

## **Summerside partners with Stash Energy Inc. under Living Lab Program to Accelerate Heat Pump Systems Energy Storage**

Utilities around the globe understand the core problem of managing electricity demand fluctuations throughout the day with peaks in the morning and early evening. To manage these fluctuations, utilities need to run more generating stations, which significantly increase operating costs and require more investment in new infrastructure and an increase of CO<sub>2</sub> emissions.

To address one aspect of peak demand drivers, Summerside and Stash Energy have partnered in a pilot unique system: Heat pump storage technology. The Stash Energy Storage system works with conventional heat pumps to thermally store off-peak energy for use during peak times, thus avoiding purchasing additional expensive power. The thermal energy is stored within environmentally friendly materials, using affordable technology. Similar to the City's Heat for Less Program, this pilot project looks to test common appliances and heat pump systems within a municipality for innovative ways to lessen the impact on the Utility. This evolving technology could reduce the cost of home heating and cooling by an additional 30% over heat pumps alone as well as leverage Summerside's investment in smart grid technology to manage two-way energy consumption and usage and maximize renewable energy sources.

Summerside's Living Lab platform is founded on open and accessible infrastructure capable of accelerating enterprises' and innovators' commercialization cycles, to assist with product/service evaluation and to reduce research and development time. Access to key decision makers with quick turnaround times is a key feature of Summerside's lab platform, the City understands the importance of speed in business. Summerside's living lab is premised on the following:

## **Problems:**

Technology driven Businesses have challenges in validating their technology in an infrastructure of real world environment concerns when undertaking rapid testing, prototyping and commercializing. The ability to provide credibility to the end consumer in the validation of their product offering is often a major barrier.

## **Promises from Summerside:**

If interested in partnering with a municipality to reduce the development timeframe and the obstacles of validation towards commercialization and to increase business cycles within a fail safe affordable environment, Summerside is in a position to deliver the ecosystem and networks required to achieve commercialization success in opening up North American Markets.

## **Proof:**

The City's robust and sophisticated environment and assets include an electrical company, renewable energy and fibre networks all available in an open and mutually beneficial collaborative model to support enterprise validation.

This pilot project will see two units installed at Summerside's makerspace on Greenwood Drive. Work is expected to begin in Mid-March.

## **About Stash Energy Inc.**

Stash Energy Inc. is a spin off from the University Of New Brunswick School Of Engineering of three recent graduates who created an energy storage company based in Atlantic Canada. Stash is committed to developing a cost-effective system that works with conventional heat pumps to store thermal energy.

To learn more about Stash Energy, visit the website at <http://stash.energy/>

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