

A World Leader in Innovation
Come and grow with us!

SAMSUNG'S SMART ENERGY STORAGE PROJECT

THE CHALLENGE

How to integrate, store and dispatch renewable energy for large users while shaving peak demand to save costs – and – how to make such a system exportable in a plug-and-play platform to other jurisdictions.

THE APPROACH

In partnership with Samsung Renewable Energy Inc., Summerside is building a smart energy storage system, integrating the City's solar power with other renewable and conventional energy sources. The system consists of over 1,500 solar panels generating 600,000 kWh per annum and a lithium-ion battery that will store 890 kWh of electricity with a 250 kW power transfer capability.

This is a demonstration project that will also serve as a model for other communities in North America who wish to collaborate for long-term energy cost savings and environmental benefits.

THE RESULTS

This project is expected to shift energy use in Summerside's Credit Union Place from on-peak to off-peak by a volume of 324,850 kWh per year. It is estimated to save the facility over \$100,000 annually and reduce GHG emissions by 500+ metric tons. This project is currently under construction with completion slated for Fall 2017.

BACKGROUND

The overall objective of this first-in-Canada demonstration project is to validate technology for the development of renewable energy systems that can be deployed in the most remote or energy challenged regions of the world.

SEE OVER FOR MARKETING YOUR OWN INNOVATION



LIVING LAB

City of Summerside
Prince Edward Island

About the Summerside Living Lab

A Living Lab is a platform for industry to collaborate with government in exploring real-world issues and demonstrating how innovation can provide solutions. The overarching goal of Summerside's Living Lab is to advance innovation and create export development opportunities in partnership with early start-ups or established enterprises, while assisting the City's growth.

The Lab brings together partners with a shared vision that will produce results for those who wish to build business models for advanced deployment in earlier stages of product life.

With its unique and empowering infrastructure, Summerside is a test bed for firms looking to develop real market solutions, validation, and full-scale deployment of products and services.

In Summerside we understand...

- ▶ **The Problem:** A Business faces challenges validating its technology through rapid testing, prototyping and commercialization. Providing product credibility presents a major barrier.
- ▶ **The Solution:** A municipality devoted to reducing development time and validation in a fail-fast/fail-cheap environment — a unique opportunity for rapid commercialization.
- ▶ **The Bottom Line:** Summerside provides a robust and sophisticated environment with a unique range of empowering assets including its own electrical company, renewable energy and fibre optic network. It operates in a completely open and mutually beneficial collaborative manner.

Come and grow with us!

If you are interested in validating your technology for North American markets:

CONTACT

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