

Higher Education

North Orange County Community College District Cypress and Fullerton, California

Project Cost: \$5,960,000

Annual Cost Savings: \$653,000

Facility Description: Community College District

Contract Term: Construction Duration



NORESCO is in the final stages of constructing a comprehensive energy conservation project at the Cypress and Fullerton College campuses. Energy conservation measures implemented by NORESKO include:

- Replacing fan and pump motors, including installation of variable frequency drives to better control the speed of the fans and pumps and reduce energy consumption.
- Replacing large central-plant boilers with a new boiler system at the Fullerton campus and replacing smaller decentralized boilers at the Cypress campus.
- Replacing heat pumps, packaged A/C units, and multi-zone units with new high-efficiency units.
- Replacing existing pneumatic and stand-alone controls with a new energy management control system (EMS).
- Retrofitting existing interior and exterior light fixtures with the most energy-efficient technology available, including the installation of occupancy sensors to further reduce the run hours of the new lights.

NORESCO provided a wide range of services for this project, including equipment auditing, energy analysis, rebate processing, construction management, design engineering and specification, and project implementation inspection and commissioning.

The Community College District was so satisfied with the first project that NORESKO is now working on a second project: installing a 900 kW generation plant at Cypress College that will provide power to the electrical grid and hot and chilled water to a new campus circulation loop.

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESKO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel.



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