

**PITA  
ANNUAL  
REVIEW**  
**2018-2019**



**Paper Industry Technical Association**  
5 Frecheville Court,  
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## Annual Review 2018-2019

*Compiled by the PITA Office*

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P I T A

Paper Industry Technical Association

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The company has over 200 years of industrial history and was reborn through the demerger of the pulp, paper and power businesses from Metso Group in December 2013. Valmet's net sales in 2017 were approximately EUR 3.1 billion. Valmet's objective is to become the global champion in serving its customers.

Paper Industry Technical Association  
**Annual Review**  
**2018-2019**



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# Chairman's Message



Since I last stood before you as your newly elected Chairman, over twelve months ago, your Association has continued to face numerous challenges as we reorganise to meet the changing needs of the papermaking sector as it moves closer to a low carbon, low manpower industry. The PITA Office Staff continue to work extremely hard and diligently to contain financial stress whilst continuing to maintain the First Class Service that members have come to expect from PITA. We console ourselves in knowing that, at least one person has a tougher job than the one we face, but more of Theresa May and Brexit later!

Your Association has been active in Europe for many years and it is our intention to continue to represent the UK in Europe wherever we can, post-Brexit, participating in committees and contributing to Conferences. We are seeing the development of exciting new opportunities in developing parts of Europe and our goal is to ensure that Paper Technology International is read in each and every one of these new markets.

The referendum vote has encouraged us to look at opportunities outside of the EU and we have found many other organizations facing similar challenges to ourselves. We believe very strongly that by sharing resources and, to some extent financial burdens, we can ensure the longevity of the Technical Association role both at home and overseas.

Much like our colleagues in industry, the finances of the Association remain under pressure. Selling advertising across PITA's Media Portfolio is increasingly challenging, whilst production costs are NOT falling. Paper Technology International continues to generate a surplus that is invested in the Association and changes in the way we sell advertising should cast our net further and into deeper waters allowing us to continue to produce a highly respected and valuable technical publication.

Despite being Papermakers at heart, we cannot afford to ignore the opportunities offered by digital publications and the fantastic new prospects these open up. Our tablet optimized PAPERmaking! e-magazine has been well received and continues to grow, providing a vehicle for features and content that might not make it into a hard copy publication (what's a few electrons between friends) and has allowed PITA almost instant access to distant markets.

The PAPERmatters! Conference was deemed a resounding success by all in attendance, with Lancaster University providing a high quality, cost-effective venue for suppliers to air a plethora of excellent technical presentations covering nearly every aspect of the modern paper mill, including some which have yet to be adopted within the UK. The Social Evening, complete with 'Casino Papeterie', was an immensely successful networking event as delegates tucked into succulent Plumgarths Burgers produced locally (less than a mile from James Cropper's Burneside Mill and considerably more tasty than a ream of coloured card). Thanks must go to Jim Patterson and Zoe from Two Rivers Paper for showing the big mills the real way to make paper (by hand), though not everybody's sheet met the necessary quality standards.

Despite being one of the best-attended events of the past few years, we would have still liked to see even more members of the UK Papermaking Family there and will be working closely with mills and suppliers as we move towards the next PAPERmatters Conference in 2020, which also marks the centennial year for PITA. The team is already making special plans for this momentous occasion and please consider this as an early invitation to join us in this celebration of papermaking.

Reflecting the changes in the way the PITA Office operates, we have liberated two floors of office space in Frecheville Court and, after some renovation (after all, PITA had been there for over twenty years) we have been able to let some of the offices on a commercial basis generating valuable income for the Association. Whilst issues with aged Central Heating Plumbing did cause some issues, everyone is settled into the new workspace and it's very much business as usual, if not better!

In 2018, our target was to offer at least one training course per non-vacation month and our aim is to start increasing that in 2019. PITA courses provide much needed specialized and vital education to support the Paper Industry both at home and overseas. We do not just look to the industry to support these courses; we work closely with our mill based members to identify and develop new courses to fill gaps and raise the level of Papermaking expertise in the UK.

PITA devotes much time to supporting our other organizations within our industry, helping them to better serve our members. Be that working closely with our colleagues in the CPI on projects such as the 2050 Roadmap and Industrial Strategy or with BSI in monitoring and filtering news related to the development of new standards, we freely share our expertise as we strengthen relationships for the benefit of mills and suppliers. The sharing and distribution of non-competitive technical expertise are central to PITA's raison d'être and we very much aim to practice what we preach.

In time-honored tradition, it only remains for me to close this address by thanking the various parties that have made it possible for me to stand here, in front of you, today. Thanks must go to the PITA Office Team for their efforts and contribution over the past twelve months in keeping the Association alive, vibrant and a positive asset to the industry. I would like to thank my fellow Directors for giving of their time so freely and supporting the PITA Office Team through what has not been the easiest of years. I would like to thank our hosts, Smurfit Kappa Townsend Hook, for throwing open their doors and inviting us to witness what they have achieved over the past few years, especially Kevin Bussey who had to explain to his Boss that we were coming today. Most of all though I would like to thank all of you, the 'rank and file' members, for joining us here today and for continuing to support PITA. Stood here today surrounded by like-minded individuals with a keen technical interest in all things paper makes the journey down and back up the M6 almost bearable (note that I did say 'almost').

**John Kirby**

## PITA Board

### 2018-2019

John Kirby *National Chairman*  
 Graham Moore *Immediate Past Chairman*  
 Stephen Hutt *Financial Director*  
 Helen Dolan *Company Secretary*  
 Martin Wroe  
 Tim Klemz

### 2017-2018

John Kirby *National Chairman*  
 Graham Moore *Immediate Past Chairman*  
 Stephen Hutt *Financial Director*  
 Helen Dolan *Company Secretary*  
 Martin Wroe  
 Tim Klemz

### 2016-2017

Graham Moore *National Chairman*  
 John Kirby *Deputy Chairman*  
 Martin Wroe *Immediate Past Chairman*  
 Stephen Hutt *Financial Director*  
 Helen Dolan *Company Secretary*  
 Tim Klemz

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*Chief Executive*  
 PITA Office



**Helen Dolan**  
*Company Secretary*  
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# Review of the year



## Hawkins Wright Symposium Nov. 2018 (LONDON)

Daven Chamberlain

*Editor, Paper Technology International*

The Hawkins Wright Symposium rolled into town during London Pulp Week; a successful formula that continues to pull in the majority of market pulp producers and merchants, along with their main customers. This symposium was the last to be held before Brexit becomes a reality, so it is interesting to note that numbers were slightly down this year compared to last, with a registered attendance of 322 (against 340) representing 35 countries (against 37 last year). That said, it is still easily the largest meeting of this sector on UK soil, and numbers of Chinese representatives were in particular noticeably absent (almost certainly due to the introduction of Shanghai Pulp Week a few of years ago). Nevertheless, London is still a global city with immense pulling power, and it is expected to continue attracting the brightest and best in our sector going forward.

Every year I make a feature of listing the sponsors, since they are so vital to the event's success. Last year there were nineteen; the same number were present this year, although there were three changes. The current list is: **Altri; Cenibra; CMPC Pulp; Ekman; Eldorado Brasil; Fibre United (UPM & Canfor); Fibria; G2 Ocean; Ilim; Itochu; Klabin; Mercer Pulp; Metsä; Nouryon; Omya; Södra; Stora Enso; Suzano and Valmet.** (April and Aruaco dropped out this year, being replaced by Klabin and Suzano; in addition Akzo Nobel has been renamed Nouryon following the sale of **AkzoNobel Specialty Chemicals** to **The Carlyle Group** and **GIC.**)

### Liam Halligan (economist, author and broadcaster)

Liam opened the event with the now customary overview of *The global economic outlook*. Since around two-thirds of the pulp price is governed by macro-economics, where geopolitics has a major effect, Liam outlined what were to him the six most important themes likely to effect the world in the foreseeable future: (1) Quantitative Easing; (2) Trade Wars; (3) Oil Price; (4) Eurozone Stability; (5) Emerging Market Stability; and (6) Brexit.

Starting with QE, although this has ceased in the US and UK, it is still continuing in other areas, notably Japan and the EU (where it is termed 'Target 2'). In the EU it is due to stop in late 2019, although that is not definite; in addition, in the US the economy is starting to take off, and the Federal Reserve is already increasing interest rates to stifle inflationary pressures. An argument is ongoing between the Fed. and President, the result of which will indicate whether the bank is able to retain its independence; in turn this may have repercussions elsewhere for other central banks, such as the ECB and Bank of England.

The trade war between USA and China relates to an attempt to get the Chinese to open their market and respect Intellectual Property rights. However, the US has huge debts, and the Chinese are major buyers of US Treasury Bonds, so they have leverage. Overall the Chinese know that the US cannot remain strong on this issue indefinitely, as too many US jobs depend upon steel and other commodities supplied

by China; so this is political posturing at best.

The oil price last year ranged from US\$50-80/barrel. Two major producers, Russia and Saudi Arabia, have very different requirements: Russia budgets on US\$38/barrel, so anything above that is a bonus; meanwhile the Saudis need a higher price, especially as they are trying to float **Saudi Aramco**. Russia and the Saudis appear to be cooperating, so a new level of US\$70-75 is likely to become the norm.

Currently, Liam sees the Eurozone crisis as the greatest source of disharmony in the world economy. Germany has benefitted widely from the Euro; Italy and others have not. The migrant crisis of 2016 caused further destabilisation. Overall, fiscal union, that great plan of the Eurocrats, now looks less likely than ever, and there is still talk of forming a 'two tier Europe'.

With the recent devaluation of currency in China, Turkey and Argentina, Emerging Markets are looking in a stronger position than ever. Furthermore, the dominance of the US as the world's largest trading nation is looking less safe, such that some commodities are moving away from the US dollar as the preferred currency. (For example, Russia and China already trade oil in a different currency.)

Finally, Brexit still looms on the horizon. Although it tends to dominate the thinking of UK politicians, in terms of the world economy it is a more minor disturbance. Nevertheless, it will still have an effect, the magnitude and direction of which is yet to be determined.

### Markus Mannström (Stora Enso)

Markus Mannström spoke next, and started by giving a potted history of Stora Enso (which can be applied to any number of other paper companies): (1) their main business model involved building and running paper machines; (2) they restructured, taking out uneconomic capacity; (3) they looked to the East, notably China, especially for packaging; (4) currently they are investigating new markets for biomaterials & biochemicals.

Their current mantra is that everything made from fossil fuels today can be made from a tree tomorrow.

In terms of pulp manufacture, they are still manufacturing traditional paper-quality grades, but are looking to expand their fluff and dissolving output going forwards. In addition they have dipped a toe in the water with regard to biocomposites, by producing a wood fibre / plastic granulate which can be heat and pressure formed into furniture and other products. The 15,000tpy plant at the Hylte Mill is a proof of concept, and going forwards the plan involves substitution of plastic derived from fossil fuel with that produced from lignocellulose raw materials.

Another area in which they operate is production of microfibrillar cellulose (MFC). This can be used as a general strength enhancer, for producing speciality grades (including wet-laid nonwovens), as well as a rheology modifier and barrier film material. Currently its use allows Stora Enso to reduce packaging board weight by 4-8%, but retain strength properties; hence it allows better material efficiency. In addition it is fully repulpable and recyclable.

Lignin production (*Lineo*™) is another area in which Stora Enso has ventured. The plant at their Sunilla Mill has capacity for 40,000tpy, and current uses include adhesives, production of carbon fibre, and as a component in batteries (where carbonised lignin forms the anode material).



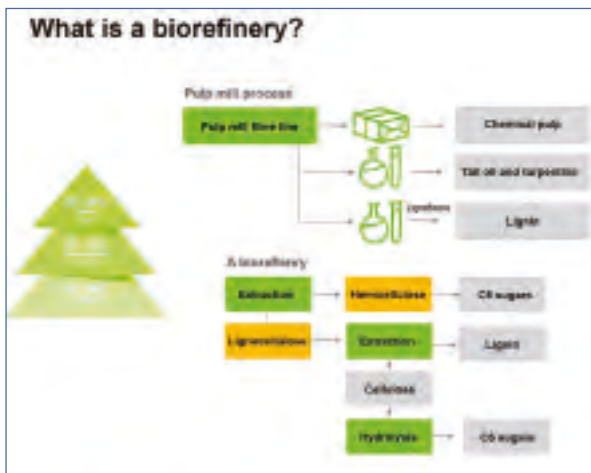


Figure 1. Graphic showing the principal differences between a traditional pulp mill and a biorefinery.

The final area discussed was dissolving pulp production for sustainable textiles. Big brand owners wish to increase the use of cellulosic fibres in textiles. Stora Enso are investing to debottleneck existing DWP mills, and are researching to expand their DWP portfolio to include nanocellulose and other speciality grades (not necessarily those produced by the traditional viscose process).

The pulp mill of today has the main output as paper-grade pulp, with a few minor side-streams such as tall oil, turpentine and lignin. The modern biorefinery concept will continue to produce these, along with C5 sugars from hemicellulose, and C6 sugars from cellulose, and a host of other minor extractives will also become available (Figure 1).

#### Nina Elmersson (Ekman)

The end of Markus' talk segued nicely into the last of the initial session, where Nina Elmersson discussed creation of the *Challenge The Fabric (CTF) AWARD 2018*. Ekman are one of a number of pulp suppliers (including **Altri**, **Arauco**, **Sanyou Group** and **Södra**) looking to highlight the environmental benefits to be gained from using viscose derived from wood over raw cotton as a textile fibre. However, initial discussions with those in the fashion industry highlighted that using trees as a raw material generally held negative connotations in the minds of the populous. Hence, in order to promote the sustainable nature of products derived from trees, they had to get buy-in from the fashion industry in general, including those in education.

The result was to create a new award that was launched at London Fashion Week, backed by a significant prize (€30,000). This resulted in the major fashion departments throughout Europe sending their best students (Figure 2). Furthermore, rather than just relying upon traditional jour-

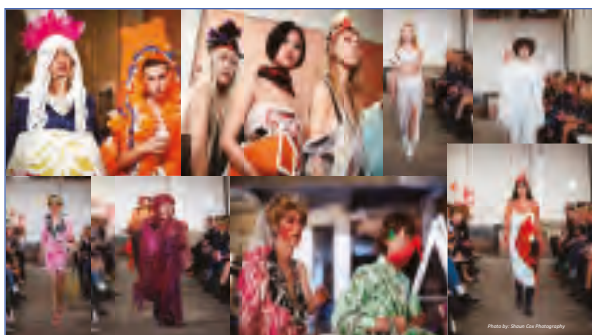


Figure 2. Fashion students and models at the CTF Award 2018 Fashion Show. (Photo by Shaun Cox Photography)

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nalists to cover the story in print media, they invited bloggers and ‘influencers’ to the event. This approach not only saved money, but to date has meant the message has reached an estimated 29 million people.

Interestingly, in discussion during the interval with Nina, it emerged that all of this was done without any collaboration with PEFC, who are also working in this area. Maybe one day our sector will present a unified front to the outside world ...

**Paul Foulkes-Arellano (Precipice Design and A Plastic Planet)**

This first talk after the break was entitled *Opportunities for the paper industry in a plastic free world*. The premise was simple: replace plastic by alternative sustainable materials. The approach was zealous: composites, where plastic derived from fossil raw materials plays a functional role alongside paper, are also wholly unacceptable. Nothing short of complete cessation of plastics derived from fossil sources would be acceptable in order to stop the annihilation of wildlife.

Currently 40% of the world plastic is used for packaging, half of which is used for food and drink, much of it in the form of composites (so-called ‘hidden plastic’). Paul’s focus is purely upon the food and drink sector, and his stated belief is that none of this is necessary. Therefore, his aim is for design agencies to think what can be achieved without plastic in their armoury.

Current interests are to use corn waste (husks / cobs), rice waste, food waste, cotton waste and grass waste as raw materials. [Grass is already being used by **Huhtamaki** in The Netherlands for food packaging; also it is being used as a part pulp replacement by **Schuefelen** and **Zanders** for P&W grades in Germany.] Similarly, cultivated bamboo, forestry and seaweed are possible raw materials. Already in the UK compressed rice waste is being trialled as a raw material. Also, in Scotland, seaweed is already being cultivated for food and medicinal use, but not as yet for packaging.

There is no doubt that plastic does cause problems in the environment – from basic litter, to its slow degradation in the natural environment, right through to the potential issues caused by micro-plastics to the endocrine system of various animals. Recycling is not considered an option, even if the infrastructure was there, because during all recycling operations there is degradation of raw material quality. Also, use of plastic ‘waste’ ultimately as a combustion fuel is deemed unacceptable, despite the fact that only 4% of oil globally is used to make plastic – 96% is used for transport, mainly as fuel. The view being pushed is that materials which can degrade with time, are based upon natural resources and that are sustainable, are what should be progressed. However, the sustainability of trees as raw materials was considered equivocal, with Paul having stated categorically that several well-known organisations (such as **Greenpeace**, **WWF**, **Friends the Earth**) are not in favour of their use. Where this leaves the global paper industry, which relies heavily upon the packaging sector for capacity, is uncertain.

Ultimately, what came over from this talk is that PR is key. Phrase the question correctly, and get ‘neutral’ or ‘trusted’ groups on your side, and the answers ‘demanded’ by the public flow. Overall, a very interesting discussion, with some exciting

propositions as regards possible future directions, but blinkered as to any benefits bestowed by plastic and disappointingly equivocal as to the paper and pulp industry sustainability credentials.

**Marco Eikelenboom (Sappi Europe)**

The penultimate talk was entitled *The come-back of Graphic Paper: making print media relevant again*. This was a fascinating presentation that seemed to buck ‘received wisdom’. The crux was this: although the publication sector has taken a hammering in the last decade, Sappi consider it has about plateaued. Therefore, there is still a significant amount of tonnage to pursue, and Sappi see this as worthwhile, providing it can be achieved with optimum cost control to maximise revenue.

So the focus of Sappi is to invest in the sector, mainly in cost leadership, and where possible to integrate pulp production (because pulp is the single largest cost component of paper, and when purchased from external suppliers is subject to significant cyclic price variation, hence integration offers the most efficient use of assets). That said, of the 175MT of virgin fibre used in annual paper production, only 111MT is integrated, and of the remaining 64MT of market pulp, graphical paper still remains the number two market (29%), behind Tissue (37%).

Using EBITDA (Earnings Before Interest, Tax, Depreciation and Amortization) as a measure of operating performance, Sappi as a paper producer is being squeezed between the pulp producers (with EDITDA of around 25%) and the FANG (Facebook, Apple, Netflix and Google) digital media companies (EDITDA 30%). They, and printers, merchants and paper publishers are managing EBITDA of 5-10% only. So, since 2012, Sappi has invested over £500M to improve cost competitiveness in order to retain their market share. Furthermore, they consider that digital media is near saturated as regards advertising, and that print will regain some market share as advertisers seek to spread their material across platforms. To this effect, Sappi anticipate that by 2022-2024 the print market should have stabilised (*Figure 3*), albeit with half of the volume (compared with 2008) having disappeared.

**Tom Wright (Hawkins Wright)**

The final talk was the traditional tour de force from the ranks of Hawkins Wright, given this year by Tom, titled as ever: *The outlook for market pulp*. He started by stating that, for the first time in 15 years (since the start of these Symposia?) that we are approaching a state where investment in

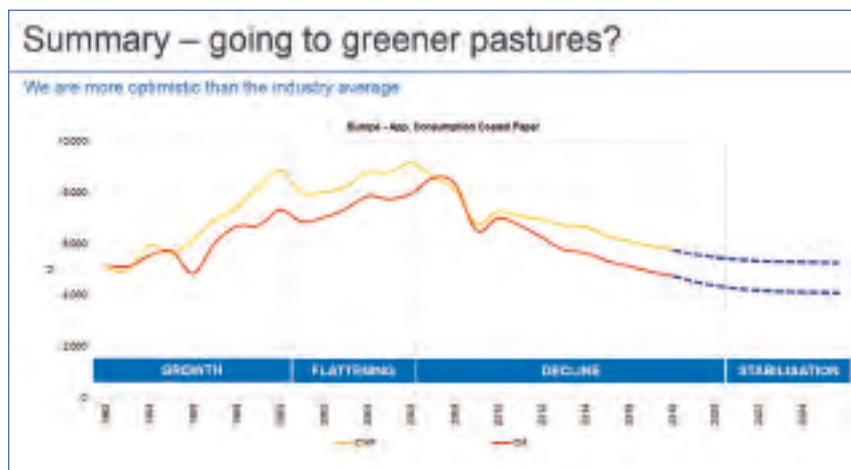


Figure 3. European consumption of coated paper, forecast to the mid-2020s.

new capacity is behind the demand 'trend'. Invariably, investment tends to exceed the underlying demand; not now. Therefore, with the prospect of pulp remaining to be scarce unless some redundant capacity is brought back online, pulp prices are likely to remain high for the next 2-3 years.

