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## Introduction

Welcome to the latest issue of CEPI's Key Statistics, giving a clear picture of the European pulp and paper industry's performance in 2015.

The statistics included in this booklet are a compilation of data received from the National Associations which are CEPI's members, under the auspices of CEPI's Statistics Network. Some additional sources, such as Eurostat, have been used where necessary and relevant. Extra statistical information is accessible online to members on CEPI's Members Area website and to nonmembers by subscription<sup>1</sup>.

The Confederation of European Paper Industries (CEPI) is a Brussels-based non-profit making organisation founded in 1992, representing the European pulp and paper industry towards the European Institutions. Through its member associations, CEPI also

represents approximately 510 pulp, paper and board producing companies across Europe, ranging from small and mediumsized enterprises to multinationals (counting companies with a presence in more than one CEPI country only once). It represents 93% of the European² pulp and paper industry in terms of production. The pulp and paper industry provides 179,000 jobs in Europe directly, and 1.5 million in the value chain. It has a turnover of 79 billion euros and adds 16.5 billion euros to the EU GDP. It is strong in export markets, with an export rate of 21% of its production.

#### **CEPI Members in 2015**

National Associations of the following 18 countries: Austria, Belgium, Czech Republic, Finland, France, Germany, Hungary, Italy, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom.

### Data quality

Responsibility for the collection and management of statistical data lies with CEPI's statistics department, which is constantly working to improve the quality of the data reported. In order to further increase the reliability and credibility of the data reported, CEPI has commissioned Ernst & Young to issue a limited assurance statement on the data quality rating that CEPI carried out on its core indicators in the statistics report. The limited assurance statement is available at http://www.cepi.org/topics/statistics

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<sup>&</sup>lt;sup>2</sup> Europe minus the Russian Federation

## **Key Figures**

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## CEPI Pulp and Paper Industry\*

|                                          | 1991    | 2000    | 2005    | 2010    | 2014    | 2015    | % Change<br>2015/2014 | % Change<br>2015/2000 |
|------------------------------------------|---------|---------|---------|---------|---------|---------|-----------------------|-----------------------|
| Industry Structure                       |         |         |         |         |         |         |                       |                       |
| Number of Companies <sup>1</sup>         | 1,032   | 929     | 831     | 674     | 628     | 633     | 0.8                   | -31.9                 |
| Number of Mills                          | 1,570   | 1,309   | 1,224   | 992     | 919     | 917     | -0.2                  | -29.9                 |
| Pulp                                     | 296     | 233     | 218     | 172     | 158     | 154     | -2.5                  | -33.9                 |
| Paper & Board                            | 1,274   | 1,076   | 1,006   | 820     | 761     | 763     | 0.3                   | -29.1                 |
| Number of Paper Machines                 | 2,182   | 1,858   | 1,725   | 1,393   | 1,289   | 1,288   | -0.1                  | -30.7                 |
| Employment                               | 411,113 | 279,987 | 246,785 | 194,894 | 181,084 | 178,212 | -1.6                  | -36.3                 |
| Turnover <sup>2</sup> (Million Euros)    | n.a.    | 79,388  | 74,537  | 75,790  | 78,520  | 78,800  | 0.4                   | -0.7                  |
| Investments <sup>2</sup> (Million Euros) | n.a.    | 5,637   | 5,318   | 2,913   | 3,275   | 3,500   | 6.9                   | -37.9                 |
| Added Value <sup>2</sup> (Million Euros) | n.a.    | 24,494  | 18,154  | 16,560  | 16,250  | 16,500  | 1.5                   | -32.6                 |
| Total Pulp <sup>3</sup> (000 Tonnes)     |         |         |         |         |         |         |                       |                       |
| Production Capacity                      | 39,584  | 43,842  | 47,247  | 44,189  | 40,778  | 40,581  | -0.5                  | -7.4                  |
| Operating Rate                           | 85.4%   | 91.2%   | 88.1%   | 87.6%   | 89.6%   | 89.4%   | -0,3                  | -1.8                  |
| Production                               | 33,807  | 39,962  | 41,602  | 38,695  | 36,551  | 36,265  | -0.8                  | -9.3                  |
| Total Deliveries                         | n.a.    | 40,556  | 42,221  | 39,612  | 38,703  | 38,511  | -0.5                  | -5.0                  |
| CEPI Internal Deliveries                 | n.a.    | 39,224  | 40,150  | 37,045  | 35,386  | 35,219  | -0.5                  | -10.2                 |
| Consumption <sup>7</sup> (Apparent)      | 37,815  | 46,377  | 47,492  | 43,849  | 40,971  | 41,088  | 0.3                   | -11.4                 |
| Market Pulp ('000 Tonnes)                |         |         |         |         |         |         |                       |                       |
| Production                               | 9,314   | 11,423  | 13,142  | 12,706  | 13,174  | 13,087  | -0.7                  | 14.6                  |
| Exports to Outside CEPI                  | n.a.    | 1,332   | 2,071   | 2,567   | 3,317   | 3,292   | -0.7                  | 147.2                 |
| Imports from Outside CEPI                | n.a.    | 7,924   | 7,961   | 7,721   | 7,736   | 8,115   | 4.9                   | 2.4                   |
| Consumption <sup>7</sup> (Apparent)      | n.a.    | 18,015  | 19,032  | 17,860  | 17,593  | 17,910  | 1.8                   | -0.6                  |
| Exports/Production                       | n.a.    | 11.7%   | 15.8%   | 20.2%   | 25.2%   | 25.2%   | 0.0                   | 13.5                  |
| Imports/Consumption                      | n.a.    | 44.0%   | 41.8%   | 43.2%   | 44.0%   | 45.3%   | 1.3                   | 1.3                   |
| Paper & Board ('000 Tonnes)              |         |         |         |         |         |         |                       |                       |
| Production Capacity                      | 73,280  | 97,658  | 109,801 | 103,714 | 101,468 | 99,673  | -1.8                  | 2.1                   |
| Operating Rate                           | 88.8%   | 93.0%   | 89.5%   | 91.7%   | 89.7%   | 91.2%   | 1.5                   | -1.8                  |
| Production                               | 65,052  | 90,823  | 98,259  | 95,065  | 91,019  | 90,872  | -0.2                  | 0.1                   |
| CEPI Internal Deliveries                 | n.a.    | 78,796  | 84,661  | 80,263  | 76,536  | 77,509  | 1.3                   | -1.6                  |
| Exports to Outside CEPI                  | n.a.    | 13,887  | 17,793  | 19,164  | 19,125  | 18,915  | -1.1                  | 36.2                  |
| Imports from Outside CEPI                | n.a.    | 6,383   | 5,903   | 5,783   | 5,135   | 5,459   | 6.3                   | -14.5                 |
| Consumption <sup>7</sup> (Apparent)      | 60,102  | 82,065  | 86,369  | 81,684  | 77,028  | 77,416  | 0.5                   | -5.7                  |
| Exports/Production                       | n.a.    | 15.3%   | 18.1%   | 20.2%   | 21.0%   | 20.8%   | -0.2                  | 5.5                   |
| Imports/Consumption                      | n.a.    | 7.8%    | 6.8%    | 7.1%    | 6.7%    | 7.1%    | 0.4                   | -0.7                  |

