# **YOUR PARTNER FOR SUSTAINABLE GROWTH**

in Hotels, Commercial Buildings, Hospital and Institutions

SAR

ERMINE DELIVER

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# YOUR GOALS ARE OUR GOALS

In today's **business** environment, Hotels, Hospitals, Data Centres, Offices spaces and other Commercial **Buildings** and institutions are constantly striving to meet their sustainability goals by reducing total cost of operation, water and energy consumption, improving operation efficiency, minimize health and safety concerns while improving environmental performance.

Fresh indoor air quality, comfortable room temperatures, and safe water are critical factors in building positive brand image and driving guests and occupant's satisfaction, loyalty and safety.

Nalco's proven innovative solutions in water, process and air treatment can help you achieve these goals. Nalco has partnered with Institutional properties worldwide to develop reliable, cost effective and safe solutions through transformational practices in the mechanical, chemical and operational areas to help the industry achieve economic, environmental and social objectives.



### Water Saving

- Increase cycles of boiler and cooling water
- Water recycle and reuse
- Improve efficiency of water purification / softeners

### **Energy Saving**

- Increase boiler efficiency
- Increase and maintain chiller efficiency
- Improve and maintain HVAC system efficiency
- Increase condensate return recovery
- Boiler blowdown heat recovery

#### **Enhance Reliability**

- Maintain design COP (Coefficient of Performance) rating
- Avoid unscheduled system shutdown
- Reduce maintenance cost
- Extend the equipment life

### **Green Building &**

### **Environment Commitment**

- Support LEED / Green Building certification
- Decrease pathogen related risks
   and
- liabilities
- Decrease grey water discharge
- Reduce carbon footprint
  Comply with regulatory guidelines

### Improve safety

- Legionella analysis, auditing and technical support
- Technical and operator training
- Safe chemical storage and handling solutions



## COMPLETE SOLUTION TO YOUR SUSTAINABILITY GOALS



Water system solutions that help reduce energy & water costs, and extend asset life

World-class

service and

consultation

when and where you need it most



Actionable data and remote monitoring to drive process improvements and system reliability

### *Legionella* risk reduction expertise

to maximize patient & employee safety, and support regulatory compliance



Hart Stations

### Cooling systems Solutions

• Scale, corrosion and micro-bio control

programs, including low or no phosphate chemistries

• TRAC program for chilled water loops

- 3D TRASAR Cooling Water Technology
- Nalco 360<sup>™</sup> Service

#### **Benefits**

- Reduced water consumption
- Increased chiller energy
- efficiency
- Increased condenser and
- cooling tower life
- Control waterborne pathogen activities
- Reduced maintenance cost



# Boiler water and hot water loops

#### Solutions

NexGuard<sup>®</sup> boiler program
TRAC program for hot water

loop ● 3D TRASAR™ Boiler

Technology

### Benefits

- Improve boiler efficiency
- Improve control over boiler blowdown in

terms of quantity and quality • Increase boiler life

- Improve steam and hot water quality
- Reduce water, fuel and emission



### Domestic Water System

### Solutions

Legionella Water
Management program
ChloroSafe Secondary
Disinfection

### Benefits

- Improved water safety
- Improved guest, patient & employees' safety
- FDA approved for potable applications
- Safe handling solid chemistry
- Comply with applicable
- guidelines and regulations



## Water Recycle & Reuse

#### Solutions

- Water treatment process solutions and
- equipment design
- Water treatment plant
- financing
- Total project management from concept
- to commission
- Testing and benchmarking plant performances
- Water treatment plant operation and maintenance

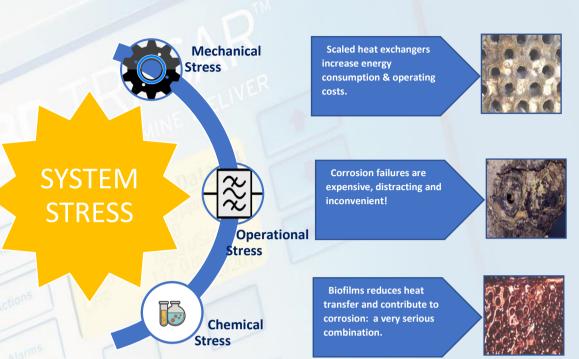
### Benefits

- Reduce total cost of operations due to
- improved water management
- Reduce dependence on fresh water
- Improve discharge quality and consistency

### **3D TRASAR<sup>™</sup> Cooling Water & Closed Loop Solutions**

# Optimizing System Efficiency Through Advanced Cooling Tower Program for HVAC System

Most HVAC systems operate 20-50% below design capacity due to scaled open water loops, dirty cooling towers, fouled coils and poor filter management. The Nalco HVAC cooling water programs include technologies innovative and services to maintain your HVAC system to peak performance. The process includes an audit of all critical performance points (CPP), best in class chemistries, and monitoring advanced systems. Nalco has the expertise to help you meet your operational sustainability goals.



