

COGENERATION & CENTRAL CHILLED WATER PLANT

Client:
ThermoGen, LLC

Project Location:
United Arab
Emirates

Capacity:

- 120,000 tons of cooling capacity
- 17.6 miles of underground pipe distribution system

**Approximate
Installed Project
Value:** Confidential



DEVELOPMENT PLAN BY YEAR
Dubai Investment Park
Dubai Investments Park Development Co. L.L.C.

A Mid East developer selected PCI to prepare a comprehensive technical and financial plan to provide district cooling services to a major industrial park (20 sq. miles) in the United Arab Emirates.

The scope of work included:

- Developed the market analysis to determine cooling loads
- Identified and evaluated technologies for:
 - Multiple central cooling plants
 - Distribution systems
 - On-site electrical generation
- Optimize the distribution system sizing by utilizing HeatMap hydraulic design program
- Provided detailed capital cost estimates for all alternatives
- Developed capital and operating costs for all alternatives
- Created a detailed economic analysis of project
- Developed a comprehensive business plan
- Developed a rate model for the sale of energy, (chilled water and electric power)

