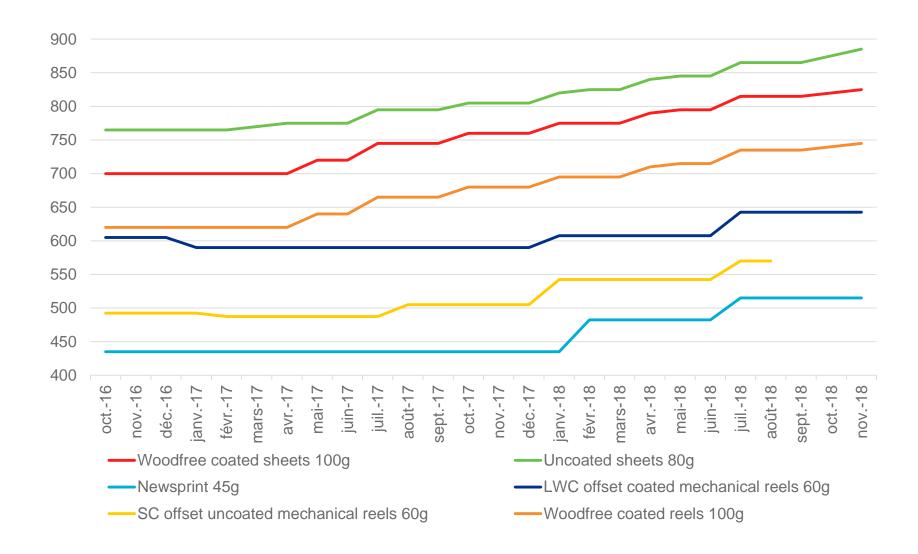
Current state of the industry: resources

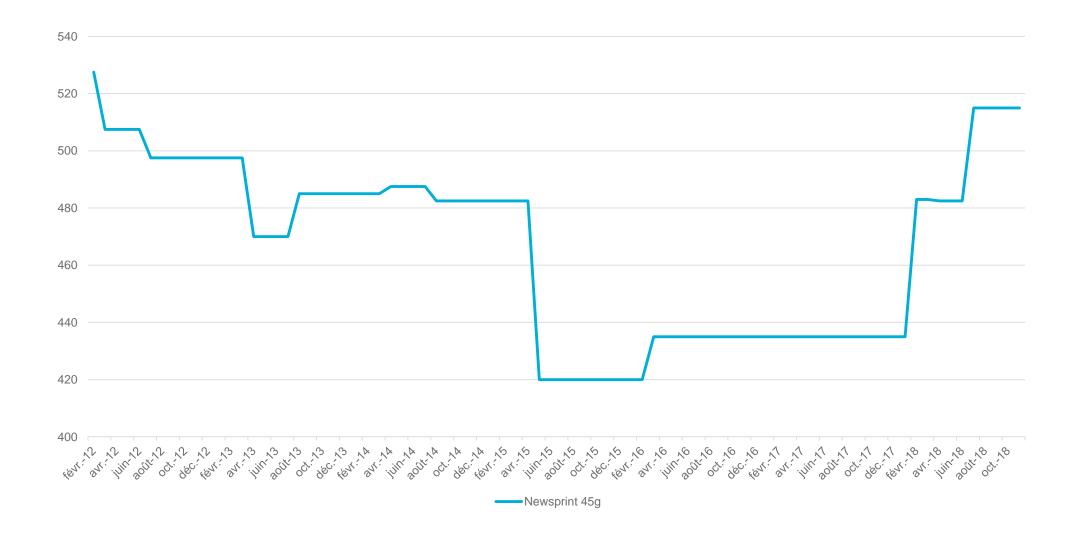
Laetitia Reynaud
Policy Advisor

INTERGRAF

Increased pressure on production costs with the recent graphic paper prices increases.



The example of newsprint.



Graphic paper mills conversion to packaging grades.





NEWS

Sappi to increase packaging and specialty paper capacities

08 Feb 2017 – Sappi has announced a number of projects which include capacity expansions in Europe and the US. They aim at increasing capacities for packaging and specialty paper at different facilities.

