

RECYCLED WATER FOR RECYCLED PAPER

at UPM Shotton Paper Mill

When it was opened in the mid 1980s, the Shotton Paper mill marked a new era in the British paper industry as the first UK manufacturer of newsprint.

Although the mill originally manufactured newsprint from a pulp mix of renewable resources, the plant was converted in 2003 and now uses 100% recycled paper. Today more than 600,000 tonnes of waste paper is collected and recycled each year – saving landfill space and avoiding the need for incineration.

During the manufacturing process, waste water goes through a complex process of treatment, clarification and filtration before recycling or pumping back to the river. The recycled water is used as wash water, sprayed through nozzles to clean sludge from equipment used to produce fertiliser or fuel cakes.

Any particulates in the water can block the fine spray nozzles, causing inconvenience and downtime. So, as part of a recent plant expansion programme, UPM Shotton has installed an BOLLFILTER Automatic system to provide fine filtration of wash water.

Andrew Bronnert, UPM Plant Engineer, has been pleased with the Bollfilter installation. *"Since it was installed, the filter has operated without problems. It is set to automatically backflush to remove any debris and has not required cleaning or maintenance."*

Client	UPM -Kymmene Group
System	BOLLFILTER Automatic Type 6.18 with Steel Casing Flow rate 173 m ³ /hr Filtration level: 100 micron



TOP. Recycled wash water cleans sludge from the Gravity Table used to produce fertiliser.

CENTRE. BOLLFILTER Automatic Type 6.18 installed to remove particulates from the wash water.

BOTTOM. The BOLLFILTER is integrated into the plant control system (DCS) and can be operated locally or remotely.