

# Occidental College Central Plant Commissioning & Optimization

Los Angeles, CA

## Project Type

Central Plant Commissioning

## Size

n/a

## Services Provided

Sequence of operation development and commissioning of the campus' retrofitted ice storage central plant. All new mechanical equipment and controls sequences were extensively functionally tested on site and validated using trend review through the Skyspark commissioning platform.

## Completion Date

2015

## Owner

Occidental College

## Contractors

Mechanical: ACCO  
Controls: Sunbelt



Image Credit: The Port of Authority

Occidental College utilizes a 1500 ton central plant with ice storage capabilities for campus wide cooling. The campus' ice storage TES system had been decommissioned for multiple years prior to this project. Taylor Engineering's contribution to Occidental college oversaw the installment of 3 new centrifugal chillers, 4 new cooling towers, and an updated DDC control system to bring the ice storage system back into use and optimize the plant.

The plant at Occidental now consists of 500 ton centrifugal chillers with ice-build, high lift capabilities, serving a primary glycol loop. 5 internal melt ice storage tanks are located downstream of the chillers in the primary loop and collectively provide 2800 ton-hours of cooling capacity for peak demand shaving. A secondary glycol loop draws off the primary loop to supply chilled glycol to two glycol-to-chilled-water heat exchangers. A chilled water loop on the other side of the heat exchangers provides comfort cooling across the campus.