some respects.

During the year, SCA's emissions to water (COD and BOD) increased due to technical problems related to wastewater treatment systems in some locations.

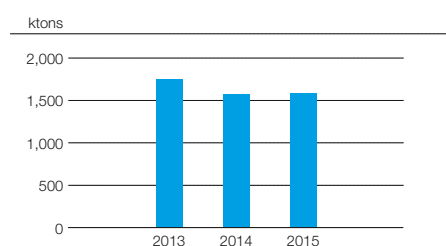
#### Solid waste

The solid waste reported by SCA is waste that is sent to landfill, recycled waste and hazardous waste. Recycled waste refers to materials that can be used as raw materials in other industries, such as the cement, brick-making and construction industries. The main types of recycled waste are ash, sludge, organic waste and plastics. Hazardous waste is primarily waste oil as well as organic solvents, batteries and strip lights.

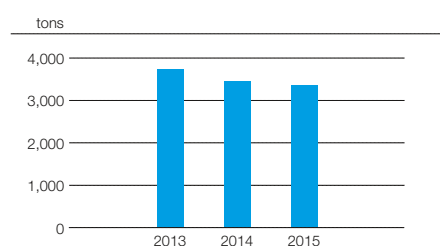
#### Distribution of raw materials



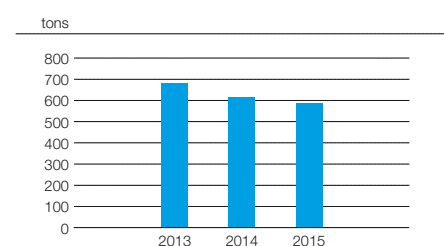
#### Air emissions, CO<sub>2</sub> fossil



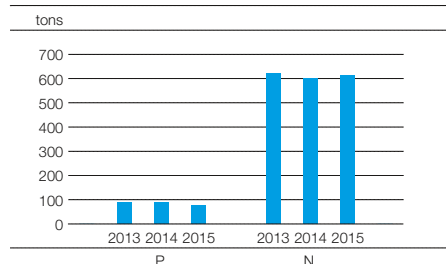
#### Air emissions, NO<sub>x</sub>



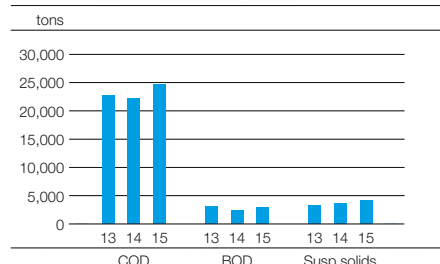
#### Air emissions, SO<sub>2</sub>



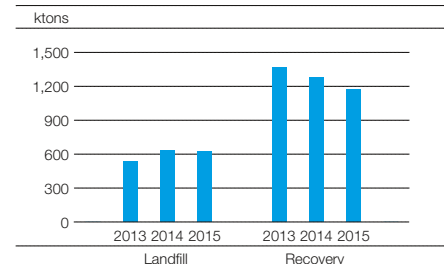
#### Water effluents, P, N



#### Water effluents, COD, BOD and suspended solids



#### Distribution of solid waste



# Environmental data

## Raw materials, energy and discharges

|                                          |         | Forest Products |         | Tissue Products |           | Personal Care |        | SCA Group total |           |
|------------------------------------------|---------|-----------------|---------|-----------------|-----------|---------------|--------|-----------------|-----------|
|                                          |         | 2015            | 2014    | 2015            | 2014      | 2015          | 2014   | 2015            | 2014      |
| Production                               |         |                 |         |                 |           |               |        |                 |           |
| Paper and pulp                           | ktons   | 2,358           | 2,351   | 3,097           | 3,033     |               |        | 5,456           | 5,588     |
| Personal Care products                   | ktons   |                 |         |                 |           | 761           | 724    | 761             | 724       |
| Timber and solid-wood products           | 1,000m³ | 2,075           | 2,107   |                 |           |               |        | 2,075           | 2,107     |
| 1. Raw materials                         |         |                 |         |                 |           |               |        |                 |           |
| Wood/sawmill chips¹)                     | kton    | 4,490           | 4,710   | 460             | 439       | 0             | 0      | 4,950           | 5,150     |
| Purchased pulp¹)                         | kton    | 69              | 72      | 1,402           | 1,316     | 383           | 364    | 1,855           | 1,752     |
| Purchased paper                          | kton    | 0               | 0       | 124             | 123       | 0.2           | 0.2    | 124             | 123       |
| Recovered paper                          | kton    | 301             | 328     | 1,972           | 1,982     | 5             | 4      | 2,278           | 2,314     |
| Inorganic material                       | kton    | 206             | 214     | 0               | 0         | 0             | 0      | 206             | 214       |
| Organic fossil material                  | kton    | 12              | 13      | 0               | 3         | 560           | 404    | 572             | 420       |
| Water                                    | Mm³     | 108             | 110     | 96              | 95        | 1             | 2      | 206             | 207       |
| 2. Energy                                |         |                 |         |                 |           |               |        |                 |           |
| Electricity                              |         |                 |         |                 |           |               |        |                 |           |
| Co-generation                            | GWhe    | 802             | 819     | 532             | 505       | 0             | 0      | 1,334           | 1,324     |
| Grid supply                              | GWhe    | 2,496           | 2,485   | 3,687           | 3,702     | 518           | 497    | 6,702           | 6,684     |
| Total                                    | GWhe    | 3,298           | 3,304   | 4,219           | 4,207     | 518           | 497    | 8,036           | 8,008     |
| Fuels                                    |         |                 |         |                 |           |               |        |                 |           |
| Biofuel                                  | TJfuel  | 27,794          | 26,152  | 4,485           | 4,442     | 0             | 0      | 32,279          | 30,594    |
| Fossil fuel                              | TJfuel  | 1,088           | 1,413   | 26,281          | 25,607    | 304           | 305    | 27,673          | 27,325    |
| Electric boiler/hood                     | TJfuel  | 235             | 122     | 65              | 55        | 0             | 0      | 300             | 177       |
| Total                                    | TJfuel  | 29,117          | 27,686  | 30,831          | 30,105    | 304           | 305    | 60,252          | 58,096    |
| of which co-gen.                         | TJfuel  | 3,377           | 3,466   | 2,238           | 1,878     | 0             | 0      | 5,615           | 5,344     |
| 3. Discharges                            |         |                 |         |                 |           |               |        |                 |           |
| To air                                   |         |                 |         |                 |           |               |        |                 |           |
| NO <sub>x</sub> as NO <sub>2</sub>       | tons    | 1,698           | 1,592   | 1,649           | 1,826     | 23            | 24     | 3,370           | 3,442     |
| SO <sub>2</sub>                          | tons    | 267             | 352     | 321             | 262       | 0.1           | 0.07   | 589             | 615       |
| Dust                                     | tons    | 175             | 219     | 133             | 140       | 0             | 0      | 308             | 358       |
| CO <sub>2</sub> fossil                   | ktons   | 83              | 110     | 1,489           | 1,449     | 17            | 17     | 1,589           | 1,576     |
| CO <sub>2</sub> fossil, grid electricity | ktons   | 33              | 33      | 1,253           | 1,256     | 157           | 152    | 1,444           | 1,441     |
| CO <sub>2</sub> biogenic                 | ktons   | 2,706           | 2,706   | 500             | 490       | 7             | 0      | 3,214           | 3,195     |
| To water                                 |         |                 |         |                 |           |               |        |                 |           |
| COD                                      | tons    | 15,262          | 13,614  | 9,434           | 8,613     | 36            | 33     | 24,732          | 22,260    |
| BOD                                      | tons    | 1,678           | 1,293   | 1,327           | 1,139     | 1             | 1      | 3,006           | 2,433     |
| Suspended solids                         | tons    | 2,853           | 2,369   | 1,282           | 1,260     | 1             | 1      | 4,137           | 3,630     |
| AOX                                      | tons    | 10              | 11      | 5               | 5         | 0             | 0      | 16              | 16        |
| P                                        | tons    | 40              | 45      | 35              | 41        | 1             | 0      | 76              | 87        |
| N                                        | tons    | 387             | 337     | 230             | 264       | 2             | 1      | 619             | 602       |
| Effluent water                           | Mm³     | 45              | 45      | 67              | 69        | 0             | 0      | 113             | 115       |
| Solid waste                              |         |                 |         |                 |           |               |        |                 |           |
| Landfill                                 | tons    | 11,024          | 8,846   | 608,311         | 621,590   | 1,855         | 2,895  | 621,189         | 629,417   |
| Recovery                                 | tons    | 121,905         | 143,335 | 993,392         | 1,076,383 | 60,407        | 54,320 | 1,175,704       | 1,274,038 |
| Hazardous                                | tons    | 1,187           | 1,229   | 1,933           | 1,610     | 213           | 206    | 3,333           | 3,045     |
| Certified volumes, SCA's main sites      |         |                 |         |                 |           |               |        |                 |           |
| ISO 9001                                 | %       | 91              | 91      | 77              | 77        | 82²)          | 84     |                 |           |
| ISO 14001                                | %       | 85              | 83      | 87              | 85        | 90²)          | 91     |                 |           |

<sup>1)</sup> Partly internal deliveries.

<sup>2)</sup> Compared with 2014, Personal Care sites had a slightly lower percentage in 2015 due to volume changes at the sites.

