

Advanced Cooling Water Automation & Control

3D TRASAR™ TECHNOLOGY
FOR COOLING WATER:
PREMIUM PROGRAM

Cooling systems are vital equipment in many facilities. Keeping them running effectively is critical to:

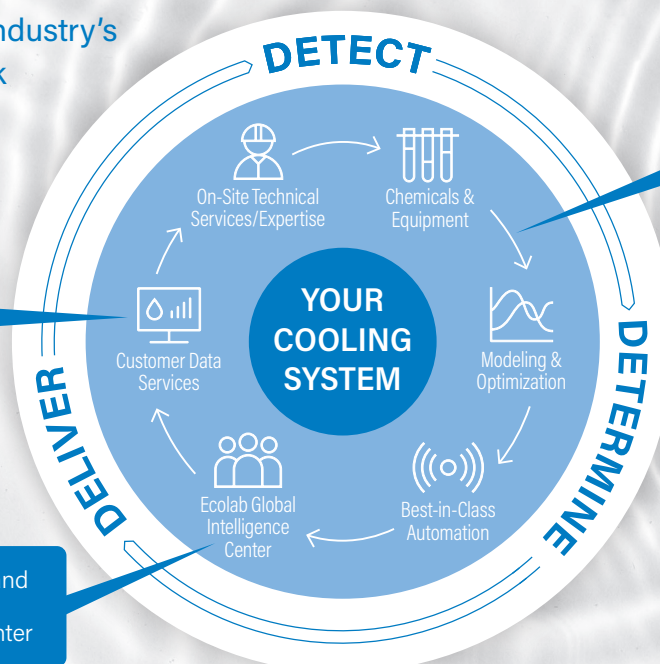
- Achieving operational or production goals
- Minimizing operating costs
- Extending asset life
- Improving sustainability

Scale, corrosion, fouling and microbiological growth are four common threats to cooling water systems. Round-the-clock access to performance data from all your sites — near and far — is essential to detecting out-of-spec conditions and resolving them quickly.

Nalco Water expertise and the industry's most advanced technology work together to support your key business drivers

Multi-parameter performance insights, powered by ECOLAB3D, to benchmark and track system performance

24/7/365 remote monitoring and alert notifications provided by Ecolab Global Intelligence Center



The 3D TRASAR Cooling Water Premium Program continuously monitors:

- Conductivity
- pH
- Turbidity
- Flow rates
- Corrosion
- Scaling potential

The 3D TRASAR™ for Cooling Water Premium Program continuously monitors, analyzes and normalizes your system for optimal performance

System Assurance: Our team of highly trained experts provides 24/7/365 oversight to help detect scale, microbiological activity and corrosion risks before they become issues.

Operational Efficiency: The 3D TRASAR program helps your system perform at optimal levels to save you money, optimize production, reduce waste and allow more efficient use of manpower.

Water/Energy Savings: Water usage and wastewater volumes can be reduced by increasing cycles of concentration. By controlling scale and microbiological deposit risks that hinder heat transfer, we also help reduce your energy demand.

Asset Management: You'll feel confident your system is running reliably, problems are prevented and operations adhere to defined specifications to protect asset health.



eROI Case Studies*



WATER

A beverage manufacturer realized annual savings of 24 million gallons of water and \$76,000 over a two-year period, by adopting a 3D TRASAR for Cooling Water Premium Program to manage chemistry feed and blowdown control.



ENERGY

A lodging company saved 1.7 million gallons of water and 182,000 kW of electricity per year, advancing progress toward their ambitious corporate sustainability goals. Total value delivered: \$93,000 per year.



PRODUCT
QUALITY

When a tire manufacturer struggled with elevated corrosion and scale risk due to high aluminum levels in their municipal water, our 3D TRASAR for Cooling Water Premium Program helped them reduce production losses valued at \$300,000 per year.



PRODUCTIVITY

When a power plant faced highly variable water quality, our 3D TRASAR for Cooling Water Premium Program helped them reduce planned system outages and gas consumption, increase production days and boost capacity to meet peak demand. Total value delivered: €1.23 million.

REAL-TIME

Insight



SWIFT, TARGETED

Action



BETTER

Outcomes

**Source: Nalco Water field trials 2021-2022. Because of factors outside of Ecolab's control, such as water conditions, operational procedures and any other factors, results to be obtained including but not limited to water and cost savings cannot be predicted or guaranteed by Ecolab.*

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