

Smart Retail Controls (SRC) generate \$1.6MM in savings since 2018 pilot

The Challenge

Most traditional control platforms are geared towards medium to large buildings. BGIS needed a scalable solution to resolve the inability for remote and real-time connectivity. The goal was a scalable solution to deploy across CIBC's wide network of buildings, with 24/7 visibility to decrease response time on HVAC equipment errors.

The Solution

SRC Roadmap - The Smart Retail Controls 2018 pilot project of 30 sites.

Site selection based on:

- Energy consumption
- Maintenance and repair history
- GHG reduction potential
- 5-year payback

As of July 25th 2022 - 350+ SRC projects with an average savings ~20% total electricity consumption.

BENEFITS:

Remotely Resolved Approximately 23% of all requests from 2019-2020.

- **Remote Diagnosis:**
 - Decreases response time
 - Reduces operating costs
 - No technician dispatched
 - PANDEMIC CRITICAL - Enables remote HVAC schedule changes aligning with occupancy schedules

Maximized occupant health and efficiency

- **Indoor Air Quality Monitoring**
 - Through the RCC, CO2 levels are kept under 700ppm
 - Maintained through the utilization of the economizer on RTUs
 - Enables optimal performance

Energy Savings realized by:

- Adjusting temperature setpoints during unoccupied hours
- Interlocking the heating and cooling systems to prevent climate combat
- Controlled secondary baseboard heating to prevent unnecessary operation

Scalable Solution. Average savings continuing to increase as more sites are added to the SRC program

Measurable Outcomes

	Description
Challenge	Design a scalable solution to deploy across CIBC's wide network of buildings, with 24/7 visibility to decrease response time on HVAC equipment errors.
Solution	The Smart Retail Controls 2018 pilot project of 30 sites
Energy Saved	2018 to 2020 - Totalling \$1.6MM in savings since 2018 pilot
GHG Reduction	110 tonnes of CO2
Cost Savings	2018 to 2020 - Totalling \$1.6MM in savings since 2018 pilot
Capital cost	\$300K
Simple Payback	8 years