## Facts about the plants – Personal Care

|                                |             | Buenos Aires, Argentina | Bowling Green, US | Caloto, Colombia | Drummondville, Canada | Ecatepec, Mexico | Falkenberg, Sweden | Gemerská Hôrka, Slovakia | Gennep, Netherlands | Guadalajara, Mexico | Hoogezand, Netherlands | Lasso, Ecuador | Mölnlycke, Sweden | Olawa, Poland | Rio Negro, Colombia | San Cristobal, Dominican Republic | Sao Paulo, Brazil | Shah Alam, Malaysia | Kao Hsiung, Taiwan | Istanbul 1, Turkey | Valls, Spain | Verhov, Russia | Istanbul 2, Turkey | Hondouville, France | Total<br>Personal Care<br>23 sites |
|--------------------------------|-------------|-------------------------|-------------------|------------------|-----------------------|------------------|--------------------|--------------------------|---------------------|---------------------|------------------------|----------------|-------------------|---------------|---------------------|-----------------------------------|-------------------|---------------------|--------------------|--------------------|--------------|----------------|--------------------|---------------------|------------------------------------|
| <b>2015</b>                    | <b>Unit</b> |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| <b>Production</b>              | kton        | <b>8</b>                | <b>21</b>         | <b>50</b>        | <b>33</b>             | <b>38</b>        | <b>79</b>          | <b>35</b>                | <b>86</b>           | <b>4</b>            | <b>88</b>              | <b>6</b>       | <b>4</b>          | <b>86</b>     | <b>22</b>           | <b>1</b>                          | <b>24</b>         | <b>85</b>           | <b>22</b>          | <b>6</b>           | <b>11</b>    | <b>17</b>      | <b>30</b>          | <b>5</b>            | <b>761</b>                         |
| Timber and solid-wood products | m³          | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| <b>Energy</b>                  |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| <b>Electricity</b>             |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| Co-generation                  | GWh         | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| Grid supply                    | GWh         | 10                      | 24                | 35               | 26                    | 36               | 48                 | 37                       | 42                  | 3                   | 74                     | 2              | 5                 | 57            | 16                  | 1                                 | 7                 | 46                  | 0                  | 2                  | 7            | 15             | 11                 | 14                  | 518                                |
| <b>Total</b>                   | <b>GWh</b>  | <b>10</b>               | <b>24</b>         | <b>35</b>        | <b>26</b>             | <b>36</b>        | <b>48</b>          | <b>37</b>                | <b>42</b>           | <b>3</b>            | <b>74</b>              | <b>2</b>       | <b>5</b>          | <b>57</b>     | <b>16</b>           | <b>1</b>                          | <b>7</b>          | <b>46</b>           | <b>0</b>           | <b>2</b>           | <b>7</b>     | <b>15</b>      | <b>11</b>          | <b>14</b>           | <b>518</b>                         |
| <b>Fuels</b>                   |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| Biofuel                        | TJ          | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| Fossil fuel                    | TJ          | 0                       | 13                | 1                | 5                     | 0                | 0                  | 22                       | 27                  | 0                   | 76                     | 0              | 12                | 7             | 1                   | 0                                 | 0                 | 1                   | 2                  | 0                  | 0            | 28             | 10                 | 99                  | 304                                |
| Electric boiler and hood       | TJ          | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| <b>Total</b>                   | <b>TJ</b>   | <b>0</b>                | <b>13</b>         | <b>1</b>         | <b>5</b>              | <b>0</b>         | <b>0</b>           | <b>22</b>                | <b>27</b>           | <b>0</b>            | <b>76</b>              | <b>0</b>       | <b>12</b>         | <b>7</b>      | <b>1</b>            | <b>0</b>                          | <b>0</b>          | <b>1</b>            | <b>2</b>           | <b>0</b>           | <b>0</b>     | <b>28</b>      | <b>10</b>          | <b>99</b>           | <b>304</b>                         |
| of which co-gen.               | TJ          | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| <b>Discharges</b>              |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| <b>To air</b>                  |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| NOS as NO <sub>2</sub>         | tons        | 0                       | 1                 | 0                | 0.5                   | 0                | 0                  | 2                        | 3                   | 0                   | 8                      | 0              | 1                 | 0.7           | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 3              | 1                  | 3                   | 23                                 |
| SO <sub>x</sub>                | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| Dust                           | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| CO <sub>2</sub> fossil         | kton        | 0                       | 0.7               | 0                | 0.3                   | 0                | 0                  | 1                        | 2                   | 0                   | 4                      | 0              | 0.8               | 0.4           | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 2              | 0                  | 6                   | 17                                 |
| CO <sub>2</sub> electricity    | kton        | 4                       | 12                | 6                | 4                     | 18               | 0.6                | 7                        | 19                  | 2                   | 34                     | 0.7            | 0                 | 0             | 3                   | 0                                 | 1                 | 32                  | 0                  | 1                  | 2            | 6              | 5                  | 1                   | 157                                |
| CO <sub>2</sub> bio            | kton        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 7                   | 7                                  |
| <b>To water</b>                |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| COD                            | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 36                  | 36                                 |
| BOD                            | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 1                   | 1                                  |
| Suspended solids               | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 1                   | 1                                  |
| AOX                            | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0                   | 0                                  |
| P                              | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 1                   | 1                                  |
| N                              | tons        | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 2                   | 2                                  |
| Effluent water                 | Mm³         | 0                       | 0                 | 0                | 0                     | 0                | 0                  | 0                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 0            | 0              | 0                  | 0.4                 | 0.4                                |
| <b>Solid waste</b>             |             |                         |                   |                  |                       |                  |                    |                          |                     |                     |                        |                |                   |               |                     |                                   |                   |                     |                    |                    |              |                |                    |                     |                                    |
| Landfill                       | tons        | 430                     | 0                 | 134              | 0                     | 0                | 0                  | 175                      | 0                   | 139                 | 0                      | 196            | 0                 | 253           | 184                 | 27                                | 0                 | 9                   | 0                  | 0                  | 90           | 0              | 0                  | 217                 | 1,855                              |
| Recovery                       | tons        | 1,076                   | 2,665             | 5,502            | 2,829                 | 4,789            | 6,193              | 8,318                    | 2,707               | 544                 | 5,615                  | 155            | 295               | 7,088         | 2,841               | 124                               | 47                | 2,426               | 1,110              | 0                  | 505          | 1,816          | 1,881              | 1,880               | 60,407                             |
| Hazardous                      | tons        | 0                       | 3                 | 66               | 1                     | 0                | 2                  | 5                        | 0                   | 0                   | 0                      | 0              | 0                 | 0             | 0                   | 0                                 | 0                 | 0                   | 0                  | 0                  | 1            | 0              | 0                  | 135                 | 213                                |

## Facts about the plants – Tissue

|                                    |                 | Barton, US   | Cajica, Colombia | Flagstaff, US | Lasso, Ecuador | Medellin, Colombia | Menasha, US  | Monterrey, Mexico | Santiago, Chile | Sahagun, Mexico | South Glens Falls, US | Urupan, Mexico | Allo, Spain | Altopascio, Italy | Chesterfield, UK |
|------------------------------------|-----------------|--------------|------------------|---------------|----------------|--------------------|--------------|-------------------|-----------------|-----------------|-----------------------|----------------|-------------|-------------------|------------------|
| <b>2015</b>                        | <b>Unit</b>     |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| <b>Production</b>                  | kton            | <b>165</b>   | <b>61</b>        | <b>53</b>     | <b>26</b>      | <b>36</b>          | <b>198</b>   | <b>56</b>         | <b>43</b>       | <b>58</b>       | <b>64</b>             | <b>48</b>      | <b>135</b>  | <b>25</b>         | <b>25</b>        |
| Timber and solid-wood products     | m <sup>3</sup>  | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 0              | 0           | 0                 | 0                |
| <b>Energy</b>                      |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| <b>Electricity</b>                 |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| Co-generation                      | GWh             | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 54             | 0           | 31                | 0                |
| Grid supply                        | GWh             | 276          | 102              | 65            | 35             | 51                 | 322          | 72                | 69              | 85              | 101                   | 7              | 157         | 4                 | 36               |
| <b>Total</b>                       | <b>GWh</b>      | <b>276</b>   | <b>102</b>       | <b>65</b>     | <b>35</b>      | <b>51</b>          | <b>322</b>   | <b>72</b>         | <b>69</b>       | <b>85</b>       | <b>101</b>            | <b>61</b>      | <b>157</b>  | <b>35</b>         | <b>36</b>        |
| <b>Fuels</b>                       |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| Biofuel                            | TJ              | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 0              | 0           | 0                 | 0                |
| Fossil fuel                        | TJ              | 1,210        | 509              | 462           | 239            | 293                | 1,617        | 420               | 475             | 512             | 526                   | 858            | 792         | 390               | 239              |
| Electric boiler and hood           | TJ              | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 0              | 0           | 0                 | 0                |
| <b>Total</b>                       | <b>TJ</b>       | <b>1,210</b> | <b>509</b>       | <b>462</b>    | <b>239</b>     | <b>293</b>         | <b>1,617</b> | <b>420</b>        | <b>475</b>      | <b>512</b>      | <b>526</b>            | <b>858</b>     | <b>792</b>  | <b>390</b>        | <b>239</b>       |
| of which co-gen.                   | TJ              | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 620            | 0           | 293               | 0                |
| <b>Discharges</b>                  |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| <b>To air</b>                      |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| NO <sub>S</sub> as NO <sub>2</sub> | tons            | 37           | 20               | 10            | 8              | 1                  | 65           | 13                | 60              | 22              | 12                    | 86             | 2           | 45                | 3                |
| SO <sub>x</sub>                    | tons            | 0.3          | 0.9              | 0             | 18             | 0                  | 0.5          | 0                 | 0               | 0               | 0.2                   | 0              | 0           | 0                 | 0                |
| Dust                               | tons            | 4            | 0                | 1.5           | 6              | 0                  | 38           | 4                 | 0               | 1.7             | 0                     | 0              | 0           | 0                 | 0.8              |
| CO <sub>2</sub> fossil             | kton            | 68           | 29               | 26            | 18             | 17                 | 91           | 24                | 37              | 29              | 29                    | 48             | 44          | 22                | 13               |
| CO <sub>2</sub> electricity        | kton            | 133          | 19               | 31            | 0              | 9                  | 155          | 37                | 33              | 43              | 49                    | 3              | 39          | 1                 | 17               |
| CO <sub>2</sub> bio                | kton            | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 0              | 0           | 0                 | 0                |
| <b>To water</b>                    |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| COD                                | tons            | 727          | 109              | 300           | 113            | 610                | 0            | 0                 | 70              | 498             | 0                     | 326            | 85          | 0                 | 627              |
| BOD                                | tons            | 89           | 42               | 31            | 46             | 156                | 58           | 0                 | 12              | 207             | 206                   | 29             | 12          | 0                 | 0                |
| Suspended solids                   | tons            | 166          | 55               | 77            | 27             | 162                | 77           | 0                 | 12              | 31              | 98                    | 38             | 21          | 0                 | 28               |
| AOX                                | tons            | 0            | 0                | 0             | 0              | 0                  | 0            | 0                 | 0               | 0               | 0                     | 0              | 0.6         | 0                 | 0                |
| P                                  | tons            | 5            | 5                | 1             | 0              | 0                  | 4            | 0                 | 1               | 0.8             | 0                     | 0.3            | 0.3         | 0                 | 0                |
| N                                  | tons            | 32           | 5                | 2             | 0              | 0                  | 38           | 0                 | 8               | 12              | 0                     | 5              | 6           | 0                 | 0                |
| Effluent water                     | Mm <sup>3</sup> | 9            | 0.8              | 0             | 0.6            | 0.6                | 8            | 0.7               | 1.6             | 1.5             | 1.8                   | 0.9            | 1.5         | 0.2               | 0.3              |
| <b>Solid waste</b>                 |                 |              |                  |               |                |                    |              |                   |                 |                 |                       |                |             |                   |                  |
| Landfill                           | tons            | 196,979      | 2,546            | 40,852        | 15,600         | 1,696              | 189,904      | 1,201             | 35,518          | 10,378          | 20,486                | 14,810         | 4,003       | 87                | 310              |
| Recovery                           | tons            | 635          | 47,335           | 15            | 890            | 19,724             | 37           | 25,347            | 0               | 1,040           | 58,371                | 7,366          | 3,143       | 526               | 41,060           |
| Hazardous                          | tons            | 16           | 19               | 5             | 19             | 27                 | 11           | 11                | 0               | 93              | 0.5                   | 37             | 376         | 26                | 12               |

