

Description

The Durham Catholic District School Board (DCDSB) is undertaking targeted energy efficiency upgrades in partnership with Enbridge at three of its least efficient schools.

The primary goal of this project is to reduce natural gas consumption by at least 20% over the next three years, supporting a more sustainable future for students and the broader Durham Region.

Operational Improvement

- Optimizing outside air damper controls during unoccupied and partial occupancy hours.
- Tightening schedules for Air Handling Units (AHUs) and Domestic Hot Water systems.
- Retro-commissioning BAS to resolve control issues that caused unnecessary HVAC Runtimes.
- Adjusting and tuning equipment control sequences.

Outcomes, Benefits, and Progress to Date

- Enbridge installed the metering devices at no cost, and our in-house team was able to integrate the meters with our Existing Building Automation Systems.
- Preliminary weather-normalized data collected over nine months shows more than 20% reduction in gas consumption from baseline levels across all three schools.
- Enbridge audits gas consumption annually and provides rebates proportional to achieved savings. Funds are reinvested into additional metering and energy efficiency projects.
- Approach can be replicated across more schools and used as a model for broader energy management initiatives.

School Building HVAC and Utilities Dashboard



Gas Meter for HVAC Operational Controls in Building Systems



Long-term Vision and Sustainability Commitment

- Expanding efforts to include air measurement and balancing of AHUs to ensure equipment operates efficiently at designed flow rates.
- Installing gas metering at two additional schools in 2025.
- Applying program insights to drive energy savings across the entire school board portfolio.
- Continuing to leverage innovative partnerships and operational improvements to advance our long-term sustainability goals.

Enbridge Metering Integration Drives Over 20% Reduction in School Gas Consumption, Enabling Ongoing Rebates and Energy Efficiency Investments