It is difficult to see the supply-side responding given the widespread pulpwood shortages; ageing asset base; extreme weather events, climate change; and the current hiatus in the investment cycle (probably until 2021). Alongside this, commodity prices remain high in general, and there is the potential for price sensitivity affecting demand, with paper producers possibly having to select lower grade fibres if they are unable to achieve price rises going forwards.

That said, the global forecast 2017-2022 suggests growth of an extra 5.5Mt, driven mainly by tissue. However, a certain amount of new tissue capacity is integrated. That said, hygiene (tissue and fluff) currently accounts for around 47% of market pulp demand. Also, this does not take into account India, which is a major emerging market especially for the hygiene sector, but also for fibre in general given its current rate of expansion.

Main risks to pulp forecast relate to affordability. Despite rising prices, margin pressure is evident in P&W and speciality sectors, and tissue margins are also being squeezed. Non-integrated assets are most vulnerable, since they are subject to external pressures buffeting the worldwide commodity market. Renewable credentials of paper packaging may be over-looked if paper becomes too expensive. Meanwhile, tissue demand is more resilient, but qualities may change.

Whenever discussing the market pulp outlook it is necessary to mention China, which today accounts for 34% of global pulp demand (up from 14% a decade ago). Pulp de-

mands very much depend upon China, but remain hard to predict. Chinese buying patterns remain unpredictable, and although shipments in 2018 have been slowing, they remain healthy. Meanwhile, paper prices in China are stagnating, and currently are back to where they were in 2016. Also, the restrictions imposed by China in 2017 on importation of low grade recovered fibre did not stimulate an increase in virgin fibre imports, as had been expected. Instead, there has been an increase in importation of finished product (notably recycled grades such as newsprint and fluting) into China in this period. What the Chinese companies have been doing in recent years has been to invest in pulp production assets at source, notably in USA, Canada, Finland and around Asia.

One other change that has been more prevalent in the last 2-3 years has been the change of graphic assets into packaging production, so removing graphical tonnage from the market pulp sector. In Europe this amounts to 3MT (2014-2019), and in USA 4.1MT (2016-2021).

In conclusion, since 2017, where supply-side disruptions have dominated, capacity assumptions have consistently been revised lower, due to project delays, mill conversions or integrations, and existing capacity has failed to operate efficiently due to various disruptions. We now assume the supply-demand balance of 90-91%. Global BCP capacity increases are due to be +2MT in 2018, +0.5MT in 2019, and zero in 2020 (subject to DWP conversions). Going forward, Arauco MAPA is due online in 2021, then very possibly RGE/Lwarcel, UPM Uruguay, Suzano/Fibria, several projects are mooted in Russia and Finland ... but none before 2021-22. In conclusion, we have never seen such a structurally strong industry, and scarce fibre should ensure that inflationary forces will persist for the foreseeable future.

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***We know our strengths!***

# VALMET BREAKFAST SEMINAR November 2018 (LONDON) Daven Chamberlain Editor, Paper Technology International

This annual meeting, held during London Pulp Week and just prior to the Hawkins Wright event, consisted of two presentations outlining Valmet's contribution to the Äänekoski Bioproduct Mill and their latest approach to process optimisation.

Teemu Toivo commenced the meeting with a presentation entitled *New innovations in use at the Äänekoski Bioproduct mill*. This site encompasses Europe's largest ever forest product investment. From commencement of construction it took 18 months before production started, and just a year later it had produced its first millionth tonne. Valmet's contribution was Millwide Automation, the Recovery Boiler, the Lime Kiln with Biomass Drier, the Sulphuric Acid Plant, and the Pulp Drying Line including Robo-Baling. The *Recox* boiler (Figure 1) produces 2.4 times the energy required by the mill, thanks in part to the innovative heat recovery system, which

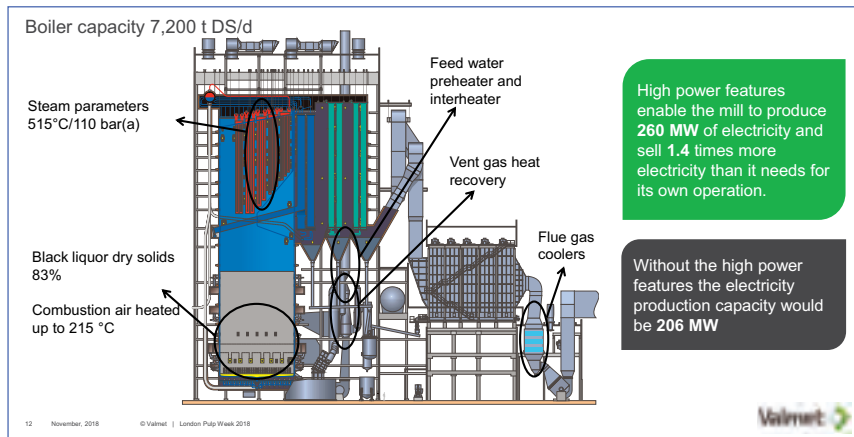


Figure 1. The High Power RECOX boiler.

adds around 30MW to the total 260MW output (representing, incidentally, around 2.5% of all electricity production in Finland). One interesting safety feature of the set-up is the smelt sprout cleaning robot, which minimises interactions between humans and this dangerous part of the recovery boiler. The biomass-fuelled Lime Kiln produces a saving of around €100k/day (compared to use of natural gas), is CO<sub>2</sub> neutral, and gives high efficiency without the need for cooling tow-

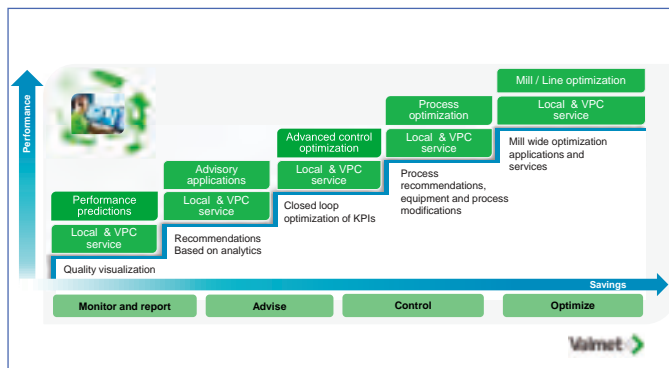


Figure 2. Valmet as a performance provider. Facilitated by Industrial Internet.

ers. The acid plant is a joint development between Valmet and Metsä, and uses sulphur in odorous gases as a raw material; the quality is sufficiently high that purchase of external product has ceased; furthermore, the output can be ramped up should Metsä decide to instigate lignin production. Finally, the new pulp drying line allows for more even quality of production going forwards, and the close-control has reduced moisture variability from up to +/-12%, to +/- 1%, meaning that customers should receive a more reproducible quantity of fibre in each bale.

The other presentation was by Manfred Eberhardt on *Mill-wide optimization – taking your mill profitability to the next level*. This was a talk about Valmet's current approach to control and planning software applications. Historically they have produced programs to control over the period of seconds (PID controllers) or minutes / hours (typically APC applications) (Figure 2). Now they are targeting process coordination and optimisation over the timescale of hours and days, looking at whole processes not just individual applications – processing that is usually undertaken using multiple spreadsheets. The Valmet approach looks for how upstream operations affect downstream processes; for example, how bleaching is better controlled by improving washing, which itself is improved by controlling the digester – an example of a cascade forward

approach (Figure 3). A case study was given for a European Printing Paper Mill (360,000tpy) which wanted to reduce costs. Analysis found that production of higher strength product, by over-refining stock, increased costs significantly. By controlling stock preparation accurately, and operating consistently at the lower end of 'satisfactory' final strength, gave a €4M/y saving.

Although the first presentation set out to highlight their contribution to a major European installation, the second gave an example of what Valmet can do for any mill site, large or small. In particular, regarding automation and software optimization tools, major technology providers such as Valmet have tools that can benefit all sizes and types of mills, and events such as this are a prime way they can get the message across to a wider audience.

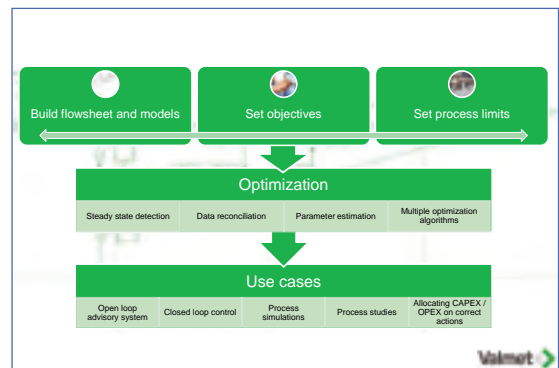


Figure 3. Valmet Mill Wide Optimization. How it works and how it can be utilized.



Technology



Industry  
knowledge



Analytics



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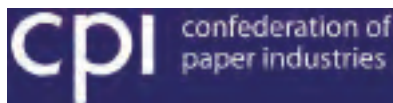
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## Energy Review 2018

Steve Freeman

Director of Environmental  
& Energy Affairs,

CPI



With Brexit dominating political and news agendas, energy didn't draw much attention during the year once the 'almost' gas crisis early in the year was forgotten. Yet long-term prices ticked up relentlessly.

For energy security, the perfect storm of gas supply issues in early March (peaking demand due to bad weather (the Beast from the East) plus an unrelated set of varied connector pipeline problems) highlighted the lack of UK strategic storage following the closure of the key facility at Rough. Gas prices on the spot market briefly reached 275p/therm, with a related spike in power prices. These prices, together with the balancing service methodology operated by National Grid, pushed down demand and no enforced cuts were required. However the issue did raise concerns that the lack of UK controlled strategic storage is a huge and unrecognised risk. After intensive lobbying, BEIS and their Parliamentary Select Committee (with CPI supported input) are currently considering the issue and if action is needed.

Elsewhere on gas issues, the Committee on Climate Change drew attention to a lack of progress with reducing emissions of fossil carbon dioxide associated with heating and of course the first instinct of Treasury is to push up prices to reduce demand. Already an increase in CCL rates has been announced. Decarbonising heat is likely to be a priority for BEIS during 2019 and a joint CPI/PITA working group has already flagged the importance of gas to UK papermaking and highlighted the current lack of viable and cost effective alternatives.

For electricity, the key issue is the unrelenting increase in non-commodity costs and a continued change to the fundamental generating mix. The varied non-commodity costs now make up around 60% of a typical bill. Many of these costs are related to the switch to low-carbon generation and the closure of old-coal fired sets. Making coal uncompetitive is a deliberate policy, largely delivered through high carbon costs, with the budget confirming CPS taxation staying at £18t/CO<sub>2</sub> plus a major increase in EU ETS costs as a result of the forthcoming reduction in the availability of EU ETS emission allowances through the market stability reserve. Certainly the political will is that higher carbon costs are here to stay.

Replacement low-carbon generation obviously needs to cover its capital costs and varied policies deliver the reassurance required by investors. The Renewable Obligation continues to increase (even though now closed to new entrants), as does the Feed-in-Tariff and the new Capacity Market. The most recent result of Capacity Market auctions does suggest that prices are being driven down (especially for offshore wind) but the costs from existing contracts are built into the system for up to 20 years – indeed if the new nuclear plant at Hinkley is built, then it's guaranteed inflation linked income for 35 years at roughly double the current market price.

With this new generation capacity being in different places (often offshore) to that being replaced, major structural changes to the power grid are underway with huge associated cost. These are also filtering through to bills with increases to system and distribution network operation

charges well above inflation. Ofgem is also in the midst of reviewing the way many of these costs are shared between different classes of customer. Strong lobbying by CPI has obviated the worst impact of some of these proposals on mills, but debates are ongoing.

Fortunately some of these costs are reduced for many mills thanks to the varied discounts and compensation schemes, though a recent report from the steel sector reminded Government that Energy Intensive installations pay hugely more for grid supplied electricity than competitors in France and Germany.

Of course these cost increases reinforce once again the importance of energy efficiency, with PITA and CPI continuing to work with BEIS to deliver the varied actions itemised in the sector 2050 Decarbonisation Roadmap. BEIS is now delivering on some of their policy promises with fiscal support programmes agreed to bring forward new technology and recover heat from currently waste heat. Hopefully 2019 will see a number of paper mills winning support through these programmes.

Returning to Brexit (where else could we end!) the UK energy market is in an odd place. While Brexit planning is requiring regulatory links to be unpicked, the commercial reality is that investment in new interconnectors (for both power and gas) will bring the operation of UK and continental energy markets closer together – increasingly important as systems struggle with the more intermittent nature of renewable energy; indeed expectations are that around 20% of UK electricity could be imported.

For Climate Change policies, the UK has already confirmed that Brexit will have no impact on the national strategy to decarbonise the economy. EU ETS prices have bounced around as the implications of Brexit play on the market with no clarity on the situation after March – in a hard-Brexit, the UK is out straight away (with a replacement carbon tax), if a negotiated deal, the time to the end of December 2020 will allow a decision on UK participation in the longer-term.

Whatever happens, the fight for competitively priced energy will continue against the context of policies to reduce UK emissions. If energy efficiency isn't high up your list of priorities for 2019 it should be!

### RECENT AND UPCOMING BOOKS

*Nanocellulose: Fundamentals towards the Development of Materials*

Jin Huang and Ning Lin

Wiley (ISBN-13: 978-3527342693)

*Paper-based Diagnostics: Current Status and Future Applications*

Kevin J. Land

Springer (ISBN-13: 978-3319968681)

*The Pharaoh's Treasure – The Origin of Paper and the Rise of Western Civilization*

John Gaudet

(Amberley Publishing (ISBN-13: 978-1445689944)

*Biotechnology for Pulp and Paper Processing*

Pratima Bajpai

Springer (ISBN-13: 978-9811078521)

*Physical Testing of Paper*

Roman E. Popil

(ISBN-13: 978-1910242926)

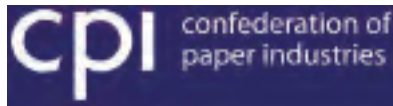
*"Paper Mills" Extracted from the Simmons Collection*

Herbert Edward Sydney Simmons

BAPH (ISBN: 978-0-9525757-5-7)

# Environment Review 2018: Challenges & Opportunities

Debbie Stringer  
Environment Manager,  
CPI



## Environment Review 2018: Challenges & Opportunities

Well, here we are two years on from the “Brexit Decision” but, at the time of writing, little clearer on the outcome and implications, for environmental matters at least. The only certainty, that the outcome and implications will continue to dominate the challenges and, indeed, the opportunities into 2019, and quite possibly beyond!

Other than the ifs, buts and maybes of Brexit, 2018 saw progress in a number of key areas.....

### BAT/BAT AELS

The compliance deadline for working to Best Available Techniques (BAT) and the associated BAT Associated Emission Levels (BAT AELs) passed at the end of September. These requirements are now written into mill permits with the first reporting deadline for BAT AELs being end of January 2019. This reporting period is for October to December 2018 and is, therefore, only an **indicative** BAT AEL as the AELs themselves are **annual** loads. They will, however, be a good indicator of any necessary improvement to achieve the BAT AELs by the next reporting period of January 2020 which takes in the full twelve months of 2019. Compliance with the BAT AELs based on this, 2019 data **is required**.

### Abstraction Reform

Following several years wrangling with the problem of reforming the regulation of freshwater abstraction, to make the link between abstraction and availability of water, a simplified proposal making use of existing regulation was announced with the **Abstraction Plan**. The plan has three strands, Licencing, Catchment approach to solutions and Infrastructure.

With regard to licencing there are elements around revoking unused licences and licencing previously exempt abstraction activities. The most important facet of this strand, however, is moving all abstraction licencing into EPR Permitting. For mills with existing EPR permits, this will involve a variation to bring in abstraction volumes and conditions.

The catchment focus will look at how to assess water availability in a catchment and bring stakeholders together to work on solutions within the catchment, based on the premise that issues, and therefore potential solutions are different for each catchment. Priority catchments are being identified with four in 2018 followed by a further six in 2019, to pilot the development of catchment licencing strategies. The selection of the catchments will be on the basis of priority /water stress. Defra and the EA have formed two working groups. One is looking at how to move from licencing to

EPR and the other at indicators for assessing flows and availability within a catchment. CPI is involved, representing the paper sector, in both these working groups. As each priority catchment is identified a catchment stakeholder group will be established to look at water management within that catchment. It will be important, at this stage, for any paper mill within a Priority Catchment to get involved with their catchment group. The EA has published a Timetable for these changes with licencing moving into permits by 2020 and the abstraction licencing strategies to be published in 2020 and 2022 for the ten identified priority catchments. The principles could then be rolled out to other catchments on the basis of need.

The third strand of the plan, involving the infrastructure, includes the development of flow monitoring and digital licencing, allowing online access to licences and data.

Given the importance of water as a resource for the Paper Industry it is vital to be involved at all stages in the development and implementations of the Abstraction Plan.

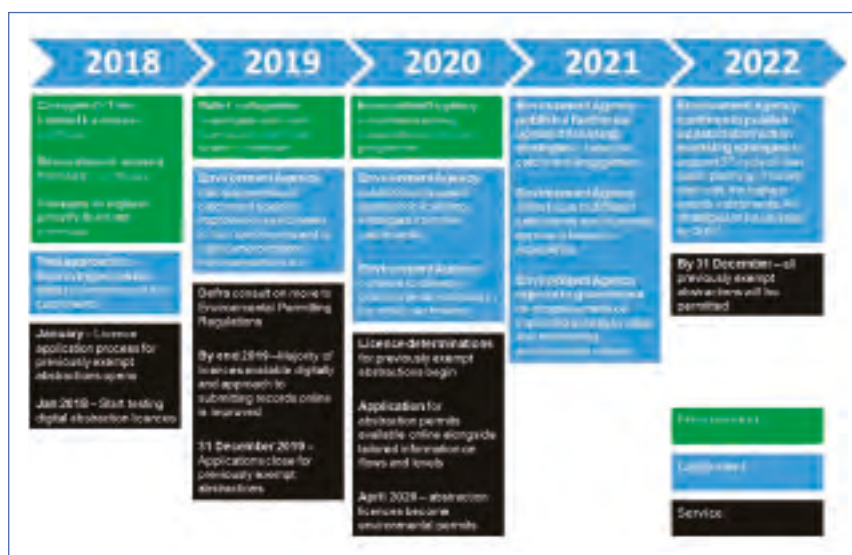
### Performance Based Regulation

The EA began the process of streamlining its assessment and scoring of permit compliance in 2018, replacing the Operation Risk Appraisal (OPRA) score with performance Based Regulation (PBR) over a “five-year strategic programme”. The OPRA system classes sites based on their risk, scale of emissions and complexity, combined with a rating of compliance with permit conditions, whilst PBR which combines new and existing approaches to regulation into four strands:

- information-based regulation
- permit compliance
- incentive-based regulation
- behavioural interventions

PBR will focus more on abiding with permit conditions, with the most compliant installations subject to fewer inspections and lower fees, according to the EA. There are opportunities here, to gain and to benefit from recognition for good performing mills. The challenge will be in responding to EA consultations and other interaction with the regulator to ensure appropriate criteria for assessment.

Each of these key areas present challenges and opportunities in their own right, going forward into 2019, with the added challenge and, indeed, opportunity if whatever the outcome and implications of Brexit may bring in 2019 ... and beyond!



# Tissue Review 2018

Pirkko Petäjä

Principal Consultant,



Pöyry Management Consulting

## High pulp prices is the focal topic

The market pulp prices have continuously risen since late 2016 and are currently on a record high. In the tissue industry this is today the main topic everywhere; the ability to transfer the raw material prices to the product prices determines the feasibility of the industry even more than the market growth and the competitive situation.

The continuing economic growth has reflected in high pulp prices but also in good tissue demand growth in many locations, though political turmoil, low oil prices etc. have weakened the market in for instance Latin America and the Middle East.

Tissue demand is not very sensitive to cyclical variations in the economy; certain demand sustains and grows regardless of economic cycle depending on fundamentals like basic consumption per capita, penetration of usage and population growth. However, the economic growth strengthens tissue consumption. Especially sensitive is the AfH segment through high employment rate, increasing tourism and eating out etc. In an economic boom also the quality requirements increase and boost consumption in terms of higher number of layers, new products etc.

## Europe

The Western European tissue demand is forecast to continue to grow some 1.6%/a over the next couple of years. The Eastern European (excluding Russia) market has experienced some growth variations in the recent years, but has still growth potential; the market is forecast to grow 3.5% per annum until 2025. Total European growth is estimated at 1.9%/a.