|                                                                         | 1991    | 2000      | 2005      | 2010      | 2014      | 2015    | % Change<br>2015/2014 | % Change<br>2015/2000 |
|-------------------------------------------------------------------------|---------|-----------|-----------|-----------|-----------|---------|-----------------------|-----------------------|
| Wood (1000 m³)                                                          |         |           |           |           |           |         |                       |                       |
| Consumption                                                             | 120,274 | 148,093   | 153,380   | 148,901   | 146,475   | 144,567 | -1.3                  | -2.4                  |
| Hardwood                                                                | 30,410  | 40,048    | 41,337    | 38,119    | 41,000    | 40,485  | -1.3                  | 1.1                   |
| Softwood                                                                | 89,863  | 108,046   | 112,043   | 110,782   | 105,475   | 104,082 | -1.3                  | -3.7                  |
| Imports/Consumption                                                     | 12.8%   | 17.1%     | 19.2%     | 17.1%     | 16.6%     | 15.3%   | -1.3                  | -10.3                 |
| Domestic/Consumption                                                    | 87.2%   | 82.9%     | 80.8%     | 82.9%     | 83.4%     | 84.7%   | 1.3                   | 2.1                   |
| Paper for Recycling ('000 Tonne                                         | s)      |           |           |           |           |         |                       |                       |
| Collection                                                              | 25,452  | 43,658    | 53,100    | 55,917    | 55,177    | 55,935  | 1.4                   | 28.1                  |
| Utilisation                                                             | 25,360  | 40,922    | 46,745    | 48,122    | 47,635    | 47,710  | 0.2                   | 16.6                  |
| Exports to Outside CEPI                                                 | n.a.    | 3,751     | 7,698     | 9,592     | 9,496     | 10,175  | 7.1                   | 171.3                 |
| Exports/Collection                                                      | n.a.    | 8.6%      | 14.5%     | 17.2%     | 17.2%     | 18.2%   | 1.0                   | 9.6                   |
| Imports from Outside CEPI                                               | n.a.    | 1,015     | 1,343     | 1,796     | 1,954     | 1,950   | -0.2                  | 92.1                  |
| Imports/Utilisation                                                     | n.a.    | 2.5%      | 2.9%      | 3.7%      | 4.1%      | 4.1%    | 0.0                   | 1.6                   |
| Utilisation Rate                                                        | 39.0%   | 45.1%     | 47.6%     | 50.6%     | 52.3%     | 52.5%   | 0.2                   | 7.4                   |
| Recycling Rate in Europe <sup>4</sup>                                   |         |           |           |           |           |         |                       |                       |
| Recycling Rate                                                          | 40.3%   | 51.8%     | 61.8%     | 68.5%     | 71.4%     | 71.5%   | 0.05                  | 19.7                  |
| Non-Fibrous Materials ('000 To                                          | nnes)   |           |           |           |           |         |                       |                       |
| Consumption                                                             | 9,504   | 15,545    | 16,496    | 16,163    | 15,503    | 14,887  | -4.0                  | -4.2                  |
| Energy and Environment <sup>5</sup>                                     |         |           |           |           |           |         |                       |                       |
| Fuels Consumption (Tj)                                                  | 929,863 | 1,141,232 | 1,268,995 | 1,281,746 | 1,125,963 | n.a.    |                       |                       |
| Biomass Use (%) of Total FC                                             | 44.1    | 49.1      | 50.1      | 52.9      | 57.6      | n.a.    |                       |                       |
| Electricity Consumption (GWh)                                           | 86,527  | 110,424   | 113,874   | 113,137   | 100,518   | n.a.    |                       |                       |
| % of Electricity produced through CHP <sup>6</sup>                      | 88.0    | 90.4      | 94.4      | 95.4      | 96.1      | n.a.    |                       |                       |
| CO <sub>2</sub> Emissions (Mega Tonnes)                                 | 39.05   | 41.94     | 43.37     | 37.98     | 31.96     | 31.69   | -0.8                  | -24.4                 |
| Specific CO <sub>2</sub> Emissions (kt Co <sub>2</sub> / kt of product) | 0.54    | 0.42      | 0.39      | 0.35      | 0.31      | 0.30    | -0.6                  | -28.3                 |

<sup>\*</sup> See Glossary on page 30

<sup>&</sup>lt;sup>1</sup> 510 groups or corporations in 2015, when considering the entities established in one or several countries that are not bound together by legal and/or financial links.

 $<sup>^{2}\,2014</sup>$  and 2015 figures are based on members' data, Eurostat and estimates for some countries.

<sup>&</sup>lt;sup>3</sup> Total Pulp = Market Pulp + Integrated Pulp.

<sup>&</sup>lt;sup>4</sup>Europe means EU-28 countries plus Norway and Switzerland.

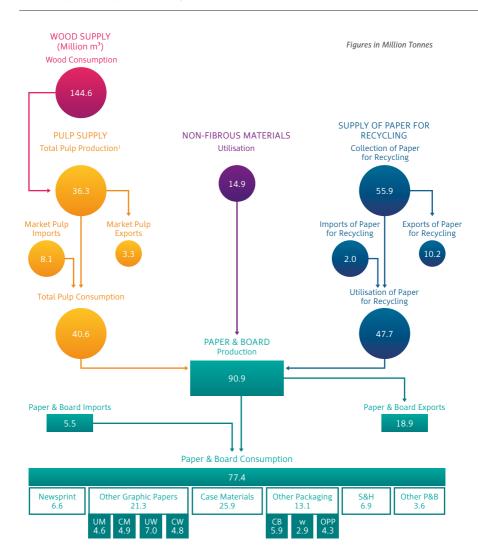
<sup>&</sup>lt;sup>5</sup> Hungary, Romania and Slovenia are not included in Energy data, except for CO<sub>2</sub> emissions.

<sup>&</sup>lt;sup>6</sup> Compared to total on-site electricity generation.

<sup>&</sup>lt;sup>7</sup> CEPI Apparent Consumption = Production - Exports to outside CEPI + Imports from outside CEPI.

### From Raw Materials to Paper

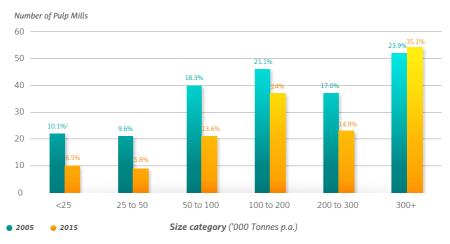
#### **CEPI Pulp and Paper Industry in 2015**



Paper & Board Consumption = Production + Imports from outside CEPI - Exports to outside CEPI UM = Uncoated Mechanical - CM = Coated Mechanical - UW = Uncoated Woodfree - CW = Coated Woodfree CB = Carton Board - W = Wrappings - OPP = Other Paper & Board for Packaging S&H = Sanitary and Household

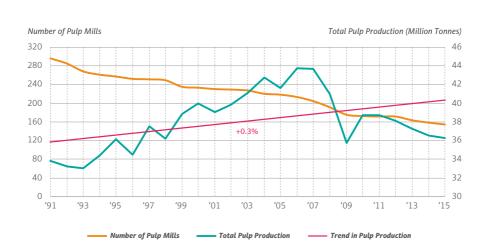
<sup>1</sup> of which Integrated Pulp 23.2 Million Tonnes

