

DOWNSTREAM OIL INDUSTRY

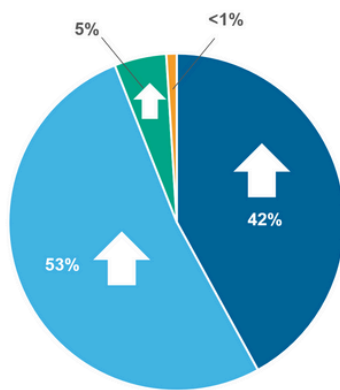


Water for Refineries
and Petrochemicals

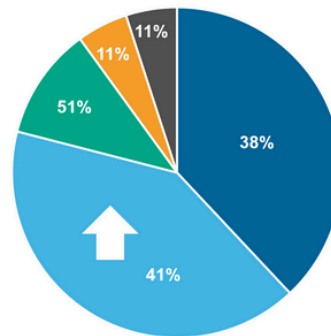


WATER FACTS IN REFINERIES AND PETROCHEMICALS

- Most of water requirements in petroleum refineries are for cooling.
- Non-cracking refineries: 375 gallons of water per barrel of crude oil.
- Cracking refineries: 471 gallons of water per barrel of crude oil.
- Unfortunately, less than 1% of the make-up water is obtained from reused municipal wastewater.



■ Steam ■ Cooling Water
■ Utility Water ■ Potable Water

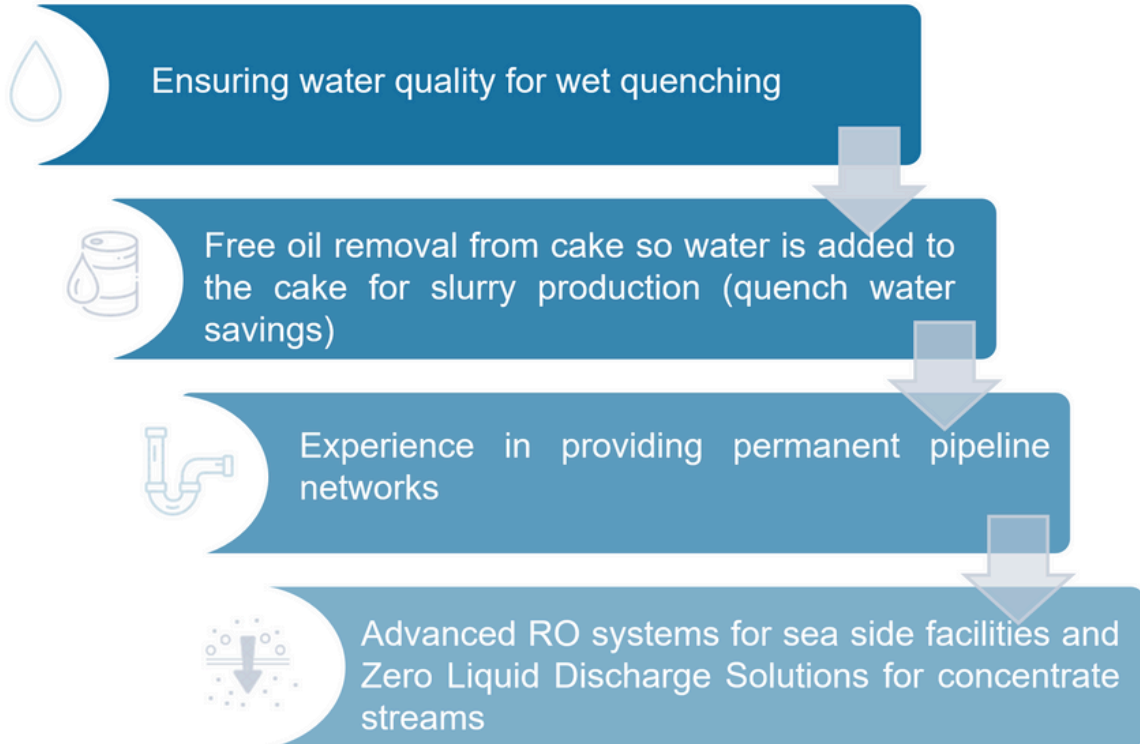


■ Evaporated equates to energy lost ■ Discharged
■ Vented as Steam ■ Contained in Sludges
■ Consumed

WATER AND ENERGY SOLUTIONS FROM ALMAR

- Assess individual water needs and design zero liquid discharge solutions.
- Achieve full compliance with Corporate Social Responsibility commitments.
- Mobile units to upgrade aging water treatment assets.
- Water footprint calculation, reduction, and full support to ISO 14046 certification.
- Boiler feedwater, cooling tower make-up water and wash water supplying systems.

GOING FURTHER



ALMAR WATER SOLUTIONS CAPABILITIES

- Process guarantees.
- Contract warranties.
- Permits and planning.
- Fully developed and financed solutions: ending high CAPEX issues.
- Operation and maintenance of water plants: solving staff scarcity so end users can focus on their core business.

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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