Capacity increases have been brisk especially in some European regions making the situation locally even tighter than it already is due to the high pulp raw material prices.

## Americas

In North America the market growth rate for total market is estimated at 1.8%/a, but the growth is focused on retail Private Label and Away from Home segments. These growth segments show in the next years some 3.0% annual growth rate. The PL penetration maintains an upward trend as major tissue retailers continue to expand and invest in their PL pro-

grams. The growth is especially good in high quality PL products as producers must compete successfully with the branded products. Many PL players have invested in premium base paper technologies such as NTT and TAD.

The Latin American longer term tissue market growth is estimated at some 3%/a. Brazil and Mexico together account for most of the market. The consumption of tissue in Brazil has been practically stable due to the unfavourable economic situation, but will grow again as the economy improves. The annual growth rate is conservatively estimated at 2.7% in the long term (below the regional average). Mexico has had a more stable growth, and many of the smaller Latin American economies have significant potential due to the currently very low consumption per capita.

## Middle East and North Africa

For the past decade the Middle East and North Africa have been among the fastest growing regions. However, recent years especially in the Middle East have shown slower growth rates due to e.g. decreasing private spending, devaluation of currencies, sanctions (Iran) and political instability or turbulence.

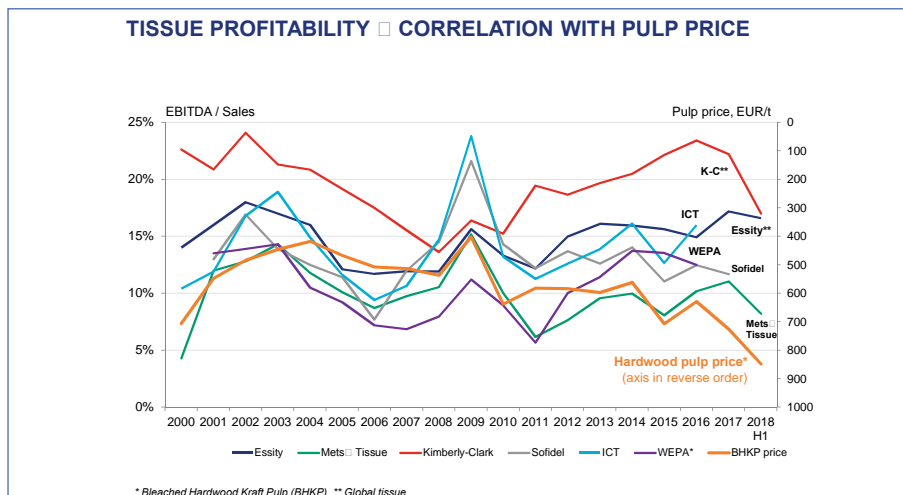
The MENA area (excluding Turkey and Israel) is forecast to grow some 5.4%/a in the next couple of years. Tissue demand growth in Saudi Arabia and the UAE is forecast to be slow as a result of the sluggish economies and introduction of 5% VAT, but forecast to pick up in 2019-21. Consumption in Turkey continues on steady growth track, but so do also the capacity expansions. Also due to the devaluation of the currency the export of especially jumbo reels continues strong.

## China and other Asia

The global tissue growth continues to be led by the growth in Asia, particularly China where the growth continues at 5-6%/a rate. China and Indonesia impact the global market also as exporters of tissue. China has a significant impact in the fibre markets as well; the recovered fibre ban has increased virgin fibre consumption and contributed to the high pulp prices globally. Also European and American recovered fibre balance has had an impact.

## How do the high pulp prices impact?

The current pulp prices account for some 70% of virgin tissue jumbo reel costs and about 50% of the converted product costs. It is clear that pulp price is the single most important driver for the tissue business profitability. The fibre integrated players have had a major advantage since last year. This has further increased the interest in the integrated concept.







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# European Containerboard and Corrugated Board Review 2018

Outi Juntti,  
Jay Partners



## Market continues on growth path

As the past has shown containerboard and corrugated board market reacts quickly on movements in macroeconomics, particularly those of industrial production, and often on even slight changes in near future projections. This was very visible in 2018; during the first two quarters industrial production was growing briskly at some 2.5-3% but decreased to some 1% in the third quartile (the final quartile data being unavailable as yet). The European containerboard and corrugated board market followed the same pattern and until May the market grew by over 4% in Western Europe and over 5% in Central and Eastern Europe. However, slight signs of softening of the demand started to emerge during the fourth quartile and prices in e.g. Germany, Poland and Italy started to decline. However, the fundamentals supporting corrugated packaging remain unchanged and further boost deriving from e-commerce growth and increasingly negative perception of plastic packaging can be expected.

## New investment announcements keep rolling in

The favourable market development has continued now for several years, good future prospects as well as companies' desire to keep up with the competition and technology development have been driving investment activity since recession. At some point financiers and industry experts have raised concerns of oversupply and market unbalance and certain projects have been postponed or even cancelled. However, year 2018 turned out to be more active in investment front than any year so far.

In recycled containerboard five new machines, IP Madrid, Pro-Gest Mantova, Burgo Avezzano, Leipa Schwedt and Schumacher in Poland, started up bringing nearly 2MT of new capacity. Furthermore, several new investment decisions were announced including giant Propapier PM3 in Germany with annual capacity of 750,000 tonnes and Burgo's Verzuolo conversion. Plans under consideration were published as well as e.g. DS Smith, Blue Paper and Palm revealed that they are investigating new recycled containerboard machine projects. Robust market development in kraftliner is also inducing capacity expansions. During the summer Stora Enso, SCA and Ilim Group all revealed that they are investigating kraftliner investments in Finland, Sweden and Russia. As for Mondi, the company decided to go ahead with the Ruzomberok kraft top white liner machine in Ruzomberok Slovakia. When taking into account Kipas's plans in Turkey and few smaller projects in Germany and Italy, the decided and planned expansions total over 6MT. Without significant closures of older machines, the market will need nearly a decade with the average demand growth to absorb this volume should all the projects materialise.

## Two giants leading the consolidation

The two largest companies in both containerboard and corrugated board production, Smurfit Kappa Group (SKG) and DS Smith, have been leading the industry consolidation. In this respect 2018 was no exception, but others like SAICA and Mondi were active on acquisition front as well.

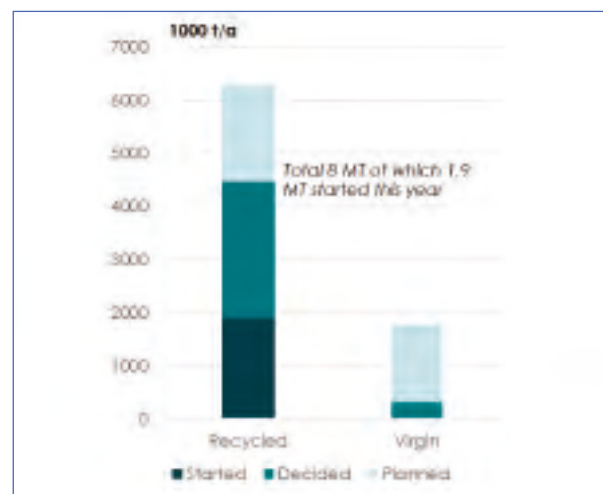
In June DS Smith's bid on Spanish Europac became public and in November European Commission (EC) approved the

acquisition on condition of divesting one Europac corrugated plant in Portugal and two of its own plants in France. The Europac acquisition provides several benefits for DS Smith; it strengthens the company's position in Iberia and France, which together account for well over 20% of the European corrugated box demand. Furthermore it gives a significant boost to the containerboard capacity; 1.1MT and extensive product portfolio consisting of white-top grades and kraftliner, where DS Smith has been lacking own production. The deal will strengthen the company's position as the second largest player in Europe.

The largest company, Smurfit Kappa, did not stay idle either, but made again few rational moves. In May it took over Parenco, a Dutch containerboard and recycling company, which improved the group's paper integration by over 400,000 tonnes and created access to additional 700,000 tonnes of recovered fibre. In October SKG expanded its presence in South Eastern Europe by signing an agreement with Kappa Star Group for the acquisition of recycled containerboard producer Fabrika Hartije Beograd and corrugated packaging company Avala Ada in Serbia. Smurfit Kappa benefitted also from the DS Smith Europac deal and in December it purchased the two French DS Smith corrugated plants that EC requested to divest. Furthermore, SKG took over Papcart, a French FMCG and luxury cartonboard and corrugated board manufacturer.

First news on SAICA's plans to take over the French Emin Leydier were published already in July 2017 and the deal was sealed by the competition authorities on March 1, 2018. Emin Leydier's two mills in France increased SAICA's containerboard capacity to 3.3MT and the eight corrugated plants made the company as the third largest in France after SKG and DS Smith. Mondi's acquisition of Finnish semi-chemical fluting (NSSC) producer Powerfute was also initiated in 2017 and approved by EC in May. The deal will fortify Mondi's position as one of the leading virgin containerboard producers in Europe and expands its product portfolio with the highest quality NSSC grade.

All these deals described above can be considered as very reasonable strategic moves which will hopefully not only improve the operations of the companies in question but also enhance the overall position of corrugated board packaging in the eyes of brand owners and retailers. Large companies will be able to serve them better due to economies of scale and pan-European presence whilst smaller players can provide more advanced value proposition in their selected geographies or products.



Containerboard capacity expansions in 2018

# Newsprint Review 2018

Gustav Ek  
 Consultant  
 Pöyry Management Consulting

2018 has again been an interesting year for the newsprint market with the uncertainties surrounding Brexit continuing to dominate the agenda. In 2017 the pound reached its lowest level against the Euro since 2009 and although it recovered marginally towards the latter half of 2017 and the start of 2018 it has remained very weak throughout the last twelve months.

Domestic UK newsprint producers have benefited to some extent from the weak pound as higher import prices has meant an increase in demand from the home market. They have also benefited from the weak pound by exploiting the export opportunities this creates. *Figure 1* shows how the UK balance of trade has shifted. Net imports of newsprint have been falling for the last few years and this continued in 2018 with quantities in July and August falling below 20,000 tonnes per month. This can be attributed to the weakened pound against the Euro.

A positive thing for newsprint producers is that newsprint prices have increased over the last twelve months and at the same time over the same period RCP prices have remained fairly stable (as shown in *Figure 2*). This means clearly improved margin potential for the mills. However, with advertising spend continuing to decline and moved to other media platforms and circulation figures continuing to fall it has resulted in increasingly worrying times for publishers with titles being forced to be discontinued or moved increasingly to on-line platforms. The RCP prices are also showing recovering trends although uncertainties in the RCP market continue. The latter half of 2017 and beginning of 2018 saw news & pams prices in Germany and UK decreasing after significant increases for the previous eighteen months. However, as *Figure 2* illustrates prices have recovered during 2018 and are once again on the up creating challenging times for newsprint producers whose production costs are dominated by recovered paper prices. With increasing demand for recovered paper coming from the tissue manufacturers the price of recovered paper is likely to continue to increase in 2019.

In 2017 China announced that from the start of 2018 it

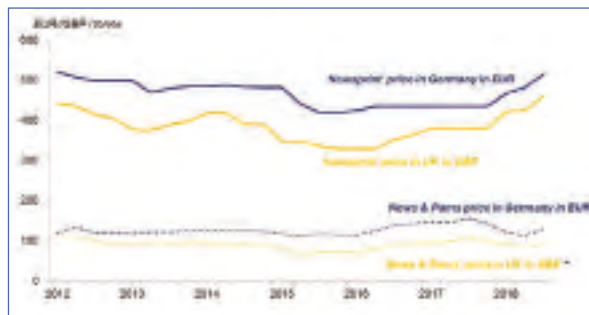


Figure 2: UK and German newsprint price v price for news & pams



Figure 3: UK news and pams exports to China

would impose much tighter controls on waste paper coming into the country, banning the import of OCC and mixed waste paper and tightening the quality standard of waste it receives by introducing maximum contamination levels permitted. As *Figure 3* illustrates the export of news and pams from the UK to China has been in decline since 2015 but stabilised for 2016 and 2017. Although the controls imposed by China do not extend to news & pams, 2018 nevertheless has seen a decrease in exports from UK to China, whereas the export to the Rest of the World has increased substantially from the previous two years in which there was significant decline.

Newsprint demand continues to fall in Europe. 2016 - 2017 saw a decline in the region of 5-6%. Capacity in Europe fell in 2018 by nearly 450,000 tonnes mainly due to the conversion of Leipa PM 5 and the shutdown of Papierfabrik Utzenstorf AG PM's 1 and 2. There are currently no further planned capacity reductions for 2019



Figure 1: The UK newsprint monthly Net Trade (Net Imports)

# Wood-Based Panels Industry Review 2018

Orifjon Abidov

Economic Adviser,

European Panel Federation



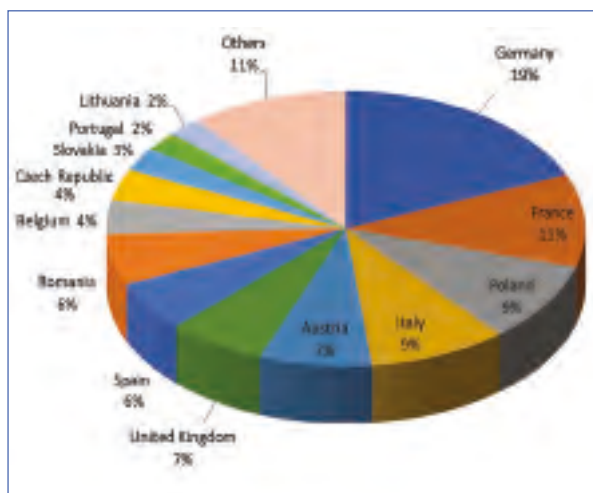
## Summary

According to the figures drawn from the EPF Annual Report published in July 2017 - an extensive compilation of industry statistics collected by the federation - the total production of European wood-based panels increased by 3%, reaching a total of 57.6 million m<sup>3</sup>. Particleboard production increased by 2.7% to 31.2 million m<sup>3</sup>. Medium Density Fibreboard (MDF) also grew, recording an increase of 1.5% to a total of 12.3 million m<sup>3</sup>. Oriented Strand Board (OSB), the third largest panel type by volume, rose by 3.3% to 5.6 million m<sup>3</sup>. Regarding Softboard, its production increased by 6.9% to reach 4.9 million m<sup>3</sup>. Plywood production in Europe developed very positively with an impressive growth of 7.8% to 3.2 million m<sup>3</sup>. The only panel type that did not increase in production terms during 2017 was Hardboard which dropped by 3% to 0.5 million m<sup>3</sup>.

## Development by sector

Following an upturn in 2015 and 2016, the European **particleboard** production in the EPF member countries increased further by 2.7% in 2017, exceeding the expectations. Output amounted to nearly 31.2 million m<sup>3</sup>. Germany remained the largest particleboard producing country in Europe with 5.8 million m<sup>3</sup> in 2017, accounting for just under one fifth of the EU-EFTA production volume (19%).

The expectations for 2018 are quite positive with a rise in production in the whole EU-EFTA area, estimated at +2.5%. The overall European particleboard production capacity increased slightly by 0.4% in 2017 or 130,000 m<sup>3</sup>, amounting to 36.5 million m<sup>3</sup>. The only addition of capacity took place in Switzerland. The overall European particleboard production capacity is foreseen to increase by maximum 4.6% in 2018 to reach almost 38.2 million m<sup>3</sup>. New capacity will be added in Poland and there is a capacity expansion project in Spain. At the same time, there are two projects to restart existing plants in Italy and Slovenia in 2018, although it depends on when these investments will come on stream.



Breakdown of particleboard production by country in 2017

**MDF** production in Europe grew further by 1.5% in 2017 reaching 12.3 million m<sup>3</sup>, excluding Turkish and Russian production. With a growing output (+7%) of about 3.8 million m<sup>3</sup>, Germany is still the largest European MDF producer in 2017 followed by Poland, France, the United Kingdom and Spain in decreasing order of importance. The European production capacity of MDF increased very slightly by 130,000 m<sup>3</sup> to 15 million m<sup>3</sup> in 2017, mainly as a result of the extension in one plant in Italy.

The European production of **OSB** rose by 3.3% in 2017 to 5.6 million m<sup>3</sup>. Germany and Romania have the largest European OSB production capacities. Following an expansion in 2017, Poland and the United Kingdom now complete the Top 4 of OSB production countries measured by capacity, followed by the Czech Republic, Ireland and Latvia. The European production capacity of OSB increased significantly in 2017 by 6.5% to 6.9 million m<sup>3</sup>. In 2018, new capacity is expected only in Luxembourg, which will take the European OSB production capacity to 7.1 million m<sup>3</sup>.

In 2017, the production of **hardboard** in Europe excluding Russia continued to decrease by 3% compared to 2016, down to a total of 526,000 m<sup>3</sup>. Total EU 28 and EFTA installed production capacity for hardboard amounted to 707,000 m<sup>3</sup> in 2017, a drop from 742,000 m<sup>3</sup> the previous year. This followed a closure in France where a plant was closed at the end of 2016. Russia is by far the main European producer, followed by the EU leaders Poland and Bulgaria. When taking into account Russia, Belarus, Ukraine and Serbia, the total European production capacity reached 1,424,000 m<sup>3</sup> which is a decrease of 2.4% compared to 2016.

For the sixth year in a row, the European production of **softboard** increased. In 2017, output rose by 6.9% compared to 2016, reaching nearly 4.9 million m<sup>3</sup>. Rigid softboard accounted for 62% (63% in 2016) of the output and flex softboard for 38% (37% in 2016). The installed production capacity for rigid softboard remained stable at 3.5 million m<sup>3</sup> in 2017. The production capacity for flex softboards also remained stable at 2.2 million m<sup>3</sup>. For both softboard types, Poland, France and Germany are the main producers in Europe. Poland has the highest capacity for rigid softboards, whereas Germany is the leader in flexible softboards. Switzerland too has a significant production capacity for rigid softboard, albeit at a reduced level from 2014.

In 2017, the EU28 **plywood** production amounted to 3.2 million m<sup>3</sup>, representing an increase of 7.8% compared to 2016. This important increase is unequally shared by the different countries. The highest increase is recorded for Spain with a more than 15% growth, as a consequence of the development of new capacity. Finland and the Baltic States also show significant increases: 9% and 7% respectively. The overall European output increased by 2.6%. Despite a slight decrease of its output, Russia remains by far the largest producer in Europe representing more than half of the total European production, followed by Finland, Spain, the Baltic States, Italy and France. In 2018, production is expected to increase by around 3% in the EU28 as well as in Russia.



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# Exhibitions for 2019

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<https://paperoneshow.net>

**4 – 7 February**

Paperweek Canada  
[www.paperweekcanada.ca](http://www.paperweekcanada.ca)

**25 – 27 March**

Tissue World Europe, Italy  
[www.tissueworld.com](http://www.tissueworld.com)

**5 – 8 May**

PaperCon 2019, USA  
<http://papercon.org>

**25 – 27 June**

Zellcheming, Germany  
[www.zellcheming.de](http://www.zellcheming.de)

**18 – 20 September**

Paper ME / Tissue ME, Egypt  
[www.papermideast.com](http://www.papermideast.com)

**9 – 11 October**

MIAC, Italy  
[www.miac.info](http://www.miac.info)

**3 – 6 December**

Paperex 2019, India  
<http://india.paperex-expo.com>



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For those receiving this publication by surface mail,  
please note the change to a biopolymer wrapper;  
part of PITA's support for the Bioeconomy.

## PITA TRAINING COURSES - Q1/Q2 2019

**PITA Energy Optimisation (26<sup>th</sup>/27<sup>th</sup> February)**

**PITA 'An Introduction to Tissue Manufacture' (12<sup>th</sup>/14<sup>th</sup> March)**

**PITA Pump Efficiency (30<sup>th</sup> April)**

**PITA Paper Appreciation (14<sup>th</sup>/15<sup>th</sup> May)**

**Fundamentals of Waste Water Treatment (11<sup>th</sup>/12<sup>th</sup> June)**

*See PITA website for updates and further details*

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# The Paper Industry Gold Medal

## *Call for Nominations*

*From time to time there are a few outstanding people who work to further the interests of their industry, over and above their duties to any individual company. The Paper Industry, like any other, owes its success to the commitment, effort and skill of these ambassadors. For over forty years the UK paper industry has sought to reward this commitment in the form of a prestigious annual award*

### **A Brief Background:**

The **Gold Medal Award** was established in 1966 by “*The World’s Paper Trade Review*” magazine which was published by Benn Brothers and edited by Eric Haylock. The magazine later became known as “*Paper*” and its publishers continued to sponsor the Medal until 1993.