Sappi plans to raise capacities for packaging and specialty papers and



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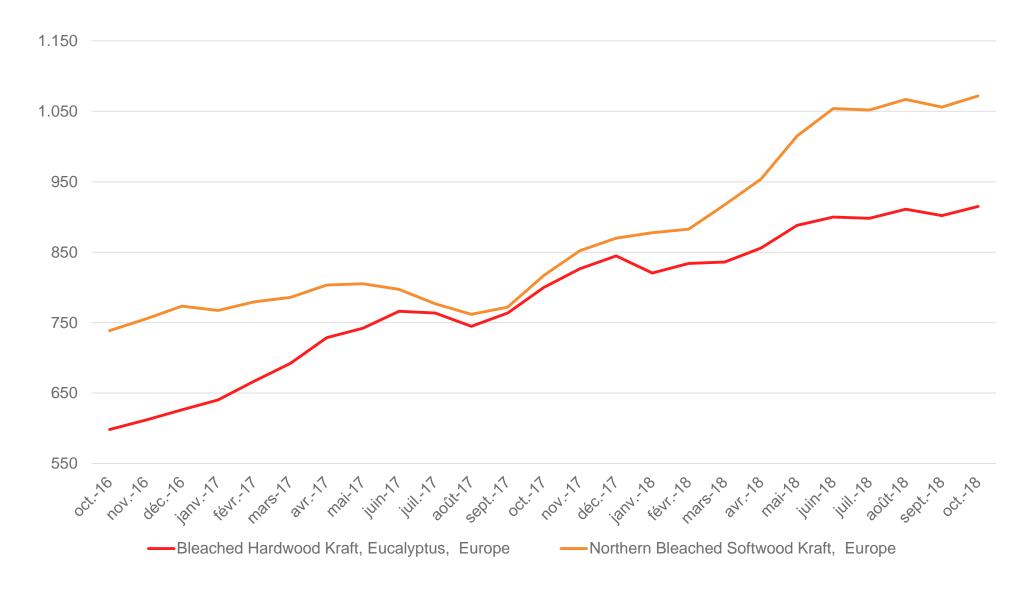
Source: Sappi

on the other hand reduce capacities in the coated graphic paper segment. The different measures are to be implemented during the next three years, from 2017 to 2019. About \$140m are to be spent on the measures in Europe and another \$165m on those in the US.

As one of the projects, Sappi intends to convert its Maastricht plant in the Netherlands to a solid bleached board facility. The company expects that the solid bleached board business at the site will grow to 150,000 tpy in the next three years. The displaced graphic paper volumes would be assigned to other mills, Sappi said.

Sappi furthermore announced it would expand lightweight packaging and specialty papers capacity at its German Alfeld site by 10,000 tpy. The company also said that equipment would still be a special of the company and the same of the company as well as

Increased pulp prices.



Tight pulp market.

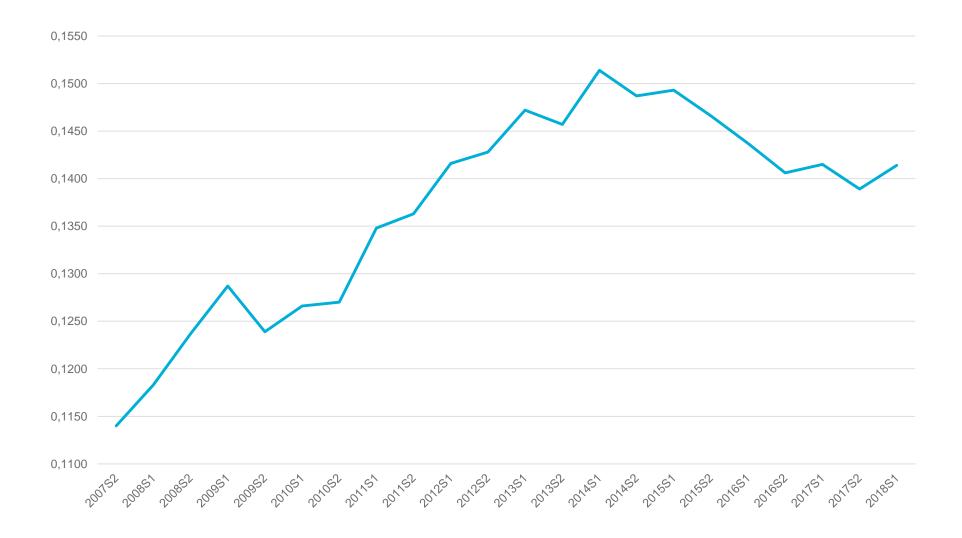








Energy costs.



