



## Engineer- Procure- Construct

### Client

Con Edison Development

### Location

Lakewood Township, NJ, USA

## Ocean Peaking Power

### Project Description

CH2M HILL provided engineering, procurement and construction services on a power plant for an affiliate of Consolidated Edison Development. The project, known as Ocean Peaking Power, is located in Lakewood Township, New Jersey.

The 330 MW Ocean Peaking Power Plant is adjacent to Consolidated Edison Development's Lakewood Cogeneration facility. The project was completed on schedule in January 2003. The plant includes two owner-supplied GE Frame 7FA gas turbine generator sets in a simple cycle configuration with options for a third unit.

CH2M HILL provided the engineering, procurement and construction for the power islands including the installation of the gas turbine generators and ancillary equipment. We also provided the specification, procurement and installation of the balance-of-plant equipment and start-up coordination services. Each gas turbine generator set is equipped with GE's standard weatherproof and sound attenuating enclosure and free-standing 75-foot high exhaust stacks, including a horizontal silencer section that is supplied by CH2M HILL.

An innovative concept for excavation and foundation was utilized. The site was completely excavated down to the average "bottom of foundation" elevation prior to form installation and concrete pour. This concept saved costly hand excavation and reduced total construction manhours.

Due to the project location, offsite warehousing was required, dictating "just-in-time" deliveries. CH2M HILL's comprehensive Logistics Plan was instrumental in success for this approach. Modularization and skid-mounted equipment was used as much as possible due to high labor costs for the area. The modularization of the powerhouse is one example.

Con Edison Development, a wholly-owned subsidiary of Consolidated Edison, Inc., is a New York City-based company that invests in energy infrastructure development projects to support the power trading and marketing activities of Con Edison Energy.