|  | Colodi, Italy | Cuijk, Netherlands | Gien, France | Hondouville, France | Kostheim, Germany | Kunheim, France | Le Theil, France | Lilla Edet, Sweden | Lucca, Italy | Manchester, UK | Mannheim, Germany | Mediona, Spain | Neuss, Germany | Nokia, Finland |
|--|---------------|--------------------|--------------|---------------------|-------------------|-----------------|------------------|--------------------|--------------|----------------|-------------------|----------------|----------------|----------------|
|  | <b>39</b>     | <b>56</b>          | <b>135</b>   | <b>65</b>           | <b>135</b>        | <b>50</b>       | <b>62</b>        | <b>99</b>          | <b>128</b>   | <b>49</b>      | <b>291</b>        | <b>36</b>      | <b>112</b>     | <b>63</b>      |
|  | 0             | 0                  | 0            | 0                   | 0                 | 0               | 0                | 0                  | 0            | 0              | 0                 | 0              | 0              | 0              |
|  | 0             | 0                  | 0            | 0                   | 34                | 0               | 0                | 2                  | 78           | 0              | 258               | 0              | 0              | 0              |
|  | 35            | 67                 | 243          | 117                 | 154               | 64              | 59               | 132                | 40           | 88             | 254               | 31             | 144            | 95             |
|  | <b>35</b>     | <b>67</b>          | <b>243</b>   | <b>117</b>          | <b>188</b>        | <b>64</b>       | <b>59</b>        | <b>134</b>         | <b>118</b>   | <b>88</b>      | <b>512</b>        | <b>31</b>      | <b>144</b>     | <b>95</b>      |
|  | 0             | 6                  | 0            | 0                   | 0                 | 0               | 0                | 456                | 0            | 0              | 4,004             | 0              | 0              | 0              |
|  | 259           | 350                | 1,283        | 499                 | 1,455             | 437             | 345              | 178                | 1,425        | 570            | 3,550             | 288            | 636            | 436            |
|  | 0             | 0                  | 0            | 0                   | 0                 | 0               | 0                | 65                 | 0            | 0              | 0                 | 0              | 0              | 0              |
|  | <b>259</b>    | <b>356</b>         | <b>1,283</b> | <b>499</b>          | <b>1,455</b>      | <b>437</b>      | <b>345</b>       | <b>699</b>         | <b>1,425</b> | <b>570</b>     | <b>7,554</b>      | <b>288</b>     | <b>636</b>     | <b>436</b>     |
|  | 0             | 0                  | 0            | 0                   | 0                 | 0               | 0                | 0                  | 928          | 0              | 0                 | 0              | 0              | 0              |
|  | 18            | 2                  | 25           | 12                  | 51                | 21              | 19               | 53                 | 134          | 17             | 532               | 29             | 20             | 44             |
|  | 0             | 0                  | 0.4          | 3                   | 0.4               | 0.2             | 0.2              | 0.2                | 0            | 0              | 293               | 0              | 0.7            | 0              |
|  | 0             | 0                  | 3            | 3                   | 0                 | 0               | 0                | 1.1                | 0            | 0              | 51                | 0              | 0.5            | 0              |
|  | 15            | 20                 | 72           | 28                  | 82                | 24              | 19               | 10                 | 80           | 32             | 200               | 16             | 36             | 24             |
|  | 12            | 30                 | 16           | 7                   | 75                | 4               | 4                | 2                  | 14           | 40             | 123               | 8              | 70             | 17             |
|  | 0             | 0.4                | 0            | 0                   | 0                 | 0               | 0                | 66                 | 0            | 0              | 433               | 0              | 0              | 0              |
|  | 0             | 31                 | 97           | 153                 | 120               | 113             | 25               | 273                | 0            | 0              | 4,104             | 0              | 97             | 192            |
|  | 0             | 3                  | 11           | 4                   | 5                 | 35              | 7                | 41                 | 0            | 0              | 207               | 0              | 5              | 17             |
|  | 0             | 24                 | 12           | 7                   | 1                 | 26              | 1                | 44                 | 0            | 0              | 230               | 0              | 4              | 35             |
|  | 0             | 0                  | 0.4          | 0.4                 | 0.2               | 0.5             | 0.3              | 0.5                | 0            | 0              | 0.4               | 0              | 0.2            | 0.5            |
|  | 0             | 0                  | 0.6          | 0.8                 | 0.4               | 0.2             | 0                | 0.5                | 0            | 0              | 9                 | 0              | 0              | 0.7            |
|  | 0             | 3                  | 10           | 8                   | 4                 | 2               | 0.7              | 12                 | 0            | 0              | 40                | 0              | 7              | 6              |
|  | 0.2           | 0.8                | 1.7          | 1.7                 | 1                 | 0.9             | 0.4              | 3                  | 0.2          | 0.7            | 13                | 0              | 0.8            | 3              |
|  | 222           | 22                 | 419          | 3,214               | 0                 | 0               | 0                | 0                  | 15           | 45             | 367               | 31             | 0              | 3,215          |
|  | 304           | 47,148             | 9,321        | 115,869             | 77,282            | 1,521           | 3,625            | 25,537             | 2,536        | 5,812          | 91,714            | 2,153          | 3,944          | 60,276         |
|  | 42            | 45                 | 151          | 130                 | 128               | 23              | 17               | 37                 | 46           | 42             | 223               | 6              | 36             | 5              |

Cont. &gt;&gt;&gt;

## Facts about the plants – Tissue, cont.

|                                    |                 | Oakenholt, UK | Orleans, France | Ortmann, Austria | Prudhoe, UK  | Sovetsk, Russia | Stenbert, Belgium | Stubbins, UK | Suameer, Netherlands | Svetlogorsk, Russia | Valls, Spain | Witzenhausen, Germany | Total<br>Tissue<br>39 sites |
|------------------------------------|-----------------|---------------|-----------------|------------------|--------------|-----------------|-------------------|--------------|----------------------|---------------------|--------------|-----------------------|-----------------------------|
| <b>2015</b>                        | <b>Unit</b>     |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| <b>Production</b>                  | kton            | <b>67</b>     | <b>7</b>        | <b>132</b>       | <b>130</b>   | <b>60</b>       | <b>68</b>         | <b>72</b>    | <b>7</b>             | <b>54</b>           | <b>155</b>   | <b>31</b>             | <b>3,097</b>                |
| Timber and solid-wood products     | m <sup>3</sup>  | 0             | 0               | 0                | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 0                           |
| <b>Energy</b>                      |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| <b>Electricity</b>                 |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| Co-generation                      | GWh             | 0             | 0               | 75               | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 532                         |
| Grid supply                        | GWh             | 49            | 25              | 68               | 142          | 74              | 73                | 91           | 10                   | 62                  | 160          | 27                    | 3,687                       |
| <b>Total</b>                       | <b>GWh</b>      | <b>49</b>     | <b>25</b>       | <b>143</b>       | <b>142</b>   | <b>74</b>       | <b>73</b>         | <b>91</b>    | <b>10</b>            | <b>62</b>           | <b>160</b>   | <b>27</b>             | <b>4,219</b>                |
| <b>Fuels</b>                       |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| Biofuel                            | TJ              | 0             | 0               | 18               | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 4,484                       |
| Fossil fuel                        | TJ              | 437           | 122             | 1,278            | 1,064        | 474             | 473               | 658          | 44                   | 353                 | 953          | 170                   | 26,280                      |
| Electric boiler and hood           | TJ              | 0             | 0               | 0                | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 65                          |
| <b>Total</b>                       | <b>TJ</b>       | <b>437</b>    | <b>122</b>      | <b>1,296</b>     | <b>1,064</b> | <b>474</b>      | <b>473</b>        | <b>658</b>   | <b>44</b>            | <b>353</b>          | <b>953</b>   | <b>170</b>            | <b>30,830</b>               |
| of which co-gen.                   | TJ              | 0             | 0               | 396              | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 2,237                       |
| <b>Discharges</b>                  |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| <b>To air</b>                      |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| NO <sub>x</sub> as NO <sub>2</sub> | tons            | 9             | 12              | 40               | 35           | 14              | 19                | 42           | 1                    | 12                  | 95           | 8                     | 1,649                       |
| SO <sub>x</sub>                    | tons            | 0             | 0               | 0                | 4            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 321                         |
| Dust                               | tons            | 0             | 0               | 0                | 5            | 7               | 1                 | 0            | 0                    | 5                   | 0            | 0                     | 133                         |
| CO <sub>2</sub> fossil             | kton            | 24            | 7               | 72               | 60           | 27              | 26                | 37           | 2                    | 20                  | 53           | 10                    | 1,489                       |
| CO <sub>2</sub> electricity        | kton            | 23            | 2               | 0                | 65           | 32              | 15                | 42           | 5                    | 27                  | 40           | 13                    | 1,253                       |
| CO <sub>2</sub> bio                | kton            | 0             | 0               | 1                | 0            | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 500                         |
| <b>To water</b>                    |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| COD                                | tons            | 87            | 0               | 288              | 136          | 72              | 76                | 0            | 65                   | 0                   | 41           | 0                     | 9,434                       |
| BOD                                | tons            | 16            | 0               | 15               | 10           | 19              | 35                | 0            | 0                    | 0                   | 7            | 0                     | 1,327                       |
| Suspended solids                   | tons            | 15            | 0               | 27               | 22           | 11              | 2                 | 0            | 27                   | 0                   | 4            | 0                     | 1,282                       |
| AOX                                | tons            | 0             | 0               | 0.2              | 0.6          | 0               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 5                           |
| P                                  | tons            | 0.5           | 0               | 1                | 1            | 1               | 0                 | 0            | 0                    | 0                   | 0            | 0                     | 35                          |
| N                                  | tons            | 11            | 0               | 11               | 4            | 2               | 2                 | 0            | 0.9                  | 0                   | 0            | 0                     | 230                         |
| Effluent water                     | Mm <sup>3</sup> | 0.5           | 0.2             | 4                | 3            | 1.2             | 0.8               | 1.3          | 0.2                  | 1                   | 0.4          | 0                     | 67                          |
| <b>Solid waste</b>                 |                 |               |                 |                  |              |                 |                   |              |                      |                     |              |                       |                             |
| Landfill                           | tons            | 0             | 86              | 0                | 5,628        | 2,817           | 0                 | 5,830        | 0                    | 51,769              | 261          | 0                     | 608,311                     |
| Recovery                           | tons            | 3,660         | 411             | 113,083          | 75,014       | 35,496          | 3,635             | 97,301       | 2,504                | 1,957               | 7,339        | 460                   | 993,392                     |
| Hazardous                          | tons            | 9             | 0               | 32               | 73           | 14              | 34                | 21           | 8                    | 8                   | 89           | 66                    | 1,933                       |

