Optimizing the water circuit with “Sipaper Water” – Siemens supplies water treatment solutions for the pulp and paper industry

The comprehensive “Sipaper Water” range of solutions from Siemens is intended for water circuits in production facilities – from freshwater purification to sludge treatment. It can be used for evaluating existing facilities, designing the relevant processes and constructing new plants and can also be integrated in the manufacturing process. On the basis of the range of products offered by Siemens Water Technologies or third-party suppliers, modular optimized solutions can be developed for every step in the process, for example in the treatment of materials or in paper production. The amount of freshwater used can thus be reduced and disposal costs can also be lowered.

In the pulp and paper industry, water is a crucial factor in production and also in terms of cost. As a medium essential to the industry, water is used for all aspects of the process and has a determining influence on the quality of the intermediate and final products. At the same time, the process water is contaminated with many different substances in the individual stages of production and therefore has to be cleaned before being re-used or removed from the plant. The supply of freshwater and the disposal of waste water typically account for around nine per cent of production costs. In order to minimize these costs, the pulp and paper industry relies on ensuring that as much of the process water as possible is purified for re-use.
Siemens Water Technologies provides a complete range of solutions for water treatment in the manufacture of pulp and paper. Siemens combines the individual systems and components such as membrane filters, microflotation, anaerobic reactors, coarse filters or moving bed biofilter reactors to create an individual water-treatment solution which has been optimized to match the type of water contamination encountered in each step of the process. Sludge treatment and reject removal round off the range of functions provided.

When such systems are combined with the electrical and automation plant modules from Siemens – such as “Sipaper DCS” –, integrated all-round solutions are created for the various stages of the process in pulp and paper production. Operation of machines and control of the water circuit via a shared process control system enables better control of the individual steps in the process and elimination of fluctuations in the water circuits in all parts of the production facility.

Siemens also provides a range of services, including evaluation of existing water treatment systems, development of process concepts specifically for different parts of the plant as well as the creation of pilot installations.

A picture supplements this press release. Please see:
http://www.industry.siemens.com/data/presse/pics/06054461.jpg

Further information under: http://www.siemens.com/paper

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