

WaterWorld®

City of Santa Paula to reduce water recycling power consumption costs

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PERC Water's investment in energy saving technology will create significant savings for the City

SANTA PAULA, CA, Aug. 25, 2009 -- PERC Water Corporation's [water recycling](#) facility in Santa Paula, California is estimated to save the City up to 15 percent in [wastewater treatment](#) power consumption costs.

This facility is the first of its kind to be built under California's new government code Section 5956 that encourages private investment to solve public [infrastructure](#) needs. Construction of the facility began in July 2008 and will commence operation before December 15, 2010. It will serve the City's population of approximately 30,000 people.

"In this environment of rising energy costs, we understand the pressures cities face in reducing power consumption while continuing to maintain the quality and efficiency of all public infrastructure projects," said Juergen Nick, PERC Water's vice president of design and engineering. "The water recycling technology we are employing in the Santa Paula Facility sets the industry bar as it helps to control and minimize operational energy costs while delivering the smallest environmental footprint possible."



Artist rendering of Santa Paula water recycling facility.

Highlights of the Santa Paula Water Recycling Facility's energy-efficient features include:

- **Innovative lighting design** -- Using a combination of natural lighting, LED lamps, Mercury Vapor exterior lights, electronic ballast for fluorescent lamps, light sensors and automatic dimming devices, the energy savings achieved by these measures will far exceed the State of California's Title 24 energy-efficiency requirements.
- **Energy-efficient membrane scouring and aeration system** -- As membrane scouring and aeration account for nearly half of the facility's power consumption, PERC Water chose to employ the most energy-efficient air production and usage systems on the market. Most noticeable are the facility's turbine blowers, which are used throughout the facility's various process areas. The blower's precision technology allows PERC Water to control, monitor and specifically adjust the airflow for aeration over a wide range of operations. Additionally, the facility's Ultra Violet Disinfection System, used to disinfect the effluent, uses amalgam lamps -- the most energy-efficient way to generate UV light.
- **Smart controlling system** -- A proprietary technology developed exclusively by PERC Water, the Supervisory Control and Data Acquisition (SCADA) system has the unique ability to gather, display, track and store live data generated by the facility. In an effort to optimize energy

consumption, the SCADA system is designed to consistently update operators on the exact status and measurements of all of the facility's processes such as air flow, water flow and tank capacity. The SCADA system is also equipped to notify operators of abnormal conditions via telephone, text message or video messaging directly to the operator's smartphone or iPhone.

Southern California Edison (SCE) encourages its clients to participate in "Savings by Design," a program that promotes high-performance building design and construction. As a result of the energy saving measures PERC Water has incorporated, SCE will be issuing them a grant towards offsetting incurred higher equipment costs for achieving the program's goals.

Santa Paula Water LLC, a company formed by PERC Water Corporation and Alinda Capital Partners, was awarded a 30-year concession with the City in May 2008. PERC Water is under contract with Santa Paula Water LLC to design, build, and operate the new 4.2 million gallons per-day water recycling plant, replacing the City's existing wastewater treatment facility (<http://www.percwater.com/Portfolio/1/city-of-santa-paula-water-recycling-facility>) built in 1939.

In April of this year, PERC Water and Alinda Capital were presented with the Global Water Intelligence (GWI) Global Water Awards' 2009 "Water Deal of the Year" Award of Distinction for the Santa Paula Water Recycling Facility. The Water Deal of the Year award recognizes deals that have made the biggest contribution to the advancement of public-private partnerships in the international water sector in 2008.

To learn more about this project, visit www.santapaulawater.com.

About PERC Water

PERC Water is a water recycling company that designs, builds, operates and manages water recycling facilities throughout the United States. They have designed more than 55 facilities -- 20 of which they have designed, built and operated. The company guarantees water of the highest quality and assumes the risks associated with water recycling. PERC Water is headquartered in Costa Mesa, CA. See www.percwater.com for more information.

About Alinda Capital Partners

Alinda Capital Partners is an independent investment firm that specializes in infrastructure investments that serve communities, governments and businesses. Alinda manages well over \$3 billion in its infrastructure fund, which has invested in gas and water utilities, wastewater treatment services, water tanks, municipal services, roads, bridges, tunnels, airports and rail service. The Fund's investors are predominantly pension funds for public sector employees. See www.alinda.com for more information.

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