

**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.

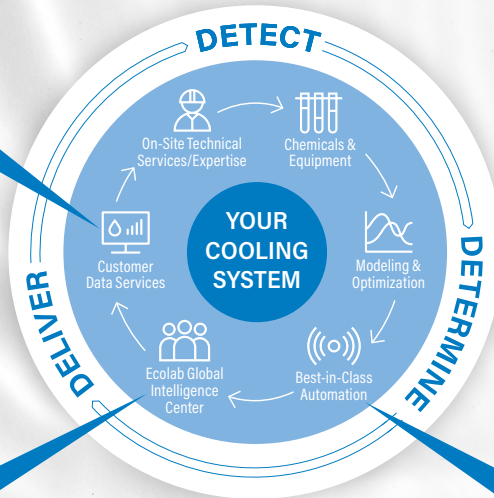
**SOLUTION:** Proactive Deposit Detection 3D TRASAR™ Technology for Cooling Water Premium Plus

### 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.

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#### Nalco Water, an Ecolab Company

North America: 1601 West Diehl Road • Naperville, Illinois 60563 • USA  
 Europe: Richtstrasse 7 • Wallisellen, 8304 • Switzerland  
 Asia Pacific: Nexus @ one-north, 1 Fusionopolis Link, North Tower #02-02 • Singapore 138542  
 Greater China: 18G • Lane 168 • Da Du He Road • Shanghai • 200062 • China  
 Latin America: Av. Francisco Matarazzo, 1350 - 11º andar • São Paulo • CEP: 05001-100 • Brazil  
 Middle East and Africa: Street 1010, Near Container Terminal 3, Jebel Ali Free Zone • PO BOX 262015 • Dubai • UAE

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