## Facts about the plants – Forest Products

|                                    |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 | Total                     |                            |                 |
|------------------------------------|----------------------|------------------|----------------|-----------------|-----------------|-----------------|-------------------|-----------------|---------------|------------------|-----------------|-----------------|---------------------------|----------------------------|-----------------|
|                                    |                      | Munksund, Sweden | Obbola, Sweden | Ortiken, Sweden | Östrand, Sweden | BioNorr, Sweden | BM Stugun, Sweden | Bolista, Sweden | Gällö, Sweden | Munksund, Sweden | Rundvik, Sweden | Tunadal, Sweden | Pulp and paper<br>4 mills | Forest business<br>7 mills | Forest Products |
| <b>2015</b>                        | <b>Unit</b>          |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| <b>Production</b>                  | kton                 | <b>373</b>       | <b>444</b>     | <b>843</b>      | <b>524</b>      | <b>160</b>      | <b>14</b>         | <b>0</b>        | <b>0</b>      | <b>0</b>         | <b>0</b>        | <b>0</b>        | <b>2,184</b>              | <b>174</b>                 | <b>2,358</b>    |
| Timber and solid-wood products     | 1,000 m <sup>3</sup> | 0                | 0              | 0               | 0               | 0               | 84                | 561             | 304           | 388              | 299             | 439             | 0                         | 2,075                      | 2,075           |
| <b>Energy</b>                      |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| <b>Electricity</b>                 |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| Co-generation                      | GWh                  | 153              | 125            | 57              | 467             | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 802                       | 0                          | 802             |
| Grid supply                        | GWh                  | 181              | 199            | 1,908           | 39              | 32              | 0                 | 42              | 13            | 25               | 20              | 36              | 2,327                     | 169                        | 2,496           |
| <b>Total</b>                       | <b>GWh</b>           | <b>334</b>       | <b>324</b>     | <b>1,965</b>    | <b>506</b>      | <b>32</b>       | <b>0</b>          | <b>42</b>       | <b>13</b>     | <b>25</b>        | <b>20</b>       | <b>36</b>       | <b>3,129</b>              | <b>169</b>                 | <b>3,298</b>    |
| <b>Fuels</b>                       |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| Biofuel                            | TJ                   | 5,815            | 4,244          | 2,644           | 12,997          | 551             | 61                | 646             | 195           | 441              | 201             | 0               | 25,699                    | 2,095                      | 27,794          |
| Fossil fuel                        | TJ                   | 266              | 341            | 257             | 163             | 2               | 1                 | 28              | 0             | 21               | 10              | 0               | 1,026                     | 62                         | 1,088           |
| Electric boiler and hood           | TJ                   | 52               | 0              | 184             | 0               | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 235                       | 0                          | 235             |
| <b>Total</b>                       | <b>TJ</b>            | <b>6,132</b>     | <b>4,585</b>   | <b>3,084</b>    | <b>13,159</b>   | <b>553</b>      | <b>62</b>         | <b>674</b>      | <b>195</b>    | <b>462</b>       | <b>211</b>      | <b>0</b>        | <b>26,961</b>             | <b>2,157</b>               | <b>29,117</b>   |
| of which co-gen.                   | TJ                   | 645              | 526            | 257             | 1,949           | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 3,377                     | 0                          | 3,377           |
| <b>Discharges</b>                  |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| <b>To air</b>                      |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| NO <sub>x</sub> as NO <sub>2</sub> | tons                 | 387              | 263            | 187             | 753             | 0.2             | 6                 | 62              | 20            | 6                | 14              | 0               | 1,589                     | 109                        | 1,698           |
| SO <sub>x</sub>                    | tons                 | 89               | 36             | 39              | 97              | 0               | 0                 | 0.6             | 0             | 5                | 0.2             | 0               | 261                       | 6                          | 267             |
| Dust                               | tons                 | 26               | 25             | 30              | 51              | 41              | 0                 | 0.9             | 0             | 0.2              | 0               | 0               | 132                       | 42                         | 175             |
| CO <sub>2</sub> fossil             | kton                 | 21               | 27             | 18              | 13              | 0               | 0                 | 2               | 0             | 2                | 0.7             | 0               | 78                        | 5                          | 83              |
| CO <sub>2</sub> electricity        | kton                 | 3                | 3              | 26              | 0.5             | 0.4             | 0                 | 0.6             | 0.2           | 0.3              | 0.3             | 0.5             | 31                        | 2                          | 33              |
| CO <sub>2</sub> bio                | kton                 | 604              | 453            | 293             | 1,174           | 53              | 6                 | 62              | 0             | 42               | 19              | 0               | 2,524                     | 182                        | 2,706           |
| <b>To water</b>                    |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| COD                                | tons                 | 3,344            | 1,258          | 4,326           | 6,334           | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 15,262                    | 0                          | 15,262          |
| BOD                                | tons                 | 588              | 130            | 89              | 765             | 0               | 0                 | 71              | 0             | 0                | 36              | 0               | 1,572                     | 107                        | 1,678           |
| Suspended solids                   | tons                 | 1,529            | 453            | 120             | 750             | 1               | 0                 | 0               | 0             | 0                | 0               | 0               | 2,852                     | 1                          | 2,853           |
| AOX                                | tons                 | 2                | 2              | 2               | 5               | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 10                        | 0                          | 10              |
| P                                  | tons                 | 12               | 11             | 3               | 14              | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 40                        | 0                          | 40              |
| N                                  | tons                 | 95               | 77             | 76              | 139             | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 387                       | 0                          | 387             |
| Effluent water                     | Mm <sup>3</sup>      | 11               | 5              | 13              | 16              | 0               | 0                 | 0               | 0             | 0                | 0               | 0               | 45                        | 0                          | 45              |
| <b>Solid waste</b>                 |                      |                  |                |                 |                 |                 |                   |                 |               |                  |                 |                 |                           |                            |                 |
| Landfill                           | tons                 | 2,348            | 228            | 561             | 0               | 0               | 0                 | 2,769           | 0             | 0                | 5,117           | 0               | 3,137                     | 7,887                      | 11,024          |
| Recovery                           | tons                 | 10,908           | 34,227         | 29,043          | 45,280          | 24              | 531               | 75              | 459           | 0                | 1,332           | 28              | 119,457                   | 2,448                      | 121,905         |
| Hazardous                          | tons                 | 234              | 82             | 350             | 356             | 0               | 3                 | 55              | 9             | 9                | 57              | 30              | 1,023                     | 164                        | 1,187           |

