

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION CONEY ISLAND WWTP - ENGINE OPTIMIZATION



PROJECT NAME: NYCDEP—Coney Island
WWTP Engine
Optimization

PROJECT ADDRESS: Knapp Street
Brooklyn, New York

PROJECT OWNER: New York City Department of
Environmental Protection
(NYCDEP)

**OWNER
REPRESENTATIVE:** New York Power Authority
(NYPA)

PROJECT DESCRIPTION:

RCM Technologies, Inc. was selected to provide feasibility, design and construction management services for the overall optimization of the thirty (30) year-old, 8 MW Cogeneration System located at the 100 MGD Coney Island Wastewater Treatment Plant in Brooklyn, New York. The system is powered by four (4) 2 MW Dual Fuel Engine Generators designed to run on digester gas, produced at the facility, and minimal diesel oil for pilot fuel. The overall project consists of the evaluation and rehabilitation, replacement or addition of the following systems:

- Four (4) 2 MW Engine Generators and Control Systems
- Fuel Gas Booster/Compression System
- Combustion Air System
- Engine Cooling Systems and Heat Recovery Systems
- Addition of Digester Gas Treatment and Gas Blending Systems
- Fuel Oil, Lube Oil and Starting Air Systems
- Addition of overall System SCADA

PROJECT START: July 2011

EST. PROJECT DURATION: Five (5) Years

EST. PROJECT COSTS: \$62,000,000

EST. ANNUAL PROJECT SAVINGS: \$1,500,000