In 1982 Mr George Mandl, himself the Gold Medal winner in 1981, launched the **Paper Industry Gold Medallists’ Association** with the support of all concerned and since 2005, a newly formed independent ‘**Gold Medal Association**’ has undertaken this responsibility and representatives from other supporting Paper Industry Organisations have been invited to serve on its Award Committee. All Gold Medal winners are automatically members of the **Gold Medal Association** and thus it is probably one of the most exclusive associations in the UK Paper Industry.

### **The Future of the Medal:**

Since the Medal was launched the UK Paper Industry has changed a great deal. Accordingly the number and type of businesses, industries and organisations associated with it have increased too. To reflect these changes, the Committee wishes to broaden the scope of the award to encourage more support from associations / organisations and to enable nominees from a wide variety of backgrounds across the Fibre, Paper and Board Value Chain to be considered.

This is your opportunity to be involved by nominating a potential recipient.

### **How to Nominate Someone:**

Nominations are accepted from associations and other organisations associated with the industry, or from individuals or companies through their respective organisations.

The nominees must be within a pulp or paper related industry and the nomination must include supporting material which demonstrates the individual’s personal contribution to the Industry as a whole, not just to their company.

Nominations are invited Annually. The Committee must receive all nominations by the end of January in order that the Gold Medal can be presented at an appropriate industry function; indeed, it is usual to make the presentation at the Charter Dinner of the Worshipful Company of Stationers and Newspaper Makers, which usually takes place around May.

If you would like to nominate someone, please write to the address below giving as much information about your nominee as possible and in particular provide specific examples of your nominee’s achievements on behalf of the industry and why you consider him (or her) to be a suitable recipient of the medal.

**All nominations MUST be received at the address below by the end of February.**

### **What about the Winner of the Gold Medal?**

Winning the **Gold Medal Award** is a prestigious achievement and as such brings the recipient well-earned publicity and recognition. The winner automatically becomes a member of the **Gold Medal Association** and is invited to write a paper on their topic of expertise which will be offered for publication in the UK’s leading Trade Journal, **Paper Technology**.

### **For Further Information:**

Contact the **Honorary Secretary** (Barry Read) via:

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trade show  
to connect paper mills  
and downstream  
customers**



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### Concurrent Events



### Organizer



### Concurrent Events

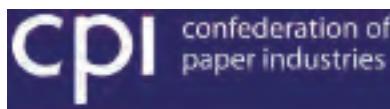


### Organizer





Information supplied courtesy of CPI, CEPI and HM Revenue and Customs



## 2017 – Summary

As reported last year, 2016 was remarkably quiet, and 2017 followed a very similar vein. The reopening of Tawd Mill by Essity was a highlight, but the closure of PM2 at Stubbins meant that the year ended with very little change in total installed capacity.

That said, the pie chart displayed overleaf describing the destinations of recovered fibre makes interesting reading, especially when compared to recent years. Exports of Pfr to China had been on the rise for a decade, until their instigation of the National Sword regulations which banned imports of low grade waste. Exports to China dropped by 8% in 2017; data shows this slack to have been taken up by indigenous UK manufacturers (which is to be welcomed), India, Indonesia, Vietnam and the EU.

## 2018 – Preliminary Assessment

No new capacity came on stream during 2018, although Ahlstrom Churnside did commence laying down a second-hand Voith machine obtained from China, due to start in 2019-2020. Both Palm and Smurfit Kappa Townsend Hook added new power plant which will significantly cut their carbon footprint. Iggesund Workington announced updating of their coating kitchen and finishing area to improve quality and efficiency. Finally, as regards manufacturing, 2018 saw the welcome return of an old name (Portals) to the industry, as De La Rue divested its papermaking arm.

On the converting side of the industry, a reasonable amount of investment occurred. There was consolidation involving Solidus Solutions Board buying Northern Paper Board Ltd; Logson acquiring the Cardboard Box Company; Duni purchased 75% of Biopac UK Ltd; and VPK Packaging Group increased their holding of CorrBoard UK. Next there was investment, notably Rigid Containers extending their premises at Limerick; the Greaseproof Printing Company commencing operations in Wales; Progroup AG stated plans to build new plant in the UK; and two paper straw manufacturers were formed following the announcement by the UK Government of plans to ban plastic straws by 2019-2020: London Paper Straws Ltd is based in East London and The Paper Straw Company in situated in Manchester.

Finally, it is worth a quick note about fibre sources. Following sustained pressure from environmentalists and celebrities, extra work has been performed by UK companies to investigate recycling of single use beverage cups. James Cropper has made a success of the work for several years, Costa Coffee is putting money into schemes and now DS Smith has come on-board.

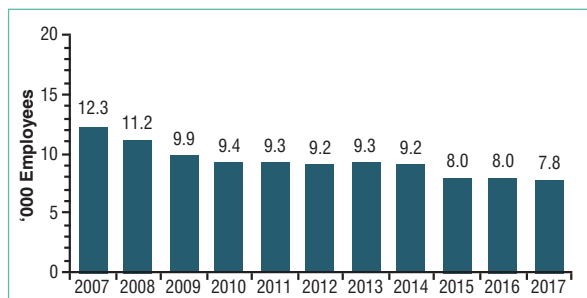
## 2019 – Preview

Going forward there is still a single overarching topic that continues to hang over the whole country – Brexit. It had been assumed that things would have become clearer in 2018, but that has not been the case. The implications to our industry, which both imports raw materials and exports finished goods, are potentially serious yet as I write this in early December it is now unclear whether Brexit will even occur. We await clarification.

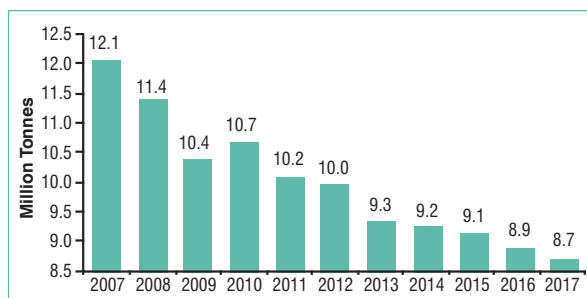
*Daven Chamberlain, Editor, Paper Technology*

## UK Data (CPI/HM Revenue & Customs)

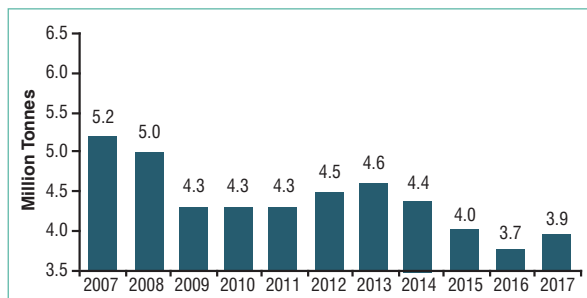
Numbers Employed in the Paper Industry 2007-2017



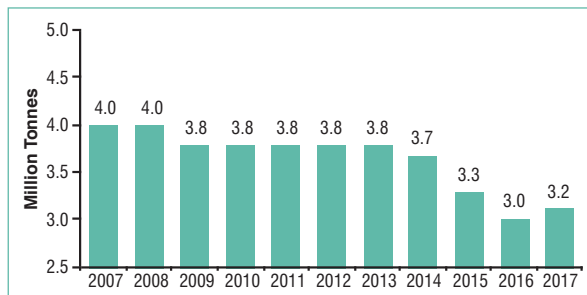
UK Consumption of Paper and Board 2007-2017



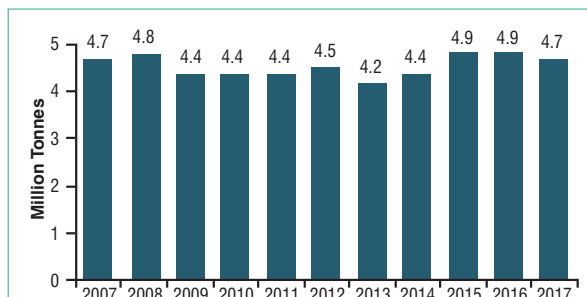
UK Production of Paper and Board 2007-2017



Recovered Paper Usage in UK Papermaking 2007-2017

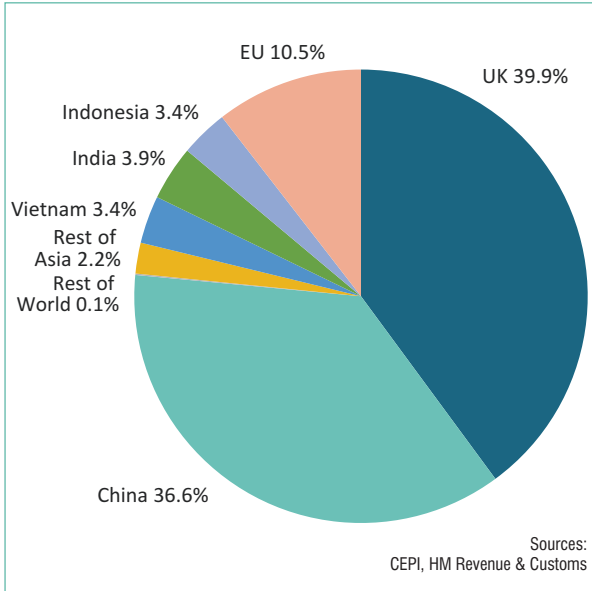


Recovered Paper Exports 2007-2017

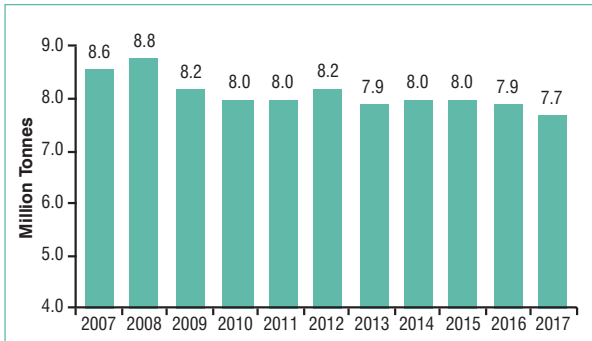


Source: HM Revenue & Customs

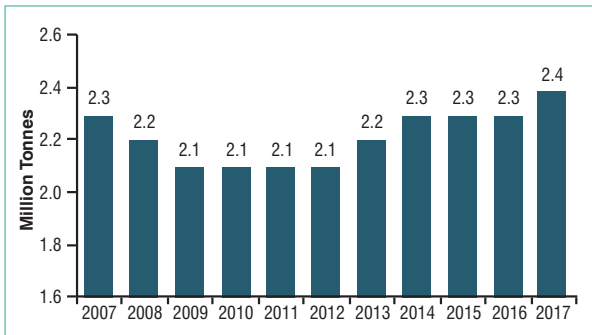
Recovered Paper Markets 2017



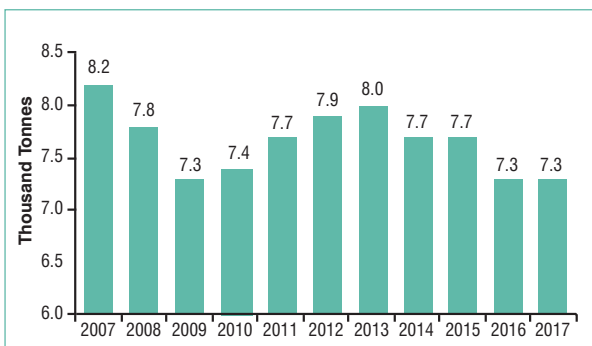
Recovered Paper Collection 2007-2017



Consumption of Paper by Corrugators 2007-2017



Production of Tissue Parent Reels 2007-2017



UK Paper and Board Facts & Figures 2017

KEY FIGURES OF THE UK'S PAPER-BASED INDUSTRIES

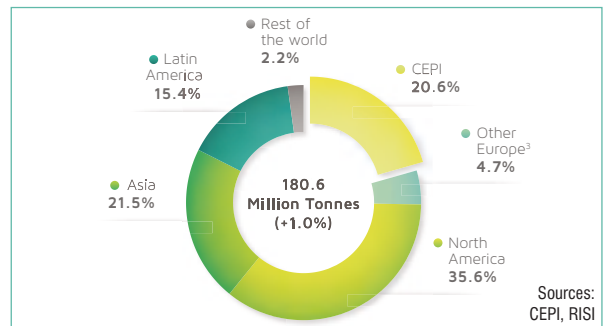
<b>56,000</b>	56,000 people are employed in the UK manufacturing paper and paper products	<b>Jobs</b>
<b>1,497</b>	1,497 UK enterprises are engaged in the manufacture of paper products	<b>Companies</b>
<b>£11.5 billion</b>	UK companies manufacturing paper have a turnover of £11,532 million	<b>Turnover</b>
<b>£4 billion</b>	UK manufacture of paper has a Gross Value Added of £4,078 million	<b>GVA</b>

Source: ONS, Annual Business Survey 2017, SIC 17

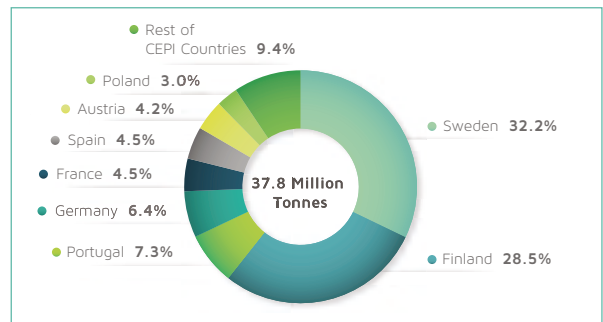
European Data (CEPI)

Pulp – Global View

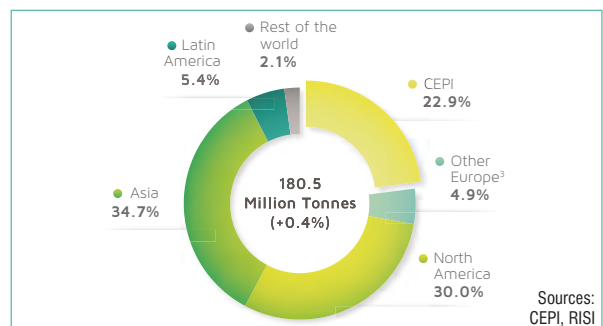
Pulp Production by Region in 2016



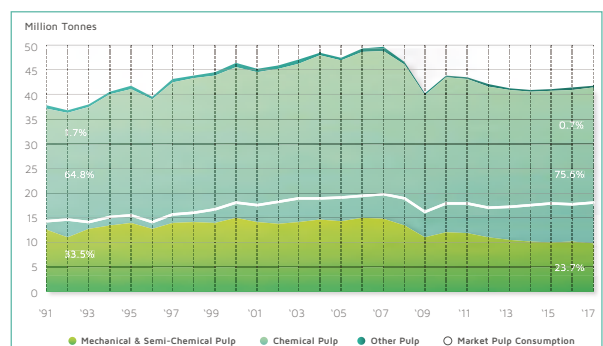
Pulp Production by CEPI Country in 2017



Pulp Consumption by Region in 2016



Pulp Consumption by Grade CEPI Countries in 1991-2017



## Pulp

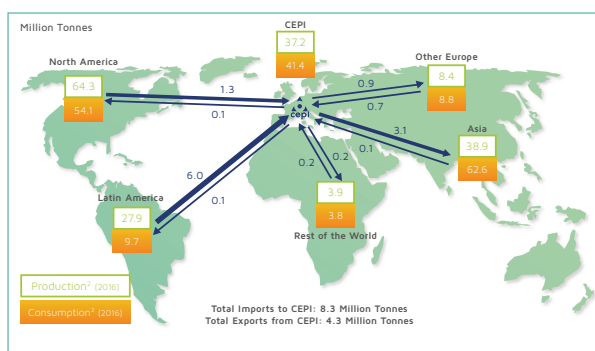
CEPI Exports of Pulp to Other Regions 2000-2017

000 Tonnes	2000	2005	2010	2016	2017	% Share of Total	% Change 2017/2016
Other Europe	724	674	719	878	911	21.0	3.7
North America	104	187	62	53	45	1.0	-14.6
Latin America	6	20	49	64	51	1.2	-20.4
Asia	412	1,076	1,595	2,630	3,083	71.2	17.2
Rest of the World	86	114	142	231	240	5.5	3.8
<b>Total</b>	<b>1,332</b>	<b>2,071</b>	<b>2,567</b>	<b>3,857</b>	<b>4,330</b>	<b>100.0</b>	<b>12.3</b>

CEPI Imports of Pulp from Other Regions 2000-2017

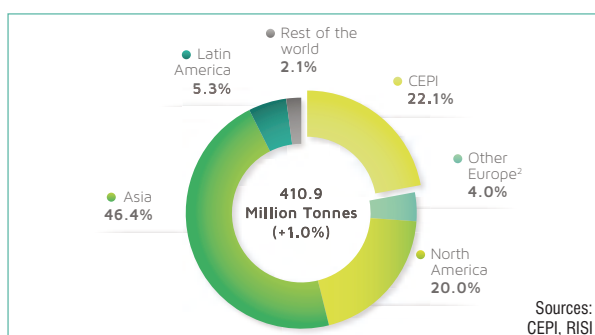
000 Tonnes	2000	2005	2010	2016	2017	% Share of Total	% Change 2017/2016
Other Europe	657	615	480	718	713	8.6	-0.7
North America	4,623	3,891	2,292	1,348	1,310	15.9	-2.8
Latin America	1,916	2,825	4,733	5,728	6,019	72.8	5.1
Asia	272	197	134	141	72	0.9	-49.0
Rest of the World	456	433	81	142	153	1.8	7.7
<b>Total</b>	<b>7,924</b>	<b>7,961</b>	<b>7,721</b>	<b>8,077</b>	<b>8,2679</b>	<b>100.0</b>	<b>2.3</b>

Trade Flows of Pulp to and from CEPI Countries in 2017

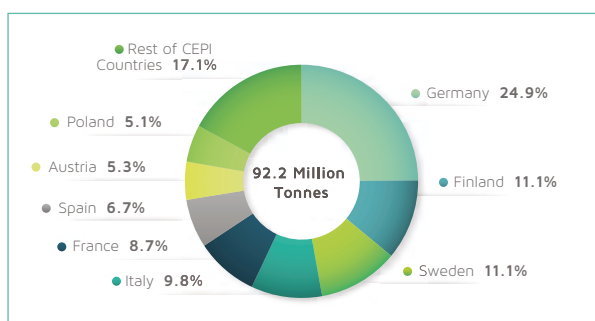


## Paper – Global View

Paper & Board Production by Region in 2016



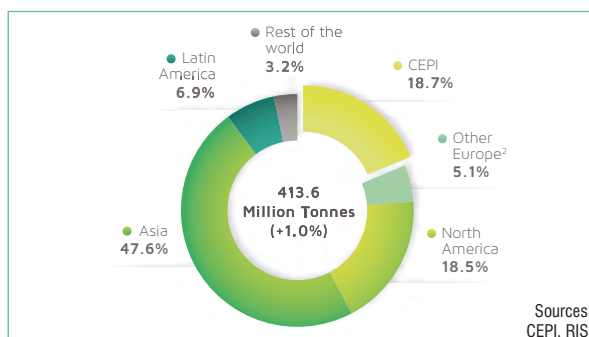
Paper & Board Production by CEPI Country in 2017



Paper & Board Production and Consumption in CEPI Countries 1991-2017



Paper & Board Consumption by Region in 2016



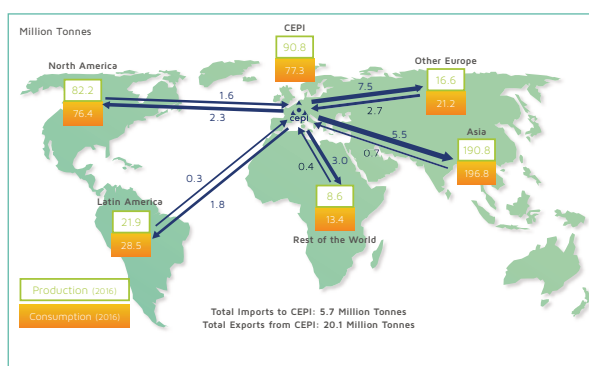
CEPI Exports of Paper & Board to Other Regions 2000-2017

000 Tonnes	2000	2005	2010	2016	2017	% Share of Total	% Change 2017/2016
Other Europe	6,090	6,825	7,349	7,253	7,503	37.3	3.4
North America	2,283	2,802	2,055	2,246	2,306	11.5	2.7
Latin America	874	1,194	1,879	1,608	1,842	9.1	14.5
Asia	2,933	4,742	5,099	4,972	5,518	27.4	11.0
Rest of the World	1,707	2,229	2,783	3,061	2,958	14.7	-3.4
<b>Total</b>	<b>13,887</b>	<b>17,793</b>	<b>19,164</b>	<b>19,139</b>	<b>20,127</b>	<b>100.0</b>	<b>5.2</b>

CEPI Imports of Paper & Board from Other Regions 2000-2017

000 Tonnes	2000	2005	2010	2016	2017	% Share of Total	% Change 2017/2016
Other Europe	3,318	2,727	2,525	2,650	2,714	47.9	2.4
North America	2,191	1,915	1,829	1,648	1,623	28.6	-1.5
Latin America	198	498	498	347	314	5.5	-9.5
Asia	332	394	625	675	666	11.8	-1.3
Rest of the World	344	369	307	368	351	6.2	-4.6
<b>Total</b>	<b>6,383</b>	<b>5,903</b>	<b>5,783</b>	<b>5,688</b>	<b>5,668</b>	<b>100.0</b>	<b>-0.4</b>

Trade Flows of Paper & Board to and from CEPI Countries in 2017





*General Secretariat:* Virginie Batais (France), c/o ATIP, 23 Rue d'Aumale F-75009 Paris, France.  
Tel: +33 1 45 62 11 91. Fax: +33 1 45 63 53 09.

