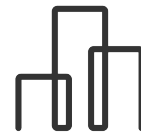




Long Beach Water
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Advanced Microgrid Solutions

FOR IMMEDIATE RELEASE:

December 20, 2017

Advanced Microgrid Solutions and Long Beach Water Department Team Up to Build Advanced Energy Storage System

Energy System to Improve Operational Efficiency of Groundwater Treatment Plant

LONG BEACH and SAN FRANCISCO, California – Advanced Microgrid Solutions (AMS) and the Long Beach Water Department (LBWD), both leaders in their respective energy and water industries, today announced a partnership to build the first advanced energy storage system for the department’s Groundwater Treatment Plant. AMS will utilize its battery system and industry-leading transactive energy platform, Armada™, to improve the operational efficiency of the plant, lower energy costs and provide critical grid services to the local electric utility.

“We are proud to be ahead of the curve by building this energy storage system,” said Robert Shannon, president of the Long Beach Board of Water Commissioners. “This partnership with AMS will deliver many cost-effective and environmental benefits for our community.”

The 500 kW / 3,000 kWh energy storage project will be part of a network of batteries in the Long Beach area that will provide grid services to Southern California Edison, help integrate solar capacity on the grid, reduce greenhouse gasses and provide energy cost savings and operational efficiencies to the City and Water Department.

“AMS is extremely proud to partner with the Long Beach Water Department to further the city’s sustainability efforts,” said Susan Kennedy, CEO and Founder of AMS. “This project helps make the City of Long Beach more resilient while reducing costs and supporting the regional electric grid.”

LBWD is committed to water use efficiency. This project advances the nexus between energy and water usage, known as the “water-energy nexus”. The water-energy nexus refers to the correlation between water and energy use efficiency – water use efficiency also delivers energy efficiency benefits and vice versa. According to the [California Energy Commission](#), the transportation and treatment of water, treatment and disposal of wastewater, and the energy used to heat and consume water account for nearly 20 percent of the total electricity and 30 percent of non-power plant related natural gas consumed in California.

“LBWD is excited to implement this forward-thinking technology for our city,” said Tai Tseng, deputy general manager of operations of the Long Beach Water Department. “This system is going to improve our operational flexibility and energy reliability and lower electrical costs for our Groundwater Treatment Plant.”

The system is expected to deliver up to \$150,000 in annual energy savings to the City of Long Beach, and \$1.9 million over 10 years at no upfront cost to the city. These savings are created through a unique

combination of energy management and load optimization provided through AMS's Armada™ Platform. The project is expected to be operational by Fall 2018.

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About Advanced Microgrid Solutions | Advanced Microgrid Solutions (AMS) is pioneering the use of advanced energy storage for energy management and grid services. AMS designs, optimizes, aggregates and manages distributed energy resources and energy storage assets. AMS's building-to-grid™ asset management software Armada™ provides continuously optimized resource management, cost reduction and revenue generation for large-scale energy users and utilities. To learn more, visit www.advmicrogrid.com and follow us on twitter: @advmicrogrid.

About Long Beach Water Department | As a recognized leader in water conservation and innovation, the Long Beach Water Department contributes to creating a sustainable community, develops collaborative partnerships, and fosters a quality workforce. For more information visit lbwater.org and follow us on social media @lbwater.

Long Beach's Groundwater Treatment Plant | Long Beach Water is celebrating twenty years of operation of its Groundwater Treatment Plant, a facility that has the capacity to produce 62 million gallons a day of high quality drinking water. The Groundwater Treatment Plant enables Long Beach Water to continue to live its core values of innovation, reliability, resiliency and responsible stewardship.

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