

Major consumer of recovered fibre

Total usage of recovered fibre amounted to 2.4 million tonnes in 2004 (2.1 million tonnes in 2003), resulting in a utilisation rate of 17% (15% in 2003). Stora Enso is among the largest consumers of recovered paper in Europe. In the USA, Stora Enso is a leading user of recovered fibre in the coated paper sector.

The rise in the Group's recovered fibre consumption was primarily a result of increased usage at **Langerbrugge Mill's** newsprint line, which started up in May 2003, and operated throughout 2004. Total recovered fibre consumption will continue to rise in 2005 when the newsprint machine at Langerbrugge reaches its full capacity.

Despite this increase, only about 19% of the Group's total need for raw material fibre in Europe is currently met by recovered paper. Stora Enso's production is mainly concentrated close to large sources of fresh fibre in Northern Europe.

Stora Enso regards recovered paper as a strategically important raw material, and the use of recovered fibre is one important cornerstone of the Group's fibre strategy. Fibre cannot be recycled indefinitely, however, since its quality

decreases each time it is processed, so fresh fibre will continue to be needed for most types of paper production.

Stora Enso promotes the recycling of paper products as part of its responsibilities as the manufacturer.

Recovered paper mainly used for products with short life cycles

Twelve Stora Enso mills use recovered paper as a raw material. The newsprint mill at **Sachsen**, the new newsprint machine at Langerbrugge and packaging board producers **Barcelona, Varkaus, Wisconsin Rapids** and Corenso France's **Soustre Mill** all use 100% recovered paper. Six other mills, **Duluth, Heinola, Hylte, Keräyskuitu, Pori** and **Maxau-Wolfscheck** use a combination of recovered paper and fresh fibre.

In general, Stora Enso considers recovered fibre to be suitable for products with a short life cycle. Recovered fibre is channelled to uses where it creates the most value for the Group and its customers – according to the quality requirements for the paper grades concerned.

Stora Enso's main end uses for recovered fibre are newsprint and certain

types of board, but in the USA recovered fibre is also used to make magazine and fine papers.

Getting into books

Book publishers and writers keen to promote recycling have asked Stora Enso to produce book paper with a significant recovered fibre content. The challenge is that the paper used in books should typically be durable, as books are meant to last for many years. Recovered fibre tends to reduce paper's bulk and brightness, which are essential properties for book papers. Within the book paper segment, demands for brightness are lowest for certain types of paperback publishing.

With this market in mind, Stora Enso has developed a special book paper grade that contains 5–20% recovered fibre, depending on the customer's quality demands. This paper is produced at **Summa Mill**.

Highlights

A major rebuild of **Maxau Mill's** paper machine no. 6 has increased capacity and improved product quality. As part of this project, two de-inking lines have



been rebuilt, leading to an increase in recovered paper consumption of about 30%.

In 2004, Langerbrugge Mill used about 516 000 tonnes of recovered paper. The mill's newsprint machine has not reached its full capacity yet, however, and it will eventually consume about 700 000 tonnes of recovered paper per year. The newsprint line will be modified in the beginning of 2005 to minimise the dusting of paper, which occurs during printing. The machine will be closed down for about five weeks, which means a break in production, and a consequent reduction in recovered paper utilisation. In 2004, the utilisation rate for newsprint produced – recovered paper consumption in relation to total newsprint production – amounted to 61%.

At the end of 2004, Stora Enso acquired a majority interest in the Polish packaging producer **Intercell S.A.**, whose operations include recovered paper collection and the manufacture of corrugated packaging. Intercell runs Poland's largest recovered paper collection business, accounting for approximately 15% of paper recycling in Poland. ●



See a map of the mills consuming recovered paper at www.storaenso.com/2004/sustainability