# **3D TRASAR™** Detect Determine Deliver

### DETECTS

potential risks & changes

### DETERMINES

corrective action

### DELIVERS

measurable results



### What it is

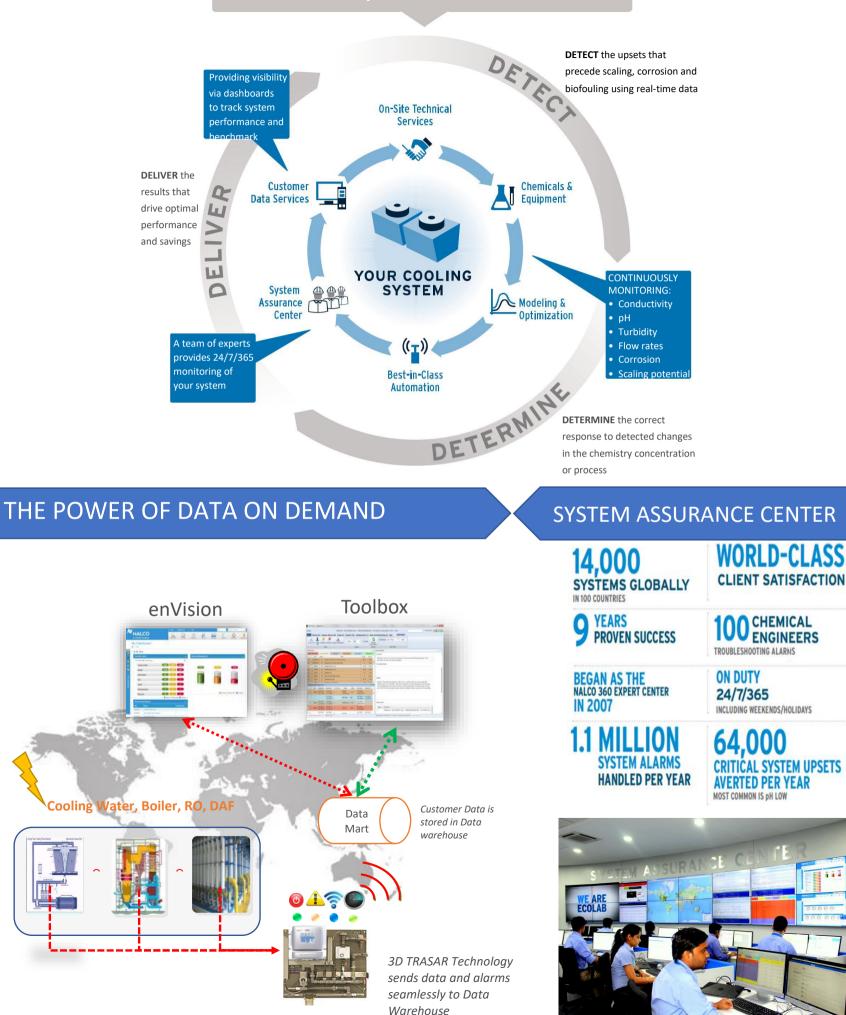
- ✓ Direct monitoring and control
- Data management and value communication
- ✓ 24/7 monitoring support
- Automated Inventory Management

### What it does

- Enhancing plant safety, minimizing risks
- Saving water and energy costs
- Increasing production reliability
- ✓ Lowering operating Costs
- ✓ Extending asset life
- Reducing maintenance
   Minimizing wastewater generation
- ✓ Increasing labor efficiency
- ✓ Providing peace of mind

### WE COMBINE NALCO EXPERTISE WITH THE INDUSTRY'S MOSTDVANCED TECHNOLOGY TO ADDRESS YOUR KEY BUSINESS DRIVERS.

Mechanical, Operation, Chemical Audit



# MEASURABLE **e**<sup>ROI</sup> - **PROVEN ERFORMANCE**



### Creating and maintaining value (CMV)

We understand and address the unique needs of the Institutional Industries.

Through the CMV process, our local sales and service team work with you onsite to deliver maximum performance from your existing applications. We design, develop and implement solutions specifically tailored to your operations and key business drivers.

#### NALCO Water, an Ecolab Company

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