

Contract Details

Contract Type:

Design/Build; Own and Operate;
Energy Savings Performance
Contract

Technology Type:

Energy Efficiency; District Energy

Facility Size:

Five Buildings

Energy Project Size:

\$11 million

Summary

For this \$11 million project, Ameresco designed and built and now owns and operates the City Centre Chilled Water Plant, which is a District Energy Plant. The City Centre Chilled Water Plant was built to meet the cooling needs of properties in downtown Las Vegas, Nevada. It serves five businesses (Fitz Casino and Hotel, Four Queens Resort and Casino, Fremont Street Experience, Walgreens, and Hennessey's Tavern) in an eight-block area.



Customer Benefits

By connecting to the central City Centre Chilled Water Plant system, the building owners can outsource a non-revenue-generating asset while assuring reliable, safe comfort for their customers and tenants. Owners are provided with an alternate investment and space use strategy. Having the City Centre Chilled Water Plant supply chilled water via pipe connections eliminates the need to invest in expensive physical plant equipment and to operate and maintain that equipment. Owners simply pay a monthly bill based on the actual consumption and contracted capacities.

Services Provided

Before design began, it was soon recognized that the City Centre Chilled Water Plant needed to be as energy efficient and easy to operate as possible. It also needed a software infrastructure that would seamlessly integrate equipment that used "best-of-breed" controls, along with legacy systems. This system also had to provide a plethora of real-time information in order to provide energy consumption information to clients to produce billing agreements for the customers.

Finally, because the facility was going to be unmanned most of the time, the software needed to have real-time alarming capabilities to warn Ameresco personnel of problems and anomalies,

and it had to be accessible via the Internet at any time, from anywhere. The City Centre Chilled Water Plant was designed for and is now controlled entirely by a Yamas Control's Tridium, Inc. Control System using Vycon Building Automation Suite software.

The energy conservation measures included installation of 3,600 tons of electric centrifugal chillers, a variable speed chilled water pumping system, new cooling towers, new direct digital control energy management system, and an underground and above ground chilled water piping distribution system.

About Ameresco

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions. Ameresco and its predecessors have constructed billions in projects throughout North America.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit ameresco.com.