### Number of CEPI Pulp Mills by Volume in 2005 and 2015



<sup>1</sup> Share of Total Number of Mills

## Number of CEPI Pulp Mills and Total Pulp Production



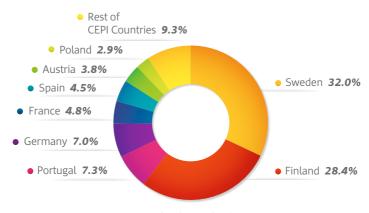
CEPI Key Statistics 2015 7

### **Pulp** | Production and Consumption

### CEPI Total Pulp<sup>1</sup> Production and Consumption

|                            | PR     | ODUCTION |                       | CONSUMPTION |        |                       |  |
|----------------------------|--------|----------|-----------------------|-------------|--------|-----------------------|--|
| '000 Tonnes                | 2014   | 2015     | % Change<br>2015/2014 | 2014        | 2015   | % Change<br>2015/2014 |  |
| Mechanical & Semi-Chemical | 10,109 | 9,914    | -1.9                  | 10,184      | 9,961  | -2.2                  |  |
| Sulphite Pulp              | 1,827  | 1,665    | -8.8                  | 1,556       | 1,341  | -13.8                 |  |
| Sulphate Pulp              | 24,428 | 24,456   | 0.1                   | 28,909      | 29,453 | 1.9                   |  |
| Total Chemical Pulp        | 26,255 | 26,121   | -0.5                  | 30,465      | 30,794 | 1.1                   |  |
| Total Woodpulp             | 36,364 | 36,035   | -0.9                  | 40,649      | 40,755 | 0.3                   |  |
| Other Pulp                 | 187    | 230      | 23.0                  | 321         | 333    | 3.7                   |  |
| Total Pulp <sup>1</sup>    | 36,551 | 36,265   | -0.8                  | 40,971      | 41,088 | 0.3                   |  |

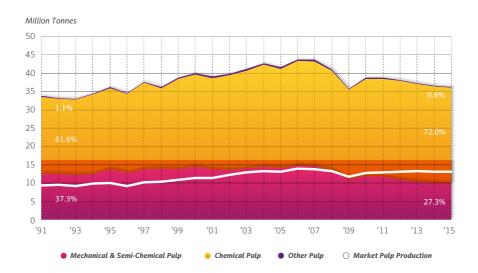
### CEPI Total Pulp<sup>1</sup> Production by Country in 2015



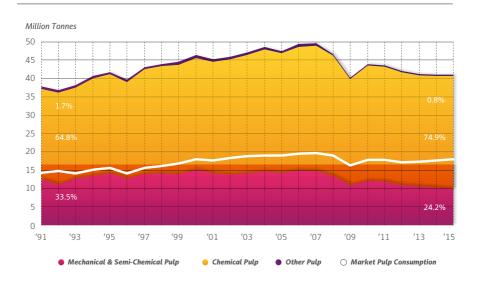
Total Pulp Production 36.3 Million Tonnes

<sup>&</sup>lt;sup>1</sup> Total Pulp = Market Pulp + Integrated Pulp

### CEPI Total Pulp¹ Production by Grade and Market Pulp Production



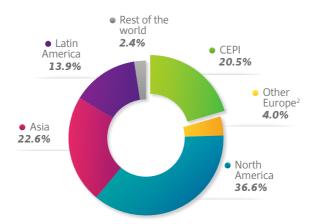
### CEPI Total Pulp¹ Consumption by Grade and Market Pulp Consumption



<sup>&</sup>lt;sup>1</sup> Total Pulp = Integrated Pulp + Market Pulp

CEPI Key Statistics 2015 9

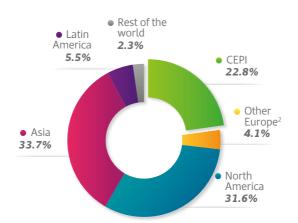
### World Total Pulp<sup>1</sup> Production by Region in 2014<sup>3</sup>



% change over previous year: 0.2

Total Pulp Production 178.5 Million Tonnes

#### World Total Pulp<sup>1</sup> Consumption by Region in 2014<sup>3</sup>



% change over previous year: 0.0

Total Pulp Consumption 179.7 Million Tonnes

<sup>&</sup>lt;sup>1</sup> Total Pulp = Integrated Pulp + Market Pulp

<sup>&</sup>lt;sup>2</sup> Other Europe: Total Europe excluding CEPI countries

<sup>&</sup>lt;sup>3</sup> Sources: CEPI, RISI - 2015 figures will be available in October 2016

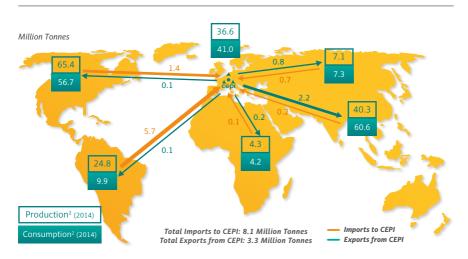
### **CEPI Exports of Market Pulp to Other Regions**

| '000 Tonnes               | 2000  | 2005  | 2010  | 2014  | 2015  | % Share of Total | % Change<br>2015/2014 |
|---------------------------|-------|-------|-------|-------|-------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 724   | 674   | 719   | 824   | 769   | 23.4             | -6.7                  |
| North America             | 104   | 187   | 62    | 46    | 59    | 1.8              | 28.7                  |
| Latin America             | 6     | 20    | 49    | 75    | 70    | 2.1              | -6.5                  |
| Asia                      | 412   | 1,076 | 1,595 | 2,232 | 2,159 | 65.6             | -3.2                  |
| Rest of the World         | 86    | 114   | 142   | 140   | 235   | 7.1              | 67.6                  |
| Total                     | 1,332 | 2,071 | 2,567 | 3,317 | 3,292 | 100.0            | -0.7                  |

## **CEPI Imports of Market Pulp from Other Regions**

| '000 Tonnes               | 2000  | 2005  | 2010  | 2014  | 2015  | % Share of Total | % Change<br>2015/2014 |
|---------------------------|-------|-------|-------|-------|-------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 657   | 615   | 480   | 612   | 658   | 8.1              | 7.4                   |
| North America             | 4,623 | 3,891 | 2,292 | 1,569 | 1,421 | 17.5             | -9.4                  |
| Latin America             | 1,916 | 2,825 | 4,733 | 5,373 | 5,681 | 70.0             | 5.7                   |
| Asia                      | 272   | 197   | 134   | 99    | 219   | 2.7              | 120.9                 |
| Rest of the World         | 456   | 433   | 81    | 83    | 135   | 1.7              | 62.4                  |
| Total                     | 7,924 | 7,961 | 7,721 | 7,736 | 8,115 | 100.0            | 4.9                   |

#### **CEPI Trade Flows of Market Pulp in 2015**



<sup>&</sup>lt;sup>1</sup> Other Europe: total Europe excluding CEPI countries

<sup>&</sup>lt;sup>2</sup> Production and consumption of total pulp (market and integrated)

