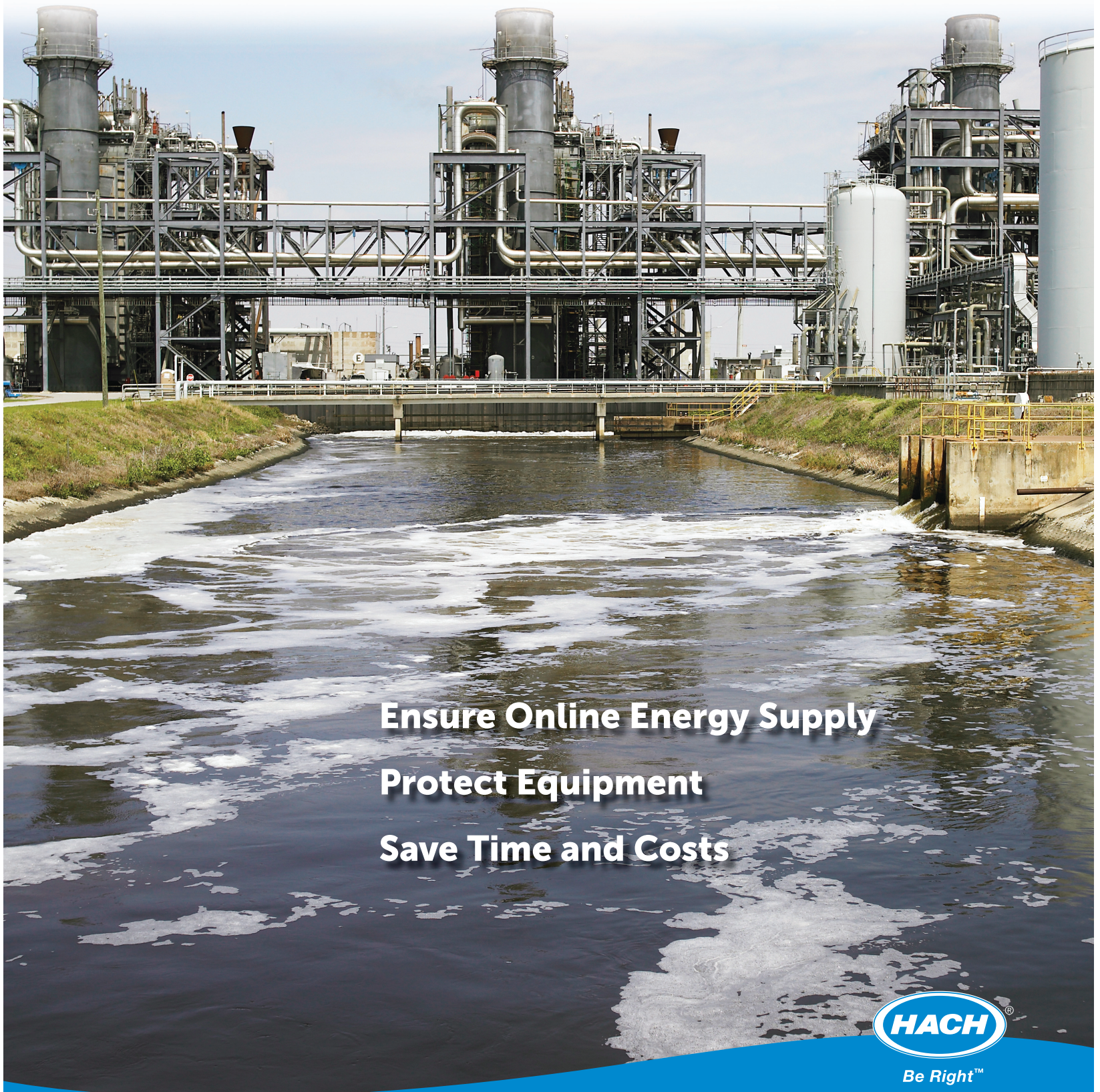


# Complete Water Analysis Solutions for **POWER GENERATION**



**Ensure Online Energy Supply**  
**Protect Equipment**  
**Save Time and Costs**





# The Water Analysis Experts for Power Generation

With more than 60 years as the leading expert in water quality analysis, you can trust Hach's knowledgeable and responsive support team to address your unique needs for water and steam applications throughout your entire process.

