Sustainable water management

Pulp & Paper industry
Sustainable water management

Veolia Water Solutions & Technologies (VWS) provides unique water, wastewater & reclaim solutions from process design to complete turnkey installation and associated services.

Present in more than 60 countries, we address economic and environmental challenges by optimizing water treatment plants performances, improving energy efficiency and by taking steps to reduce the ecological impact of your activities.

Water is a key element in the Pulp & Paper industry

Thanks to a global network of specialists Business Units in Pulp & Paper, VWS provides solutions for the entire water treatment cycle:
- Raw and process water treatment
- Effluent treatment
- Water reuse
- Sludge dewatering
Combining technological expertise to meet your needs

**AQUAFLOW**

- More than 200 tailor-made effluent treatment and sludge dewatering plants
- 50 years of experience in the Pulp & Paper industry

**Primary Treatment**
- AF-Sed Clarifier, AF-Float Dissolved Air Flotation (DAF)

**Secondary Treatment**
- Minimum Biosludge Production (MBP)
- 50% lower sludge yield
- Excellent settleability
- Decreased consumption of nutrients and chemicals

**Tertiary Treatment**
- AF-Float Dissolved Air Flotation (DAF)
- Specially developed coagulation and flocculations mixers

**Sludge Dewatering**
- A large range of solutions to treat different sludge qualities and mixtures with biosludge content: AF-Table Gravity Table, AF-Press Screw Press, AF-Belt Belt Filter Press

**Actiflo®**

The ultimate clarifier

- A compact, high-rate water and wastewater clarification process using micro-sand to enhance flocculation and settling
- An ideal solution to treat raw water or recycle process water to provide boiler feed, process water or cooling tower make-up
AnoxKaldnes™ MBBR, Moving Bed Biofilm Reactor
- 500 references worldwide in 50 countries
- More than 70 plants for the Pulp & Paper industry since 1993
- Perfect to refurbish existing plants

Biodegradable Treatment
- 500 references in 30 countries
- Over 50 wastewater treatment plants in the Pulp & Paper industry since 1974
- Recycled Paper CTMP, BCTMP, APMP, Kraft Pulp Condensate

Biobed® EGSB, Expended Granular Sludge Bed
- Ultra high rate anaerobic reactor

Addressing your challenges
- Meet environmental regulations
- Reliability
- Constant water quality
- Minimizing operating cost
- Ability to treat water from virgin wood fiber, recycled fiber to non-wooden fiber
700 evaporation and crystallization installations in more than 30 countries
Over 85 years of experience
More than 80 systems in 20 countries in the Pulp & Paper industry

Black liquor evaporation and high solids concentration
Up to 80% TS for Kraft, Soda Cook, NSSC or Sulphite Pulp, and Non-Wood Pulp.

CRP™, Chloride Removal Process
- High separation efficiency: 99% of chloride and potassium removal, 70-90% of sodium recovery
- Reducing chemical make up costs
- Creating steam savings from reduced soot blows

Integrated system
- Condensate segregation: foul condensate stripping
- NCC collection & incineration: blow heat recovery

Global capabilities

World class support
- Research & development
- Process design & validation
- Detailed engineering
- Full project management
- Testing & commissioning

Associated services
- Preventive & corrective maintenance
- Technical support
- Hydrex™ water treatment additives
- Mobile units: Aquamove™
- Pilot plants & lab testing
- Spare parts & consumables

Water & Carbon Footprint Optimization
- Energy & chemicals consumption savings
- Reduce operating costs over the lifetime of the installation
- Compliance with current and anticipated regulations
With more than 70 years’ experience in the water industry and having a dedicated pool of design, construction and operations experts, Veolia Water Solutions & Technologies develops water and wastewater treatment solutions worldwide.

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