

FACILITIES MANAGEMENT

AT COLORADO STATE UNIVERSITY

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Hello FM Team,

I am excited to tell you all about the construction of the Foothills Campus Chilled Water Plant. It is a 3,500 square foot facility located at the northeast corner of the Infectious Disease Research Center (IDRC) complex, east of College Lake. The facility will house three 600-ton chillers and associated equipment to provide chilled water for space conditioning and process loads. It will serve the existing research complex, including the Bio-environmental Hazards Research Building, Regional Biocontainment Laboratory, Research Innovation Center, Common Good Manufacturing Practices, and Animal Reproduction & Biotechnology Lab. The new Center for Vector-Borne and Infectious Disease (CVID) building will be the plant's first customer, with other buildings connected in phases. The plant is scheduled for completion in May of 2021.

This will be the fourth central chilled water plant constructed on CSU's three Fort Collins campuses. The plant was proposed during the planning of CVID, when the University had to choose between installing more distributed chilled water equipment for the new building or following a district model and consolidating cooling into a central plant. Opting for the district model allowed the University to avoid the installation of two chillers for CVID, and will enable the retirement of twelve individual chillers at the IDRC complex over time. The new plant is more efficient than the existing equipment, and the cost of ownership of the existing chillers was more expensive than construction of this new utility. Additional benefits are retirement of noisy equipment, which impacts CSU's neighbors in subdivisions to the south, and the ability to provide cooling to buildings planned for construction in the near future, without the need for additional cooling equipment. Long term, the plant is designed to expand in order to accommodate the further development of this area of Foothills Campus. The life cycle cost benefits and sustainability of the plant project made it the best option for the University.

The Foothills Campus Chilled Water Plant project has been a group effort by many areas of Facilities Management. The plant falls under the District Energy business in Utility Services, who are involved at every level of planning and construction. Remodel and Construction Services is providing project management and contractor coordination, as well as a significant portion of the construction labor. Extensive collaboration has been necessary in order to navigate multiple challenges, from the soaring costs of construction to working effectively during a pandemic. This

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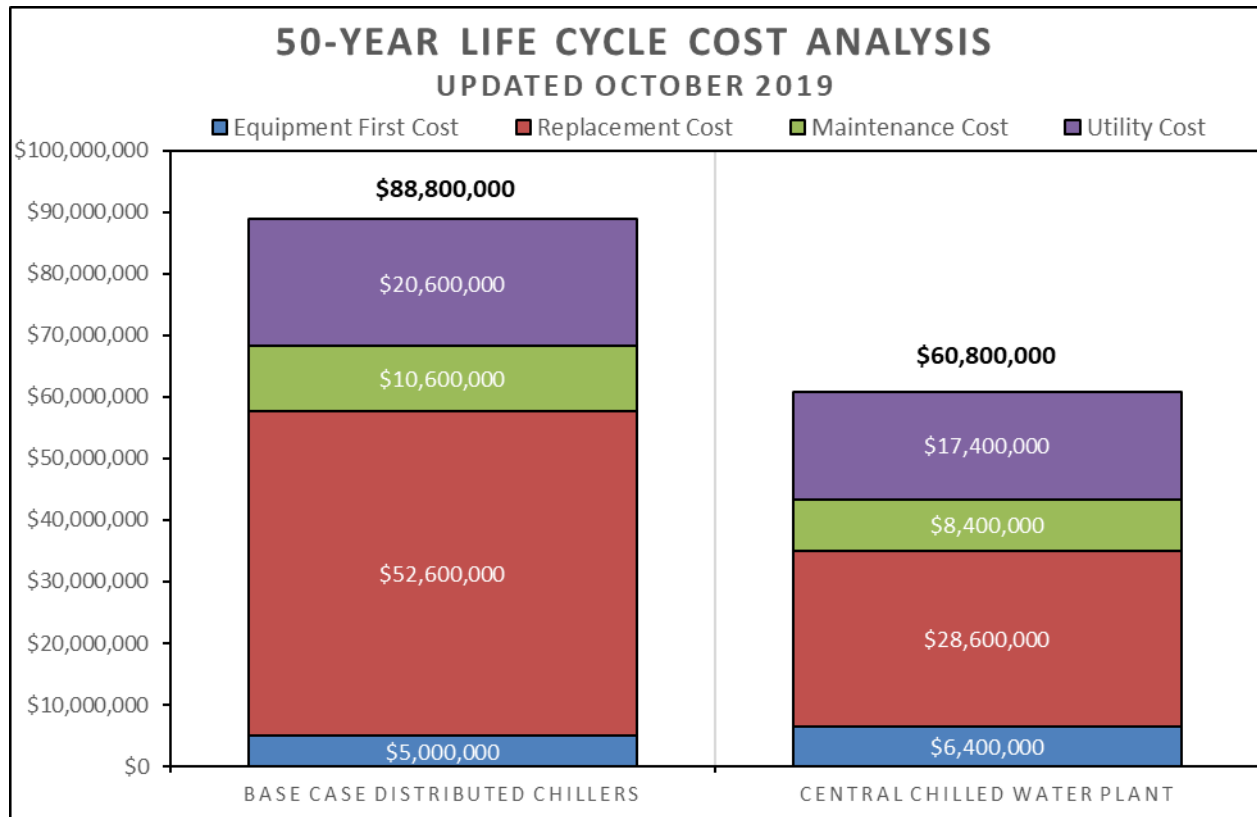
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project is just one of many terrific examples demonstrating how the FM team works together to provide cost-effective resilient energy solutions in support of the CSU mission – Well done!



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