Hach provides laboratory, online, portable, and service solutions for routine and challenging Power Plant applications. Hach has the most comprehensive coverage of ultrapure, pure, and non-pure water parameters and the breadth of product solutions to support Fossil Power Plants and Nuclear Power Plants.

influent water treatment

demineralisation

boiler feed water

## Featured Water Analysis Solutions

### Silica / Phosphate

#### Hach 5500 sc Silica or Phosphate Analyser

90 days of continuous runtime, the industry's only pressurised reagent delivery system, and proprietary PROGNOSYS diagnostic technology to avoid downtime.



### Sodium

#### POLYMETRON 9240 Multi-Channel or 9245 Single-Channel Analyser

Automatic electrode reactivation for optimum response time, a fully automated calibration system, and broad detection limit allows for adaption to a variety of Power applications.

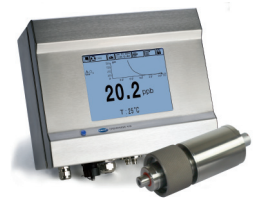


### Dissolved Gases

#### ORBISPHERE K1100 Optical O<sub>2</sub> Sensor

High accuracy in low ppb range, only two minutes of maintenance a year, with no membranes, and the Orbisphere K1200 is available for irradiated water applications.

Orbisphere thermal conductivity hydrogen sensors are available to monitor in hydrogen water chemistry applications as well as in waste and off gas providing real-time data while reducing overall dose.



#### ORBISPHERE 3100 Portable Optical O<sub>2</sub> Analyser

Accurate results in seconds, only one calibration a year, and the most rugged portable O<sub>2</sub> analyser in the Power industry.



### pH / ORP

#### 8362 pH or ORP Sensor for High Purity Water

Self-pressurising electrode that introduces a constant flow of electrolyte to the sample stream and accurate temperature sensitivity critical for high purity applications.



## SERVICE SOLUTIONS

Hach Service can help with your maintenance and support challenges whether it is a lack of resources, an instrument that is down, bringing your plant back online, or the need for a predictable budget. We offer a range of service offerings, including the option to extend product warranty for up to 5 years!

## COMPREHENSIVE WATER ANALYSIS SOLUTIONS

Whatever your water analysis challenge, Hach has the most complete solution – including an offering of easy-to-maintain online instrumentation, accurate laboratory equipment, comprehensive test kits, and high-quality prepared reagents, measuring the broadest range of test parameters in the industry.

Hach's solution-based approach saves you time on design, installation, training, maintenance, and operation.

steam & condensate

cooling water

wastewater treatment

### Photometry

#### DR 3900 VIS and DR 6000 UV-VIS Photometers

RFID technology to trace your sample, pre-programmed Power specific methods, support from sampling to sample preparation, sample analysis, and documentation.



### Total Organic Carbon (TOC)

#### QbD1200 Laboratory TOC Analyser

Annual 90 minute calibration, low total cost of ownership, and 95% less carryover



#### BioTector B3500C TOC Analyser

Patented Two Stage Advanced Oxidation Technology and requires maintenance only twice a year



#### FP 360sc Oil in Water Sensor

Continuous online monitoring solution, low maintenance, and easy-to-clean sensor



### Conductivity

#### 9523 Cationic Conductivity Analyser

Calculates accurate pH measurements even in the presence of contaminants that commonly interfere with traditional pH probes.



#### Contacting Conductivity Sensors

Broad range of product options to meet your unique needs, robust construction with 316 stainless steel, and integrated temperature sensor.



