

Cogen Parker Towers (A Bootstraps Energy Project)

Demonstrate efficiency of a CHP system consisting of six 200 kW natural gas-fired co-generation units, 2 per building.

BACKGROUND

Parker Towers is a multi-family residential complex consisting of three 20-story buildings that are home to approximately 3,500 residents. The complex has a peak load demand of 900 kW per tower. The project is being developed under the Bootstraps Energy Initiative consisting of a team of facility and energy professionals with extensive experience in the development and operation of facilities, installation and operation of co-generation installations and energy management practices in multi-family residential facilities.

OBJECTIVE

Demonstrate a CHP system consisting of 400 kW of electric generation per building with space and DHW heating. Remove approximately 1.2 MW of peak demand from the Con Edison grid. Disseminate project information through the Bootstraps initiative.

DESCRIPTION

Install six IPS EnginAire 200 kW natural gas-fired co-generation units, two per building. The recovered heat will be used for space and DHW heating. The co-generation system will satisfy approximately 85% of the site's thermal demand. Technology transfer will include developing internet/electronic reports, working with local/regional media, assembling an advisory board consisting of representatives from other potential users/beneficiaries of CHP, maintaining alliance with several professional affiliations through its project team members.

BENEFITS

This project will result in the peak load reduction of up to 1.2 MW, reduce annual electricity usage by 6,150,000 kWh/year, and result in over \$395,000 in net annual energy savings. Approximately 85% of the rejected heat will be utilized.

Funding	Encumb to Date	Pending	Total Anticipated
NYSERDA	\$955,390.00	\$0.00	\$955,390.00
Parman Corporation	\$977,680.00	\$0.00	\$977,680.00
TOTALS	\$1,933,070.00	\$0.00	\$1,933,070.00

Manager	Borowiec, Joseph C.
Contracts	STD-6838
Contractors	Parman Corporation
Technologies	Cogeneration
Cities	New York
Counties	Statewide, New York