

Combined Heat and Power Partnership

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ENERGY STAR® CHP Award and EPA CHP Certificates of Recognition Winners

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Winners of the 2005 ENERGY STAR® CHP Awards and CHP Certificates of Recognition

2005 ENERGY STAR® CHP Awards

The Arrow Linen CHP Project

Family-owned for 58 years, Arrow Linen Supply Company operates a commercial restaurant linen service in Brooklyn, NY. In September 2004, Arrow Linen installed and began operation of a natural-gas fired CHP system to support the 56,000 square foot facility. Manufactured by Coast Intelligen, and financially supported by the New York State Energy Research Development Authority (NYSERDA), the CHP system is centered on an internal combustion engine. Capable of generating up to 300 kW of electricity, the system recovers otherwise wasted heat from the



engine block, lube oil cooling circuit and engine exhaust to produce hot water. Combined with an existing preheating scheme that utilizes laundry wastewater, the hot water produced by the CHP system is used by the laundry machines and to preheat boiler feed water.

With an estimated operating efficiency of 82 percent, the CHP system requires an estimated 36 percent less fuel than typical onsite thermal generation and purchased electricity. Based on this comparison, the

system reduces CO₂ emissions by an estimated 651 tons per year.

The EPA and DOE are proud to recognize the outstanding pollution reduction and energy efficiency qualities of this project by presenting Arrow Linen Supply Company with the 2005 ENERGY STAR CHP Award.

(Shown left to right accepting the Award at the 6th Annual CHP Roadmap Workshop: Tom Kerr, EPA; Frank Park, Facility Engineer, Arrow Linen; Merrill Smith, DOE; Peter Smith, President, New York State Energy Research and Development Authority).

The 4C Foods CHP Project

Fatigued by the high price of natural gas, privately-owned 4C Foods began operation of a 380 kW CHP system to support its food processing operations, with finance support from New York State Energy Research Development Authority (NYSERDA). Manufactured by Coast Intelligen, the internal combustion engine-based CHP system satisfies approximately 80% of the facility's electricity demand. Heat recovered from the engine block, lube oil cooling circuit and engine exhaust is used to for space heating, cheese drying and space cooling.



With an estimated operating efficiency of 82 percent, the CHP system requires an estimated 38 percent less fuel than typical onsite thermal generation and purchased electricity. Based on this comparison, the system reduces CO₂ emissions by an estimated 717 tons per year.

The EPA is proud to recognize the considerable pollution reduction and energy efficiency qualities of this project by presenting 4C Foods Corporation with the 2005 CHP

Certificate of Recognition.

(Shown left to right accepting the Award at the 6th Annual CHP Roadmap Workshop: Tom Kerr, EPA; Merrill Smith, DOE; Bill Cristofaro, Energy Concepts; Peter Smith, President, New York State Energy Research and Development Authority).