



Program Benefits

The Energy Management Tool (EMT) allows municipalities to take control of their energy costs and opportunities by tracking consumption, benchmarking facility performance, measuring and verifying savings from energy conservation projects, monitoring processes, and by enabling environmental stewardship goals including greenhouse gas (GHG) reductions. Municipalities with interval meters will also be able to utilize the software to manage accounts in real-time.

The EMT is designed for municipalities who want access to a robust and current software tool but wish to enter all data, and generate reports themselves. However, the EMT is also available to municipalities who would rather have all data inputted and reports generated by LAS and exported to municipal users on a pre-determined basis. These are our self and full serve options, respectively.

The EMT is a customized version of the PowerLogic ION EEM enterprise energy management software developed and supported Schneider Electric – an industry leader. Schneider has worked closely with LAS staff to make enhancements to the EMT so that it is meaningful for municipal energy needs (i.e. to allow for the tracking of emissions and other key indicators).

The EMT includes access to user-defined Dashboards, Trend Analysis and Reporting modules, and incorporates Cost Allocation, Bill Estimation Modules, and Greenhouse Gas Reporting Modules. Collectively this results in tool that is ready-to-use and robust enough to satisfy the energy management needs of most municipalities for years to come.

The EMT has been implemented, proven, and is being utilized in various capacities by numerous municipalities. The EMT is hosted by LAS and is made available via the internet through a web portal. Using this tool, your municipality can provide access to as many users as desired. You can assign a local administrator to determine who will have access to your municipal information, and also determine what access level they will have.

Below are some select features of the tool and what it can do for your municipality:

- ✓ **Allow you to audit energy savings to verify promised savings by third parties**
 - Energy performance contracts and grants need to be verified. The EMT can assist by monitoring before and after conditions and by benchmarking consumption.
- ✓ **Benchmark your facilities against similar buildings within and outside your municipality**
 - Energy and greenhouse gas emission tracking is mandatory in order to establish performance of energy conservation programs and the efficiency of building retrofits. The EMT will enable comparison between facilities to establish best practices.
- ✓ **Interval meters can be connected to the EMT to manage demand control schemes such as load shedding or peak shaving in virtually real time.**

- ✓ **Track Greenhouse Gas Emissions to ensure regulatory compliance and sound environmental stewardship**
 - Determining the carbon footprint of a municipality can be a challenging and time-consuming task. The EMT incorporates Environment Canada emission factors and will support multiple energy emission sources such as electricity, natural gas, and portable two and four-stroke engines.

- ✓ **Generate reports and numerical summaries of operations on any range of data sets**
 - Simple or complex ad-hoc reporting, customized dashboards, plus standard and custom reports allow users to analyze the data according to their specific requirements.
 - **Export reports to desktop applications for further analysis**

- ✓ **Power Quality Analysis**
 - With appropriate metering, the EMT will assist electrical engineers to ensure the power system within a facility is operating to optimal standards to **minimize potential damage to expensive equipment**

- ✓ **Energy Bill Verification to realize possible savings from utility bill errors**
 - The energy bill invoiced from the local distribution company (LDC) is typically paid by municipalities with little verification or auditing. The EMT bill verification module can enable municipalities to track, benchmark, and audit their utility bills.

Testimonial:

“The EMT system has been an invaluable tool for managing and providing information required for the Corporation to assess its strategic initiatives related to energy management... We believe that our continued partnership with AMO-LAS provides us with a strategic advantage in managing our valuable energy resources.”

**Bernie Edwards - Facilities & Fleet Department
City of Thunder Bay**

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