

A World Leader in Innovation
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STASH'S HEAT PUMP ENERGY STORAGE PROJECT



THE CHALLENGE

Heat pumps greatly enhance the thermal demands of home comfort but put a huge strain on the grid during peak hours. The need is for a cost-effective storage solution.

THE APPROACH

Stash Energy Inc. came to Summerside Electric with a prototype integrating smart grid communications technology. The company was looking to pilot and validate its system as a means of reducing peaks in demand and offering savings to consumers.

THE RESULTS

Stash connected two systems to Summerside's electric grid in 2017 for a four-season testing cycle. It is expected this technology will reduce the cost of home heating and cooling by 30%. Moreover, utilities such as Summerside Electric can leverage their smart grid technology to manage consumption and prioritize energy from renewable sources.

BACKGROUND

Stash Energy Inc. was formed in the Technology Management and Entrepreneurship program at the University of New Brunswick School Of Engineering. The company was founded by the three recent graduates who created the technology. The Stash system is controlled electronically through a web-based server, which provides control to utilities while prioritizing comfort. It allows the utility to reduce their load during peak times and artificially increase the load to store excess renewable energy. It also allows for homeowners to remotely control their system through a personal computer or mobile device. Utilities and partners will purchase systems in bulk from Stash and sell to homeowners.

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

Mike Thususka Ec.D.

Director of Economic Development

City of Summerside Economic Development
275 Fitzroy Street, Summerside, PE C1N 1H9
ph.: +1 (902) 432-0103
mike@summerside.ca
www.bigpossibilities.ca



Prince Edward Island
Canada



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