# Social data

|                                                                    | 2015                           | 2014                         | 2013                                    | 2012                       | 2011                    |
|--------------------------------------------------------------------|--------------------------------|------------------------------|-----------------------------------------|----------------------------|-------------------------|
| Average number of employees                                        | 44,000 <sup>1)</sup>           | 44,247 <sup>1)</sup>         | 34,004                                  | 33,775                     | 43,697                  |
| of whom female, %                                                  | 31                             | 32                           | 28                                      | 29                         | 27                      |
| Employees leaving the company                                      | 5,600                          | 5,949                        | 5,143                                   | 3,993                      | 5,207                   |
| Employees joining the company                                      | 5,988                          | 5,109                        | 4,426                                   | 6,344                      | 4,809                   |
| Employee turnover, %                                               | 13                             | 17                           | 15                                      | 12                         | 12                      |
| Age distribution, %                                                |                                |                              |                                         |                            |                         |
| –20 years                                                          | 1                              | 2                            | 2                                       | 2                          | 2                       |
| 21–30 years                                                        | 23                             | 19                           | 18                                      | 17                         | 18                      |
| 31–40 years                                                        | 31                             | 29                           | 28                                      | 28                         | 27                      |
| 41–50 years                                                        | 26                             | 28                           | 29                                      | 30                         | 30                      |
| 51–60 years                                                        | 16                             | 19                           | 30                                      | 21                         | 20                      |
| 60+ years                                                          | 3                              | 3                            | 3                                       | 2                          | 3                       |
| Academic degree or similar                                         | 22                             | 20                           | 18                                      | 18                         | 14                      |
| Competence development, hours per employee                         | 25                             | 22                           | 20                                      | 17                         | 19                      |
| <b>Diversity</b>                                                   |                                |                              |                                         |                            |                         |
| Women, of total number of Board members and senior executives, %   | 35                             | 21                           | 21                                      | 21                         | 18                      |
| Nationalities, senior management <sup>2)</sup> , number            | 24                             | 25                           | 18                                      | 23                         | 14                      |
| Nationalities, senior and middle management <sup>2)</sup> , number | 42                             | 39                           | 41                                      | 39                         | 44                      |
| Female managers, senior management <sup>2)</sup> , %               | 28                             | 25                           | 24                                      | 23                         | 17                      |
| Female managers, senior and middle management <sup>2)</sup> , %    | 29                             | 29                           | 25                                      | 29                         | 21                      |
| Local hiring of senior and middle management, %                    | 83                             | 78                           | 83                                      | 81                         |                         |
| <b>Health and Safety<sup>3)</sup></b>                              |                                |                              |                                         |                            |                         |
| Average headcount                                                  | 28,001                         | 28,067                       | 28,233                                  | 27,172                     | 27,465                  |
| Lost Time Accidents, LTA                                           | 360                            | 375                          | 461                                     | 520                        | 459                     |
| Contractor Lost Time Accidents, CLTA                               | 76                             | 51                           | 57                                      | N/A                        | N/A                     |
| Days Lost due to Accidents, DLA                                    | 7,545                          | 6,546                        | 7,984                                   | 8,876                      | 9,893                   |
| Accident Severity Rate, ASR                                        | 21.0                           | 17.5                         | 17.3                                    | 17.1                       | 21.6                    |
| Frequency Rate, FR (LTA/1,000,000 working hours)                   | 6.3                            | 6.7                          | 8.5                                     | 10.0                       | 9.1                     |
| Incident Rate, IR (LTA/200,000 working hours)                      | 1.3                            | 1.3                          | 1.7                                     | 2.0                        | 1.8                     |
| Fatalities                                                         | 0                              | 0                            | 0                                       | 1                          | 1                       |
| Main sites <sup>4)</sup> certified according to OHSAS 18001, %     | 68 <sup>5)</sup>               | 52                           | 46                                      | 31                         | 28                      |
| <b>Code of Conduct</b>                                             |                                |                              |                                         |                            |                         |
| Business Practice Reviews                                          | Mexico, Poland, Russia, Taiwan | Brazil                       | Czech Republic, South Korea, Spain      | Hungary, Malaysia          | Central America, Greece |
| Code of Conduct audits                                             | Mexico, Sweden, US, UK         | China, Russia, Spain, Turkey | Chile, France, Mexico, Slovakia, Taiwan | Russia, US, Sweden, Poland | Malaysia, Russia        |

<sup>1)</sup> Including Vinda.

<sup>2)</sup> Senior management comprises the highest level of management below the Executive Management Team.

The number varies over time due to organizational changes and consists of 110–150 managers. Middle management consists of 750–1,000 managers.

<sup>3)</sup> Data for 2011, 2012, 2013 and 2014 is recalculated for acquisitions and divestments. 100% coverage for production and logistics and excluding sales offices and administration.

<sup>4)</sup> Main sites are defined as wholly owned by SCA with 100 or more employees.

<sup>5)</sup> Ten main sites were certified under OHSAS during 2015.

# About the report

This report describes SCA's sustainability initiatives from an environmental, social and financial perspective. SCA publishes a sustainability report each year.

The Sustainability Report and the Annual Report should be viewed as a single unit in which information may be provided in either report or, where appropriate, in both. Corporate governance is an example of a subject that is referred to briefly in the Sustainability Report and a more detailed description is provided in the Annual Report's corporate governance section.

## Reporting principles

The environmental and social data reported pertains to the 2015 calendar year. The figures included comply with relevant reporting and consolidation principles in accordance with the principles in the financial statements. The figures cover the SCA Group's wholly owned subsidiaries and subsidiaries in which SCA owns at least 50% of the company. If SCA's ownership of a company is 50% or more, the entire company is included. An exception is made in the case of the Chinese company Vinda, in which SCA owns 51.4% of the votes and which was consolidated as a subsidiary in 2014. The data from Vinda includes the number of employees, their age and gender distribution. Vinda publishes an environmental, social and governance (ESG) report, which is available at [www.vinda.com](http://www.vinda.com).

Some social data from joint ventures is not included. Code of Conduct data is one example, due to the fact that SCA and its joint ventures do not share a common code. The Colombian Familia Group, which is SCA's largest joint-venture company (refer to Note F1 in the SCA Annual Report), reports in accordance with the GRI G4 guidelines. For more information, visit [www.grupofamilia.com.co](http://www.grupofamilia.com.co).

Newly acquired businesses are integrated when they have been part of the Group for one calendar year. The historic environmental and social data of newly acquired units is included to the greatest possible extent in order to increase comparability (also refer to the section on comparability below). The data from divested units is excluded in its entirety as of the divestment date. Historic data for discontinued units is used.

When adjustments have been made compared with earlier reports, a note is appended directly beside the text or table. A main site is a production facility that is wholly owned by SCA and that has 100 or more employees.

## Data collection

Data provided in the report is compiled through various systems, primarily the Group's ABS accounting system, Resource Management System (RMS) and SCA's system for collection of social data.

## Environmental data

The RMS encompasses more than 80 production sites, covering virtually the entire company's environmental impact and resource utilization from production. It includes data from manufacturing operations but not from corporate staffs, offices or joint ventures. Data from stand-alone tissue converting sites is included in the main mother reel supplying site. Each unit reports the following data to the system:

- raw material consumption
- incoming and outgoing shipments
- production volumes
- energy consumption broken down by hydroelectric power, co-generation and power from the grid
- fuel consumption broken down by biofuels, fossil fuels and electric boilers
- air emissions, including data on fossil and biogenic carbon dioxide
- water emissions
- solid waste

The data is reported both internally and externally at the mill level, business unit level and for the Group as a whole.

## Social, Occupational Health & Safety (OHS) and Human Resource (HR) data

Data is provided from different internal systems and tools depending on the nature of the data. HR data resides in SCA's HR system and other qualitative data is collected in SCA's database for social data.

## Comparability

Certain data is adjusted retroactively to facilitate comparisons. Figures for the preceding year are available in previous publications of SCA's Sustainability Reports. This applies for example to data encompassed by SCA's sustainability targets, such as CO<sub>2</sub> and health and safety.

The results of the Group's CO<sub>2</sub> target and water target are adjusted each year in relation to production levels. Other environmental data is reported in absolute figures.

## UNGP

This is the first year this report has applied the reporting framework for the United Nations Guiding Principles on Business and Human Rights (UNGPs) and SCA has reported on the overarching aspects contained in the framework.

## GRI reporting

For the eighth consecutive year, SCA has prepared its report in accordance with Global Reporting Initiative (GRI) guidelines. The 2015 report adheres to GRI G4 guidelines at Core level. Accordingly, the Report has been structured in accordance with GRI principles, meaning that the content is determined by the issues that are most material to SCA and its stakeholders, and that the content provides a complete overview of the operations. With a few exceptions, SCA reports in accordance with all GRI indicators and on a level identified as material. The identification of specific standard disclosure GRI aspects to report has been matched with SCA's materiality analysis on page 37. Any omissions or incomplete data are either commented on directly in the GRI index on pages 67–69 or on this page.

The entire Sustainability Report has been reviewed by PwC. The report is aimed at specialist audiences with an interest in SCA's sustainability performance, including analysts, investors and NGOs. More detailed information about SCA's work on environmental and social issues is available at [www.sca.com](http://www.sca.com).

# Independent Auditor's Combined Assurance Report on the Sustainability Report

## To Svenska Cellulosa Aktiebolaget SCA (publ)

### Introduction

We have been engaged by the management of Svenska Cellulosa Aktiebolaget SCA (publ) to undertake an examination of SCA's Sustainability Report for the year 2015.

### Responsibilities of the Board and Management for the Sustainability Report

The Board of Directors and Group Management are responsible for the preparation of the Sustainability Report in accordance with the applicable criteria, as explained on page 65 in the Sustainability Report, and are the parts of the Sustainability Reporting Guidelines (published by The Global Reporting Initiative, GRI) which are applicable to the Sustainability Report, as well as the accounting and calculation principles that the Company has developed. This responsibility includes the internal control relevant to the preparation of a Sustainability Report that is free from material misstatements, whether due to fraud or error.

### Responsibilities of the auditor

Our responsibility is to express a conclusion on the Sustainability Report based on the procedures we have performed. We conducted our engagement in accordance with RevR 6 Assurance of Sustainability Reports issued by FAR. The engagement includes a limited assurance engagement on the complete Sustainability Report and audit of environmental data – fossil fuels and grid supply – on page 58.

The objective of an audit is to obtain reasonable assurance that the information is free of material misstatements. A reasonable assur-

ance engagement includes examining, on a test basis, evidence supporting the quantitative and qualitative information in the Sustainability Report. A limited assurance engagement consists of making inquiries, primarily of persons responsible for the preparation of the Sustainability Report, and applying analytical and other limited assurance procedures. The procedures performed in a limited assurance engagement vary in nature from, and are less in extent than for, a reasonable assurance engagement conducted in accordance with IAASB's Standards on Auditing and other generally accepted auditing standards in Sweden. Hence, the conclusion based on our limited assurance procedures does not comprise the same level of assurance as the conclusion of our reasonable assurance procedures. Since this engagement is combined, our conclusions regarding reasonable assurance and limited assurance are presented separately below.

