

Photo: Carson Community Center

About the Project

The City of Carson completed modulating vertical boiler (MVB) installations in their Community Center. The project will provide beneficial maintenance upgrades to the boilers, just in time for the colder season. With the help of SoCalREN, Carson secured incentives through the Statewide Water Heater Program (SWHP), which improved the project's payback and return on investment.

SoCalREN assisted the City with application support, project management, and identifying approved distributors for the project. As a result, the City of Carson secured a total rebate amount of \$1,500. In collaboration with the City's Energy Service Company (ESCO) partner, TRANE, SoCalREN provided energy use analysis and grant application support to make the project happen.

Project Outcomes



\$38,500+
Lifetime cost savings



\$1,500
Incentives secured



20 years
Estimated useful life of project



10%
Reduction in site energy use

No-Cost SoCalREN Services Utilized



Audit/
Calculations



Benchmarking
Analysis



Design/
Scope of Work



Grant Viability
Analysis



Utility Incentive
Application



Project
Management



Close-out
Support

Project Summary and Benefits

- Estimated 10% energy reduction at site
- Measures implemented: commercial hot water boilers
- Annual energy cost savings: \$1,928
- Annual therms savings: 2,056
- Measures estimated useful life: 20 years
- Lifetime energy cost savings: \$38,554
- Total Statewide Water Heater Program incentive secured: \$1,500
- Internal funding used: \$24,245
- Project timeline: September 2020 to March 2022

Fun Fact! The commercial hot boiler installations in the City of Carson's Community Center are estimated to have a thermal efficiency (TE)* of 84%!

*Thermal efficiency is the ratio of the heat energy (Btu/hr) absorbed by the water to the heat energy available in the fuel burned.

What's Next for the Agency?

To achieve more significant energy savings, the City of Carson plans to replace chiller and heating, ventilation, and air conditioning (HVAC) units at their City Hall and Community Center and incorporate electric vehicle (EV) charging stations near City Hall. These projects contribute to the city's environmental initiatives that residents can participate in and benefit from. SoCalREN looks forward to supporting the City of Carson in their continued sustainability efforts!

About the City of Carson

Located in the South Bay region of Los Angeles County, the City of Carson is a culturally diverse community of over 92,000 people that provides unique recreational experiences for the public. Carson City residents have access to personal enrichment programs that promote career exploration, mental and physical health, education, cultural arts, and civic engagement. Residents also have access to recreational facilities such as parks, aquatic centers, sports complexes, and the Carson Community Center. Despite the COVID-19 pandemic, the City is determined to continually enhance its program initiatives to encourage a vibrant and well-rounded environment for its residents.



Carson Community Center