Dry Electrostatic Precipitator
Babcock & Wilcox MEGTEC’s (B&W MEGTEC) experience in industrial emissions control is among the longest and broadest in the industry. Our particulate control experience originated with one of the first commercial applications of industrial electrostatic precipitators in the United States in 1907.

But we did not stop there. We have continued to improve upon our technologies to respond to customer requirements. We were one of the early adopters of the wider plate spacing concept, in combination with reliable discharge electrode designs. Such innovations have allowed our customers to operate modern ESPs with high reliability and outstanding emissions control performance.

**Mechanical and Electrical Components**

Our collector plates and discharge electrodes are fabricated at our Folkston, Georgia, facility and meet the highest quality standards in the industry. Our ESP series collector plates are known for high performance and reliability and are engineered to resist distortions from occasional thermal upsets in upstream processes.

Our RDE series discharge electrodes feature reliable corona-producing properties that reduce the potential of stickiness or corona suppression.

Our externally maintainable, electrically adjustable collector and discharge electrode EGR rappers provide an added element for ease of maintenance – a key to achieving high availability of your ESP. Our intelligent rapper controllers provide more cleaning power so your ESP remains cleaner longer, which helps to maximum power to your ESP and minimize loss of productivity due to reduced ESP performance.
Another example of our innovation is B&W’s SQ-300®i series automatic voltage controllers (AVC) — two of the fastest reacting power supply controllers in the market today. B&W’s SQ-300i controllers, available for both single-phase and three-phase systems, are in successful commercial operation, with years of reliable service on more than 15,000 ESP power supplies. The responsive and reliable performance of the SQ-300i controller has helped our customers meet emissions requirements.

Get the most from our experience.

We have installed ESPs in more than 800 plants in a wide range of process applications. Our experience includes steam generation applications utilizing a variety of fossil and biomass fuels, municipal waste, and a variety of opportunistic wastes. Our experience also includes non-ferrous metallurgical, iron and steel, and paper mill applications.

Get the most from our innovations.

Passionate about innovation and technology leadership, our experienced team of experts develop process, electrical, mechanical and controls/software innovations. We have pioneered the utilization of ESPs for fly ash capture and reutilization prior to the implementation of downstream controls for high performance acid gas, mercury and dioxin controls.

Our dry ESPs can be combined with downstream wet acid gas scrubbers and wet ESPs for high performance filterable and particulate control, acid mist control and acid gas control. Our customers benefit from reduced capital costs when our systems are combined with dry sorbent injection for acid gas and particulate control.

Research and development efforts are ongoing to develop lower cost, higher performing ESPs for our customers. These efforts include development of modeling software, an in-house test ESP, as well as full-scale field tests and experiments. Historical developments have included wide plate spacing concepts, advanced rigid discharge electrodes, AVCs for single-phase and three-phase power supplies of differing frequencies, programmable rapper controls, continuous particulate monitors, and purge air controls, to name a few.

Experienced Project Execution

You can rely on us not only for supplying the right technology for your emissions control needs, but also to get the equipment installed and operating reliably. Our experienced project managers are experts in utilizing modern project control methodologies and tools. Our teams follow time-tested operational structures and our goal is the safe, successful and timely completion of your project.

Reliable Aftermarket Services

Our support for your project does not end with product delivery. We provide a wide range of aftermarket products and services, including start-up and commissioning, equipment tuning, performance optimization, performance testing, operator training programs and high-quality replacement parts. Field engineering services are available to optimize the operation of your equipment and to help with parts installation.