The firm applies ISQC 1 (International Standard on Quality Control) and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our procedures are based on the criteria defined by the Board of Directors and the Group Management as described above. We consider these criteria suitable for the preparation of the Sustainability Report.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion below.

### Conclusions

Based on the limited assurance procedures we have performed, nothing has come to our attention that causes us to believe that the Sustainability Report is not prepared, in all material respects, in accordance with the criteria defined by the Board of Directors and Group Management.

In our opinion the information in the Sustainability Report which has been subject to our reasonable assurance procedures have, in all material respects, been prepared in accordance with the criteria defined by the Board of Directors and Group Management.

Stockholm, March 21, 2016

PricewaterhouseCoopers AB

Mikael Eriksson  
Authorized Public Accountant  
Auditor in charge

Fredrik Ljungdahl  
Expert member of the Swedish Institute of  
Authorized Public Accountants (FAR)

# GRI index

SCA's 2015 Sustainability Report adheres to Global Reporting Initiative guidelines, G4 Core. The following index shows where information on the GRI indicators can be found: this Sustainability Report (SR), the Annual Report (AR), or SCA's Group website ([sca.com/GRI](http://sca.com/GRI)), which contains the corresponding GRI index with direct links. This is the eighth report in which SCA applies GRI guidelines, which has been confirmed by PwC.

## General Standard Disclosures

|                                                     | Description                                                                                            | Page                                                | Comment/Omission |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------|
| <b>Strategy &amp; Analysis</b>                      |                                                                                                        |                                                     |                  |
| <b>G4-1</b>                                         | Statement from the CEO and the Board of Directors                                                      | SR 4-5                                              |                  |
| <b>Organizational Profile</b>                       |                                                                                                        |                                                     |                  |
| <b>G4-3</b>                                         | Name of the organization                                                                               | SR 72                                               |                  |
| <b>G4-4</b>                                         | Primary brands, products, and services                                                                 | AR 2, 24-25                                         |                  |
| <b>G4-5</b>                                         | Location of headquarters                                                                               | SR 72                                               |                  |
| <b>G4-6</b>                                         | Countries in which operations are located                                                              | AR 116                                              |                  |
| <b>G4-7</b>                                         | Nature of ownership and legal form                                                                     | AR 36                                               |                  |
| <b>G4-8</b>                                         | Markets served                                                                                         | AR 52, 58, 63-64                                    |                  |
| <b>G4-9</b>                                         | Scale of the reporting organization                                                                    | SR 2-3, AR 2-3                                      |                  |
| <b>G4-10</b>                                        | Breakdown of workforce                                                                                 | SR 64                                               |                  |
| <b>G4-11</b>                                        | Coverage of collective bargaining agreements                                                           | SR 48                                               |                  |
| <b>G4-12</b>                                        | Description of supply chain                                                                            | SR 38, 44                                           |                  |
| <b>G4-13</b>                                        | Significant changes during the reporting period                                                        | AR 42-43                                            |                  |
| <b>G4-14</b>                                        | Addressing the precautionary approach or principle                                                     | SR 41, 49, AR 76                                    |                  |
| <b>G4-15</b>                                        | External charters, principles or initiatives endorsed                                                  | SR 3                                                |                  |
| <b>G4-16</b>                                        | Memberships in associations                                                                            | SR 3                                                |                  |
| <b>Identified Material Aspects &amp; Boundaries</b> |                                                                                                        |                                                     |                  |
| <b>G4-17</b>                                        | Report coverage of the entities in the consolidated financial statements                               | SR 65                                               |                  |
| <b>G4-18</b>                                        | Process for defining the report content and the aspect boundaries                                      | SR 37                                               |                  |
| <b>G4-19</b>                                        | Material aspects identified                                                                            | SR 37, 6-7                                          |                  |
| <b>G4-20</b>                                        | Aspect boundary within the organisation                                                                | SR 65, <a href="http://sca.com/GRI">sca.com/GRI</a> |                  |
| <b>G4-21</b>                                        | Aspect boundary outside the organisation                                                               | SR 65, <a href="http://sca.com/GRI">sca.com/GRI</a> |                  |
| <b>G4-22</b>                                        | The effect of restatements of information provided in previous reports                                 | SR 65                                               |                  |
| <b>G4-23</b>                                        | Significant changes in the scope and aspect boundaries from previous report                            | SR 65                                               |                  |
| <b>Stakeholder Engagement</b>                       |                                                                                                        |                                                     |                  |
| <b>G4-24</b>                                        | List of stakeholder groups engaged                                                                     | SR 36                                               |                  |
| <b>G4-25</b>                                        | Identification and selection of stakeholders                                                           | SR 6, 35                                            |                  |
| <b>G4-26</b>                                        | Approaches to stakeholder engagement                                                                   | SR 35                                               |                  |
| <b>G4-27</b>                                        | Response to key topics and concerns raised                                                             | SR 35-36                                            |                  |
| <b>Report Profile</b>                               |                                                                                                        |                                                     |                  |
| <b>G4-28</b>                                        | Reporting period                                                                                       | SR 65                                               |                  |
| <b>G4-29</b>                                        | Date of most recent previous report                                                                    | SR 65                                               | March 2015.      |
| <b>G4-30</b>                                        | Reporting cycle                                                                                        | SR 65                                               |                  |
| <b>G4-31</b>                                        | Contact point for questions                                                                            | SR 72                                               |                  |
| <b>G4-32</b>                                        | 'In accordance' option chosen                                                                          | SR 65                                               |                  |
| <b>G4-33</b>                                        | Policy and current practice regarding external assurance                                               | SR 65                                               |                  |
| <b>Governance</b>                                   |                                                                                                        |                                                     |                  |
| <b>G4-34</b>                                        | Governance structure                                                                                   | SR 54-55, AR 66-67                                  |                  |
| <b>G4-35</b>                                        | The process for delegating authority for sustainability topics                                         | SR 54, AR 67                                        |                  |
| <b>G4-36</b>                                        | Executive-level positions with responsibility for sustainability topics                                | SR 54                                               |                  |
| <b>G4-37</b>                                        | Processes for consultation between stakeholders and the highest governance body                        | SR 35, AR 66                                        |                  |
| <b>G4-38</b>                                        | Composition of the highest governance body and its committees                                          | AR 66-69, 72-73                                     |                  |
| <b>G4-39</b>                                        | Position of the chair of the board of directors                                                        | AR 66, 72                                           |                  |
| <b>G4-40</b>                                        | Nomination and selection processes for the highest governance body and its committees                  | AR 68                                               |                  |
| <b>G4-41</b>                                        | Report processes for the highest governance body to ensure conflict of interest is avoided and managed | AR 68                                               |                  |
| <b>G4-42</b>                                        | Highest governance body's role in setting purpose, values, and strategy                                | SR 54, AR 66-67                                     |                  |
| <b>Ethics &amp; Integrity</b>                       |                                                                                                        |                                                     |                  |
| <b>G4-56</b>                                        | Values, principles, standards, code of conduct and code of ethics                                      | SR 20, 42                                           |                  |

| Material Aspects                                 | DMA* and indicator | Description                                                                                                   | Page                  | Comment/Omission                                                                                                                                                      | Topic in SCA's Materiality Analysis                  |
|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Equal Remuneration for Women and Men             | G4-DMA             | DMA                                                                                                           | SR 38, 46             |                                                                                                                                                                       | Human capital                                        |
|                                                  | G4-LA13            | Ratio of basic salary and remuneration of women to men                                                        | SR 38                 | The calculation is based on average salaries in the four career levels with the highest number of permanent employees. Deviations exist within career levels.         |                                                      |
| Supplier Assessment for Labor Practices          | G4-DMA             | DMA                                                                                                           | SR 18, 38             |                                                                                                                                                                       | Supply-chain efficiency                              |
|                                                  | G4-LA14            | Percentage of new suppliers that were screened using labor practices criteria                                 | SR 44                 | SCA's global supplier base must commit to the SCA Global Supplier Standard. New suppliers are audited relative to this standard by SCA staff or third-party auditors. |                                                      |
|                                                  | G4-LA15            | Significant actual and potential negative impacts for labor practices in the supply chain and actions taken   | SR 44                 |                                                                                                                                                                       |                                                      |
| Labor Practices<br>Grievance Mechanisms          | G4-DMA             | DMA                                                                                                           | SR 20, 42             |                                                                                                                                                                       | Business ethics                                      |
|                                                  | G4-LA16            | Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms | SR 42                 |                                                                                                                                                                       | Transparency                                         |
| Human Rights                                     |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Investment                                       | G4-DMA             | DMA                                                                                                           | SR 42–45, AR 78       |                                                                                                                                                                       | Business ethics<br>Transparency                      |
|                                                  | G4-HR1             | Human rights screening or clauses included in significant investment agreements                               | SR 44–45              | No significant investments/acquisitions were made in 2015.                                                                                                            |                                                      |
|                                                  | G4-HR2             | Employee training on human rights                                                                             | SR 42                 | SCA measures Code of Conduct training, including in the area of human rights, as a percentage of total SCA staff who receive training.                                |                                                      |
| Non-discrimination                               | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR3             | Actions taken in incidents of discrimination                                                                  | SR 42                 |                                                                                                                                                                       | Transparency                                         |
| Freedom of Association and Collective Bargaining | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR4             | Supporting right to freedom of association and collective bargaining agreement in risk areas                  | SR 44, 48             | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             | Transparency                                         |
| Child Labor                                      | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR5             | Measures taken to eliminate child labor in risk areas                                                         | SR 21, 42–44          | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             | Transparency                                         |
| Forced or Compulsory Labor                       | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR6             | Measures taken to eliminate forced or compulsory labor in risk areas                                          | SR 21, 42–44          | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             | Transparency<br>Human Rights<br>Grievance Mechanisms |
| Indigenous Rights                                | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR8             | Violations of indigenous people's rights and actions taken                                                    | SR 51–52              |                                                                                                                                                                       | Transparency<br>Human Rights                         |
| Supplier Human Rights Assessment                 | G4-DMA             | DMA                                                                                                           | SR 42, sca.com/GRI    | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-HR10            | Percentage of new suppliers that were screened using human rights criteria                                    | SR 44–45              |                                                                                                                                                                       | Transparency                                         |
|                                                  | G4-HR11            | Significant actual and potential negative human rights impacts in the supply chain                            | SR 44–45              |                                                                                                                                                                       | Human Rights                                         |
| Human Rights<br>Grievance Mechanisms             | G4-DMA             | DMA                                                                                                           | SR 43                 |                                                                                                                                                                       | Business ethics                                      |
|                                                  | G4-HR12            | Grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms      | SR 42                 |                                                                                                                                                                       | Transparency                                         |
| Society                                          |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Anti-Corruption                                  | G4-DMA             | DMA                                                                                                           | SR 43, AR 12          | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-SO3             | Operations assessed for risks related to corruption and the significant risks identified                      | SR 42–43              |                                                                                                                                                                       |                                                      |
|                                                  | G4-SO5             | Actions taken in response to confirmed incidents of corruption                                                | SR 42                 | In addition to internal incidents, no agreements with global suppliers were terminated due to sustainability-related non-compliance in 2015.                          |                                                      |
| Anti-competitive Behavior                        | G4-DMA             | DMA                                                                                                           | SR 42, sca.com/GRI    | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics                                      |
|                                                  | G4-SO7             | Anti-trust and monopoly court cases                                                                           | SR 43                 |                                                                                                                                                                       | Transparency                                         |
| Grievance Mechanisms for Impacts on Society      | G4-DMA             | DMA                                                                                                           | SR 42, 53             |                                                                                                                                                                       | Business ethics                                      |
|                                                  | G4-SO11            | Grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms        | SR 42                 |                                                                                                                                                                       | Transparency                                         |
| Product Responsibility                           |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Customer Health and Safety                       | G4-DMA             | DMA                                                                                                           | SR 40–41              |                                                                                                                                                                       | Product safety                                       |
|                                                  | G4-PR1             | Assessment of health and safety impact of products                                                            | SR 41                 |                                                                                                                                                                       |                                                      |
| Product and Service Labeling                     | G4-DMA             | DMA                                                                                                           | SR 39–41              |                                                                                                                                                                       | Customer and                                         |
|                                                  | G4-PR3             | Product information required by procedures                                                                    | SR 41                 |                                                                                                                                                                       | consumer satisfaction                                |
|                                                  | G4-PR5             | Results of surveys measuring customer satisfaction                                                            | SR 40                 |                                                                                                                                                                       | Product safety                                       |

