



Advanced Microgrid Solutions



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**ADVANCED MICROGRID SOLUTIONS AND OPUS ONE ANNOUNCE
\$12.4 M NORTH AMERICAN MULTI-UTILITY MICROGRID PROJECT**

International Consortium to Provide Grid Solutions for U.S., Canada

SAN FRANCISCO, CA and TORONTO, ON -- Opus One Solutions (Opus One), Advanced Microgrid Solutions (AMS) and a consortium of partners today announced a \$12.4 million USD North American multi-utility microgrid project. Sustainable Development Technology Canada (SDTC) will provide \$4 million USD in funding to support the project, designed to improve integration of distributed energy resources and commercial microgrids into power systems and regional wholesale markets. The project will demonstrate smart and integrated transactive energy networks that integrate wind, solar, electric vehicle charging stations, battery storage and feeder-based microgrids into traditional electricity power systems at three utilities in the United States and Canada.

“Today’s power grid needs advanced storage solutions to accommodate the variability of renewable generation,” said Alain P. Steven, Chief Technology Advisor of AMS and former CTO of PJM Interconnection. “The combined platform will provide grid operators with grid reliability services while lowering the net costs of storage through participation in wholesale and developing distribution markets.”

“We are thrilled to work with a leading technology provider like Advanced Microgrid Solutions to complement the capabilities of our intelligent energy networking software platform, GridOS®,” said Joshua Wong, CEO and President of Opus One. “Transforming the electricity grid requires leaders willing to adopt innovative technologies and we are grateful that SDTC is supporting this partnership to flourish.”

The project combines AMS’s advanced analytics and economic optimization platform and Opus One’s GridOS®, a real-time distribution energy networking platform, to build a smart and integrated transactive energy network. Opus One will lead the consortium, which includes AMS, Emera Maine, Smarter Grid Solutions and The Centre for Urban Energy at Ryerson University.

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The multi-utility project includes development of a commercial microgrid consisting of solar, battery storage and back-up diesel generation integrated with distribution-level feeder operations and the regional transmission operator; a distributed energy resources (DERs) management demonstration project; and a feeder-based microgrid featuring wind resources, grid-scale energy storage and up to 10 residential battery systems. AMS's platform will perform an economic optimization of the DERs, while Opus One's GridOS® will ensure that the DERs are optimally dispatched within the physical constraints of the grid. Behind the meter microgrids will provide grid and market operators virtual resources capable of providing integrated demand response and advanced ancillary services. In front of the meter microgrids will provide the grid operator with the ability to perform feeder load relief, volt/VAR optimization and conservation voltage reduction.

This is the first time AMS has participated in a Canadian project. AMS has more than 120 MW of energy storage projects under contract, including 90 MW of grid support in capacity-constrained areas in Southern California. AMS's grid-scale energy storage projects include a fleet of Hybrid Electric Buildings®, as well as grid independence projects at regional water districts and California State University campuses.

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About Advanced Microgrid Solutions

Advanced Microgrid Solutions (AMS) is pioneering the use of energy storage systems for electric utility grid support. Using a technology-agnostic approach, the company designs, finances, installs and manages advanced energy storage solutions for commercial, industrial and government building owners. To learn more about AMS, visit www.advmicrogrid.com.

About Opus One Solutions

Opus One Solutions is a software engineering and solutions company with the vision of a Connected Energy Internet, delivering real-time energy management to the modern grid. Through GridOS, its intelligent energy networking software platform, Opus One delivers a new level of visibility and control to electricity distribution by solving and optimizing complex power flows. Seamlessly integrating with existing utility data systems, GridOS modular and scalable solutions provide powerful grid management capabilities to unlock greater potential for distributed energy resources including renewable generation, energy storage and responsive demand. GridOS further facilitates the management of microgrids from homes to businesses to communities for unparalleled grid resiliency and value to the electricity customer. Visit Opus One Solutions at opusonesolutions.com and on Twitter @OpusOneSolns.