Ink manufacturers have also implemented price increases.

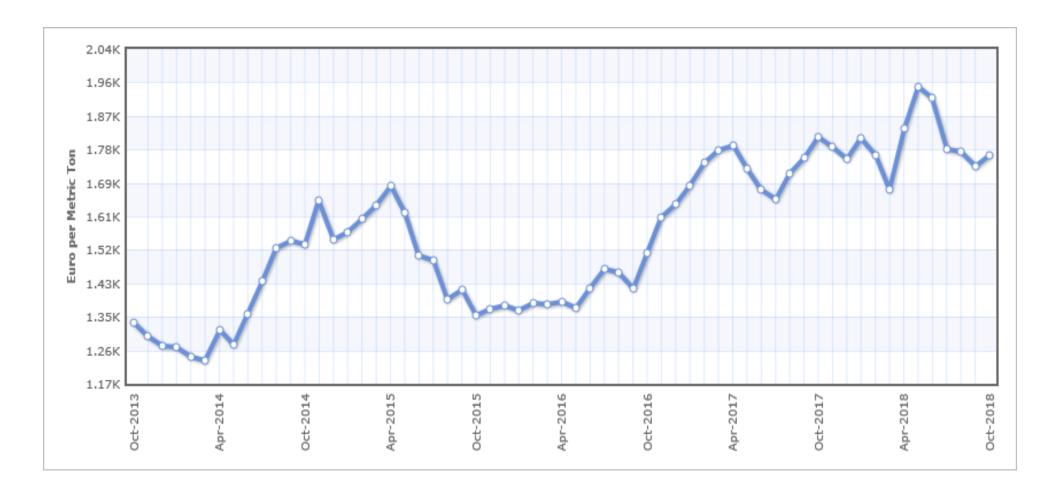
- Pigments
- Dyes
- Carbon black
- Photoinitiators





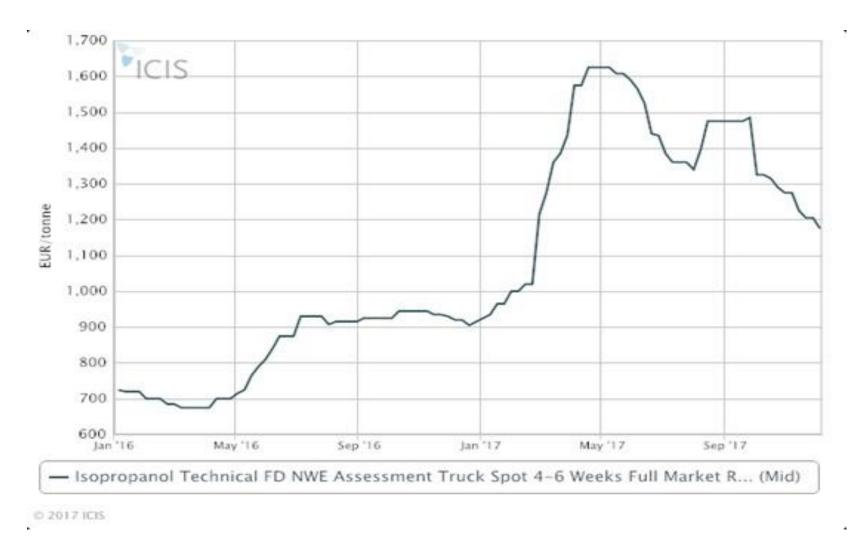
Costs of other input materials are also increasing.

Printing plates



Costs of other input materials are also increasing.

Isopropanol



THANK YOU!