\* Disclosure on Management Approach

| Material Aspects                                 | DMA* and indicator | Description                                                                                                   | Page                  | Comment/Omission                                                                                                                                                      | Topic in SCA's Materiality Analysis                  |
|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Equal Remuneration for Women and Men             | G4-DMA             | DMA                                                                                                           | SR 38, 46             |                                                                                                                                                                       | Human capital                                        |
|                                                  | G4-LA13            | Ratio of basic salary and remuneration of women to men                                                        | SR 38                 | The calculation is based on average salaries in the four career levels with the highest number of permanent employees. Deviations exist within career levels.         |                                                      |
| Supplier Assessment for Labor Practices          | G4-DMA             | DMA                                                                                                           | SR 18, 38             |                                                                                                                                                                       | Supply-chain efficiency                              |
|                                                  | G4-LA14            | Percentage of new suppliers that were screened using labor practices criteria                                 | SR 44                 | SCA's global supplier base must commit to the SCA Global Supplier Standard. New suppliers are audited relative to this standard by SCA staff or third-party auditors. |                                                      |
|                                                  | G4-LA15            | Significant actual and potential negative impacts for labor practices in the supply chain and actions taken   | SR 44                 |                                                                                                                                                                       |                                                      |
| Labor Practices<br>Grievance Mechanisms          | G4-DMA             | DMA                                                                                                           | SR 20, 42             |                                                                                                                                                                       | Business ethics                                      |
|                                                  | G4-LA16            | Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms | SR 42                 |                                                                                                                                                                       | Transparency                                         |
| Human Rights                                     |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Investment                                       | G4-DMA             | DMA                                                                                                           | SR 42–45, AR 78       |                                                                                                                                                                       | Business ethics<br>Transparency                      |
|                                                  | G4-HR1             | Human rights screening or clauses included in significant investment agreements                               | SR 44–45              | No significant investments/acquisitions were made in 2015.                                                                                                            |                                                      |
|                                                  | G4-HR2             | Employee training on human rights                                                                             | SR 42                 | SCA measures Code of Conduct training, including in the area of human rights, as a percentage of total SCA staff who receive training.                                |                                                      |
| Non-discrimination                               | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-HR3             | Actions taken in incidents of discrimination                                                                  | SR 42                 |                                                                                                                                                                       |                                                      |
| Freedom of Association and Collective Bargaining | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-HR4             | Supporting right to freedom of association and collective bargaining agreement in risk areas                  | SR 44, 48             | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             |                                                      |
| Child Labor                                      | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-HR5             | Measures taken to eliminate child labor in risk areas                                                         | SR 21, 42–44          | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             |                                                      |
| Forced or Compulsory Labor                       | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-HR6             | Measures taken to eliminate forced or compulsory labor in risk areas                                          | SR 21, 42–44          | No SCA sites were identified as high-risk sites by Sedex.                                                                                                             |                                                      |
| Indigenous Rights                                | G4-DMA             | DMA                                                                                                           | SR 42–43, sca.com/GRI | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency<br>Human Rights      |
|                                                  | G4-HR8             | Violations of indigenous people's rights and actions taken                                                    | SR 51–52              |                                                                                                                                                                       |                                                      |
| Supplier Human Rights Assessment                 | G4-DMA             | DMA                                                                                                           | SR 42, sca.com/GRI    | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency<br>Human Rights      |
|                                                  | G4-HR10            | Percentage of new suppliers that were screened using human rights criteria                                    | SR 44–45              |                                                                                                                                                                       |                                                      |
|                                                  | G4-HR11            | Significant actual and potential negative human rights impacts in the supply chain                            | SR 44–45              |                                                                                                                                                                       |                                                      |
| Human Rights<br>Grievance Mechanisms             | G4-DMA             | DMA                                                                                                           | SR 43                 |                                                                                                                                                                       | Business ethics<br>Transparency<br>Human Rights      |
|                                                  | G4-HR12            | Grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms      | SR 42                 |                                                                                                                                                                       |                                                      |
| Society                                          |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Anti-Corruption                                  | G4-DMA             | DMA                                                                                                           | SR 43, AR 12          | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-SO3             | Operations assessed for risks related to corruption and the significant risks identified                      | SR 42–43              |                                                                                                                                                                       |                                                      |
|                                                  | G4-SO5             | Actions taken in response to confirmed incidents of corruption                                                | SR 42                 | In addition to internal incidents, no agreements with global suppliers were terminated due to sustainability-related non-compliance in 2015.                          |                                                      |
| Anti-competitive Behavior                        | G4-DMA             | DMA                                                                                                           | SR 42, sca.com/GRI    | Included in SCA's Code of Conduct.                                                                                                                                    | Business ethics<br>Transparency                      |
|                                                  | G4-SO7             | Anti-trust and monopoly court cases                                                                           | SR 43                 |                                                                                                                                                                       |                                                      |
| Grievance Mechanisms for Impacts on Society      | G4-DMA             | DMA                                                                                                           | SR 42, 53             |                                                                                                                                                                       | Business ethics<br>Transparency                      |
|                                                  | G4-SO11            | Grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms        | SR 42                 |                                                                                                                                                                       |                                                      |
| Product Responsibility                           |                    |                                                                                                               |                       |                                                                                                                                                                       |                                                      |
| Customer Health and Safety                       | G4-DMA             | DMA                                                                                                           | SR 40–41              |                                                                                                                                                                       | Product safety                                       |
|                                                  | G4-PR1             | Assessment of health and safety impact of products                                                            | SR 41                 |                                                                                                                                                                       |                                                      |
| Product and Service Labeling                     | G4-DMA             | DMA                                                                                                           | SR 39–41              |                                                                                                                                                                       | Customer and consumer satisfaction<br>Product safety |
|                                                  | G4-PR3             | Product information required by procedures                                                                    | SR 41                 |                                                                                                                                                                       |                                                      |
|                                                  | G4-PR5             | Results of surveys measuring customer satisfaction                                                            | SR 40                 |                                                                                                                                                                       |                                                      |

\* Disclosure on Management Approach

# Glossary

**Anaerobic treatment** Anaerobic wastewater treatment uses biological agents in an oxygen-free environment to remove impurities from wastewater.

**AOX, Absorbable organic halogens** Expresses the amount of chlorine-bound organic substances. Some of these substances accumulate in fish and fish-eating birds.

**ASR (Accident Severity Rate)** The severity of accidents defined as the number of days lost due to accidents (DLA) in relation to the number of lost time accidents (LTA). Refer also to FR, IR and Lost Time Accidents (LTA).

**BAT, Best Available Technology** Officially used terminology to describe the state-of-the-art technology that industry should use in the field of activity concerned (see IED directive and BREF).

**Biodiversity** A term describing the multitude of life forms and species (flora and fauna) in an ecosystem. An ecosystem is a biological community living in a particular physical environment.

**Biofuel** Renewable fuel from wood and process residues.

**BOD, Biochemical oxygen demand** Water emission factor which describes the amount of oxygen consumed during biodegradation of dissolved organic matter in effluent water, without describing the specific substances present. High BOD values indicate depletion of the normal oxygen content of the water environment. It is measured over seven days in SCA's Swedish mills and five days in the rest of Europe, in accordance with national legislative systems.

**BREF** Best Available Technology Reference Document. This document identifies BAT (Best Available Technology) for a number of sectors selected by the EU, including the pulp and paper industry.

