



DISTRICT COOLING PLANT #4

INFRASTRUCTURE - ENERGY

Key Figures

District Cooling Program Customers:

70

District Cooling Capacity:

54,720 Tons

District Cooling Service Area:

20M+ SF

Mobilized Expertise

Design-Build Modular Chiller Plant

Streamlined modular delivery of
a chilled water system.

Introduction

A Modular Cooling Plant for Downtown Austin

Austin Energy, the community-owned utility company that services downtown Austin needed to quickly expand their district cooling capacity to meet the increased demand for chilled water services in response to the area's rapid growth.

Systecon, an EQUANS company, took the owner's design criteria and developed a chilled water utility solution to cool and support buildings in downtown Austin.

Customer Challenges

Quickly Increase Cooling Capacity without New Development

With a lack of real estate, the customer needed a fast solution without new site development. Additional challenges included optimizing electrical distribution, as well as minimizing noise and vibration generated by the plant.

To avoid new site development, Austin Energy chose to install the new plant on the roof of the Austin Convention Center.

Systecon's Response

Chiller Plant Design Improves Capacity

Under a fast-track design-build delivery, Systecon designed and fabricated a modular 3,000-ton capacity cooling plant to supplement the city loop that Austin Energy owns and operates. The plant includes chillers, condenser water system, cooling towers, pumps, and all associated power distribution and controls.

District Cooling Plant #4 is an additional chilled water production that will work in conjunction with existing DCP1, DCP2, and DCP3.

The plant was shipped in 8 modules and installed in a matter of days, as opposed to months had it been built onsite.



Results

The modular chiller plant provides operational flexibility, additional chilled water production capacity, and optimization of the district cooling system for maximum efficiency.

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