

For Immediate Release

**Powerspan Licenses CO₂ Capture Technology for Coal-Fueled Power Plants
from the U.S. Department of Energy**



(seated from left to right): Carl Bauer, Director of the National Energy Technology Laboratory (NETL), and Powerspan CEO Frank Alix finalize a licensing agreement at NETL in Pittsburgh, PA, for technology to capture CO₂ from power plants. In attendance from NETL is Henry Pennline, Research Team Leader and co-inventor.

PORTSMOUTH, NH – December 3, 2007—Powerspan Corp., a clean energy technology company, has exclusively licensed a patent to capture carbon dioxide (CO₂) emissions from conventional coal-fueled electric power plants. Patented by the U.S. Department of Energy’s National Energy Technology Laboratory (NETL), the post-combustion, regenerative process uses an ammonia-based solution to capture CO₂ from flue gas and release it in a form that is ready for safe transportation and permanent geological storage.

Under a cooperative research and development agreement (CRADA), Powerspan and NETL have been collaborating on the development of the CO₂ capture process since 2004. The patent granted to the Department of Energy represents the only patent issued in the U.S. to date covering a regenerative process for CO₂ capture with an ammonia-based solution.

“NETL is extremely pleased to be working with Powerspan in pursuing carbon capture and sequestration as an answer to the global problem of carbon management,” said NETL Director Carl Bauer. “By transferring new technologies from the laboratory to the marketplace, NETL and its partners are helping guarantee that clean, affordable, reliable energy will continue to power our nation.”

“We are honored to be working with the NETL research team in advancing this important CO₂ capture technology,” said Powerspan CEO Frank Alix. “The NETL patent, which is the first of its kind in the U.S., is a tribute to the pioneering work and ingenuity of this national lab. The exclusive license will enable Powerspan to invest the significant resources needed to successfully commercialize the technology.”

Recently, Powerspan and NRG Energy, Inc., (NYSE: NRG) announced a memorandum of understanding to demonstrate at commercial scale the CO₂ capture process at NRG's WA Parish plant near Sugar Land, Texas. The demonstration is expected to be operational in 2012 and will be conducted on flue gas equivalent in quantity to that which is released from a 125 megawatt unit (approximately one million tons of CO₂ to be captured annually).

The "ECO₂TM" process is a post-combustion CO₂ capture process for conventional power plants that is differentiated from other approaches by its simpler capital equipment design and significantly lower energy consumption. The technology is suitable for retrofit to the existing coal-fueled, electric generating fleet as well as for new coal-fueled plants. The regenerative process is readily integrated with Powerspan's patented Electro-Catalytic Oxidation, or ECO[®], process for multi-pollutant control of sulfur dioxide (SO₂), nitrogen oxides (NO_x), mercury, and fine particulate matter from power plants.

The CO₂ capture takes place after the NO_x, SO₂, mercury, and fine particulate matter are captured. Once the CO₂ is captured, the ammonia-based solution is regenerated to release the CO₂ in a form that renders it ready for geological storage. The ammonia solution is recovered and sent back through the scrubbing process. Ammonia is not consumed in the CO₂ scrubbing process, and no separate by-product is created. The process can be applied to both existing and new coal-fueled power plants and is particularly advantageous for sites where ammonia-based scrubbing of power plant emissions is employed.

Powerspan Corp., a clean energy technology company based in Portsmouth, New Hampshire, is engaged in the development and commercialization of proprietary multi-pollutant control technology for the electric power industry. Visit www.powerspan.com for more information.

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