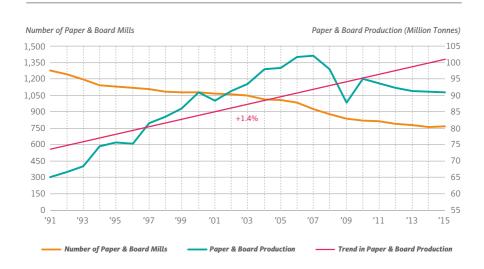
### Paper & Board | Industry Structure

## Number of CEPI Paper & Board Mills by Volume in 2005 and 2015



<sup>1</sup> Share of Total Number of Mills

## Number of CEPI Paper & Board Mills and Paper & Board Production

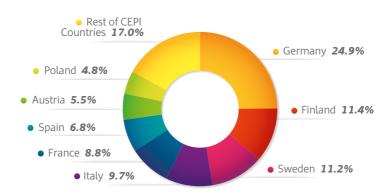


### Paper & Board | Production and Consumption

#### **CEPI Paper & Board Production and Consumption**

|                                   | PR     | ODUCTION |                       | CONSUMPTION |        |                       |  |
|-----------------------------------|--------|----------|-----------------------|-------------|--------|-----------------------|--|
| '000 Tonnes                       | 2014   | 2015     | % Change<br>2015/2014 | 2014        | 2015   | % Change<br>2015/2014 |  |
| Newsprint                         | 7,594  | 7,019    | -7.6                  | 7,042       | 6,606  | -6.2                  |  |
| Uncoated Mechanical               | 5,634  | 5,503    | -2.3                  | 4,648       | 4,623  | -0.5                  |  |
| Coated Mechanical                 | 7,050  | 6,789    | -3.7                  | 5,142       | 4,926  | -4.2                  |  |
| Uncoated Woodfree                 | 9,017  | 8,934    | -0.9                  | 7,149       | 7,036  | -1.6                  |  |
| Coated Woodfree                   | 7,364  | 7,020    | -4.7                  | 4,938       | 4,754  | -3.7                  |  |
| Other Graphic Papers              | 29,065 | 28,246   | -2.8                  | 21,876      | 21,339 | -2.5                  |  |
| Total Graphic Papers              | 36,659 | 35,265   | -3.8                  | 28,918      | 27,946 | -3.4                  |  |
| Sanitary and Household            | 6,998  | 7,153    | 2.2                   | 6,700       | 6,925  | 3.4                   |  |
| Case Materials                    | 26,205 | 27,059   | 3.3                   | 24,870      | 25,894 | 4.1                   |  |
| Carton Board                      | 8,551  | 8,710    | 1.9                   | 5,744       | 5,891  | 2.6                   |  |
| Wrappings                         | 4,106  | 4,071    | -0.9                  | 2,994       | 2,866  | -4.3                  |  |
| Other Paper & Board for Packaging | 4,591  | 4,733    | 3.1                   | 4,159       | 4,300  | 3.4                   |  |
| Total Packaging Papers            | 43,452 | 44,572   | 2.6                   | 37,767      | 38,951 | 3.1                   |  |
| Other Paper & Board               | 3,910  | 3,881    | -0.7                  | 3,642       | 3,594  | -1.3                  |  |
| Total Paper & Board               | 91,019 | 90,872   | -0.2                  | 77,028      | 77,416 | 0.5                   |  |
|                                   |        |          |                       |             |        |                       |  |

### **CEPI Paper & Board Production by Country in 2015**



Total Paper & Board Production 90.9 Million Tonnes

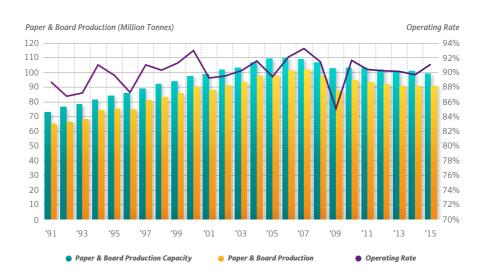
## Paper & Board | Production and Production Capacity

### **CEPI Paper & Board Production and Consumption**



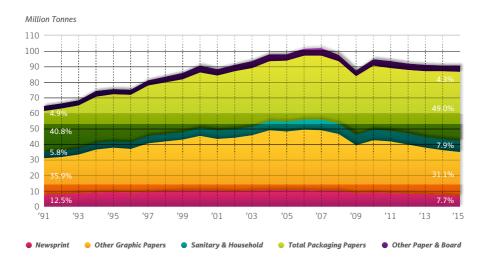
## **CEPI Paper & Board Production and Capacity**

14

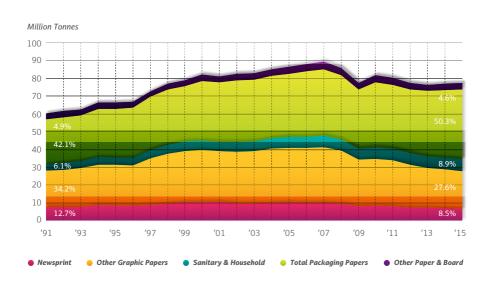


### Paper & Board | Production and Consumption by Grade

### **CEPI Paper & Board Production by Grade**

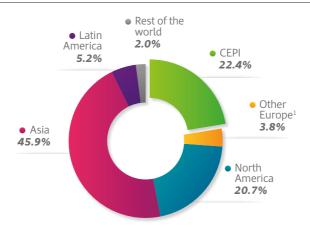


## **CEPI Paper & Board Consumption by Grade**



### Paper & Board | Production and Consumption - Global View

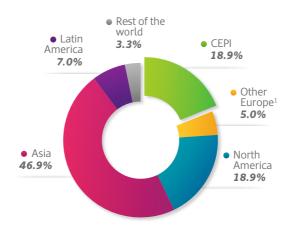
#### Paper & Board Production by Region in 2014<sup>2</sup>



% change over previous year: 1.0

Total Paper & Board Production 406.5 Million Tonnes

Paper & Board Consumption by Region in 2014<sup>2</sup>



% change over previous year: 0.7

Total Paper & Board Consumption 407.5 Million Tonnes

<sup>&</sup>lt;sup>1</sup>Other Europe: total Europe excluding CEPI countries

<sup>&</sup>lt;sup>2</sup> Sources: CEPI, RISI - 2015 figures will be available in October 2016

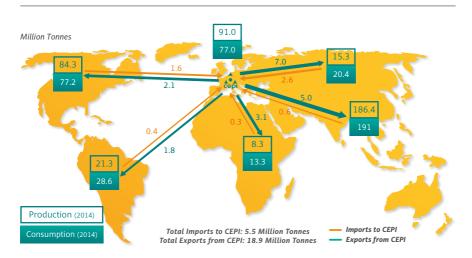
## **CEPI Exports of Paper & Board to Other Regions**

| '000 Tonnes               | 2000   | 2005   | 2010   | 2014   | 2015   | % Share of Total | % Change<br>2015/2014 |
|---------------------------|--------|--------|--------|--------|--------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 6,090  | 6,825  | 7,349  | 7,179  | 7,001  | 37.0             | -2.5                  |
| North America             | 2,283  | 2,802  | 2,055  | 1,943  | 2,060  | 10.9             | 6.0                   |
| Latin America             | 874    | 1,194  | 1,879  | 1,765  | 1,801  | 9.5              | 2.1                   |
| Asia                      | 2,933  | 4,742  | 5,099  | 5,174  | 4,966  | 26.3             | -4.0                  |
| Rest of the World         | 1,707  | 2,229  | 2,783  | 3,064  | 3,087  | 16.3             | 0.8                   |
| Total                     | 13,887 | 17,793 | 19,164 | 19,125 | 18,915 | 100.0            | -1.1                  |

### **CEPI Imports of Paper & Board from Other Regions**

| '000 Tonnes               | 2000  | 2005  | 2010  | 2014  | 2015  | % Share of Total | % Change<br>2015/2014 |
|---------------------------|-------|-------|-------|-------|-------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 3,318 | 2,727 | 2,525 | 2,371 | 2,623 | 48.1             | 10.6                  |
| North America             | 2,191 | 1,915 | 1,829 | 1,504 | 1,622 | 29.7             | 7.8                   |
| Latin America             | 198   | 498   | 498   | 360   | 363   | 6.6              | 0.7                   |
| Asia                      | 332   | 394   | 625   | 590   | 577   | 10.6             | -2.1                  |
| Rest of the World         | 344   | 369   | 307   | 310   | 274   | 5.0              | -11.6                 |
| Total                     | 6,383 | 5,903 | 5,783 | 5,135 | 5,459 | 100.0            | 6.3                   |