### Meters & Probes

#### HQd Meters & IntelliCAL Probes

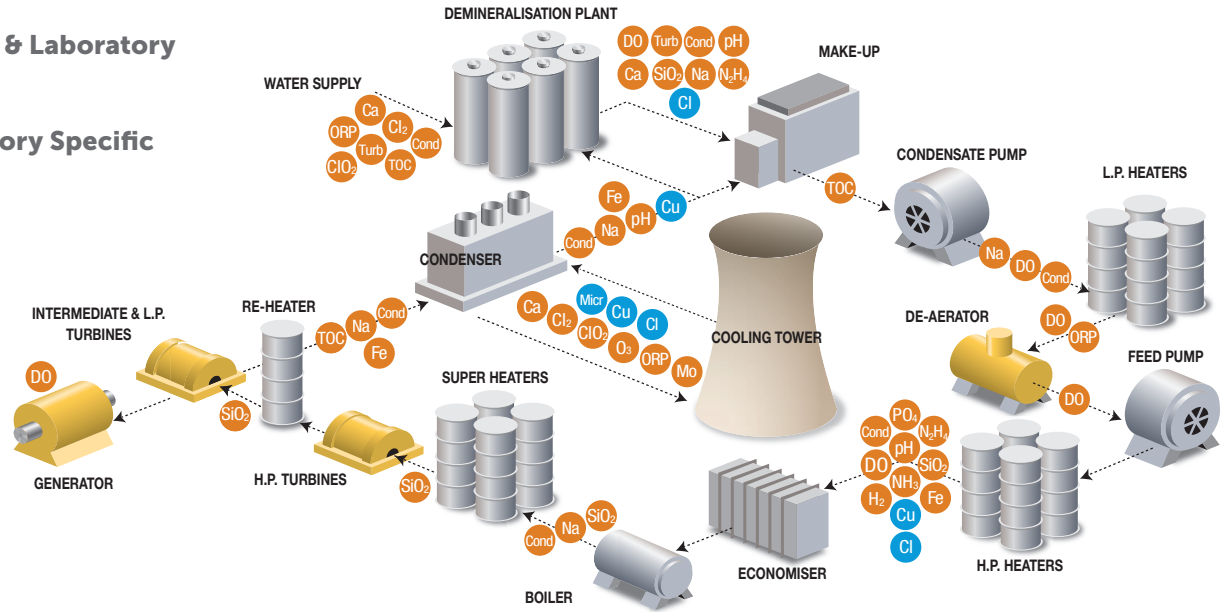
Range of probes for routine and challenging Power applications, available in many local languages, and intuitive user interface.



# Hach Solutions by Parameter

**Process & Laboratory**

**Laboratory Specific**



## Water Treatment

- Cl** Chloride
- Cl<sub>2</sub>** Chlorine
- ClO<sub>2</sub>** Chlorine Dioxide
- Cond** Conductivity/Total Dissolved Solids (TDS)
- DO** Dissolved Oxygen
- Ca** Hardness/Alkalinity
- N<sub>2</sub>H<sub>4</sub>** Hydrazine/Oxygen Scavenger
- ORP** Oxidation-Reduction Potential
- O<sub>3</sub>** Ozone
- pH** pH
- SiO<sub>2</sub>** Silica
- Na** Sodium
- TOC** Total Organic Carbon (TOC)
- Turb** Turbidity and Suspended Solids

## Steam Cycle

- NH<sub>3</sub>** Ammonia
- Cl** Chloride
- Cond** Conductivity/Total Dissolved Solids (TDS)
- Cu** Copper
- DO** Dissolved Oxygen
- N<sub>2</sub>H<sub>4</sub>** Hydrazine/Oxygen Scavenger
- Fe** Iron
- H<sub>2</sub>** Hydrogen
- ORP** Oxidation-Reduction Potential
- pH** pH
- PO<sub>4</sub>** Phosphate
- SiO<sub>2</sub>** Silica
- Na** Sodium
- TOC** Total Organic Carbon (TOC)

## Cooling Water

- Cl** Chloride
- Cl<sub>2</sub>** Chlorine/Oxidants
- ClO<sub>2</sub>** Chlorine Dioxide
- Cond** Conductivity/Total Dissolved Solids (TDS)
- Cu** Copper
- Ca** Hardness/Alkalinity
- Micr** Microbiology
- Mo** Molybdate and Other Corrosion Inhibitors
- ORP** Oxidation-Reduction Potential
- O<sub>3</sub>** Ozone
- pH** pH
- Na** Sodium

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