

DOW  KOKAM™

CASE STUDY



"The reliability and performance of Dow Kokam's lithium-ion battery cells provided an ideal solution for integration into our innovative pack design for this energy storage system. Our combined technologies will improve performance and efficiency of the utility distribution networks today, and enable further adoption of renewable energy sources in the future."

- Carmine Pizzurro
Principal of eCAMION Inc.

Engage

eCAMION Inc., a provider of modular energy solutions, was awarded a contract with Sustainable Development Technology Canada (SDTC) to provide stationary energy storage solutions for a Smart Community utility project in Toronto, Ontario. The project will integrate eCAMION's light-weight, high energy density technology into Toronto Hydro's existing electricity power grid and effectively provide local grid support, including increasing adoption of intermittent renewable power generation and increased demand which will soon include plug-in hybrid and electric vehicle charging. Embedding storage in the distribution network, at the community level, represents the most economical solution to address these issues and meet the rapidly evolving demands on the grid. eCAMION determined a need to install a total storage system capacity of 750 kWh, and identified lithium-ion technology as the best solution for reliable stationary community energy storage. After a thorough review of potential suppliers, eCAMION selected Dow Kokam's superior lithium-ion battery technology because of its reliability and successful track record of over 10 years of proven performance in other applications.

Create

Dow Kokam's advanced large format lithium-ion cell technology will be integrated into eCAMION, 48 volt/120 amp hour battery packs designed to power three 250 kWh storage units. eCAMION also sees Dow Kokam lithium-ion batteries as an ideal fit with Toronto Hydro's initiatives in the Smart Community, including installing smart meters on distribution transformers, adopting time-of-use pricing systems, introducing self-healing switches to detect and isolate faults and to reconfigure the distribution network to minimize the number of customers impacted.

Deliver

Utilities are facing the dual challenges of increasing consumer demand and the need to integrate new, renewable forms of energy; the demonstration area in Toronto where the Dow Kokam/eCAMION technologies are being tested currently services tens of thousands of customers and is expected to grow by as much as 500%. This Community Energy Storage will span approximately three years and is a major step in enabling the reduction of coal-fired and other emissions intense electricity generation in the Province and potentially globally in favor of renewable energy sources such as wind and solar. The Dow Kokam/eCAMION lithium-ion battery energy storage system meets both needs by supporting both renewable and reliable power within the smart grid network.



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