## CEPI Trade Flows of Paper & Board in 2015



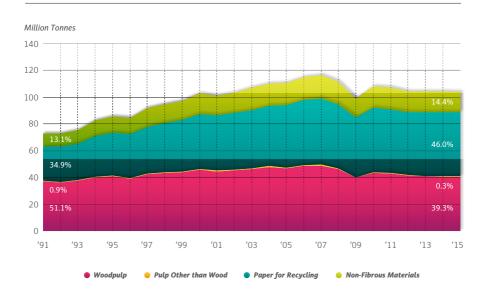
<sup>&</sup>lt;sup>1</sup> Other Europe: total Europe excluding CEPI countries

## **Raw Materials Summary**

## **CEPI Raw Materials Consumption**

| '000 Tonnes           | 1991   | 2000    | 2005    | 2010    | 2014    | 2015    | % Share of Total | % Change<br>2015/2014 |
|-----------------------|--------|---------|---------|---------|---------|---------|------------------|-----------------------|
| Woodpulp              | 37,162 | 45,619  | 46,861  | 43,533  | 40,649  | 40,755  | 39.3             | 0.3                   |
| Pulp Other than Wood  | 653    | 758     | 631     | 316     | 321     | 333     | 0.3              | 3.7                   |
| Paper for Recycling   | 25,360 | 40,922  | 46,745  | 48,122  | 47,635  | 47,710  | 46.0             | 0.2                   |
| Non-Fibrous Materials | 9,504  | 15,545  | 16,496  | 16,163  | 15,503  | 14,887  | 14.4             | -4.0                  |
| Total Raw Materials   | 72,679 | 102,844 | 110,733 | 108,134 | 104,108 | 103,685 | 100.0            | -0.4                  |

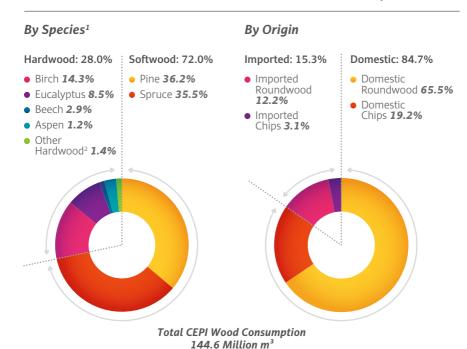
## **CEPI Raw Materials Consumption**



#### **CEPI Wood Consumption**

| '000 m³            | 1991    | 2000    | 2005    | 2010    | 2014    | 2015    | % Share of Total | % Change<br>2015/2014 |
|--------------------|---------|---------|---------|---------|---------|---------|------------------|-----------------------|
| Softwood Roundwood | 65,240  | 72,372  | 74,415  | 76,641  | 72,435  | 70,575  | 48.8             | -2.6                  |
| Softwood Chips     | 24,623  | 35,673  | 37,628  | 34,141  | 33,041  | 33,507  | 23.2             | 1.4                   |
| Total Softwood     | 89,863  | 108,046 | 112,043 | 110,782 | 105,475 | 104,082 | 72.0             | -1.3                  |
| Hardwood Roundwood | 28,963  | 38,542  | 39,914  | 36,635  | 38,444  | 38,465  | 26.6             | 0.1                   |
| Hardwood Chips     | 1,447   | 1,505   | 1,423   | 1,483   | 2,556   | 2,020   | 1.4              | -21.0                 |
| Total Hardwood     | 30,410  | 40,048  | 41,337  | 38,119  | 41,000  | 40,485  | 28.0             | -1.3                  |
| Total Roundwood    | 94,204  | 110,915 | 114,329 | 113,276 | 110,879 | 109,040 | 75.4             | -1.7                  |
| Total Chips        | 26,070  | 37,179  | 39,051  | 35,625  | 35,596  | 35,527  | 24.6             | -0.2                  |
| Total Wood         | 120,274 | 148,093 | 153,380 | 148,901 | 146,475 | 144,567 | 100.0            | -1.3                  |

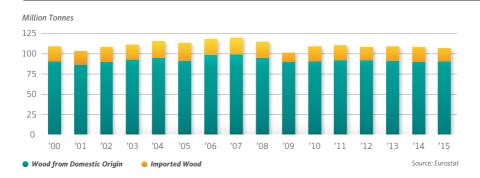
#### **Share in CEPI Wood Consumption in 2015**



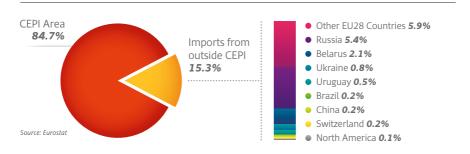
<sup>&</sup>lt;sup>1</sup> Based on a sample representing 90% of total CEPI consumption <sup>2</sup> Other Hardwood = hornbeam, ash, maple, accacia, quercus-cerris, oak, alder, poplar, willow, chesnut.

## **Wood** | Trade Flows and Wood Origin

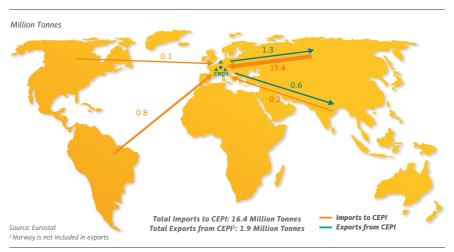
### **CEPI Wood Consumption by Origin**



### **CEPI Wood Consumption Origin in 2015**



## **CEPI Trade Flows of Wood in 2015**

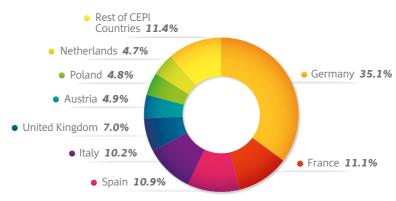


### CEPI Utilisation of Paper for Recycling by Sector in 2015

|                          |                 | Grades o | f Paper for               | Recycling       |                                        |                                      |                         |                                       |
|--------------------------|-----------------|----------|---------------------------|-----------------|----------------------------------------|--------------------------------------|-------------------------|---------------------------------------|
| '000 Tonnes              | Α               | В        | С                         | D               | E                                      | F                                    | G                       | E:G                                   |
| Paper Sector             | Mixed<br>Grades |          | Newspapers<br>& Magazines | Other<br>Grades | Total Use<br>of Paper for<br>Recycling | Usage<br>by Sector <sup>1</sup><br>% | Total P&B<br>Production | Utilisation<br>Rate <sup>2</sup><br>% |
| Newsprint                | 27              | 0        | 6,428                     | 59              | 6,514                                  | 13.7                                 | 7,019                   | 92.8                                  |
| Other Graphic Papers     | 165             | 22       | 2.733                     | 686             | 3,606                                  | 7.6                                  | 28,246                  | 12.8                                  |
| Total Newsprint + O.G.P. | 192             | 22       | 9,161                     | 745             | 10,120                                 | 21.2                                 | 35,265                  | 28.7                                  |
| Case Materials           | 4,517           | 19,760   | 241                       | 881             | 25,400                                 | 53.2                                 | 27,059                  | 93.9                                  |
| Carton Board             | 1,804           | 566      | 120                       | 866             | 3,357                                  | 7.0                                  | 8,710                   | 38.5                                  |
| Wrappings, Other Pack.   | 2,036           | 1,708    | 161                       | 491             | 4,395                                  | 9.2                                  | 8,803                   | 49.9                                  |
| Total Packaging Papers   | 8,357           | 22,034   | 522                       | 2,238           | 33,152                                 | 69.5                                 | 44,572                  | 74.4                                  |
| Sanitary and Household   | 285             | 108      | 620                       | 1,878           | 2,890                                  | 6.1                                  | 7,153                   | 40.4                                  |
| Other Paper & Board      | 264             | 961      | 151                       | 172             | 1,548                                  | 3.2                                  | 3,881                   | 39.9                                  |
| Total Paper & board      | 9,098           | 23,125   | 10,454                    | 5,034           | 47,710                                 | 100.0                                | 90,872                  | 52.5                                  |
| Share of Total           | 19.1%           | 48.5%    | 21.9%                     | 10.6%           | 100.0%                                 |                                      |                         |                                       |

