

Project Type

District Cooling Plants (DCP) with network and chilled water distribution.

Capacity:

310,000 ton District Cooling Plant system

Services provided

Prime Consultant
Detailed Engineering

Project Highlights

- 310,000 TR interlinked District Cooling System
- Six (6) below grade District Cooling Plants
- 45,000 TR to 55,000 TR capacity of each plant
- Over 35 Kms Chilled Water Network piping system
- 360,000 Ton-hours of ice thermal storage

Client :

Central Plant : Sama Dubai
Network : Empower



The Lagoons is a 7.7 million sqm mixed use development located next to the Ras-al-khor wild life sanctuary. The Lagoons comprises of 7 islands "The Pearls" and surrounded by a series of interlinking waterways.

Mario Associates provided the complete engineering and design for the 35+ kms of chilled water network design as Prime Consultant to Empower, the District Cooling Services provider.

Along with Vanderweil Engineers, Mario Associates' business partners, responsible for all aspects of the mechanical & electrical engineering design of the unique nature of the 6 District Cooling Plants location, underground, with only the cooling tower fans located above grade.

The plants engineering and design carried out under a separate Agreement directly with SAMA, Dubai, the Master Developers of Lagoons.

