

## Contract Details

### Contract Type:

Energy Savings Performance  
Contract

### Financing:

Tax Exempt Municipal Lease

### Facility:

Cascade Swim Center  
17,898 sq. ft.

### Energy Savings:

59,841 kWh annually  
11,819 Therms annually  
88 CCF annually

### Energy Project Size:

\$357,520

## Summary

Redmond Area Park and Recreation District (RAPRD) partnered with the City of Redmond, OR and Ameresco on an energy savings project that took advantage of favorable incentives from the Energy Trust of Oregon. The Cascade Swim Center now benefits from several important facility improvements, including new equipment and automated facility systems controls. Existing equipment underwent extensive renovation and retrofitting to extend its life, improve functionality, and cut down on utility costs.



New Automatic Pool Cover

## Customer Benefits

Redmond Area Park and Recreation District (RAPRD) realized the following benefits upon completion of this project:

- ▶ Ameresco helped RAPRD secure low interest financing.
- ▶ The project was completed on time under and more than \$16,000 under budget.
- ▶ Guaranteed energy savings were met.
- ▶ Ameresco exceeded client expectations by securing \$83,176 of incentives. Incentives were originally estimated at \$56,860.
- ▶ Design, construction and commissioning were completed within a narrow window to fit within the annual scheduled shutdown.
- ▶ Ameresco provided vetting of subcontractors and negotiated with the most qualified subcontractors to avoid low-bid pitfalls.
- ▶ The improvements from this project are expected to save RAPRD more than \$15,000 annually.

In addition to building improvements and energy savings, this project provides a significant positive impact on the indoor environment of the facility, as well as the environment as a whole. The improvements to the ventilation within the natatorium have a noticeable effect on occupant comfort and reduce the undesirable odors and humidity inherent from pool evaporation.

## Accolades

*"These energy savings measure are not just good for the decades; going green, upgrading equipment and saving money helps protect our community facilities and resources for decades to come."*

*Jessica Rowan  
Aquatic Director*

*Redmond Area Park and Recreation*

## Environmental Benefits

Through the partnership with Ameresco, RAPRD is expected to save the equivalent of 93 tons of CO<sub>2</sub> per year. The green benefit from this carbon reduction is roughly equal to:

- ▶ Removing 19 passenger cars from the road
- ▶ Planting 76 acres of trees

The project helps reduce the need for energy from traditional power plants that rely on fossil fuels.



## About Redmond Area Park and Recreation District

Incorporated in 1975 to provide park and recreation facilities for residents within the boundaries of the District. The District's facilities include Cascade Swim Center and CSC Park, RAPRD Activity Center, High Desert Sports Complex, Borden Beck Park and some undeveloped parks. RAPRD offers recreational programs for the greater Redmond, Oregon community.

Learn more at <http://www.raprd.org/index.htm>.

## About Ameresco

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions. Ameresco and its predecessors have constructed billions in projects throughout North America and the United Kingdom.

For more information about Ameresco and our full range of energy efficiency and renewable energy solutions, please visit [www.ameresco.com](http://www.ameresco.com).



Redmond Area Park and Recreation District Cascade Swim Center.

## Services Provided

Ameresco partnered with RAPRD to address the issue of a failing boiler plant and a lack of available capital for a new boiler. Ameresco helped secure financing for the boiler replacement along with other cost effective upgrades to improve the comfort and control of facility. The project energy savings were guaranteed based on an extensive audit. Ameresco secured 66% of the audit fee from Energy Trust of Oregon.

Ameresco replaced the standard efficiency boiler from the 1970's with a high efficiency boiler. A new digital control system was added to control the new and existing pool and heating equipment. In addition, Ameresco refurbished existing facility equipment to reduce maintenance costs and regain full system functionality.

Ameresco insulated the existing and new piping and added a variable frequency drive to the pool pump. Additionally, Ameresco replaced the un-secure, leaky natatorium doors with tightly sealed doors and installed an automatic pool cover. The project was completed on time and under budget. The construction cost savings were reconciled back to Redmond Area Park and Recreation District to reinvest in the District.

The improved HVAC system maintains the natatorium at the desired humidity setpoint. Humidity control reduces the corrosive atmosphere around the pool, thus preserving the building structure and surfaces within the natatorium.

The old boiler was 36 years old, while typical useful life of a boiler is 25 years. Proactive replacement of this capital equipment, as compared to an emergency replacement, helped to reduce cost and eliminate downtime.



Boiler progression