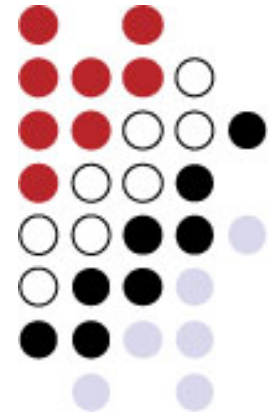


Energy Management for Municipalities—LAS' EMT



Scott Vokey
Energy Services Coordinator,
AMO/LAS

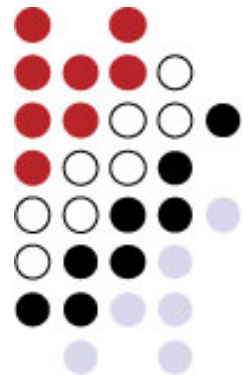


LAS is a wholly-owned subsidiary company
of the Association of Municipalities of Ontario

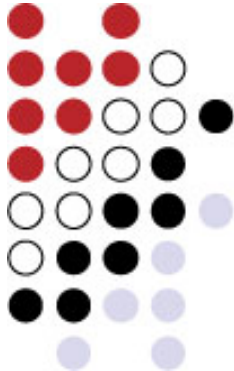
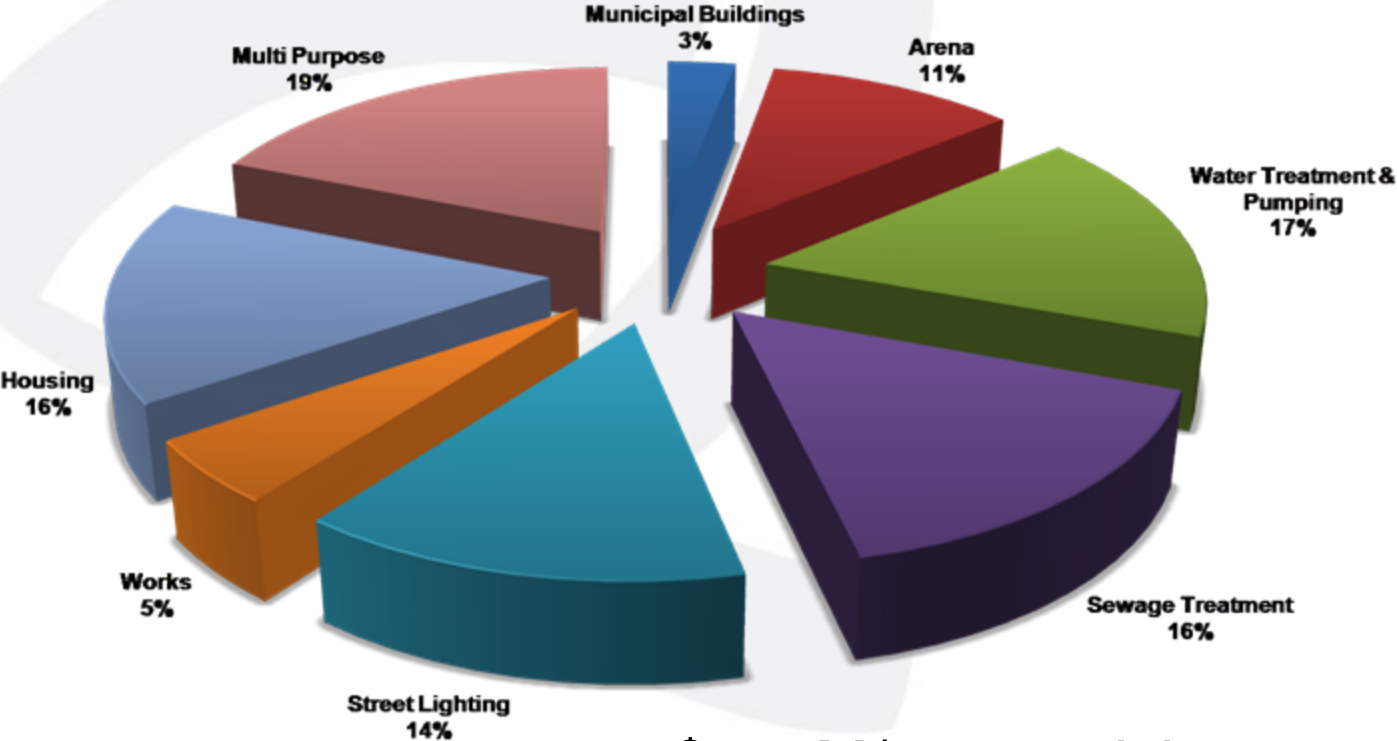
AMO and LAS Overview