<sup>&</sup>lt;sup>1</sup> Utilisation by sector: total use of paper for recycling in a sector as % of the total paper for recycling used by the industry

### CEPI Utilisation of Paper for Recycling by Country in 2015



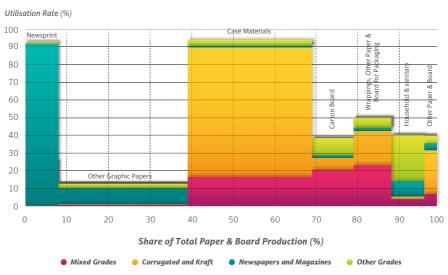
Total Utilisation of Paper for Recycling 47.7 Million Tonnes

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<sup>&</sup>lt;sup>2</sup> Utilisation rate: use of paper for recycling in a sector as % of total paper & board production in that sector

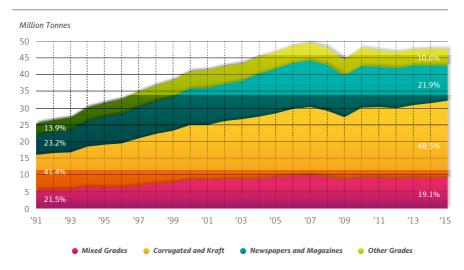
### Paper for Recycling | Utilisation by Sector and by Grade

#### CEPI Utilisation of Paper for Recycling by Sector in 2015



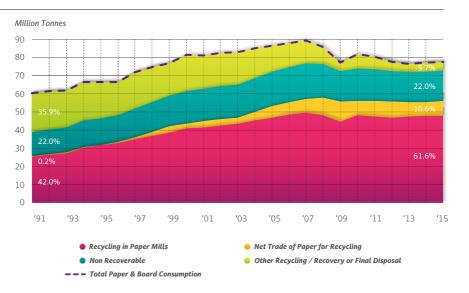
For instance: case materials represent 30% of total paper and board production, have an utilisation rate of 94% and use 53.2% of total paper for recycling volumes used by the industry. Important Note: Paper for recycling is composed of fibres but also unusable materials - non-paper components as well as paper and board detrimental to production. The share of unusable materials depends on the actual sorting and collection of used paper. It varies according to grades of paper for recycling and countries. The volume of recycled fibres actually used to produce new paper is therefore lower than the volume of paper for recycling considered. The utilisation rate compares utilisation of paper for recycling to paper & board production.

### CEPI Utilisation of Paper for Recycling by Grade

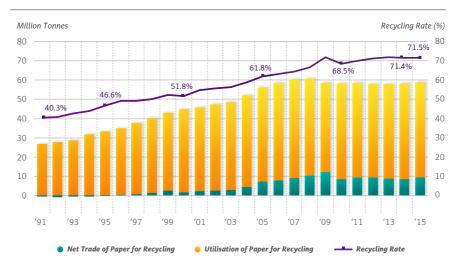


### Paper for Recycling | Utilisation and Recycling Rate

#### **CEPI Paper & Board Consumption and Recycling**



## Utilisation, Net Trade and Recycling Rate<sup>1</sup> of Paper for Recycling in Europe<sup>2</sup>



 $<sup>{}^{1}\</sup>textit{Recycling Rate} = "Utilisation of Paper for Recycling + Net Trade of Paper for Recycling", compared to Paper & Board Consumption (Consumption Paper) and (Consumption Paper) and (Consumption Paper) are the paper of the Paper (Consumption Paper) and (Consumption Paper) are the Paper (C$ 

<sup>&</sup>lt;sup>2</sup> Europe means EU-28 countries plus Norway and Switzerland

## Paper for Recycling | Exports and Imports

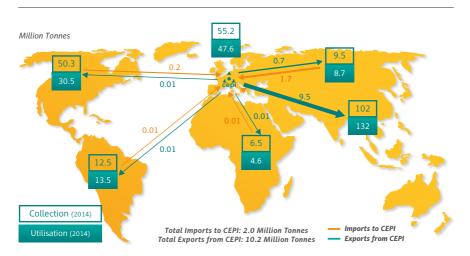
## **CEPI Exports of Paper for Recycling to Other Regions**

| '000 Tonnes               | 2000  | 2005  | 2010  | 2014  | 2015   | % Share of Total | % Change<br>2015/2014 |
|---------------------------|-------|-------|-------|-------|--------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 676   | 444   | 373   | 551   | 695    | 6.8              | 26.3                  |
| North America             | 47    | 22    | 27    | 5     | 2      | 0.0              | -70.2                 |
| Latin America             | 7     | 5     | 21    | 13    | 9      | 0.1              | -29.0                 |
| Asia                      | 2,894 | 7,087 | 9,157 | 8,914 | 9,456  | 92.9             | 6.1                   |
| Rest of the World         | 127   | 140   | 14    | 13    | 13     | 0.1              | 0.4                   |
| Total                     | 3,751 | 7,698 | 9,592 | 9,496 | 10,175 | 100.0            | 7.1                   |

## **CEPI Imports of Paper for Recycling from Other Regions**

| '000 Tonnes               | 2000  | 2005  | 2010  | 2014  | 2015  | % Share of Total | % Change<br>2015/2014 |
|---------------------------|-------|-------|-------|-------|-------|------------------|-----------------------|
| Other Europe <sup>1</sup> | 735   | 1,131 | 1,596 | 1,703 | 1,729 | 88.7             | 1.5                   |
| North America             | 264   | 199   | 184   | 214   | 187   | 9.6              | -12.5                 |
| Latin America             | 0     | 4     | 3     | 9     | 17    | 0.9              | 86.2                  |
| Asia                      | 9     | 0     | 6     | 8     | 2     | 0.1              | -80.2                 |
| Rest of the World         | 7     | 9     | 8     | 20    | 15    | 0.8              | -23.1                 |
| Total                     | 1,015 | 1,343 | 1,796 | 1,954 | 1,950 | 100.0            | -0.2                  |

