

Chabot Community College Central Utility Plant

HAYWARD, CALIFORNIA

Services

MEP Engineering
Fire/Life Safety

FAST FACTS

Architect

Stafford King Wiese
Architects

General Contractor

Swinerton Management and
Consulting

Completion

February 2009

Building Size

Chabot: 750,000 sf
Las Positas: 300,000 sf

Project Cost

Chabot: \$17 million
Las Positas: \$13 million

Awards

**Best Practice Honorable
Mention Award for Energy
Efficiency in HVAC Design:**
UC/CSU/CCC Higher
Education Energy Efficiency
Partnership Program, 2009

Contact

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Interface Engineering was tasked with design and implementation of the new Central Plant (chiller plant and boiler plant) and hydronic distribution for both Chabot and Las Positas' extensive campuses.

Interface assisted the District with securing a \$750,000 rebate from the California Community Colleges and Investor-Owned Utility. The design also helped the District design a system that ended up with a one year payback after all buildings are to be connected to the loop. Annual energy and maintenance savings are expected at \$300,000 per year.

Infrastructure systems were designed to be distributed in a loop configuration (with the exception of the security, telecommunications, and television

systems) so that portions of the loop could be isolated for maintenance without shutting down the entire operation. The following systems were utilized:

- » central hot water heating plant
- » central chilled water plant with thermal storage
- » integration of cogeneration plant
- » telecommunications infrastructure
- » new BacNet controls system



The new boiler plant will help save the college over \$300,000 a year in maintenance and energy. Recently completed, it was within 1.1 percent of the original budget created in 2007.