

## **Pepsi Cola Bottling Company CHP**

To demonstrate CHP by installing 1,400 kW new generating capacity and continue to purchase some electricity from grid. To recover heat and use it beneficially.

### **BACKGROUND**

Pepsi Cola Bottling Company of New York, Inc., owns and operates eight facilities in New York State. One facility, in College Point (Queens) New York occupies 160,000 square feet, and manufactures and bottles Pepsi Cola beverages. This facility, with 140 employees, operates a 2-shift per day/5-days per week process (with seasonal variations - 22 hours/day and 6 days/week during Summer). The bottling process consumes significant energy in the form of heat for sterilization of bottles and processing equipment. The process is heated with steam which is provided by three antiquated boilers, reliance on these boilers has resulted in increased incremental processing costs.

### **OBJECTIVE**

Through this project, Con Edison Solutions (an energy services company) will serve as the Contractor. The project will install and demonstrate the efficiency of a CHP system to self-generate approximately 90 percent of the annual electricity needs at the host site facility. The recovered heat will be used in the form of steam for the existing low pressure steam system at the host site.

### **DESCRIPTION**

The Contractor shall install and demonstrate the efficiency of a CHP System consisting of four (4) each 365 kW gas-fired engine-driven generators, and Balance of Plant (BOP) including a system to provide recovered heat in the form of low pressure (15 psig) steam. The CHP System shall be grid connected in the electric service territory of Consolidated Edison Company of New York, Inc.

### **BENEFITS**

Technology transfer and publicity will emphasize wide dissemination of the project results. Bottling, represented by Standard Industry Classification (SIC) Code #2086, occurs at over 130 facilities throughout New York State. This project is forecasted to provide peak load reduction of approximately 1.4 MW, and result in over \$300,000 in annual net annual energy savings for the host site facility.

<b>Funding</b>	<b>Encumb to Date</b>	<b>Pending</b>	<b>Total Anticipated</b>
Consolidated Edison Solutions Inc.	\$1,200,000.00	\$0.00	\$1,200,000.00
NYSERDA	\$1,000,000.00	\$0.00	\$1,000,000.00
<b>TOTALS</b>	<b>\$2,200,000.00</b>	<b>\$0.00</b>	<b>\$2,200,000.00</b>

<b>Manager</b>	Levy, Dana
<b>Contracts</b>	STD-7282
<b>Contractors</b>	Consolidated Edison Solutions Inc.
<b>Technologies</b>	Cogeneration
<b>Cities</b>	College Point
<b>Counties</b>	Queens