The General Secretariat remains in Paris primarily for legal reasons as EUCEPA is a French registered body. In practical terms the operation of EUCEPA is hosted on a six month rotation by the member Associations.

*NB to dial any European telephone number from the UK, replace (+) by (00);  
to dial the UK from Europe prefix UK by (00) with the exception of Spain which is (07) and Sweden (009)*

## **Austria**

### **ÖZEPA**

*The Austrian Association of Pulp and Paper Chemists and Technicians,*  
A-1060 Wien, Gumpendorferstraße 6, Vienna, Austria.  
Tel: +43-1-588-86-234.  
e.mail: Theresa.bernhart@austropapier.at  
Web: www.austropapier.at  
Year of Foundation: 1912  
President: Kurt Maier  
Manager: Gabriele Herzog & Katherin Höfferer

## **Czech/Slovak Republics**

### **SPPC**

*Czech Paper Technical Association*  
Novotného lávka 5, CZ 116 68 Praha 1, Czech Republic.  
Tel: +42 0777 313 897.  
Web: www.sppc.cz  
e.mail: l.belicova@seznam.cz  
Year of Foundation: 1969  
Chairman: Jan Gojny  
Secretary: Ludmila Belicová

## **Finland**

*Forest Products Engineers*  
Spektri Business Park, Metsänneidonkuja 4, 02130 Espoo, Finland.  
Tel: +358-40-132-6688.  
e.mail: antti.lindqvist@puunjalostusinsinorit.fi  
Web: www.puunjalostusinsinorit.fi  
Year and Place of Foundation: 1914, Helsinki  
Chairman: Riikku Joukio  
Managing Director: Antti Lindqvist

## **France**

### **ATIP**

*Technical Association of the French Paper Industry*  
23 Rue d'Aumale, 75009 Paris, France  
Tel: +33-1-45-62-11-91.  
e.mail: contact@atip.fr  
Web: www.atip.asso.fr  
Year and Place of Foundation: 1947, Paris  
Managing Director: Isabelle Margain  
Président: Stéphane Marquerie

## **Germany**

### **ZELLCHEMING**

*Association of Chemists and Engineers of the Pulp and Paper Industry*  
Carl-Zeiss-Str. 3, D-64331 Weiterstadt, Germany  
Tel: +49 6150 5 44 84 04.  
e.mail: zellcheming@zellcheming.de  
Web: www.zellcheming.de  
Year and Place of Foundation: 1905 Berlin  
Chairman: Erich Kollmar  
Managing Director: Petra Hanke

## **Great Britain**

### **PITA**

*Paper Industry Technical Association*  
5 Frecheville Court, Bury, Lancashire BL9 0UF  
Tel: +44-300-3020-150.  
e.mail: info@pita.co.uk  
Web: www.pita.org.uk  
Year of Foundation: 1920  
Chairman: John Kirby  
Chief Executive: Barry Read

## **Hungary**

### **PNYME**

*Technical Association of the Paper and Printing Industry*  
1135 Budapest, Tahí út 53-59  
Tel: +36-1-783-0347.  
e.mail: pnyme@pnyme.hu  
Web: https://pnyme.hu  
Year and Place of Foundation: 1948, Budapest  
Executive Director: Sándor Pesti  
Chairman: Endre Fábán

## **Italy**

### **ATICELCA**

*The Technical Association of the Italian Pulp and Paper Industry*  
Bastioni di Porta Volta 7, 20121 Milano, MI, Italy.  
Tel: +39-02-62 91-13-08.  
e.mail: segreteria@aticelca.it  
Web: www.aticelca.it  
Year of Foundation: 1967  
General Secretary: Massimo Ramunni  
President: Flavio Stragliotto

## **Norway**

### **PTF**

*The Technical Association of the Norwegian Pulp and Paper Industry*  
P.O. Box 13, Blindern, NO-0313, Oslo, Norway.  
Tel: +47-90-93-87-13.  
e.mail: irene.skjefstad.ptf@treeteknisk.no  
Web: www.ptf.no  
Year of Foundation: 1914  
Chairman: Rolf Hauge  
Administrative Secretary: Irene Skjefstad

## **Poland**

### **SPP**

*Technical Association of the Polish Paper Industry*  
P.O. Box 200, Pl. Komuny Paryskiej 5A, 90-007 Lodz  
Tel: +48-42-630-0117.  
e.mail: info@spp.pl  
Web: www.spp.pl  
Year of Foundation: 1946  
Chairman: Maciej Kunda  
General Director: Janusz Turski

## **Portugal**

### **TECNICELPA**

*The Portuguese Association of Pulp and Paper Technicians*  
Head Office: Rua Amorim Rosa 38-1° Dt.° 2300-450 Tomar, Portugal  
Tel: +351-249-324-858.  
e.mail: info@tecnicepa.com  
Web: www.technicepa.com  
Year and Place of Foundation: 1980, Tomar  
General Assembly President: Carlos Fernando Pedro dos Santos  
Directive Board President: Pedro Miguel Costa Matos Silva

## **Slovenia**

### **DITP**

*Association of Pulp and Paper Engineers and Technicians of Slovenia*  
SI-1000 Ljubljana, Bogisiceva 8, Slovenia  
Tel: +386-1-200-2832.  
e.mail: ditp@icp-lj.si  
Web: www.gzs.si  
Year and Place of Foundation: 1971, Ljubljana  
President: Marko Jagodič  
Secretary: Tea Kapun

## **Sweden**

### **SPCI**

*The Swedish Association of Pulp and Paper Engineers*  
SPCI Secretariat, Box 5515, S-11485, Stockholm, Sweden  
Tel: +46-8-783-8400.  
e.mail: info@spci.se  
Web: www.spci.se  
Year of Foundation: 1908  
Chairman: Kristina Enander  
Executive Director: Marina Asp

# World Paper Industry Technical Associations



## Argentina

AFCP  
Asociación de Fabricantes de Celulosa y Papel, Av. Belgrano 2852,  
1209 Ciudad de Buenos Aires, Argentina  
Tel: +54-(011)-4931-0051.  
e.mail: afcparg@afcparg.org.ar  
Web: www.afcparg.org.ar  
*Chief Executive Office:* Néstor Nisnik

## Australia

APPITA  
P.O. Box 816, Macleod, Vic 3085, Australia  
Tel: +61-3-9467-9722. e.mail: admin@appita.com.au  
Fax: +61-3-9467-9778.  
Web: http://appita.com  
Year of Foundation: 1946  
*President:* Stephen Parkinson  
*Executive Director:* Adele Elice-Invaso

## Brazil

ABTCP  
Associação Brasileira Técnica de Celulose e Papel  
Rua Zequinha de Abreu 27, Pacaembu, São Paulo,  
SP CEP 01250-050.  
Tel: +55-11-3874-2700.  
e.mail: enlace@abtcp.org.br  
Web: www.abtcp.org.br  
Year of Foundation: 1967  
*Executive Director:* Darcio Berni

## Canada

PAPTAC  
6300 Ave Auteuil, suite 440, Brossard, Québec, J4Z 3P2, Canada.  
Tel: +1-514-392-0265. Fax: +1-514-392-0369.  
e.mail: ghay@paptac.ca  
Web: www.paptac.ca  
Year of Foundation: 1915  
*Executive Director:* Greg Hay  
*Chairman:* Eric Ashby

## Chile

ATCP  
Asociación Técnica de la Celulosa y el Papel  
Yungay 1033, Pedro de Valdivia, Concepción, Chile.  
Tel: +56-41-2-88-81-30.  
e.mail: atcpchile@atcp.cl  
Web: www.atcp.cl  
Year of Foundation: 1972  
*President:* Álvaro Oñat  
*General Secretary:* Handel Tapia

## China

CTAPI  
China Technical Association of Paper Industry  
Sinolight Plaza, 4 Qiyang Road, Chaoyang District, Beijing, China  
Tel: +86-010-647-78761 Fax: +86-010-647-78769  
Web: www.ctapi.org.cn  
e.mail: service@ctapi.org.cn  
Year of Foundation: 1964  
*President:* Chen Xuezhong  
*Secretary General:* Cao Chunyu

## Columbia

ACOTEPAC  
Asociación Colombiana de Técnicos de la Industria de Pulpa, Papel  
y Cartón, Carrera 28, No.92-10, Pereira, Risaralda, Columbia  
Tel: +57-6-3200-392  
e.mail: acotepac@etp.net.co  
Web: www.acotepacolombia.com  
*Executive Director:* Isabel Cristina Cardona Ruiz  
*President:* Nelson Hernando Quiñones Hurtado

## India

IPPTA  
C.P.P.R.I. Campus, Paper Mill Road, Near Himmat Nagar,  
Saharanpur - 247001, India  
Tel: +91-132-271-4081.  
Web: www.ippta.co  
e.mail: info@ippta.co  
Year of Foundation: 1964  
*President:* Shri Pawan Agarwal  
*Chief Operating Officer:* Neehar Aggarwal

## Japan

Japan TAPPI  
Kami Pulp Kaikan Building, 9-11, Ginza, 3-Chome, Chuo-Ku, Tokyo  
104-8139, Japan.  
Tel: +81-3-3248-4841. Fax: +81-3-3248-4843.  
e.mail: info@japantappi.org  
Web: www.japantappi.org/e/  
Year of Foundation: 1947  
*President:* Kazufumi Yamasaki  
*Executive Director:* Dr. Takanori Miyanishi

## Korea

KTAPPI  
Korean Technical Association of the Pulp and Paper Industry  
Suite 701, Chungmu Bidg., 7, Yeouidaebang-ro 69(yuksipgu)-gil,  
Yeongdeungpo-gu, Seoul, 07333, South Korea  
Tel: +82-2-786-8620. Fax: +82-2-786-8621  
e.mail: ktappi@ktappi.or.kr  
Web: www.ktappi.or.kr  
Year of Foundation: 1967  
*President:* Hak Lae Lee

## Taiwan – Republic of China

TTAPPI  
No.60, Nanhai Road, Taipei City,, Republic of China.  
Tel: +886-2-2332-2031. Fax: +886-2-2332-1964.  
Web: www.twntappi.org.tw  
e.mail: twntappi@ms31.hinet.net  
*Secretary General:* Zhang Qingbia

## United States of America

TAPPI  
15 Technology Parkway South, Suite 115,  
Peachtree Corners, GA 30092, USA.  
Tel: +1-770-446-1400. Fax: +1-770-446-6947.  
Web: www.tappi.org  
Year of Foundation: 1915  
*President:* Larry Montague  
*Chairman:* Paul R. Durocher

## Venezuela

APROPACA  
La Asociación Venezolana de productores de Pulpa, Papel y Cartón  
Avenida Romulo Gallegos, Edif. Johnson & Johnson-piso 2 Oficina  
2B, Los Dos Caminos, Caracas, Venezuela.  
Tel: +58-234-31-30. Fax: +58-234-65-42  
Web: www.apropaca.com.ve  
e.mail: apropac@apropaca.com.ve  
Year of Foundation: around 1985  
*President:* Enrique Larrazábal

# Corporate Members

## A

### ABB LTD

*Process Industries*  
Hareness Road, Aberdeen, AB12 3LE  
Website: [www.abb.com](http://www.abb.com)  
Contact: Paul Clark

### AIKAWA FIBER TECHNOLOGIES

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Email: [sales@aikawagroup.com](mailto:sales@aikawagroup.com)  
Website: [www.aikawagroup.com](http://www.aikawagroup.com)  
Contact: Outi Jappinen



### ARCHROMA UK LTD

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Bowling Old Lane, Bradford BD5 7JL  
Tel: 01274-304930 Fax: 01274 304949  
Email: [david.puddiphatt@archroma.com](mailto:david.puddiphatt@archroma.com)  
Website: [www.archroma.com](http://www.archroma.com)  
Contact: David Puddiphatt

### ARJOWIGGINS

*Paper Manufacturers*  
The Paper Place  
4, Lindenwood, Chineham Park  
Chineham, Basingstoke, Hants RG24 8QY  
Tel: 01256 728996 Fax: 01256 728983  
Website: [www.arjowiggins.com](http://www.arjowiggins.com)  
Contact: John Cooper



### ARJOWIGGINS CHARTHAM LTD

*Paper Manufacturer*  
Station Road, Chartham, Canterbury, Kent, CT4 7JA  
Tel: 01227 813532 Fax: 01227 813510  
Website: [www.arjowiggins.tracingpapers.com](http://www.arjowiggins.tracingpapers.com)  
Contact: Mark Hobday

### ARJOWIGGINS FINE PAPERS LTD

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Tel: 01224 802220 Fax: 01224 802373  
Website: [www.arjowiggins.com](http://www.arjowiggins.com)  
Contact: Angus MacSween

### AXCHEM UK

*Chemicals for the Paper Industry*  
Axchem House, Unit 3, Commercial Road, Tower Business Park,  
Darwen, BB3 0FJ  
Tel: 0845 301 6710  
Email: [info@axchem.co.uk](mailto:info@axchem.co.uk)  
Website: [www.axchem.co.uk](http://www.axchem.co.uk)  
Contact: Stuart Thomas



## B

### BILLERUDKORSNÄS BEETHAM LTD

*Paper Manufacturer*  
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Milnthorpe, Cumbria, LA7 7AR  
Tel: 015395 65000 Fax: 015395 65033  
Website: [www.billerudkorsnas.com](http://www.billerudkorsnas.com)  
Contact: Ying Sou



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Prince Street, Bolton, Lancashire, BL1 2NP  
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Website: [www.bimkemi.com](http://www.bimkemi.com)  
Contact: Julian Wood



### BLACKBURN CHEMICALS LTD

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Tel: 01254 52222 Fax: 01254 664224  
Email: [info@bbchem.co.uk](mailto:info@bbchem.co.uk)  
Website: [www.bbchem.co.uk](http://www.bbchem.co.uk)  
Contact: Martin Wroe



### BPMSA EXECUTIVE

*Promoting the British Paper Machinery Suppliers*  
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Bury, Lancashire, BL9 8EY  
Tel: 0161 767 8479  
Email: [a.pope2@btinternet.com](mailto:a.pope2@btinternet.com)  
Website: [www.picon.com](http://www.picon.com)  
Contact: Tony Pope

### BUCKMAN (Europe, Middle East, North Africa)

*Chemical manufacturer and supplier*  
Wondelgemkaai 157, 9000 Gent, Belgium  
Tel: +32 9 257 92 11 (Office) Fax: +32 9 253 62 95  
Website: <http://buckman.com>  
UK Contact: Sean Sunley  
Belgian Contact: Mark Conyngham  
Email: [europe@buckman.com](mailto:europe@buckman.com)



## C

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Lancashire, BB18 5HP  
Tel: 01282 811000  
Contact: Paul Hirst



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Email: [mike.denman@cristal.com](mailto:mike.denman@cristal.com)  
Website: [www.cristal.com](http://www.cristal.com)  
Contact: Michael Denman

## D

**DS SMITH PAPER LTD***Paper Manufacturer*

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Tel: 01628 518900

Website: www.dssmith.com

*Divisional, Technical Engineering Services Department*

Kemsley Paper Mill, Sittingbourne, Kent, ME10 2TD

Tel: 01795 5189 Fax: 01795 414212

Website: www.dssmith.com

Contact: Guy Lacey



## E

**ECOL STUDIO S.P.A***Laboratory & Consultancy Services*

Via dei Bichi 293, Lucca, 55100, Italy

Tel: +39 0583 40011 Fax: +39 0583 400300

Email: info@ecolstudio.com

Website: www.ecolstudio.com

**ENVIRONMENT AGENCY***Industry Regulation*

Radioactive Substances and Industrial Regulation Unit

Manley House, Kestrel Way, Sowton Industrial Estate,

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Website: www.environment-agency.gov.uk

Contact: Spence Seaman

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Tel: 01772 860085

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Website: www.envirosystems.co.uk

Contact: Henry Russell

## F

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Contact: Peter Duxbury



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Contact: Adrian Iley

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Contact: Paul Spencer

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Contact: David Carscadden



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Website: www.heimbach.com

Contact: Hamish Parsons

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Email: info@hydac.co.uk

Website: www.hydac.co.uk

Contact: Gerard Palmer

## I

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Email: andrew.findlay@imerys.com

Website: www.imerys.com

Contact: Andrew Findlay

**IMERYS KAOLIN & TALC***Mineral Producer*

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Contact: Yannick Rabot

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Tel: 0161 435 3346

Email: catherine.cooper@ingredion.com

Website: www.ingredion.com

Contact: Catherine Cooper

**J**

**JAMES CROPPER PLC**

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Website: www.cropper.com  
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Website: www.jarshire.co.uk  
Contact: David Jobson

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Website: www.kemira.com  
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Email: s.gregory@petrofer.co.uk  
Website: www.petrofer.co.uk  
Contact: S. Gregory

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Email: j.harris@pilz.co.uk  
Website: www.pilz.co.uk  
Contact: Joanne Harris



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Website: www.pooleprojects.co.uk  
Contact: John Williams

**PORTALS DE LA RUE LIMITED**

*Security Paper Manufacturer*  
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Website: www.portalspaper.com  
Contact: Andrew Nash



**PROCAL LTD**

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Email: mark@procal.co.uk  
Website: www.procal.co.uk  
Contact: Mark Ransom

**Q**

**QCL SCIENTIFIC**

*Scientific Instrument Producer*  
Riverside, Forest Row Business Park,  
Forest Row, East Sussex, RH18 5DW  
Tel: 01342 820820  
Email: info@qclscientific.com  
Contact: Mark Whatton

**QiSOFT LIMITED**

*Product and Process Information Software*  
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Tel: 01772 641133 Fax: 01772 641155  
Email: graeme@qisoft.com  
Website: www.qisoft.com  
Contact: Graeme Parkinson



## R

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 Tel: 00 358 2 8377 4400 Fax: +358 2 8377 4304  
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 Website: www.raumasterpaper.fi  
 Contact: Kaarlo Talvinen

**RENAISSANCE CHEMICALS**

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 Email: enquiries@renchem.co.uk  
 Website: www.renchem.co.uk  
 Contact: Howard Weaver

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## S

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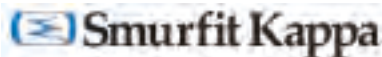
*Roll covers for paper, tissue and board*  
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 Email: info@schaeferrolls.com  
 Contact: Adrian Stoll

**SMURFIT KAPPA SSK**

*Paper Manufacturer*  
 Mount Street, Nechells, Birmingham, West Midlands, B7 5RE  
 Tel: 0121 327 1381 Fax: 0121 322 6300  
 Website: www.smurfitkappa.com  
 Contact: Nigel Pontin

**SMURFIT KAPPA TOWNSEND HOOK**

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 Contact: Giuseppe Munari

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## T

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 Mobile: 07786 136601 Email: robert.langley@test-tech.co.uk  
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 Contact: Davide Mainardi

## U

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## V

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*Products:* Tissue

### **LENZING FIBERS GRIMSBY LTD**

Energy Park Way, Grimsby, DN31 2TT  
Tel: 01472-244700  
www.lenzing.com  
*Products:* Lyocell fibre (45,000tpy) from wood pulp

### **NORTHWOOD TISSUE LTD**

#### **NORTHWOOD TISSUE (DISLEY) LTD**

Waterside, Disley, Cheshire, SK12 2HW  
Tel: 01663-762701  
www.northwood.co.uk  
*Products:* Tissue

