

Client Success Story

School Board

Managers at this School Board are not allowed to endorse manufacturers in writing. The interview is factual and the names have been changed.

References are available upon request.

Solution At a Glance:

The School Board turned to Log-One Ltd. for help in regaining control over heating and cooling energy bills in their portables, which represent a large portion of their energy expense. John of the Capital Development Department admitted their previous solution of using Honeywell programmable thermostats allowed tampering, which resulted in heating and lighting being left on 24 /7 and on weekends.

The Log-One Green Thermostat provided a simple, easily installed solution to combat abuse and escalating energy costs. "When the Log-One went in, the power consumption for portables dropped dramatically after 4pm when the classrooms were empty and the lights and heat went off", declared John. Therefore power consumption goes down automatically during peak demand periods (from 4-8 pm), which provides substantial energy savings to the board.



The Challenge:

"We had lost control of energy costs in our portables", declared John from the *Capital Development Department* . Even at the best of times, school portables are inherently difficult buildings to maintain, as they have typically 4 walls and a ceiling exposed to the elements. Not only are these buildings a large portion of the board's expense, but they promise to continue draining the budget as energy costs continue to escalate.

John's greatest challenge was to find a solution which would not only enable the board to regain control of energy usage, but also to provide in-room comfort to teachers and students while cutting down on expensive maintenance issues. "We were using standard Honeywell programmable thermostats fitted with clear plastic covers over them to try to block the controls", said John. "However, teachers were able to remove the covers or adjust the thermostats through gaps in the covers, resulting in portables running at 80° all of the time. Frequently neither lights nor heating were turned off or down after 4 pm, which resulted in the energy meter running 24/7, and often on weekends and holidays".

We Were Sceptical:

The School Board felt that new or better programmables were not a viable solution, as they did not have the manpower to go out to each portable to re-program them, and then maintain the units. Dealing with 570 thermostats in 180 locations could represent a full time job, something which was definitely not in the budget.

What We Needed:

“From our experience with programmable thermostats, we understood the importance of choosing a solution which would require no programming, would be easy to install and require no maintenance, and which had the necessary smarts to provide the required savings. We also needed it to be easy to use for both teachers and caretakers”, explained John.

The Solution

The School Board found its solution in the Log-One Energy Management System (EMS). When they went to tender, they received responses from many other firms, as well as Log-One. As John explains, “no one had the capabilities of the Log-One thermostat – the internal smarts, and the ability to manage occupancy. Log-One was clearly the best fit.” Instead of doing a lengthy field data trial, the School Board opted to use energy saving data from a similar retrofit done at the Dufferin-Peel Catholic District School Board, thereby capturing immediate savings.

Each portable was outfitted with a Log-One Green Thermostat™. Extremely user friendly, it allows teachers and maintenance staff to make temperature adjustments within set limits, thus giving them a measure of control. In each portable a motion detector works in conjunction with a door contact to ensure heating, ventilation, cooling and lighting are controlled according to numerous parameters, including occupancy and a pre-loaded schedule specific to school boards’ needs.

The Results:

“Savings were dramatic” enthused John. “In cases where schools had numerous (10-20) portables, the power bills “fell off a cliff”; they dropped straight down and stayed at a new low level. It was as if we had chopped off a third of the school”.

Data collected from the School Board in one school where all the classrooms were individually sub-metered, indicated savings of \$900 per classroom achieved in a 7 month period, representing an equipment payback of less than 6 months. Additionally, the Log-One Green Thermostats rated high in manpower savings, allowing the board to use valuable maintenance resources elsewhere.

From John’s perspective, Log-One demonstrated “triple A service” in how they responded to concerns and provided support and staff training.

Not only does the Log-One solution provide teacher/student comfort, increased control and cost savings, it also scores high marks for being an environmentally sound answer to our growing concern over our planet’s resources.

Contact: For more information on our line of products and services, please visit our web site at www.log-one.com

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More on Log-One Green Thermostat Solutions...

For the past 10 years Log-One has helped many school boards save millions of dollars on their energy bills.

For school boards and facility managers like you who need to reduce energy costs, Log-One has developed and patented a line of highly intelligent Energy Management Systems.

Unlike building automation systems which cost thousands of dollars, and unlike programmable thermostats that require a high level of maintenance to maximize comfort and energy savings, Log-One EMS provides a high-level of individual room control while delivering market-leading energy savings.

Some of the benefits our customers see are:

- Increased control of energy bills
- Energy savings typically above 36% (without including Peak kW demand).
- Pay back of under 2 years, and sometimes even under 1 year.
- Simplified installation: Installations are significantly less complex than Building Automation Systems
- Reduced maintenance costs: maintenance costs are almost non-existent and significantly less than PIC or Honeywell programmable thermostats.

