



# FOOD & DAIRY INDUSTRY

Needs &  
Opportunities



# MILL NEEDS

## HOW COULD ALMAR HELP WITH YOUR MILL NEEDS?

- Assess individual effluent streams for reuse or treatment in situ, avoiding the wastewater treatment plant bottleneck.
- Assess water requirements and effluent production for specific CIP protocols and GMP practices.
- Water footprint calculation, reduction and full support of ISO 14046 certification.
- Solutions for process water and boiler feed water.
- Sludge management and processing.
- Green Hydrogen as a fuel for boilers, ovens, cooling and refrigeration systems.

## ADDING VALUE TO WATER AND ENERGY MANAGEMENT

- Wastewater nutrient removal and phosphorus recovery as struvite.
- Thoroughly disinfected water for CIP operations.
- Chloride and sulphate removal for dairy wastewater.
- Chloride and salinity reduction of fish processing wastewater.
- Closing the loop in cooling water systems.
- Drinking water standard for showers, ovens and water baths.
- Purification of by-products: milk and whey permeates.

# EXPLORING OPPORTUNITIES IN DAIRY AND FOOD FACILITIES



Waste to energy solutions: utilizing high COD wastewater for biogas production and OPEX reduction.



Process wastewater evaporation and distilled water recycling.




Processing of sea-food side streams: fish oil production.

## ALMAR WATER SOLUTIONS CAPABILITIES

- Process guarantees.
- Contract warranties.
- Permits and planning.
- Fully developed and financed 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.



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