#### **NORTHWOOD TISSUE (LANCASTER) LTD**

Lansil Way, Caton Road, Lancaster, LA1 3PQ  
Tel: 01524-843678  
www.northwood.co.uk  
*Products:* Tissue

### **PALM PAPER LTD**

Poplar Avenue, King's Lynn, Norfolk, PE34 3AL  
Tel: 01553-782222  
www.palm.de  
*Products:* Standard Newsprint (from 100% RCF)

### **PORTALS DE LA RUE LTD**

#### **OVERTON PAPER MILL**

Overton, Hampshire, RG25 3SE  
Tel: 01256-770770  
www.portalspaper.com  
*Products:* Banknote

#### **BATHFORD PAPER MILLS**

Bathford, Bath, BA1 7QG  
Tel: 01225-859903  
www.portalspaper.com  
*Products:* Security (not Banknote)

### **PRESTON BOARD & PACKAGING LTD**

Romiley Board Mill  
Oakwood Road, Romiley, Cheshire, SK6 4DZ  
Tel: 0161-430-6061  
www.romileyboard.co.uk  
*Products:* Unlined Chipboard, Cardboard (tubes, edge protection, layer pad, sheets)

### **PURICO GROUP LTD**

#### **DEVON VALLEY MILL LTD**

Hele, Exeter, Devon, EX5 4PL  
Tel: 01392-881731  
www.devonvalleymill.com  
*Products:* Teabag, Overlay, Coffee Filter, Sausage Casing

#### **UNION PAPERTECH LTD**

Simpson Clough Mill, Ashworth Road, Heywood, Lancashire, OL10 4BE  
Tel: 01706-364121  
www.unionpapertech.com  
*Products:* Teabag, Coffee Filter, Food Packaging

### **SAICA CONTAINERBOARD**

144 Manchester Road, Carrington  
Manchester, M31 4QN  
Tel: 0161-7767000  
www.saica.com  
*Products:* Fluting & testliner

### **SIDCOT GROUP**

Chesterfield Paper Mill  
Goytside Road, Chesterfield, S40 2BS  
Tel: 01246-558557  
www.matryx-hygiene.com  
*Products:* Tissue

### **SMURFIT KAPPA GROUP**

#### **SMURFIT KAPPA SSK**

Mount Street, Nechells, Birmingham, B7 5RE  
Tel: 0121-327-1381  
www.smurfitkappa.com  
*Products:* Corrugated Case Medium (Recycled Fluting, Testliner 2 & 3)

#### **SMURFIT KAPPA TOWNSEND HOOK**

Mill Street, Snodland, Kent, ME6 5AX  
Tel: 01634-240205  
www.smurfitkappa.com  
Products: Corrugating Medium, Testliner 2 & 3

#### **SOFIDEL GROUP**

##### **INTERTISSUE**

Brunel Way, Neath, SA11 2HZ  
Tel: 01639-825380  
www.sofidel.com  
Products: Tissue

##### **SOFIDEL UK LTD**

Lansil Way, Lancaster, LA1 3QY  
Tel: 01524-844600  
www.sofidel.com  
Products: Tissue

##### **SOFIDEL UK LTD**

Waterside Road, Hamilton Industrial Park  
Leicester, LE5 1TZ  
Tel: 01162-460888  
www.sofidel.com  
Products: Tissue

#### **SONOCO BOARD MILLS LTD**

Stainland Mills  
Holywell Green, Halifax, West Yorkshire, HX4 9PY  
Tel: 01422-263880  
www.sonocoalcore.com  
Products: Coreboard, Laminate Board, Display Board  
Middles, Chipboard

#### **ST CUTHBERTS MILL LTD**

Wells, Somerset, BA5 1AG  
Tel: 01749-672015  
www.stcuthbertsmill.com  
Products: Artist / Watercolour

#### **TULLIS RUSSELL COATERS LTD**

Church Street, Bollington  
Macclesfield, Cheshire, SK10 5QF  
Tel: 01625-573051  
www.tullisrussell.com  
Products: Coated papers

#### **TWO RIVERS PAPER**

Pitt Mill, Roadwater, Watchet, Somerset, TA23 0QS  
Tel: 01984-641028  
www.tworiverspaper.com  
Products: Artist / Watercolour

#### **UPM KYMMENE (UK) LTD**

##### **CALEDONIAN PAPER MILL**

Meadowhead Road, Shewalton, Irvine, KA11 5AT  
Tel: 01294-312020  
www.upmpaper.com  
Products: Coated Magazine

##### **SHOTTON PAPER**

Shotton, Deeside, Flintshire, CH5 2LL  
Tel: 01244-280000  
www.upmpaper.com  
Products: Standard Newsprint (from 100% RCF)

#### **WEIDMANN WHITELY LTD.**

Pool Paper Mills  
Pool-in-Wharfedale, Otley,  
West Yorkshire, LS21 1RP  
Tel: 01132-027000  
www.weidmann-electrical.com  
Products: Insulation, Pressboard

#### **WEPA UK**

Bridgend Paper Mills  
Llangynwyd, Nr Bridgend,  
Mid Glamorgan, CF34 9RS  
Tel: 01656-684500  
www.wepa.co.uk  
Products: Tissue

#### **CONTACT DETAILS FOR RELEVANT NATIONAL GROUPS / ASSOCIATIONS**

Alliance for Beverage Cartons and the Environment (ACE) UK	www.ace-uk.co.uk
British Association of Paper Historians (BAPH)	www.baph.org.uk
British Paper Machinery Suppliers Association (BPMSA)	https://picon.com
British Printing Industries Federation – Cartons (BPIF Cartons)	www.bpifcartons.org.uk
British Wood Pulp Association (BWPA)	www.bwpa.org.uk
Confederation of Paper Industries (CPI)	https://paper.org.uk
Forest Stewardship Council (FSC) UK	www.fsc-uk.org
Packaging Federation	www.packagingfedn.co.uk
Paper and Board Association (P&BA)	http://paperandboard.org.uk
The Paper Industry Gold Medal Association	http://papergoldmedal.org.uk
Programme for the Endorsement of Forest Certification (PEFC) UK	www.pefc.co.uk
Recycling Association	www.therecyclingassociation.com
Rubber and Plastic Research Association (RAPRA)	www.rapra.org
Sheet Plant Association (SPA)	www.sheetplantassociation.com
Two Sides	www.twosides.info
The Worshipful Company of Stationers and Newspaper Makers	https://stationers.org

## Panel Board Mills in UK & Ireland

### **ARMSTRONG WORLD INDUSTRIES LTD** (ceiling tiles)

Gateshead, Tyne & Wear NE11 OSP  
Tel: 0191 497 1000  
[www.armstrongceilings.com](http://www.armstrongceilings.com)

### **EGGER BARONY LTD (particle)**

Barony Road, Auchinleck, KA18 2LL  
Tel: 01290-426026  
[www.egger.com](http://www.egger.com)

### **EGGER (UK) LTD (particle)**

Anick Grange Road, Hexham,  
Northumberland, NE46 4JS  
Tel: 01434-602191  
[www.egger.com](http://www.egger.com)

### **KRONOSPAN LTD (particle & MDF)**

Holyhead Road, Chirk, Wrexham, LL14 5NT  
Tel: 01691-773361  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### **MEDITE EUROPE LTD (MDF)**

Redmondstown, Clonmel,  
Co. Tipperary, Ireland  
Tel: +353 526 182 300  
<https://mdfosb.com>

### **NORBORD COWIE (particle & MDF)**

Station Road, Cowie, Stirlingshire, FK7 7BQ  
Tel: 01786-819225  
[www.norbord.co.uk](http://www.norbord.co.uk)

### **NORBORD INVERNESS (OSB)**

Morayhill, Dalcross, Inverness, IV2 7JQ  
Tel: 01463-792424  
[www.norbord.co.uk](http://www.norbord.co.uk)

### **NORBORD SOUTH MOLTON (particle)**

South Molton, Devon, EX36 4HP  
Tel: 01769-572991  
[www.norbord.co.uk](http://www.norbord.co.uk)

### **SMARTPLY EUROPE LTD (OSB)**

Belview, Slieverue, Waterford, Ireland  
Tel: +353 51 851 233  
<https://mdfosb.com>

### **SUNDEALA LTD (softboard-type material)**

Middle Mill  
Cam, Dursley, Gloucestershire, GL11 5LQ  
Tel: 01453-708689  
[www.sundeala.co.uk](http://www.sundeala.co.uk)

**WOOD PANEL INDUSTRY FEDERATION (WPIF)**  
Autumn Park Business Centre  
Dysart Road, Grantham  
Lincolnshire, NG31 7EU  
Tel: +44 (0) 1476 512 381  
[www.wpif.org.uk](http://www.wpif.org.uk)

**EUROPEAN PANEL FEDERATION (EPF)**  
Rue Montoyer 24  
B-1000 Brussels  
Belgium  
Tel: +32 2 556 25 89  
<https://europanel.org>

## Moulded Pulp Mills in the UK & Ireland

### **ENKEV (UK) LTD**

Enkev House, Silloth Airfield Industrial Estate,  
Silloth, Cumbria CA7 4NS  
Tel: 01697 332 600  
[www.enkev.com](http://www.enkev.com)

### **HUHTAMAKI (LURGAN) LTD**

41 Inn Road, Dollingstown, Lurgan,  
Co. Armagh, BT66 7JN  
Tel: 02838 327 711  
[www2.huhtamaki.com](http://www2.huhtamaki.com)

### **JAMES CROPPER 3D PRODUCTS**

Burneside Mills  
Kendal, Cumbria, LA9 6PZ  
Tel: 01539-816568  
[www.colourformpacking.com](http://www.colourformpacking.com)

### **MOULDED FIBRE PRODUCTS LTD**

Flixborough Industrial Estate  
Scunthorpe, Lincolnshire, DN15 8SD  
Tel: 01724 847 207  
<http://mouldedfibreproductsltd.co.uk>

### **PAPER PULP SOLUTIONS**

Pulp Mill House, Banton Road,  
Glasgow, G65 0QG  
Tel: 01236 829 052  
[www.paperpulpolutions.co.uk](http://www.paperpulpolutions.co.uk)

### **ROBERT CULLEN LTD**

10 Dawsholm Avenue,  
Dawsholm Industrial Estate,  
Glasgow, G20 0TS  
Tel: 0141 945 2222  
[www.cullen.co.uk](http://www.cullen.co.uk)

### **VERNACARE LTD**

Folds Road, Bolton, Lancashire, BL1 2TX  
Tel: 01204 529 494  
[www.vernacare.com](http://www.vernacare.com)

# Mills in the Benelux Region

## BELGIUM

### AHLSTROM MALMEDY S.A.

Av. Du Pont de Warche, B-4960 Malmedy  
Tel: +32 (0) 80 79 54 11  
www.ahlstrom.com

### BURGO ARDENNES S.A.

Rue de la Papeterie 1, B-6760 Virton  
Tel: +32 (0)63 - 58 71 11  
www.burgo.com

### ECOPLA BOOMPLATEN

Vaucampsiaan 84, 1654 Huizingen  
Tel: +32 (0)23 56 57 89  
www.boomplaten.be

### ESSITY S.A.

Rue de la Papeterie 2, BE-4801 Stembert  
Tel: +32 (0)87 - 30 66 11  
www.essity.nl

### NORBORD N.V. (OSB)

Eikelaarstraat 33, 3600 Genk  
Tel: +32 (0)89 - 50 03 00  
www.norbord.nl

### PAPER MILL HERISEM

Fabriekstraat 20, B-1652 Alseberg, Brussels  
Tel: +32 (0)473 38 32 30  
www.herisem.be

### SAPPI LANAKEN N.V.

Montaigneweg 2, 3620 Lanaken  
Tel: +32 (0)89 - 71 99 55  
www.sappi.com

### SOFIDEL BENELUX N.V.

Adolf Stocletlaan 3, 2570 Duffel  
Tel: +32 (0)15 - 30 06 11  
www.sofidel.com

### STORA ENSO LANGERBRUGGE PAPER

Wondelgemkaai 200, 9000 Gent  
Tel: +32 (0)92 - 57 72 11  
www.storaenso.com

### UNILIN (particle)

Ingelmunstersteenweg 229, 8780 Oostrozebeke  
Tel: +32 (0)56 - 66 70 21  
www.unilinpanels.com

### VPK PAPER N.V.

Oude Baan 120, B-9200 Dendermonde  
Tel: +32 (0)52 - 26 19 11  
www.vpkgroup.com

## LUXEMBURG

### KRONOSPAN LUXEMBOURG S.A. (OSB, MDF)

Z.I. Gadderscheier, B.P. 109, L - 4902 Sanem  
Tel: +35 (0)25 - 90 31 11  
www.kronospan-worldwide.com

## THE NETHERLANDS

### CROWN VAN GELDER B.V.

Postbus 30, 1950 AA Velsen-Noord  
Tel: +31 (0)251 - 26 22 33  
www.cvg.nl

### DE SCHOOLMEESTER PAPIERMOLEN

Guispad 3, NL-1551 SX Westzaan  
Tel: +31 (0)75 - 621 44 65  
https://zaanschemolen.nl

### DS SMITH PACKAGING NETHERLANDS B.V.

De Hoop Mill, Harderwijkerweg 41, 6961 GH Eerbeek  
Tel: +31 (0)313 - 67 79 22  
www.dssmith.com

### ENKEV B.V.

De Toek 2, P.O. Box 3, 1130 AA Volendam  
Tel: +31 (0)299 - 36 43 55  
www.enkev.com

### ESKA B.V.

Noorderstraat 394, 9611 AW Sappemeer  
Tel.: +31 (0)598 - 31 89 11  
www.eska.com

### ESKA B.V.

M. Veningastraat 114-116, 9601 KJ Hoogezand  
Tel: +31 (0)598 - 31 89 11  
www.eska.com

### ESSITY CUIJ

Lange Linden 22, 5433 NC Katwijk NB  
Tel: +31 (0)485 - 33 93 39  
www.essity.nl

### ESSITY SUAMEER (NONWOVENS)

Solcamastraat 24, 9262 ND Suameer  
Tel: +31 (0)511 - 46 66 66  
www.essity.nl

### HUHTAMAKI NEDERLAND B.V.

Zuidelijke Industrieweg 3-7, 8801 JB Franeker,  
Tel: +31 (0)517 - 39 93 99  
www.huhtamaki.com

### MAYR-MELNHOF EERBEEK B.V.

Coldenhovenseweg 12, 6961 ED Eerbeek  
Tel: +31 (0)313 - 67 51 11  
www.mm-karton.com

### MEERSSEN PAPIER B.V.

Weert 78, 6231 SB Meerssen  
Tel: +31 (0)433 - 66 35 00  
www.meerssen-papier.com

### NEDERLANDS OPENLUCHTMUSEUM

(The Netherlands Open Air Museum)  
Hoeflerlaan 4, 6816 SG Arnhem  
Tel: +31 (0)263 - 57 61 11  
www.openluchtmuseum.nl

### NEENAH COLDENHOVE

D.W. van Vreeswijklaan 9  
6961 LG Eerbeek  
Tel: +31 (0)313 - 67 06 70  
www.coldenhove.com

**PAPERFOAM NETHERLANDS**

Hermesweg 22, 3771 ND Barneveld  
Tel: +31 (0)342 - 40 16 67  
www.paperfoam.com

**PAPIERFABRIEK DE MIDDELSTE MOLEN**

Kanaal Zuid 497, 7371 GL Loenen (Veluwe)  
Tel: +31 (0)55 - 505 29 11  
www.demiddelstemolen.nl

**PAPIERFABRIEK DOETINCHEM B.V.**

Terborgseweg 52, 7005 BB Doetinchem  
Tel: +31 (0)314 - 34 79 11  
www.papierfabriekdoetinchem.nl

**PRESSWOOD INTERNATIONAL B.V. (particle)**

Lokhorstweg 13a-27, 3851 SE Ermelo  
Tel: +31 (0)341 - 55 33 79  
www.presswood.nl

**SAPPI MAASTRICHT B.V.**

Biesenweg 16, 6211 AA Maastricht  
Tel: +31 (0)433 82 22 22  
www.sappi.com

**SCHUT PAPIER**

Kabeljauw 2, 6866 NE Heelsum  
Tel: +31 (0)317 - 31 91 10  
www.schutpapier.nl

**SMURFIT KAPPA PARENCO**

Papiermolenweg 1, 6871 AV Renkum  
Tel: +31 (0)317 - 36 19 11  
www.smurfitkappa.com

**SMURFIT KAPPA ROERMOND PAPIER B.V.**

Mijnheerkensweg 18, 6041 TA Roermond  
Tel: +31 (0)475 - 38 44 44  
www.smurfitkappa.com

**SOLIDUS SOLUTIONS BOARD B.V.**

Hoofdstraat 34, 9693 ZG Bad Nieuweschans  
Tel: +31 (0)50 - 30 33 000  
https://solidus-solutions.com

**SOLIDUS SOLUTIONS BOARD B.V.**

Robertweg 2, 7741 KX Coevorden  
Tel: +31 (0)50 - 30 33 000  
https://solidus-solutions.com

**SOLIDUS SOLUTIONS BOARD B.V.**

Halmstraat 1-3, 9745 BC Groningen-Hoogkerk  
Tel: +31 (0)50 - 30 33 000  
https://solidus-solutions.com

**SOLIDUS SOLUTIONS BOARD B.V.**

W.H. Bosgrastraat 82, 9665 PH Oude-Pekela  
Tel: +31 (0)50 - 30 33 000  
https://solidus-solutions.com

**SOLIDPACK B.V.**

Voorsterweg 38, 7371 GC Loenen  
Tel: +31 (0)55 - 505 82 22  
www.smart-packaging-solutions.com

**TRESPA INTERNATIONAL B.V. (MDF)**

Wetering 20, 6002 SM Weert  
Tel: +31 (0)495 - 45 83 58  
www.trespa.com

**UNILIN (MDF)**

Zone Industrielle, F-08140 Bazeilles  
Tel: +33 324 - 22 70 70  
www.unilinpanels.com

**UNILIN (MDF)**

Rue de la Forêt 2, 6690 Vielsalm  
Tel: +32 (0)80 - 29 27 10  
www.unilinpanels.com

**VHP SECURITY PAPER**

Wezenweg 2, 7339 GS Ugchelen  
Tel: +31 (0)55 - 533 21 32  
www.vhpsp.com

**WEPA NEDERLAND B.V.**

Boutestraat 125, 6071 JR Swalmen  
Tel: +31 (0)88 0183 000  
www.wepa.nl

**CONTACT DETAILS FOR SELECTED EUROPEAN GROUPS / ASSOCIATIONS**

Alliance for Beverage Cartons and the Environment (ACE)	www.ace.be
Association of the Belgian Pulp, Paper and Board Producers (COBELPA)	www.cobelpa.be
Bureau of International Recycling (BIR)	www.bir.org
Confederation of European Paper Industries (CEPI)	www.cepi.org
European Carton Makers Association (ECMA)	www.ecma.org
European Federation of Corrugated Board Manufacturers (FEFCO)	www.fefco.org
European Liaison Committee for Pulp & Paper (EUCEPA)	www.eucepa.eu
European Paper Recycling Council (EPRC)	www.paperrecovery.org
European Recovered Paper Association (ERPA)	www.euric-aisbl.eu
European Tissue Symposium (ETS)	https://europeantissue.com
International Association of the Deinking Industry (INGEDE)	www.ingede.org
Royal Dutch Timber Trade Association (VVNH)	www.vvnh.nl
Royal Netherlands' Paper and Board Association (VNP)	https://vnp.nl
Waste Paper Trade C.V. (WPT)	www.wpt-nl.com

# Mills in the Middle East Region

## BAHRAIN

### OLAYAN KIMBERLY-CLARK (OKC)

Askar, Ti  
<http://olayan.com>

## IRAN

### ARIAN CELLULOSE SANAT

Alborz, Hy, Ti  
[www.golrang.com](http://www.golrang.com)

### ARIAN SINA INC.

Sari, MDF  
[www.ariansina.com](http://www.ariansina.com)

### ARTA DECOR & ARTA PAN

Ardebil, De / HDF / MDF  
[www.artagroup.com](http://www.artagroup.com)

### AZERBAIJAN NARMEH PAPER INDUSTRIES

Tabriz, Ti

### CHOUKA IRAN WOOD & PAPER INDUSTRIES INC.

Gilan, Pa  
[www.chouka.com](http://www.chouka.com)

### GOLPOUNE PARS INDUSTRIAL

Tehran, Ti  
[www.pskcompany.com](http://www.pskcompany.com)

### HARIR KHUZESTAN CO.

Haft Tappeh Industrial City, Ti  
[www.harirpaperco.com](http://www.harirpaperco.com)

