

**NEXT-
LEVEL
WATER**
PERFORMANCE

NALCO Water
An Ecolab Company

Premium Cooling Water Program

Proactive Deposit Detection





3D TRASAR™ Technology for
Cooling Water Premium Plus

First-of-its-kind and fully integrated advanced sensing technology provides early indication of scaling and biofilm deposits.

Cooling water systems are under constant stress from corrosion, scale, fouling and biofilm. Powered by ECOLAB3D™, means you have round-the-clock access to predictive, accurate performance data from all of your sites so you can detect problems before they start.



Achieve your goals for profitability, productivity and sustainability

-  Reduce production issues
-  Reduce downtime
-  Minimize operating costs
-  Extend asset life

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

OPERATIONAL EFFICIENCY

Our program helps your system save money, optimize production, reduce waste and use labor more efficiently.



SYSTEM ASSURANCE

Our team of highly trained experts provides 24/7/365 oversight to help detect risks before they become issues.



WATER/ENERGY SAVINGS

By controlling scale and microbiological deposit risks that hinder heat transfer, energy demand is reduced.



ASSET MANAGEMENT

Help protect asset health and operate more reliably by implementing corrective actions to help mitigate potential problems.



Deposits can impede heat transfer by as much as **99%***

Proactive Deposit Detection

Our newest 3D TRASAR™ system adds real-time deposit sensing to its existing array of sensors, providing even more insights into your cooling water system. The new patented deposit sensor technology:




- ▶ Features an array of eight resistance temperature devices
- ▶ Operates at four different temperatures simultaneously
- ▶ Accurately differentiates between inorganic scales and biofilm

CASE STUDY

SITUATION: A power plant switched its makeup water source to more challenging well water.

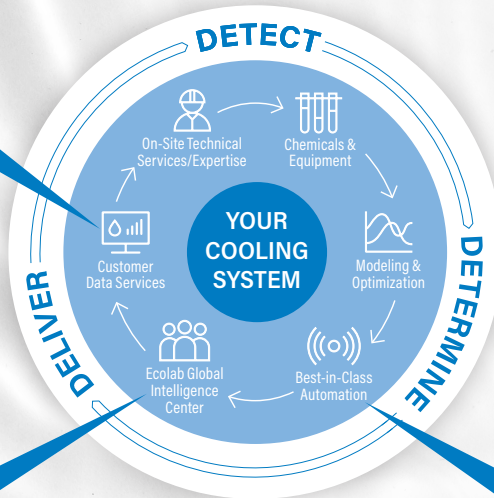
SOLUTION: Proactive Deposit Detection 3D TRASAR™ Technology for Cooling Water Premium Plus

RESULTS:

-  **Helped improve productivity**
-  **Total value delivered of \$3.3M USD**
-  **Reduced cleaning costs**

*Estimate based on thermal conductivity of metal vs. mineral scale like calcium carbonate.

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

Use water more intelligently throughout your operations

By delivering insights that help you continuously monitor, analyze and optimize your system, 3D TRASAR™ Technology for Cooling Water Premium Plus helps you achieve next-level water performance.

Continuous monitoring of:

- Deposit index
- Conductivity
- pH
- Turbidity
- Flow rates
- Scaling potential, etc.

NEXT-LEVEL WATER PERFORMANCE

Next-Level Water Technologies. Next-Level Water Performance.

The Premium Cooling Water Program from Nalco Water helps optimize your water performance and your assets with next-level analytics, technology and chemistry.

ecolab.com/nalco-water

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