

# B&W Products and Services

Babcock & Wilcox (B&W) is a leader in advanced steam generating and environmental technologies and services for utility and industrial customers. As a worldwide provider of engineered solutions, our customers rely on us to provide a comprehensive portfolio of products and services in a wide range of applications.

## Boilers and Steam Generating Equipment

- Supercritical and ultra-supercritical boilers
- Subcritical (drum) boilers
- Biomass boilers
- Fluidized-bed boilers (circulating and bubbling)
- Process recovery boilers
- Shop- or field-assembled water-tube package and industrial boilers
- Waste-to-energy boilers (mass burn and refuse-derived fuel)
- Heat recovery steam generators

## Environmental Equipment

- Flue gas desulfurization (wet, dry, circulating, seawater)
- Dry sorbent injection
- Powdered activated carbon injection
- Performance enhancing fuel additives
- Electrostatic precipitators (wet, dry)
- Fabric filters (baghouses)
- Selective catalytic and non-catalytic NO<sub>x</sub> reduction systems
- ZLD spray dryers for wet FGD wastewater
- Replacement parts and upgrades

## Auxiliary Boiler Equipment

- Burners (coal, natural gas, oil, black liquor) and igniters
- Overfire air systems
- Pulverizers
- Air heaters – tubular and regenerative

## Boiler Cleaning

- Steam/air sootblowers
- Water cleaning
- Dual media cleaners
- Recovery boiler port rodders, liquor gun stations and cleaners
- Cameras and diagnostics
- Replacement parts and upgrades

## Cooling Systems

- Natural and mechanical draft wet cooling towers
- Plume-abated cooling towers
- Air-cooled condensers and air fin coolers
- Parallel condensing wet-dry systems (water saver type)
- Equipment replacement parts, repairs and upgrades (including online cooling tower rebuilds)
- Online monitoring

## Ash and Material Handling

- Under boiler bottom ash systems
- Remote dewatering systems
- Vacuum, pressure, combination and dense-phase fly ash conveying systems
- Mechanical conveyors
- Replacement parts and upgrades

### Applications

- Power plants
- Pulp and paper mills
- Petrochemical and oil and gas refineries
- Iron and steel mills
- Metals and mining
- Cement plants
- Waste-to-energy
- Food processing
- District heating and cooling
- General industry and manufacturing



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## Retrofits, Rebuilds, Upgrades and Replacement Parts

B&W's replacement parts and upgrade services are available for original equipment supplied by most equipment manufacturers.

Air system rebuilds

Ash handling system replacement parts and upgrades

Assured Stock Program® inventory management

Balanced draft conversions

Circulation upgrades

Coal pipes and valves – steel and/or ceramic lined

Cyclone furnace replacement

Environmental equipment replacement parts and upgrades

Expansion joints, flues and ducts

FPS® lighters, scanners and control systems

Fuel conversions and repowering

Furnace pressure increases

Pulverizer/mill component rebuilds, upgrades and replacement parts (OEM and competing units)

Sootblower replacement parts and upgrades

## Pressure Parts

Boiler furnace walls and openings

Boiler tubing

Composite/weld overlay panels

Economizers

Superheaters and reheaters

Steam drums, headers and attemperators

## Plant Optimization Systems and Controls

Advanced diagnostic systems

Cameras, sensors, temperature monitoring and gauges

Combustion tuning and optimization

Control systems

EvenFlow™ coal flow balancing system

Flame Doctor® combustion diagnostic system

Heat Transfer Manager® software

Titanium® sootblowing controls and intelligent cleaning systems

Vistacon™ industrial boiler controls

## Construction

Deliver and erected (D&E) project execution

General mechanical contractor

Construction and engineering technology

Plant maintenance programs

Refinery turnaround services

## Engineering and Other Services

Capacity assessment, upgrade and uprate studies

Circulation and cycling analyses

Combustion flow modeling

Commissioning and start-up services

Condition assessment and unit performance studies

Laboratory corrosion and failure analysis

Engineering studies

Field engineering

Operation and maintenance

Technical training



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ENERGY | ENVIRONMENTAL

Established in 1867, Babcock & Wilcox is a global leader in advanced energy and environmental technologies and services for the power, industrial and renewable markets.

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