

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
- Heros™ shop- or field-assembled water-tube and industrial boilers
- Waste-to-energy boilers (mass burn and RDF)
- Heat recovery steam generators

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

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 reduction
- Low NO_x burners and overfire air systems
- ZLD spray dryers for wet FGD wastewater
- Equipment replacement parts and upgrades

Auxiliary Boiler Equipment

- Ash and material handling systems
- Burners (all fuels)
- Pulverizers
- Boiler cleaning (air, steam and water sootblowers)
- Air heaters – tubular and regenerative

Construction

- Deliver and erected (D&E) project execution
- General mechanical contractor
- Construction and engineering technology
- Plant maintenance programs
- Refinery turnaround services

Applications

- Power plants
- Pulp and paper mills
- Petrochemical and 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

Assured Stock Program® inventory management

Balanced draft conversions

Boiler, ash handling and sootblower replacement parts and upgrades

Coal pipes and valves – steel and/or ceramic lined

Cooling system replacement parts and upgrades

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)

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

Engineering and Other Services

Capacity assessment, upgrade and uprate studies

Circulation and cycling analyses

Combustion computational flow modeling

Commissioning and start-up services

Condition assessment and unit performance studies

Laboratory corrosion analysis

Laboratory 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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