### **CEPI Trade Flows of Paper for Recycling in 2015**

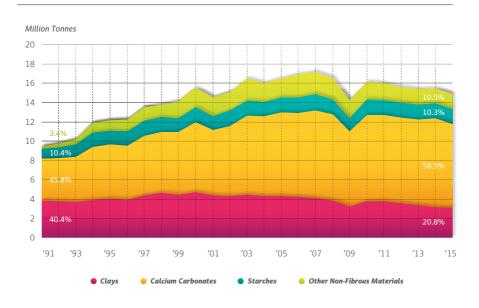


<sup>&</sup>lt;sup>1</sup>Other Europe: total Europe excluding CEPI countries

## **CEPI Non-Fibrous Materials Consumption**

| '000 Tonnes                             | 1991  | 2000   | 2005   | 2010   | 2014   | 2015   | % Share of Total | % Change<br>2015/2014 |
|-----------------------------------------|-------|--------|--------|--------|--------|--------|------------------|-----------------------|
| Clays (coating and filler)              | 3,842 | 4,716  | 4,323  | 3,825  | 3,186  | 3,095  | 20.8             | -2.9                  |
| Calcium Carbonates (coating and filler) | 4,349 | 7,247  | 8,662  | 8,903  | 9,197  | 8,703  | 58.5             | -5.4                  |
| Starches<br>(native and modified)       | 989   | 1,551  | 1,535  | 1,593  | 1,524  | 1,528  | 10.3             | 0.2                   |
| Other Non-Fibrous Materials             | 324   | 2,031  | 1,976  | 1,842  | 1,595  | 1,562  | 10.5             | -2.1                  |
| Non Fibrous Materials                   | 9,504 | 15,545 | 16,496 | 16,163 | 15,503 | 14,887 | 100.0            | -4.0                  |

### **CEPI Non-Fibrous Materials Consumption**



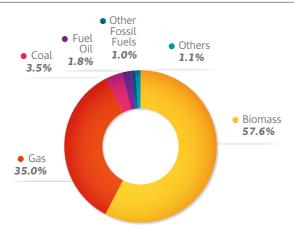
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## **Energy** | Energy and Electricity Consumption

## CEPI Primary Energy and Electricity Consumption<sup>1</sup>

|                                                    | 1991      | 2000      | 2005      | 2010      | 2013      | 2014      | % Share of Total | % Change<br>2014/2013 |
|----------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-----------------------|
| Fuels Consumption (TJ)                             | 929,863   | 1,141,232 | 1,268,995 | 1,281,746 | 1,171,251 | 1,125,963 | 100.0            | -3.9                  |
| of which:                                          |           |           |           |           |           |           |                  |                       |
| Gas (TJ)                                           | 259,593   | 404,946   | 489,425   | 489,565   | 407,227   | 393,536   | 35.0             | -3.4                  |
| Fuel Oil (TJ)                                      | 129,461   | 90,914    | 67,454    | 37,856    | 25,238    | 20,582    | 1.8              | -18.4                 |
| Coal (TJ)                                          | 113,867   | 59,304    | 48,314    | 53,280    | 46,100    | 39,966    | 3.5              | -13.3                 |
| Other Fossil Fuels (TJ)                            | 10,134    | 19,052    | 19,714    | 14,529    | 10,520    | 11,275    | 1.0              | 7.2                   |
| Biomass (TJ)                                       | 413,248   | 562,865   | 635,511   | 677,569   | 667,739   | 648,586   | 57.6             | -2.9                  |
| Other (TJ)                                         | 3,560     | 4,151     | 8,602     | 8,948     | 14,426    | 12,018    | 1.1              | -16.7                 |
| Net Bought Electricity (TJ)                        | 205,852   | 246,864   | 228,050   | 202,945   | 178,102   | 175,519   |                  | -1.5                  |
| Total Primary<br>Energy Consumption (TJ)           | 1,135,715 | 1,388,096 | 1,497,045 | 1,484,691 | 1,349,353 | 1,301,483 |                  | -3.5                  |
| Fraction of Biomass in Total Fuels Consumption     | 44.1%     | 49.1%     | 50.1%     | 52.9%     | 57.0%     | 57.6%     |                  | 0.6                   |
| Total Electricity<br>Produced at Site (GWh)        | 29,416    | 41,930    | 50,462    | 56,780    | 52,635    | 51,763    | 51.5             | -1.7                  |
| Purchased Electricity (GWh)                        | 59,045    | 72,255    | 72,815    | 67,567    | 60,505    | 59,879    | 59.6             | -1.0                  |
| Sold Electricity (GWh)                             | -1,864    | -3,681    | -9,468    | -11,193   | -11,032   | -11,123   | 11.1             | 0.8                   |
| Total Electricity Consumption (GWh)                | 86,527    | 110,424   | 113,874   | 113,137   | 102,108   | 100,518   | 100.0            | -1.6                  |
| % of Electricity produced through CHP <sup>2</sup> | 88.0%     | 90.4%     | 94.4%     | 95.4%     | 96.1%     | 96.1%     |                  | 0.0                   |

## CEPI Fuels Consumption in 2014<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> Excluding Hungary , Romania & Slovenia - excluding Poland before 2003 - Figures for 2015 will be available in December 2016.

<sup>&</sup>lt;sup>2</sup> Compared to total on-site electricity generation.

## **Energy & Environment** | Key Figures

## CEPI Key Figures on Energy and Environment<sup>1</sup>

|                                                              | 1991   | 2000   | 2005    | 2010    | 2013    | 2014    | % Change<br>2014/2013 | % Change<br>2014/1991 |
|--------------------------------------------------------------|--------|--------|---------|---------|---------|---------|-----------------------|-----------------------|
| <b>Energy Consumption</b>                                    |        |        |         |         |         |         |                       |                       |
| Production of Market Pulp<br>and Paper & Board ('000 Tonnes) | 71,971 | 98,691 | 109,644 | 106,084 | 102,810 | 102,254 | -0.5                  | 42.1                  |
| Specific Primary<br>Energy Consumption (Tj/kt)               | 15.78  | 14.07  | 13.65   | 14.00   | 13.12   | 12.73   | -3.0                  | -19.3                 |
| Specific Electricity Consumption (MWh/kt)                    | 1.20   | 1.12   | 1.04    | 1.07    | 0.99    | 0.98    | -1.0                  | -18.2                 |
| Direct CO <sub>2</sub> Emissions <sup>2</sup>                |        |        |         |         |         |         |                       |                       |
| Absolute (Mega Tonnes)                                       | 39.05  | 41.94  | 43.37   | 37.98   | 33.88   | 31.96   | -5.7                  | -18.2                 |
| Specific (kt CO <sub>2</sub> / kt of product)                | 0.54   | 0.42   | 0.39    | 0.35    | 0.32    | 0.31    | -5.3                  | -43.5                 |
| Indirect CO <sub>2</sub> Emissions                           |        |        |         |         |         |         |                       |                       |
| Absolute (Mega Tonnes)                                       | 13.88  | 14.33  | 12.47   | 11.59   | 12.58   | 12.52   | -0.4                  | -9.8                  |
| Specific (kt CO <sub>2</sub> / kt of product)                | 0.19   | 0.15   | 0.11    | 0.11    | 0.12    | 0.12    | 0.1                   | -36.5                 |
| Water Specific Emissions                                     |        |        |         |         |         |         |                       |                       |
| BOD (kg / T of product)                                      | 4.65   | 1.69   | 1.03    | 0.88    | 0.84    | 0.81    | -3.3                  | -82.5                 |
| COD (kg / T of product)                                      | 23.36  | 9.08   | 6.60    | 6.38    | 5.98    | 5.78    | -3.3                  | -75.3                 |
| AOX (kg / T of product)                                      | 0.433  | 0.049  | 0.031   | 0.032   | 0.026   | 0.024   | -6.7                  | -94.4                 |
| Air Specific Emissions                                       |        |        |         |         |         |         |                       |                       |
| SO <sub>2</sub> (kg SO <sub>2</sub> / T of product)          | 1.32   | 0.40   | 0.32    | 0.24    | 0.22    | 0.18    | -15.6                 | -86.0                 |
| NOx (kg NOx / T of product)                                  | 1.31   | 0.90   | 0.83    | 0.85    | 0.80    | 0.78    | -2.2                  | -40.2                 |