### IRAN OSB

Tehran, OSB  
[www.iranosb.com](http://www.iranosb.com)

### IRAN PAPYRUS CO. LTD.

Saveh, Bo

### ISOFAM

Tehran, MDF / PB  
[www.isofam.ir](http://www.isofam.ir)

### KPM KAHRIZAK PAPER MILLS

Tehran, Pa  
[www.kpmpaper.com](http://www.kpmpaper.com)

### LATIF PAPER CO.

Hashtgerd Industrial City, Ti  
[www.latifpaper.ir](http://www.latifpaper.ir)

### MAZANDARAN WOOD AND PAPER INDUSTRIES

Sair, Ne / P&W / Pa  
<http://en.mazpaper.com>

### NOGHTEH COMPANY

Semnan Province, MDF  
<http://noghteh-co.com>

### PARS HAYAT PRODUCTION CO.

Zenjan, Hy, Ti  
<http://parshayat.ir>

### PARS NEOPAN

Nashtaroud, MDF / PB  
<http://parsneopan.com>

### PARS PAPER INDUSTRIAL GROUP

Haft Tappeh, P&W / Pa / Pulp  
<http://parspaper.ir>

### RAHAN TAVAN CO.

Tehran, MDF / PB  
[www.rahantavan.com](http://www.rahantavan.com)

### SANAYE CHOUBE KHAZAR CO.

Amol City, MDF

### SUGARCANE DEVELOPMENT AND COMMERCE DEVELOPMENT COMPANY

Shoeybieh, MDF  
[www.iran-sugar.com](http://www.iran-sugar.com)

### ZARRIN BARG PERSIA CO

Saveh, Ti  
[www.bargezarrin.com](http://www.bargezarrin.com)

## ISRAEL

### HADERA PAPER GROUP

Hadera, Fi / Pa / P&W / Se  
[www.hadera-paper.co.il/en](http://www.hadera-paper.co.il/en)

### HARTMANN-MAI LTD.

Nathanya, MP  
[www.hartmann.dk](http://www.hartmann.dk)

### MILOUBAN (M.C.P.) LTD.

Nahariya, Pu (cotton)  
[www.milouban.com](http://www.milouban.com)

### SHANIV PAPER INDUSTRIES LTD.

Ofakim, Ti  
[www.shaniv.com](http://www.shaniv.com)

### TUT NEYAR

Zichron-Ya`akov, Hand  
<http://tutneyar.wix.com/tutneyar>

## JORDAN

### AL-KEENA HYGIENIC PAPER MILL CO. LTD.

Amman, Ti  
[www.nuqultissue.com](http://www.nuqultissue.com)

### AL-SNOBAR HYGIENIC PAPER MILL CO. LTD.

Amman, Ti  
[www.nuqulgroup.com](http://www.nuqulgroup.com)

### JORDAN PAPER AND CARDBOARD FACTORIES CO. LTD.

Awajan-Zarqa, Bo / Pa  
[www.jordanpaper.com](http://www.jordanpaper.com)

## KUWAIT

### AL OULA PAPER MANUFACTURING CO.

Shuaiba, Pa



**GULF PAPER MANUFACTURING**

Fahaheel, CB / Pa / Ti  
www.gulfpaper.com

**UNITED PAPER INDUSTRIES CO.**

Shuaiba, Pa / Sa  
www.upi.com.kw

**LEBANON****SANITARY PAPER COMPANY - MIMOSA**

Kaa El Rim, Pa / Ti  
www.mimosa.com.lb

**SICOMO**

Kab-Elias, Bo / CB / Pa  
www.sicomo.com.lb

**SIPCO GANDOUR STE. INDUSTRIELLE DE PAPIER ET DE CARTON ONDULE**

Kafarshima, Bo / Re / MP  
http://sipco0.tripod.com

**SOLICAR SOCIÉTÉ LIBANAISE DE CARTON**

Sin El Fil, Bo / Pa  
www.solicar.com

**UNIPAK TISSUE MILL**

Halat, Ti  
www.indevcopapermaking.com

**QATAR****AL SUWAIDI PAPER FACTORY**

Doha, Pa  
www.alsuwaidipaper.com

**ELITE PAPER RECYCLING**

Doha, Pa  
www.eprqatar.com

**SAUDI ARABIA****AL-FARIS PAPER MILL**

Jeddah, Ti  
www.fpm.sa

**ARAB PAPER MANUFACTURING (WARAQ)**

Dammam, CB / Pa  
www.waraq.com

**GULF PAPER INDUSTRIES FACTORY CO.**

Riyadh, Kr / Pa / Ti  
www.alrajhigroup.com

**MIDDLE EAST PAPER CO. (MEPCO)**

Jeddah, Pa  
www.mepco.biz

**OBEIKAN PAPER INDUSTRIES**

Riyadh, Bo  
www.obeikan.com.sa

**SAUDI PAPER MANUFACTURING CO.**

Dammam, Ti  
www.saudipaper.com

**SYRIA****ARAB COMPANY FOR PAPER PRODUCTS J.S.C. (ARAPEPCO)**

Aleppo, Bo / Pa / Re  
www.arapepco.com

**DINATEX PAPER MANUFACTURING**

Damascus, Ti

**ORIENTAL PAPER (LANATEX)**

Damascus, Ti

**PULP AND PAPER MILL**

Dayr al-Zawr

**SYROPAPER (AZZOUZ GROUP)**

Damascus, Kr / Pa / Sa

**MEDITERRANEAN CO. for TISSUE**

Jableh, Ti

**UNITED ARAB EMIRATES****ABU DHABI NATIONAL PAPER MILL (ADNIB)**

Abu Dhabi, Ti  
www.adnpm.ae

**AL NAKHEEL HYGIENIC PAPER MILL**

Abu Dhabi, Ti  
www.nuqultissue.com

**AR RAGI PAPER IND.**

Abu Dhabi, Hand

**CROWN PAPER MILL LTD.**

Industrial city of Abu Dhabi (ICAD), Ti  
www.crownpapermill.com

**GULF PAPER MANUFACTURING CO. K.S.C**

Jebel Ali, CB / Pa / Ti  
www.gulfpaper.com

**ITTIHAD PAPER MILL LLC**

Industrial City of Abu Dhabi, P&W  
www.ittihadinvestment.ae

**QUEENEX HYGIENE PAPER MFG L.L.C.**

Abu Dhabi, Ti  
http://qhpm.ae

**STAR PAPER MILL LTD.**

Abu Dhabi, Ti

**UMM AL QUWAIN PAPER PRODUCTS**

Uum Al Qwain, CB / Pa  
www.uaqpaper.ae

**UNION PAPER MILLS**

Dubai, CB / Pa  
www.upmuae.com

**PRODUCT KEY – see p48**

## Mills in Norway

### ARBOR-HATTFJELLDAL AS

8690 Hattfjelldal, Norway  
Tel: +47 75 18 50 00  
Website: <https://www.arbor.no>  
Products: Particleboard

### BORREGAARD

Hjalmar Wessels vei 6, 1721 Sarpsborg, Norway  
Tel: +47 69 11 80 00  
Website: [www.borregaard.com](http://www.borregaard.com)  
Products: Pulp and Speciality Chemicals

### FORESTIA AS

Damvegen 31, 2435 Braskereidfoss, Norway  
Tel: +47 38 13 71 00  
Website: <https://forestia.com>  
Products: Particleboard

### HELLEFOSS AS

Hellefossveien 113, N-3300 Hokksund, Norway  
Tel: +47 32 25 22 00  
Website: [www.hellefoss.com](http://www.hellefoss.com)  
Products: Book Papers

### HUNTON FIBER AS (HOVEDKONTOR)

Niels Ødegaards gate 8, 2810 Gjøvik, Norway  
Tel: +47 61 13 47 00  
Website: [www.hunton.no](http://www.hunton.no)  
Products: Fibre Insulation (Softboard)

### MMK FOLLACELL A.S.

Industriveien 11, 7796 Follafoss, Norway  
Tel: +47 74 12 36 00  
Website: [www.mm-karton.com](http://www.mm-karton.com)  
Products: TMP and CTMP Pulp

### NORDIC PAPER GREÅKER

P.O. Box 155  
NO-1720 Greåker, Norway  
Fax: +47 69 13 85 00  
Website: [www.nordic-paper.com](http://www.nordic-paper.com)  
Products: Greaseproof and Kraft Papers

### NORSKE SKOG SAUGBRUGS

N-1772 Halden, Norway  
Tel.: +47 69 17 40 00  
Website: [www.norskeskog.com](http://www.norskeskog.com)  
Products: SC Magazine Papers

### NORSKE SKOG SKOGN

Sjøvegen 108, N-7620 Skogn, Norway  
Tel.: +47 74 08 70 00  
Website: [www.norskeskog.com](http://www.norskeskog.com)  
Products: Newsprint and Improved Newsprint

### RANHEIM PAPER & BOARD

Peder Myhres veg 19, 7055 Ranheim, Norway  
Tel: +47 73 57 70 00  
Website: <https://ranheim-pb.com>  
Products: CCM and Solid Board Grades

### RYGENE-SMITH & THOMMESEN A/S

Sandbergveien 3, N-4821 Rykene, Norway  
Tel: +47 37 05 84 00  
Website: <https://rygene.no>  
Products: TMP and CTMP Pulp

### VAJDA-PAPIR SCANDINAVIA AS

Nedre Eiker vei 48, N-3045 Drammen, Norway  
Tel: +47 32 80 95 00  
Website: <https://vajdapapir.hu>  
Products: Tissue

## Research Organisations/Departments in Norway

### NORDIC FOREST RESEARCH (SNS)

c/o Jonas Rönnberg and Mimmi Blomquist  
Southern Swedish Forest Research Centre  
Swedish University of Agricultural Science (SLU)  
Box 49, 230 53 Alnarp, Sweden  
Website: [www.nordicforestresearch.org](http://www.nordicforestresearch.org)

### NORSK TRETEKNISK INSTITUTT

P.O Box 113 Blindern, N-0314 Oslo, Norway  
Tel: +47 98 85 33 33  
Website: [www.treteknisk.no](http://www.treteknisk.no)

### NORWEGIAN UNIVERSITY OF LIFE SCIENCES

P.O.Box 5003, NO-1432 Ås, Norway  
Tel: +47 67 23 00 00  
Website: [www.nmbu.no](http://www.nmbu.no)

### NORWEGIAN INSTITUTE OF BIOECONOMY RESEARCH

P.O.Box 115, 1431 Ås, Norway  
Tel: +47 40 60 41 00  
Website: [www.nibio.no](http://www.nibio.no)

### NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)

NO-7491 Trondheim, Norway  
Tel: +47 73 59 50 00  
Website: [www.ntnu.edu](http://www.ntnu.edu)

### RISE PFI AS

Høgskoleringen 6b, NO-7491 Trondheim, Norway  
Tel: +47 73 60 50 65  
Website: [www.rise-pfi.no](http://www.rise-pfi.no)

# Mills in the Eastern European Region

*Excluding Russian Federation; Including: Estonia, Greece, Latvia, Lithuania & Turkey.*

## ALBANIA

### EDIPACK

Durrës, Pa  
[www.edipack.al](http://www.edipack.al)

## ARMENIA

### BUMIZ PAPER MILL

Yerevan

### TUKHTARD TARA LIMITED

Yerevan, Pa

## AZERBAIJAN

### AZERKARTON

Baku, Pa

### AZERSUN

Sumgayit, Pa / Re / Ti  
[www.azersun.com](http://www.azersun.com)

## BELARUS

### BOBRUISK FIBERBOARD FACTORY

Bobruisk, HB  
[www.renaissance.by](http://www.renaissance.by)

### COOO "EXCLUSIVE"

Grondo, Ti  
[www.excl.by](http://www.excl.by)

### DOBRUSH PAPER MILL GEROI TRUDA JSC

Dobrush, P&W / Pa / Pr  
[www.bellesbumprom.by](http://www.bellesbumprom.by)

### JSC BORISOVDREV

Minsk, MDF  
[www.borisovdrev.by](http://www.borisovdrev.by)

### JSC GOMELDREV

Gomel, MDF  
<http://bellesbumprom.by>

### JSC PAPER MILL "KRASNAYA ZVEZDA"

Chashniki, Bo / Pa  
[www.1886red-star.by](http://www.1886red-star.by)

### JSC MOSTOVDREV

Mosty, MDF  
[www.mostovdrev.com](http://www.mostovdrev.com)

### JSC RECHITSADREV

Rechitsa, PB  
<http://rechdrev.by>

### JSC SCPM "ALBERTIN"

Slonim, Bo / Pa / Ti  
<http://albertin.by>

### JSC SVETLOGORSKIY PULP AND PAPER INTEGRATED WORKS, OJSC

Svietlogorsk, Pa / Pu (wood)  
[www.sckk.by](http://www.sckk.by)

### KRONOSPAN FLLC

Smorgon, PB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### KRONOSPAN OSB MOGILEV

Mogilev, OSB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### MOZYRSKY DOK

Mozyr, Ins  
<http://bellesprom.com>

### OSJC RETCHIZADREV

Retchiza, PB

### PAPER MILL OF GOZNAK

Borisov, Fi / P&W / Pa  
[www.goznakpaper.by](http://www.goznakpaper.by)

### RUE ZAVOD GAZETNOY BUMAGI

Shklov, Ne / P&W / De  
[www.asnova.name/en/](http://www.asnova.name/en/)

### SPARTAK PAPER MILL JSC

Shklov, Bo / Pa / Ti / Wa  
[www.bfs.by](http://www.bfs.by)

## BOSNIA AND HERZEGOVINA

### NATRON-HAYAT D.O.O.

Maglaj, Kr / Pa / Pu (wood) / Re  
[www.natron-hayat.ba](http://www.natron-hayat.ba)

### SHP CELEX A.D.

Banja Luka, Hy / Ti  
[www.shpgroup.eu](http://www.shpgroup.eu)

## BULGARIA

### ALFA WOOD

Varna, PB  
[www.alfawood.gr](http://www.alfawood.gr)

### DS SMITH BULGARIA S.A.

Pazardzhik, Pa  
[www.dssmith.com](http://www.dssmith.com)

### FAZERLES A.D.

Silistra, HB  
<http://fazerles.com>

### KASTAMONU BULGARIA A.D.

Pavel Banya, PB  
[www.kastamonuentegre.com.tr](http://www.kastamonuentegre.com.tr)

**ZERTIS GROUP**

Belovo, Hy / Ti  
www.zeritisgroup.com

**KOSTENETS-HHI S.A.**

Kostenets, Pa / Ti  
www.hhi-bg.com

**KRONOSPAN BULGARIA EOOD**

Burgas, OSB  
www.kronospan-worldwide.com

**KRONOSPAN BULGARIA EOOD**

Veliko Tarnovo, PB  
www.kronospan-worldwide.com

**MONDI STAMBOLIJSKI EAD**

Stamboliyski, Pa  
www.mondigroup.com

**NOVA KNIZHNA FABRIKA**

Sofia, Bo / Pa / Re / Sp  
www.nkfabrika.com

**SVILOCELL EAD**

Svishtov, Pu (wood)  
www.svilosa.bg

**WELDE BULGARIA AD**

Troyan, HB  
http://welde.bg

**CROATIA**

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**CARDBOARD S.R.O.**

Otrokovice, Bo  
www.cardboard.cz

**DS SMITH BELIŠĆE CROATIA D.O.O.**

Belišće, Pa / Pu (wood)  
www.dssmith.com

**HARTMANN PAPIRNA AMBALAZA D.O.O.**

Koprivnica, MP  
www.hartmann.dk

**KRONOSPAN CRO LTD.**

Bjelovar, PB  
www.kronospan-worldwide.com

**PAN-PAPIRNA INDUSTRIJA D.O.O.**

Donji Andrijevci, Pa  
www.pan-paper.hr

**PAN-PAPIRNA INDUSTRIJA D.O.O.**

Zagreb, Bo / Pa  
www.pan-paper.hr

**CZECH REPUBLIC**

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**BIOCEL PASKOV A.S.**

Paskov, Pu (wood)  
www.biocel.cz

**CEREPA A.S.**

Červená Řečice, Hy / Ti  
www.cerepa.cz

**EMBA S.R.O.**

Paseky nad Jizerou, Bo / Sp  
www.emba.cz

**HUHTAMAKI CESKA REPUBLIKA A.S.**

Okříšky, MP / Pa / Th  
www.huhtamaki.com

**JIP-PAPIRNY VETRNI A.S.**

Větrní, Pa / P&W / Sp  
www.jip.cz

**KAVALIER TEC S.R.O.**

Bělá pod Bezdězem, Bo / Pa  
www.papirny-bela.cz

**KORONA CZ S.R.O.**

Lochovice, Bo  
www.korona.cz

**KRONOSPAN CR SPOL. SR. O.**

Jihlava, OSB  
www.kronospan-worldwide.com

**KRPA HOLDING CZ, A.S.**

Hostinné, Fi / Pa / P&W / Sp  
www.krpa.cz

**MONDI STETI A.S.**

Štětí, Pa / Sa  
www.mondigroup.com

**OP PAPIRNA S.R.O.**

Olšany, Th / Sp  
www.delfortgroup.com

**PAPOS V.O.S.**

Ostrov, Bo  
www.papos.cz

**SEVEROCESKA PAPIRNA S.R.O.**

Novosedlice, Pa / Sp / Wa  
www.sevpap.cz

**SMURFIT KAPPA MORAVA PAPER**

Zimrovice, Pa  
www.smurfitkappa.com

**SPM - SECURITY PAPER MILL, A.S.**

Štětí, Se / Sp  
www.spm.cz

**TRIDAS PULP S.R.O.**

Valašské Meziříčí, MP  
www.tridas-pulp.cz

## ESTONIA

### EESTI VANAPABER OÜ

Tartu, MP  
<http://em.ee>

### ESTONIAN CELL AS

Kunda, Pu (BCTMP)  
[www.estoniantcell.ee](http://www.estoniantcell.ee)

### HORIZON PULP & PAPER

Kehra, Kr / Sa / Sp / Ti  
[www.horizon.ee](http://www.horizon.ee)

### RÄPINA PABERIVABRIK AS

Räpina, Fi / Pa  
[www.rappin.ee](http://www.rappin.ee)

### SKANO FIBREBOARD

Pärnu, HB  
<http://fibreboard.skano.com>

## GREECE

### AKRITAS S.A.

Alexandroupoli, PB  
[www.akritas.gr](http://www.akritas.gr)

### ALFA WOOD

Grevena, MDF  
[www.alfawood.gr](http://www.alfawood.gr)

### ALFA WOOD

Larissa, MDF  
[www.alfawood.gr](http://www.alfawood.gr)

### ELINA KOMOTINI PAPER MILL

Komotini, Pa / Ti  
[www.komotinipaper.gr](http://www.komotinipaper.gr)

### FTHIOTIS PAPER MILL S.A.

Moskhatón, Bo  
[www.elpack.gr](http://www.elpack.gr)

### MAXI PAPER MILL

Thessaloniki, Ti  
[www.maxi.gr](http://www.maxi.gr)

### MEL MACEDONIAN PAPER MILLS S.A.

Thessaloniki, Bo  
[www.melpaper.com](http://www.melpaper.com)

### SOFIDEL GREECE S.A.

Katerini, Ti  
[www.sofidel.com](http://www.sofidel.com)

## HUNGARY

### ALBA PULP KFT.

Szekesfehervar, MP  
[www.albapulp.hu](http://www.albapulp.hu)

### DIPA ZRT.

Miskolc, Se  
[www.dipa.hu](http://www.dipa.hu)

### DRENIK HUNGARY KFT.

Szolnok, Pu  
<http://drenik-zg.com>

### DUNAFIN KFT.

Dunaújváros, La / Pu (TMP)  
[www.delfortgroup.com](http://www.delfortgroup.com)

### HAMBURGER HUNGARIA LTD.

Dunaújváros, Pa  
[www.hamburger-containerboard.com](http://www.hamburger-containerboard.com)

### HARTMANN HUNGARY KFT.

Ács, MP  
[www.hartmann.dk](http://www.hartmann.dk)

### KRONOSPAN MOFA

Mohács, MDF  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### KRONOSPAN MOFA

Szombathely, PB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### PULP CONCEPT KFT.

Budapest, MP  
<http://pulpconcept.com>

### SWISS KRONO KFT.

Vásárosnaményi, OSB  
[www.swisskrono.hu](http://www.swisskrono.hu)

### VAJDA PAPIR KFT

Dunafoldvar, Ti  
<http://vajdapapir.hu>

## LATVIA

### JELD-WEN

Aizkraukle, MDF  
[www.jeld-wen.lv](http://www.jeld-wen.lv)

### JUGLAS PAPIRS SIA

Riga, Bo / Pa / P&W  
[www.juglaspapirs.lv](http://www.juglaspapirs.lv)

### KRONOSPAN RIGA

Riga, OSB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### SIA V.L.T.

