

# PULP & PAPER INDUSTRY

Needs &  
Opportunities



# MILL NEEDS

## HOW COULD ALMAR HELP WITH YOUR MILL NEEDS?

- Assess individual effluent streams which are discharged on the wastewater treatment plant.
- Assess water requirements throughout the pulp and paper production: from the woodyard to the paper machine.
- Water footprint calculation, reduction, and full support to ISO 14046 certification.
- Find opportunities of wastewater treatment in situ, avoiding the bottlenecking of the wastewater treatment plant.
- Solutions for industrial and demineralized water production, wastewater reuse and treatment (either in situ or in an exclusive treatment plant).
- Sludge management and treatment.
- Green Hydrogen as a fuel for boilers and lime kilns.

## ADDING VALUE TO WATER AND ENERGY MANAGEMENT

- Fibre recovery from the brown stock washing, reaching up to 96-98% of black liquor recovery efficiency.
- Leaching and evaporation/crystallization of recovery boiler ash.
- Condensate polishing (primary condensates) or stripping (secondary condensates).
- Wastewater evaporation and distilled water recycling.
- White water recycling.
- Black liquor evaporation.

# EXPLORING OPPORTUNITIES IN PULP / INTEGRATED / PAPER MILLS



Closed-loop bleaching in Sulphite Pulp Mill.



Recovery of coating colours / recycling of pigments.

## ALMAR WATER SOLUTIONS CAPABILITIES

- Assessing needs and opportunities in pulp, integrated and paper mills.
- Providing relevant inputs to Kraft, Sulphite, Mechanical and Chemimechanical Pulping mills.
- Process guarantees.
- Contract warranties.
- Permits and planning.
- Fully developing and financing all solutions: Zero CAPEX for the end user.



# ALMAR WATER SOLUTIONS

Almar Water Solutions surpasses traditional turn-key solutions by integrating engineering, procurement, project management, and extensive experience in operations and maintenance (O&M), coupled with proficiency in developing financed solutions.

Almar goes beyond a mere evaluation of individual water and energy opportunities and bottlenecks for each facility. We extend our involvement to the financing and operation of water and green hydrogen plants.

In essence, we tackle the high CAPEX challenges associated with water projects, empowering companies to concentrate on their core business, unburdened by financial complexities.



Maria de Molina, n° 39 - 6th Floor – 28006 Madrid



+34 910 312 367



[karina.soares@almarwater.com](mailto:karina.soares@almarwater.com)