 $\textbf{Note:} \ \textit{Direct CO}_2 \ \textit{Emissions are the fossil emissions produced by pulp and paper mills and connected energy plants.}$ 

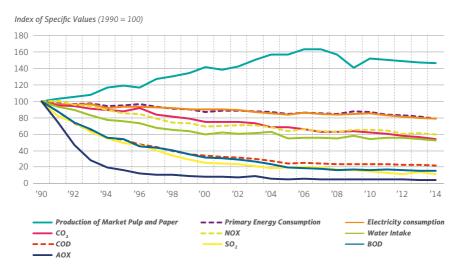
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 $<sup>^{1}\,</sup>Excluding\,Hungary\,, Romania\,\&\,Slovenia\,-\,Excluding\,Poland\,before\,2003\,-\,Figures\,for\,2015\,will\,be\,available\,in\,December\,2016.$ 

<sup>&</sup>lt;sup>2</sup> Including all CEPI countries from 2005.

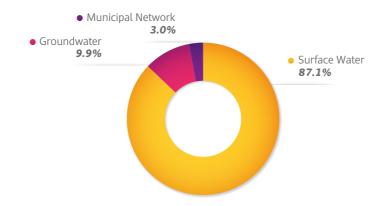
### **Environment** | Environmental Impact and Water

### Evolution of Environmental Impacts of the CEPI Pulp and Paper Industry<sup>1</sup>



Water Emissions: COD (Chemical Oxygen Demand) - BOD (Biological Oxygen Demand) - AOX Air Emissions:  $CO_2$  - NOX (Azote Oxydes) -  $SO_2$ 

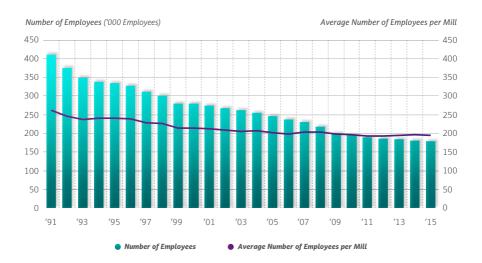
### CEPI sources of Water Intake in 2014<sup>1</sup>



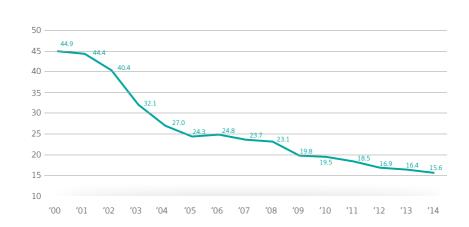
<sup>&</sup>lt;sup>1</sup> Excluding Hungary , Romania & Slovenia - Excluding Poland before 2003 - Figures for 2015 will be available in December 2016.

### Social Affairs | Employment and Accidents

### **CEPI Employment Evolution**



#### CEPI Accident Rate<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> Accident rate: Number of accidents (fatal and non-fatal) x 1000/number of employees (absence of more than 3 days) Figures for 2015 will be available in December 2016 Including Austria, Finland, France, Germany, Italy, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom

#### Glossary

#### **PULP**

Pulp Consumption: Production + Imports from outside CEPI - Exports to outside CEPI

#### Pulp Grades:

Mechanical - Stone groundwood: pulp produced by grinding wood into relatively short fibres.

CEPI Harmonised Code is 923 000 000

Thermo-mechanical: pulp produced in a thermo-mechanical process where wood particles are softened by steam before entering a pressurised refiner. CEPI Harmonised Code is 923 400 000

Semi-chemical: pulp produced in a two-stage process which involves partial digestion with chemicals, followed by mechanical treatment in a disc refiner. CEPI Harmonised Code is 921 000 000

Chemical - Sulphite: pulp produced by cooking wood chips in a pressure vessel in the presence of bisulphite liquor. CEPI Harmonised Code is 922 200 000

Chemical - Sulphate (or kraft): pulp produced by cooking wood chips in pressure vessels in the presence of a sodium hydroxide (soda) liquor. CEPI Harmonised Code is 922 100 000

Other Pulp: Pulp produced from fibres other than wood, such as sugar cane bagasse, wheat straw, kenaf, cotton rags and hemp.

#### PAPER

Paper and Board Consumption: Production + Imports from outside CEPI - Exports to outside CEPI

#### Paper Grades:

Newsprint: paper mainly used for printing newspapers. CEPI Harmonised Code is 100 000 000.

Uncoated mechanical: paper suitable for printing or other graphic purposes where less than 90% of the fibre furnish consists of chemical pulp fibres. CEPI Harmonised Code is 211 000 000.

Uncoated woodfree: paper suitable for printing or other graphic purposes, where at least 90% of the fibre furnish consists of chemical pulp fibres. CEPI Harmonised Code is 231 000 000.

Coated papers: all paper suitable for printing or other graphic purposes and coated on one or both sides with minerals such as china clay (kaolin), calcium carbonate, etc.

CEPI Harmonised Code for Coated Mechanical is 212 000 000 and for Coated Woodfree is 232 000 000.

Sanitary and Household: This covers a wide range of tissue and other hygienic papers for use in households or commercial and industrial premises. CEPI Harmonised Code is 700 000 000.

Case materials: papers and boards mainly used in the manufacture of corrugated board. Included are kraftliner, testliner, semi-chemical fluting, and waste-based fluting (Wellenstoff). Also known as containerboard, corrugated case materials, cardboard, linerboard or corrugating medium. CEPI Harmonised Code is 300 000 000.

Carton board: made from virgin and/or recovered fibres, mainly used in cartons for consumer products. Also known as solid board, folding box board, boxboard or carrier board. CEPI Harmonised Code is 400 000 000.

Wrappings (up to 125 g/m2): papers whose main use is wrapping or packaging made from any combination of virgin or recovered fibres, bleached or unbleached. Included are sack kraft, other wrapping krafts, sulphite and grease-proof papers. CEPI Harmonised Code is 500 000 000.

Other papers mainly for packaging purposes: this category embraces all paper and board mainly for packaging purposes other than those listed above. CEPI Harmonised Code is 600 000 000.

Other paper and board: includes cigarette papers and filter papers, as well as gypsum liners and special papers for waxing, insulating, roofing, asphalting, and other specific applications or treatments.

CEPI Harmonised Code is 800 000 000.

#### PAPER FOR RECYCLING

Collection: utilisation plus exports minus imports of paper for recycling.

Utilisation rate: percentage of paper for recycling utilisation compared to the total paper & board production. Important Note: Paper for recycling is composed of fibres but also unusable materials - non-paper components as well as paper and board detrimental to production. The share of unusable materials depends on the actual sorting and collection of used paper. It varies according to paper for recycling grades and countries. The volume of recycled fibres actually used to produce new paper is therefore lower than the volume of paper for recycling considered. The utilisation rate compares utilisation of paper for recycling to paper & board production.

Recycling rate: "utilisation of paper for recycling + net trade of paper for recycling ", compared to paper & board consumption

Utilisation by sector: total utilisation of paper for recycling in a sector as percentage of the overall utilisation of paper for recycling.

#### **CEPI National Associations' Contact Details**

#### Austria AUSTROPAPIER

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## Belgium

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#### Finland FFIF

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