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## Corporate Profile

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Founded in 1994, Powerspan Corp. develops and commercializes proprietary, multi-pollutant control and carbon dioxide (CO<sub>2</sub>) capture technology for electric power plants.

Our technologies enable new and existing power plants to meet environmental requirements cost-effectively. Our patented Electro-Catalytic Oxidation (ECO®) multi-pollutant technology provides high removal of sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), oxidized mercury, and fine particulate matter (PM<sub>2.5</sub>) from coal-fired power plants, while our ECO-SO<sub>2</sub> scrubbing technology provides equivalent multi-emissions control, but without NO<sub>x</sub> removal. Our ECO<sub>2</sub> carbon capture technology is designed as an add-on system that can be deployed when needed.

We have commercially demonstrated our multi-pollutant control technology and have pilot tested our post-combustion carbon capture technology, both with successful results.

We continue to dedicate our resources to developing and commercializing advanced, clean energy technologies. As electric utility companies balance the need to produce affordable electricity with environmental requirements, we are uniquely positioned to provide the critical technology and expertise required to meet these challenges.

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## Technology Profile

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Powerspan offers advanced, air pollution control solutions for existing and new coal-fired power plants and large, industrial applications that rely on coal for their operation or electricity generation. Our solutions offer lower cost, higher performance, and are aimed at future requirements, not those of the past.

We provide proprietary multi-pollutant control technology, with or without nitrogen oxide (NO<sub>x</sub>) control, and carbon dioxide (CO<sub>2</sub>) capture technology with the following solutions:

- **ECO® (Electro-Catalytic Oxidation)** — Multi-pollutant control system for coal-fired power plants (NO<sub>x</sub>, SO<sub>2</sub>, oxidized mercury, and fine particulate matter)
- **ECO-SO<sub>2</sub>** — Sulfur dioxide (SO<sub>2</sub>) scrubber, including oxidized mercury and fine particulate matter control
- **ECO<sub>2</sub>®** — Post-combustion CO<sub>2</sub> capture technology (can be used in conjunction with ECO, ECO-SO<sub>2</sub>, or other SO<sub>2</sub> scrubbing system)

Key advantages of our ECO and ECO-SO<sub>2</sub> multi-pollutant control solutions are:

- Reduced cost
- Higher performance
- Reduced water usage
- Produce valuable fertilizer co-product that is sold in agricultural markets, instead of flue gas desulfurization waste requiring landfill disposal
- Potential to add our CO<sub>2</sub> capture system when needed

Key advantages of our ECO<sub>2</sub> carbon dioxide capture process are:

- Suitability for existing and new pulverized coal-fired power plants
- Can be installed following conventional SO<sub>2</sub> scrubbing such as a limestone forced-oxidation SO<sub>2</sub> scrubber
- 90% capture
- Reduced cost
- Reduced energy requirements
- Generates pipeline quality CO<sub>2</sub>
- ECO<sub>2</sub> process and equipment have been successfully demonstrated on an existing coal-fired power plant, one of the few technologies to have achieved this significant milestone