

**A World Leader in Innovation**  
**Come and grow with us!**

## **AMALGAMATED DAIRIES AND THE SMART GRID PROJECT**



### **THE CHALLENGE**

How to contain and reduce the cost of energy needed to heat process water for the production of Amalgamated Dairies Limited (ADL) products — milk, ice cream, butter and cheese — and reduce dependency on non-renewable energy sources.

### **THE APPROACH**

ADL worked directly with the City of Summerside Electric Utility to enable the control of its energy consumption through the use of thermal storage units. After a full engineering feasibility study, 160 KW of thermal storage furnaces were installed to pre-heat process water.

### **THE RESULTS**

ADL not only reduced electrical costs while decreasing its use of diesel, it maximized the use of clean wind energy through the City's Smart Grid Project ... and with an installation payback of just 14 months.

### **BACKGROUND**

In addition to lower operational costs, the Smart Grid Project has enabled ADL to provide data to the growing numbers of customers who take into account their suppliers' sustainability initiatives when making purchase decisions. It has also enabled the company to more closely monitor and react to its energy usage. ADL regards the continued expansion of the City's Smart Grid Project as a valuable tool for further reductions in operational cost and increasing opportunities for the use of green energy.

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## 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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