

B&W Products and Services

Babcock & Wilcox (B&W) • Allen-Sherman-Hoff (A-S-H) • Diamond Power • FPS • Vølund

Established in 1867, Babcock & Wilcox (B&W) is a global leader in renewable, environmental and thermal technologies, services and engineered solutions for a wide range of power and industrial applications.

Decarbonization Technologies

BrightLoop™ chemical looping
low-carbon hydrogen production

SolveBright™ post-combustion
carbon capture

OxyBright™ oxy-combustion

BrightGen™ hydrogen
combustion

Industrial, utility and community
solar

Energy storage systems

Applications

Power plants
Cogeneration
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

Boilers, Steam Generators

Supercritical, ultra-supercritical
and subcritical boilers

Waste-to-energy boilers

Biomass boilers

Fluidized-bed boilers (circulating
and bubbling)

Process recovery boilers

Shop- or field-assembled water-
tube package and industrial
boilers

Heat recovery steam generators

Waste heat and sulfuric acid
steaming equipment, packaged
economizers

Environmental Equipment

Flue gas desulfurization (wet, dry,
circulating, seawater)

Dry sorbent injection

Powdered activated carbon
injection

Electrostatic precipitators
(wet, dry)

Fabric filters (baghouses)

Selective catalytic and non-
catalytic NO_x reduction systems

Zero liquid discharge spray dryers

Auxiliary Boiler Equipment

Burners – low-NO_x coal, natural
gas, oil, black liquor

FPS® ignitors, scanners, valves,
controls and level measurement
equipment

Overfire air systems

Pulverizers

Combustion grates

Air heaters – tubular and
regenerative

Boiler Cleaning

Diamond Power® sootblowers

Water cleaning

Dual media cleaners

Recovery boiler port rodders,
liquor gun stations and cleaners

Cameras and diagnostics

Replacement parts and upgrades

Ash and Material Handling

Allen-Sherman-Hoff® bottom ash
systems

Remote dewatering systems

Vacuum, pressure, and dense-
phase fly ash conveying systems

Mechanical conveyors

Replacement parts and upgrades



continued ►

Retrofits, Rebuilds, Upgrades and Replacement Parts

B&W's replacement parts and upgrade services are available for original equipment supplied by most 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
Cyclone furnace replacement
DynaGrate® combustion grates
Environmental equipment replacement parts and upgrades
Expansion joints, flues and ducts
Fuel conversions and repowering
Furnace pressure increases
Pulverizer/mill component rebuilds, upgrades and replacement parts
Sootblower parts and upgrades



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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
Control systems
EvenFlow™ coal flow balancing system
Flame Doctor® combustion diagnostic system
FocalPoint™ combustion tuning and optimization
Heat Transfer Manager® software
Titanium® sootblowing controls and intelligent cleaning systems

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 services
Operation and maintenance
Technical training



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RENEWABLE | ENVIRONMENTAL | THERMAL

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For more information or to contact us, visit our website at www.babcock.com.