Valmiera, MP  
[www.eggbox.lv](http://www.eggbox.lv)

## LITHUANIA

### GRIGEO GRIGIŠKĖS AB

Grigiškės, HB / Pa / Ti  
[www.grigeo.lt](http://www.grigeo.lt)

### **GRIGEO KLAIPĖDOS KARTONAS AB**

Klaipėda, Pa  
[www.grigeo.lt](http://www.grigeo.lt)

### **PACK KLAIPEDA**

Klaipėda, MP  
[www.pack-klaipeda.lt](http://www.pack-klaipeda.lt)

## **POLAND**

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### **APIS SP. Z O.O.**

Szczecin, Pa  
<http://pwapis.eu/en/>

### **ARCTIC PAPER KOSTRZYŃ S.A.**

Kostrzyń Odrzański, Fi / P&W  
[www.arcticpaper.com](http://www.arcticpaper.com)

### **BEMA FABRYKA PLYT FILTRACYJNYCH I TEKTURY**

Wleń, Bo / Hand / Pa / Sp  
[www.bema.pl](http://www.bema.pl)

### **FABRYKA PAPIERU I TEKTURY BESKIDY S.A.**

Wadowice, Pa / Ti  
[www.fabryka-tektury.pl](http://www.fabryka-tektury.pl)

### **FABRYKA PAPIERU W DABROWICY SP. Z O.O.**

Jelenia Góra, Pa / Re  
[www.fabryka-papiaru.pl](http://www.fabryka-papiaru.pl)

### **FIBREPAK**

Poznań, MP  
[www.fibrepack.eu](http://www.fibrepack.eu)

### **GLUCHOLASKIE ZAKŁADY PAPIERNICZE SP. Z O.O.**

Glucholązy, Hy / Ti  
[www.gzp.com.pl](http://www.gzp.com.pl)

### **HANKE TISSUE SP. Z O.O.**

Kostrzyń Odrzański, Ti  
<http://hanketissue.pl>

### **HOMANIT GMBH & CO. KG.**

Karlino, MDF  
[www.homanit.org](http://www.homanit.org)

### **HOMANIT GMBH & CO. KG.**

Krosno Odrzańskie, MDF  
[www.homanit.org](http://www.homanit.org)

### **ICT POLAND SP. Z O.O.**

Kostrzyń Odrzański, Hy / Ti  
[www.ictgroup.net](http://www.ictgroup.net)

### **IKEA INDUSTRY POLAND**

Bielsk Podlaski, HDF / MDF  
<http://inter.ikea.com>

### **IKEA INDUSTRY POLAND**

Orla, HB / HDF  
<http://inter.ikea.com>

### **INPOL-PAPIER LTD**

Bardo, Pa  
[www.inpolpapier.pl](http://www.inpolpapier.pl)

### **INTERNATIONAL PAPER SP. Z O.O.**

Kwidzyn, Co / Fi / Ne / P&W  
[www.internationalpaper.com](http://www.internationalpaper.com)

### **KRONOPOL SP. Z O.O.**

Zary, MDF / OSB / PB  
[www.swisskrono.pl](http://www.swisskrono.pl)

### **KRONOSPAN MIELEC SP. Z O.O.**

Mielec, PB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### **KRONOSPAN PL SP. ZO.O.**

Strzelce Opolskie, MDF  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### **KRONOSPAN POLSPAN LTD**

Szczecinek, MDF  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### **MALTA-DECOR SP. Z OO**

Poznań, De  
[www.maltadecor.pl](http://www.maltadecor.pl)

### **METSÄ TISSUE S.A.**

Krapkowice, Hy / Ti  
[www.metsatissue.com](http://www.metsatissue.com)

### **MONDI SWIECIE S.A.**

Świecie n. Wisłą, Pa / Pu (wood) / Sa  
[www.mondigroup.com](http://www.mondigroup.com)

### **PACKPROFIL SP. Z O.O.**

Kolonowskie, Bo / Pa  
[www.packprofil.pl](http://www.packprofil.pl)

### **PFLEIDERER GRAJEWO S.A.**

Grajewo, MDF  
[www.pfleiderer.pl](http://www.pfleiderer.pl)

### **POLSKA WYTWORNIA PAPIEROW WARTOSCIOWYCH S.A.**

Warszawa, Se  
[www.pwppw.pl](http://www.pwppw.pl)

### **PPHU ROLLS SP. Z O.O.**

Włocławek, Hy / Ti  
[www.rollspap.com.pl](http://www.rollspap.com.pl)

### **SCHUMACHER PACKAGING**

Grudziądz, Pa  
[www.schumacher-packaging.com](http://www.schumacher-packaging.com)

### **SOFIDEL POLAND SP. Z O.O.**

Ciechanów, Ti  
[www.sofidel.com](http://www.sofidel.com)

### STEICO

Czarna Woda, Ins  
[www.steico.com](http://www.steico.com)

### STEICO

Czarnków, Ins  
[www.steico.com](http://www.steico.com)

### STORA ENSO POLAND S.A.

Ostrołęka, Pa / Sa  
[www.storaenso.com](http://www.storaenso.com)

### TOP S.A.

Tychy, Pa  
[www.topsa.pl](http://www.topsa.pl)

### VELVET CARE SP. Z.O.O.

Klucze, Hy / Ti  
<http://velvetcare.pl>

### WARTER S.J.

Tarnówka, Pa / Re  
[www.fabryka-tektury.pl](http://www.fabryka-tektury.pl)

### WEPA PIECHOWICE SP. Z O.O.

Piechowice, Hy / Ti  
[www.wepa.de](http://www.wepa.de)

### ZAKLADY PRZEMYSŁU FILCOWEGO FILTEX S.A.

Łódź, NW / Sp  
<https://filtex.com.pl>

## ROMANIA

### KASTAMONU ROMANIA S.A.

Reghin, PB  
[www.kastamonu.ro](http://www.kastamonu.ro)

### KRONOSPAN ROMÂNIA SRL

Brasov, MDF  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### KRONOSPAN ROMANIA SRL

Sebes Jud. Alba, MDF  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### METALICPLAS SRL

Dej, Ti  
<http://metalicplas.ro>

### SC AMBRO S.A.

Suceava, Pa  
[www.rossmann.com](http://www.rossmann.com)

### SC DENTAS ROMANIA SRL

Dambovita, MP  
[www.dentas.ro](http://www.dentas.ro)

### S.C. DS SMITH PAPER ZARNESTI SRL

Zarnesti, Pa  
[www.dssmith.com](http://www.dssmith.com)

### SC EGGER ROMÂNIA SRL

Radauti, PB / OSB  
[www.egger.com](http://www.egger.com)

### SC MONTE BIANCO SA

Targoviste, Ti  
[www.montebianco.ro](http://www.montebianco.ro)

### SC PEHART TEC SA

Petresti, MP / Pa / Ti  
[www.peharttec.ro](http://www.peharttec.ro)

### SC PETROCART SA

Piatra-Neamt, Bo / Ti  
[www.petrocart.ro](http://www.petrocart.ro)

### SC VRANCART SA

Adjud, Pa / Ti  
[www.vrancart.ro](http://www.vrancart.ro)

### SOFIDEL ROMANIA

Calarasi, Ti  
[www.sofidel.com](http://www.sofidel.com)

## SERBIA

### DRENİK ND D.O.O.

Belgrade, Ti  
<http://drenik-zg.com>

### FABRIKA HARTIJE BEOGRAD

Belgrade, Pa / P&W  
[www.kappastar.com](http://www.kappastar.com)

### FABRIKA KARTONA UMKA

Umka, Bo  
[www.umka.rs](http://www.umka.rs)

### KRONOSPAN SRB D.O.O.

Lapovo, PB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### LEPENKA A.D.

Novi Kneževac, Bo  
[www.lepenka.co.rs](http://www.lepenka.co.rs)

### SPIK IVERICA

Ivanjica, PB  
[www.fantoni.it](http://www.fantoni.it)

## SLOVAK REPUBLIC

### BUČINA DDD, SPOL. S R.O.

Zvolen, PB  
[www.kronospan-worldwide.com](http://www.kronospan-worldwide.com)

### BUKOCEL A.S. PULPMILL

Hencovce, Pu (wood)  
[www.bukoza.sk](http://www.bukoza.sk)

### ESSITY

Gemerská Hôrka, Hy / NW / Pa  
[www.essity.com](http://www.essity.com)

**IKEA INDUSTRY SLOVAKIA S.R.O.**

Malacky, PB  
www.swedspan.com

**LEXPACK**

MP  
www.lexpack.sk

**METSÄ TISSUE SLOVAKIA S.R.O.**

Žilina, Ti  
www.metsatissue.com

**MONDI SCP A.S.**

Ružomberok, Pa / P&W / Pu (wood)  
www.mondigroup.com

**SHP HARMANEC A.S.**

Harmanec, Ti  
www.shpgroup.eu

**SHP SLAVOSOVCE A.S.**

Slavošovce, Ti  
www.shpgroup.eu

**SIMPO ŠIK D.O.O.**

Kuršumlja, HB  
http://simposik.rs

**SPIK IVERICA**

Ivanjica, PB  
www.fantoni.it

**SLOVENIA**

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**FANTONI LKI LESONIT**

Lirska Bistrica, HDF / MDF  
www.fantoni.it

**GORICANE TOVARNA PAPIRJA MEDVODE D.D.**

Medvode, Fi / P&W  
www.goricane.si

**KOLICEVO KARTON D.O.O.**

Domžale, Bo  
www.mm-karton.com

**LEPENKA, PODJETJE ZA PROIZVODNJO IN  
PREDELAVO PAPIRJA TRZIC D.D.**

Tržič, Bo / Pa / Ti  
www.lepenka.si

**PALOMA-SLADKOGORSKA**

Sladki Vrh, Ti  
www.paloma.si

**PAPIRNICA VEVCE D.O.O.**

Ljubljana, Pa / P&W  
www.brigl-bergmeister.com

**RADECE PAPIR NOVA D.O.O.**

Radeče, Fi / Se  
www.radecepapir.si

**VIPAP VIDEM KRŠKO D.D.**

Krško, Ne / P&W  
www.vipap.si

**TURKEY**

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**AKTUL KAGIT URETIM PAZARLAMA A.S.**

Sakarya, Ti  
www.aktulkagit.com.tr

**DENTAŞ KAĞIT SANAYİ A.Ş.**

Aksaray, MP  
www.dentas.ro

**EKA KAGIT**

Kocaeli, Pa / Ti  
www.ekakagit.com

**ESSEL CELLULOSE AND PAPER**

Zonguldak Çaycuma, Ti  
www.essel.com.tr

**HALKALI KAĞIT KARTON SAN. VE TIC. A.Ş.**

Istanbul, Pa  
www.halkalikagit.com.tr

**HAMBURGER DENTAŞ**

Çorlu, Pa  
www.hamburger-containerboard.com

**HAYAT KIMYA**

Kocaeli, NW  
www.hayat.com.tr

**HAYAT KIMYA**

Mersin, Ti  
www.hayat.com.tr

**HAYAT KIMYA**

Yeniköy, Hy / Ti  
www.hayat.com.tr

**IPEK KAGIT SANAYI VE TICARET A.S.**

Yalova, Hy / Ti  
www.ipekkagit.com.tr

**IPEK KAGIT SANAYI VE TICARET A.S.**

Manisa, Hy / Ti  
www.ipekkagit.com.tr

**KARTONSAN, KARTON SANAYI VE TICARET A.S.**

Izmit (Kocaeli), Bo  
www.kartonsan.com

**KASTAMONU ENTEGRE**

Adana, PB  
www.kastamonuentegre.com.tr

**KASTAMONU ENTEGRE**

Balıkesir, PB  
www.kastamonuentegre.com.tr



**KASTAMONU ENTEGRE**

Gebze, MDF / PB  
www.kastamonuentegre.com.tr

**KASTAMONU ENTEGRE**

Kastamonu, MDF / PB  
www.kastamonuentegre.com.tr

**KASTAMONU ENTEGRE**

Samsun, PB  
www.kastamonuentegre.com.tr

**KASTAMONU ENTEGRE**

Tarsus, PB  
www.kastamonuentegre.com.tr

**KMK PAPER**

Kahramanmaraş, Bo / CB / Pa  
www.kmkpaper.com

**KMK PAPER**

Kütahya, Ne / Pa  
www.kmkpaper.com

**KOMBASSAN KAĞIT MATBAA GIDA VE  
TEKSTİL SAN.TİC.A.Ş.**

Konya, Co / Fi / P&W  
www.kombassan.com.tr

**LEVENT KAGIT SAN. VE TIC. A.S.**

Izmir, Ti  
www.leventkagit.com.tr

**LILA KAGIT SAN. VE TIC. A.S.**

Corlu, Ti  
www.lilakagit.com

**MARMARA KAGIT VE AMBALAJ SAN. TIC. A.S.**

Veziroğlu, pa  
www.marmarakagit.com

**MODERN KARTON A.S.**

Corlu, Pa  
www.modernkarton.com.tr

**MONDI TIRE PAPER MILL**

Tire, Pa  
www.mondigroup.com

**MOPAK GROUP**

Dalaman, Bo / Sp / Co / Pa  
www.mopak.com.tr

**MOPAK GROUP**

Kastamonu, Sp / Th  
www.mopak.com.tr

**MOPAK GROUP**

Kemalpasa, Pa / P&W / Pu  
www.mopak.com.tr

**OYKA KAGIT AMBALAJ SA. VE TIC. A.S.  
CAYCUMA**

Çaycuma, Pa / Sa  
www.oyka.com.tr

**PARTEKS KAGIT**

Kayseri, Ti  
www.partekspaper.com

**PEHLIVANOĞLU KAĞIT**

Çerkezköy, Pa  
www.pehlivanoglukagit.com.tr

**PM PACKAGING LTD**

Istanbul, MP

**SEKA MEHMET ALI KAĞITÇI**

Kocaeli, (Paper Museum)  
http://sekakagitmuzesi.com

**TEPE BETOPAN A.Ş.**

Ankara, PB  
www.betopan.com.tr

**TEZOL TUTUN VE KAGIT A.S.**

Izmir, Ti  
www.tezol.com.tr

**TOPRAK KAGIT SANAYI A.S.**

Bilecik, Ti  
www.toprak.com.tr

**TOPRAK KAGIT SANAYI A.S.**

Istanbul, Co / Fi / P&W  
www.toprak.com.tr

**TURKOGLU KAGIT KARTON SANAYII VE  
TICARET A.S.**

Istanbul, Bo  
www.turkoglu.com.tr

**VIKING KAGIT VE SELUELOZ A.S.**

Izmir, Ti  
www.viking.com.tr

**UKRAINE**

**BANKNOTE PAPER MILL OF THE NATIONAL  
BANK OF UKRAINE**

Malyń, Se  
https://bank.gov.ua

**DNIPROPETROVSK PAPER MILL**

Dnipropetrovsk, Fi / Pa / P&W  
www.dbf.com.ua

**DONETSK-VTORMA CO LTD**

Donetsk, Pa / Ti  
www.vtorma.com

**FESKO**

Lutsk, Ti  
http://fesko.ruta.ua

**IZMAIL PULP AND BOARD MILL JSC**

Izmail, Pa  
www.osnova.ua

**KOHAVINKA PAPER MILL JSC**

Hnizdychiv, Pa / Ti  
www.kpf.ua

**KOROSTEN MDF**

Korosten, MDF  
www.kmm.ua

**KORYUKIVKA PAPER**

Koryukivka, Wa  
www.slav-obo.com.ua

**KRONOSPAN UA LLC**

Novovolynsk, PB  
www.kronospan-worldwide.com

**KYIV CARDBOARD AND PAPER MILL JSC**

Obukhiv, Pa / Ti  
www.papir.kiev.ua

**LUTSK PAPERBOARD AND ASPHALT BOARD MILL**

Lutsk, Bo / Pa / Re / Sp  
www.lkrk.com.ua

**LVIVKARTONPLAST JSC**

Lviv, Bo / Hy / Pa / Sp / Ti  
http://paperandboard.com.ua

**MALYN PAPER MILL JSC**

Malyn, Sp  
www.weidmann-electrical.com

**PAPIR-MAL LTD**

Malyn, Ti  
http://papier-mal.com.ua

**RUBIZNE PAPERBOARD AND BOARD BOX MILL JSC**

Rubizne, Pa  
www.rktk.com.ua

**SWISS KRONO TOB**

Broshniv-Osada, PB  
www.swisskrono.ua

**SWISS KRONO TOB**

Kamianka-Buska Town, PB  
www.swisskrono.ua

**SWISS KRONO TOB**

Kharkov, PB  
www.swisskrono.ua

**THE CASTLE - PECHERSK LAVRA PAPER MILL**

Kyiv, Hand  
www.radozamok.com.ua

**TPG ALBATROS LLC**

Dnipropetrovsk, Hy / Ti

**TPM TSYURUPINSK PAPER-MILL LTD**

Tsyurupinsk, Sp  
www.rfolg.com.ua

**UNIPLYT**

Ivano-Frankivsk, HB  
http://uniplyt.com.ua

**ZHYDACHIV PULP AND PAPER MILL JSC**

Zhydachiv, Bo / MP / Ne / Pa / Sp  
www.osnova.ua

**ZHYTOMYR PAPER MILL JV**

Zhytomyr, MP / Pa  
http://en.cardboard.com.ua

**PRODUCT KEY**

<b>PANEL</b>	HB (Hardboard)		
	HDF (High Density Fibreboard)	MDF (Medium Density Fibreboard)	
	Ins (Insulation)		
	PB (Particle Board)	OSB (Oriented Strand Board)	
<b>PAPER</b>	Bo (Board)	Pa (Packaging)	
	CB (Core Board)	P&W (Printing & writings)	
	Co (Coated)	Re (Recycled – various)	
	De (Décor)	Sa (Sack)	
	Fi (Fine)	Se (Security)	
	Hand (Handmade)	Sp (Speciality)	
	Kr (Kraft)	Th (Thin Papers)	
	La (Label)	Ti (Tissue)	
	MG (Machine Glazed)	Wa (Wallpaper)	
	Ne (Newsprint)		
	<b>PULP</b>	Pu (fibre)	
		<b>OTHER</b>	Hy (Hygiene)
MP (Moulded Pulp)			



# PITA Membership Benefits

The **Paper Industry Technical Association (PITA)** is an independent organisation which operates for the general benefit of its members – both individual and corporate – in promoting and communicating the technological aspects of paper manufacture. Formed in 1960, it has served the Industry – both manufacturers and allied trades – for over half a century.

## Individual Membership Benefits include:

- The following publications, which are distributed free to all **PITA** members:
  - » **Paper Technology International** - a prestigious international technical journal (3 issues pa);
  - » **PITA Annual Review** - an invaluable source of contact information and data;
  - » **PITA Membership Directory** - a unique source of contact details (exclusive to members);
  - » **PAPERmaking!** - a new e-magazine with business/technical focus (2 issues pa);
  - » **PITA Affairs** e-newsletter - containing time-sensitive information (at least 10 issues pa).
- Preferential access to **PITA** Technical Meetings and any Training Seminars organised by **PITA**.

## Corporate Membership Benefits include:

- Promotional opportunities via:
  - » Features in **Paper Technology International**, **Papermaking!** and the **PITA Annual Review**;
  - » Targeted exposure (with optional Logo upgrade) in the **PITA Annual Review** and **PITA** website;
  - » Promotion and links from the **PITA** Website, via emails and in our directories;
  - » Advanced notification of publicity opportunities that may arise at **PITA** meetings;
  - » **Priority publication of corporate press releases relating to new products and services:**
    - \* In full on the **PITA** website; in **PITA Affairs**; and in **PAPERmaking!**; and
    - \* As an edited version in the nearest edition of **Paper Technology International**
- Preferential discounted rates:
  - » On Exhibition Spaces at **PITA** Events;
  - » For Advertising in **PITA** Publications;
  - » For all employees attending **PITA** Workshops, Seminars & Training Courses;
  - » Complimentary Student Membership for any trainees.\*
- Access to the '**PITA Links**' recruitment service.
- Opportunities to identify and work with industry partners on **PITA** led projects.

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\* Students must be under the age of 30 and participating in a recognised training programme relevant to the Paper and / or Fibrous Forest Products Sectors.

PAPER-ME 2019 TISSUE-ME 2019



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**18,19,20 September 2019**

Egypt International Exhibition Center (EIEC),  
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