**Bribery** Is the giving or receiving of any undue reward by or to any person to influence their behavior in a manner contrary to the principles of honesty and integrity.

**Carbon sink** As they grow, forests transform gaseous carbon into solid form, thereby absorbing CO<sub>2</sub> whilst simultaneously producing oxygen. Forests, agricultural land and the world's oceans are considered to be "carbon sinks" by current science.

**Chain-of-Custody** The traceability of the origins of a product through all its transformations from raw material to finished product. In the SCA context, Chain-of-Custody certification links SCA's products with its FSC- and PEFC-certified forests.

**Chemical pulp** Pulp from wood fibers processed chemically, normally by cooking.

**Chemical Thermo Mechanical Pulp, CTMP** A high-yield pulp (about 90–95% yield from the wood) which is obtained by heating and then grinding chemically pretreated spruce chips in refining machinery.

**Child Labor** Refers to the employment of workers who do not meet the applicable national minimum legal age requirement.

**CHP** See Co-generation or Combined Heat and Power.

**Climate Change** Also defined as global warming. Human activity contributes to the warming of the global environment and its resulting effects, which range from higher temperatures to eccentric weather patterns and melting of the ice caps.

**CO<sub>2</sub> biogenic** The carbon dioxide derived from combustion of biofuel. It is calculated from the carbon content of wood.

**CO<sub>2</sub>, Carbon dioxide** A gaseous compound emitted naturally through geological activity during the decomposition process and through human activity. Industry and transport and heating/cooling are currently the largest emitters of CO<sub>2</sub>.

**CO<sub>2</sub> fossil** The carbon dioxide derived from combustion of fossil fuels. It is calculated from the carbon content of each fuel.

**COD, Chemical oxygen demand** Water emission factor which describes the amount of oxygen consumed when dissolved matter in effluent water oxidizes. High COD values can indicate a risk of depletion of the normal oxygen content in the water environment.

**Code of Conduct** Is a formal statement of the values and business practices of a company. A code is a statement of minimum standards, together with a pledge by the company to observe them and to also require its contractors, subcontractors and suppliers, to observe them.

**Co-generation or Combined Heat and Power,**

**CHP** Combined production of electricity and thermal energy. Co-generation has a high total efficiency.

**Consumer waste** Waste generated after a product has been used, for example, used diapers, feminine care products and tissue.

**Dust** Particles in the flue gas created during combustion.

**Effluent water** Water discharged to water courses after treatment.

**Electric boiler** Electricity supplied for thermal heat (production), for boilers and heat pumps, measured at the site and converted into GJ.

**Environmental Management System** The part of the overall management system which includes the structure, practices, procedures and resources for the systematic implementation of the organization's own environmental policy.

**EPD, Environmental Product Declaration** Quantified environmental data for a product with pre-set categories of parameters based on the ISO 14040 series of standards but not excluding additional environmental information.

**ESAVE** Structured energy-saving program introduced by SCA in its energy-intensive manufacturing units in 2003. Its aim is to substantially reduce the consumption of energy in production units.

**ETS, Emission Trading Scheme (or System)** Greenhouse gas emission allowance trading scheme for the cost-effective reduction of such emissions in the European Union.

**Forced labor** This includes indentured, debt bondage or involuntary labor of any kind.

**Fossil fuel** Coal, fuel oil and natural gas.

**Freedom of Association** Refers to the right of employees to lawfully join associations of their own choosing, peacefully associate, organize or bargain collectively.

**FR, Frequency Rate** The number of accidents/incidents per million hours worked.

**Fresh wood fiber** Also referred to as virgin fiber. First generation use of raw material derived from wood.

**FSC®, Forest Stewardship Council** An international organization promoting responsible forest management. FSC has developed principles for forest management used for certifying the management of forest holdings, and a system of tracing, verifying and labelling timber and wood products based on FSC-certified forests. SCA is an active supporter of FSC.

**FSC's standard for Controlled Wood** This standard makes it possible for producers to mix FSC-certified material with uncertified material under controlled conditions. The traceability standard comprises strict rules on how and to what extent mixing may take place. The uncertified material is required to come from controlled and acceptable sources.

**Grid supply** The electricity supplied from the national grid.

**GWh Gigawatt hours** Unit of energy measurement (electricity and heat). 1 GWh=1 million kWh.

**Hazardous waste** Material disposed of by authorized contractors, as defined by national laws.

**Human Rights** Are based on the recognition of the inherent dignity and the equal and inalienable rights of all members of the human family, and are the foundation of freedom, justice, and peace in the world. They are defined in the Universal Declaration of Human Rights (1948).

**IED (Industry Emissions Directive)** The EU Directive on integrated pollution prevention and control.

**Incidence Rate, IR** Number of incidents per 200,000 working hours.

**Inorganic material** Covers inorganic fillers and coating materials supplied to a site calculated at 100% dry substances (ds).

**International Labor Organization (ILO)** The International Labor Organization is a United Nations Agency, which establishes Conventions on Labor standards that are binding for member states when ratified. There are over 150 ILO Conventions, eight of which are "Core Conventions" since they embody fundamental human rights and set minimum labor standards.

**ISO 14001** The standard published by the International Standards Organization, specifying the requirements of an environmental management system. All SCA European mills are certified ISO 14001.

**Kraftliner** Packaging paper primarily made of fresh wood.

**Leach/Leachate** The percolation of liquids through the earth. The leaching natural process can pollute underground water or surface water, which is situated below a retention basin of wastewater, or a landfill, which is biologically active, for example.

**Life cycle assessment, LCA** A method of assessing the environmental impact of a product, taking account of its entire lifespan from raw material extraction to waste disposal.

**LTA, Lost Time Accidents** Accidents that cause the absence of an employee from work.

**LWC paper, Light Weight Coated** LWC paper is a coated paper with a high mechanical pulp content. Used for high-quality magazines and advertising materials with demanding color-printing requirements.

**Main site** A production facility that is wholly owned by SCA and that has 100 or more employees.

**Mechanical pulp** Debarked wood that is ground or chipped for mechanical refining to separate the fibers that form pulp.

**N, Nitrogen** A chemical element, also present in wood, that is necessary for plant and animal life. Excess N in water can cause major increases in the amount of algae, which can lead to oxygen deficiency when the algae decompose.

**Newsprint** Paper for newspapers produced from mechanical pulp based on fresh fiber or recovered fiber.

**Non-Governmental Organizations (NGOs)** Are national, international, and community-based groups that raise awareness about social, environmental, community and human rights issues.

**NO<sub>x</sub> as NO<sub>2</sub>** The nitrogen oxides NO and NO<sub>2</sub>, calculated as NO<sub>2</sub> derived from combustion. Where NO<sub>x</sub> is not measured, a standard value of 100 mg/MJ fuel is used.

**Organic fossil material** Covers crude-oil-based materials, such as super-absorbents and adhesives calculated at 100% dry substances.

**PEFC™, Programme for the Endorsement of Forest Certification** An international organization promoting responsible forest management and certification.

**P, Phosphorus** A chemical element, also present in wood, that is necessary for plant and animal life. Excess P in water can cause nutrient enrichment.

**Production waste** To SCA, waste comprises only materials leaving its production units that cannot be used for any further useful purpose. Recovered paper and fiber are excluded, since they form part of SCA's main raw materials.

**REACH, Regulation, Evaluation, Authorization and Restriction of Chemicals** European regulation (1,907/2,000/EC) which address the production and (safe) use of chemical substances and their potential impact on both human health and the environment. Some 30,000 chemicals will have to be registered after testing with the central European Chemical Agency (ECHA) in Helsinki. Companies will have to obtain authorization to use hazardous chemicals.

**RMS** SCA's Resource Management System: a means of collecting and collating all environmental data and resource utilization within the SCA Group.

**Recovered fiber** Paper-making fiber derived from a secondary source, such as used paper and board, used for recycling.

**Renewable** All materials which can be re-grown or produced without depletion of natural resources.

**SO<sub>2</sub>** Total sulfur calculated as SO<sub>2</sub> from processes and combustion at the site. Where SO<sub>2</sub> is not measured, the input sulfur in the fuel is calculated.

**SRI, Socially responsible investment** A method of selecting stocks for investment using criteria related to a company's environmental, social and ethical performance.

**Sludge** Residue from the production of paper; consists of inert materials, mainly small fiber debris, filler and other inert materials. It used to be sent to landfill. Nowadays, used as 'new' raw material and incinerated for energy recovery.

**Solid-wood products** Wood sawn into various dimensions and sizes for furniture, joinery and construction uses.

**Stakeholders** Groups of people with whom an organization has active relationships, and with whom effective dialog is necessary to the functioning of the business. Shareholders, authorities, customers, employees and professional associations are all stakeholders in SCA's business activities.

**Suspended solids** Particles that are not dissolved in the effluent water.

**TCF, Totally Chlorine Free** Paper pulp which is bleached without using chlorine in any form.

**TMP, Thermo Mechanical Pulp** A high-yield pulp (about 90–95% yield from the wood) which is obtained by heating spruce chips and then grinding them in refiners.

**TJ, Terajoule** A unit used to measure energy (fuel).

**Tissue** Creped soft paper which is the basis for hygiene products such as napkins, toilet paper and towels, and toweling products for institutions, hotels, etc.

**TWh, TeraWatt hour** Unit of energy measurement.  
1 TWh=1,000 million KWh

**UN Global Compact** A strategic platform for sustainable business. Today, Global Compact is the world's largest voluntary initiative with more than 12,000 signatories from 145 countries who have committed to work according to the Global Compact's ten principles concerning human rights, labor, the environment and anti-corruption.

**Water** Represents the sum of surface water, ground water and tap water for processes and cooling purposes.

**Water stress** Occurs when the amount of good quality water is no longer enough to cover the community's needs. The definition that is usually used for water stress is if the amount of fresh water available in a country is less than 1,700 cubic meters per person and year. This can be compared with the limits for chronic water scarcity (1,000 cubic meters per person and year) and absolute water scarcity (500 cubic meters per person and year).

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