

Inland Empire Utilities Agency Renewable Energy Projects



Renewable Energy Profile

Total portfolio includes 7.4 MW of renewable energy

The Agency has made significant strides in reducing its dependence on the electrical power grid by investing in renewable energy programs. In an effort to diversify and maximize renewable energy generation, the Agency installed 3.5 megawatts (MW) of solar power in 2008, a 1 MW wind turbine in 2011 and a 2.8 MW biogas fuel cell in 2012. Combined, these projects have provided more than 50% of peak energy demand Agency-wide. Energy accounts for 25% of non-labor operation and maintenance costs, making it the highest non-labor cost. The Agency seeks to achieve energy independence by 2020 and carbon neutral by 2030 by improving operational efficiencies and implementing new renewable projects and energy management agreements.



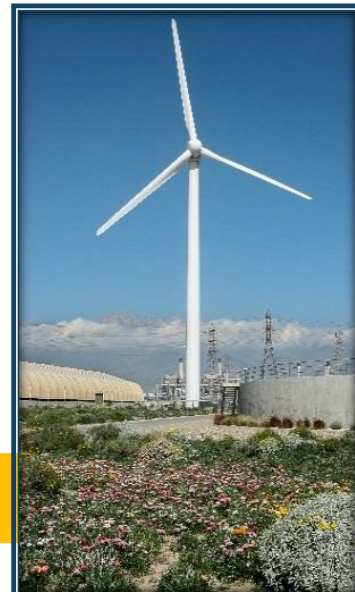
Solar

In 2008, IEUA installed 3.5 MW of solar power at its water recycling facilities and the Inland Empire Regional Composting Facility. The 3.5 MW of solar energy, enough to power approximately 2,800 homes, results in a substantial savings on energy costs for the Agency.

Wind Turbine

A 1 MW wind turbine is installed at the northern Regional Water Recycling Plant No. 4. The wind turbine stands 185 feet high and has three blades that span 80 feet in length and provides a portion of the electricity needed at the plant.

IEUA maintains a well-earned reputation as a leader in clean energy and environmental stewardship.



Inland Empire Utilities Agency



Battery Energy Storage

First public agency to implement this technology

IEUA entered into a partnership with Advanced Microgrid Solutions (AMS) to install, operate and maintain battery storage. The Agency has 4.1 MW of battery storage at four IEUA facilities (four treatment plants).

The batteries, supplied by Tesla, reduced IEUA's demand for power during peak periods, saving the Agency approximately \$85,000 annually in electricity costs. The batteries charge at night when power costs are at their lowest and use the batteries during the day when grid demand is highest, and costs are exponentially higher.

These battery storage systems integrate IEUA's renewable installations and give IEUA a greater ability to regulate the Agency's demand and the delivery of self-generated electricity. Furthermore, the batteries can potentially act as a resource for the utility to shed grid load during periods of high demand.

In 2016, a dedication ceremony was held at IEUA to launch the landmark water-energy project. The first-of-its-kind link between storage and renewable resources at a public water agency positions IEUA as the industry leader in approaches to sustainability and carbon reduction.



Board President Steven J. Elie, Congressman Mark Takano, Congresswoman Norma Torres, Director Jasmin A. Hall, Director Michael Camacho



Congressman Mark Takano, AMS Founder and CEO Susan Kennedy, Congresswoman Norma Torres



Tesla Batteries installed at RP-5

IEUA is committed to optimizing facility energy use and effectively managing renewable resources to achieve peak power independence and contain future energy costs.