- Over 100 years old, AMO represents almost all of Ontario's 445 municipal governments. AMO advocates on behalf of municipal governments on matters of province-wide policy and regulation
- LAS was established in 1992 to reduce the cost of common expenditures and to increase revenues through economies of scale.



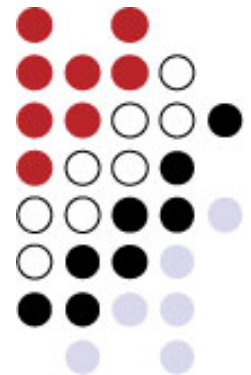
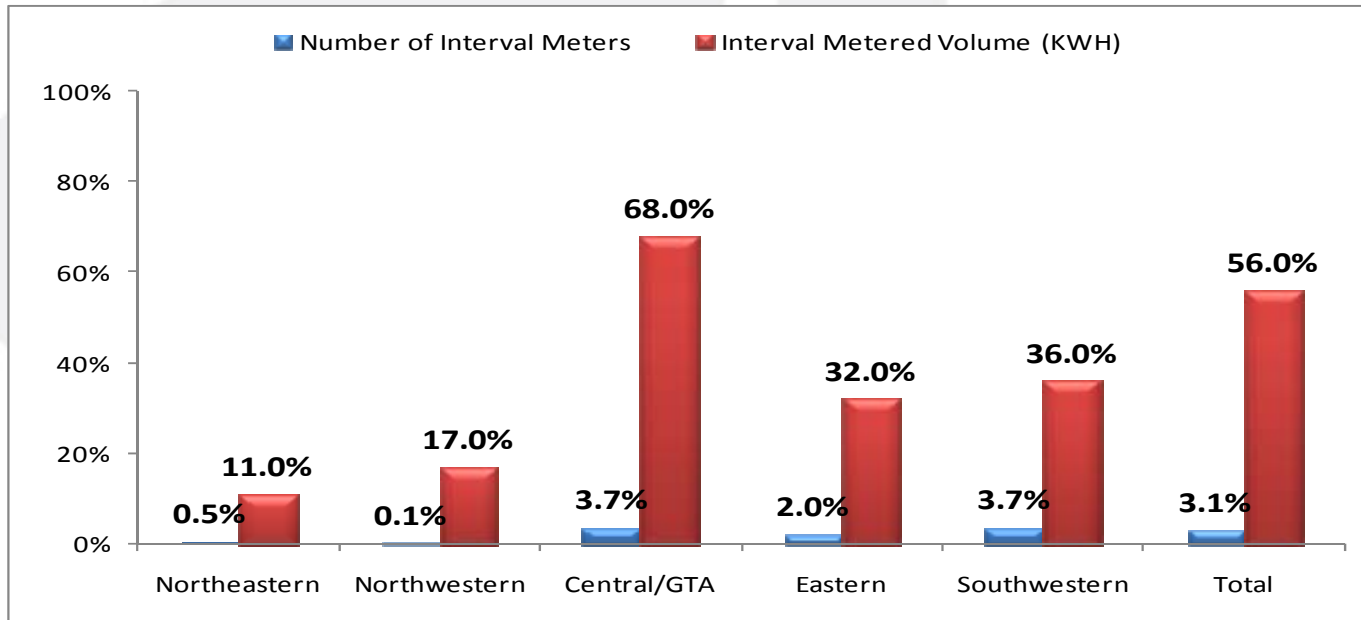
Municipal Electricity Use



- \$680M/yr electricity
- \$275M/yr natural gas



Interval Meters and Volume by Region



- 26,000 electricity accounts/meters,
- only 816 interval meters (~4% factor)



LAS ESD *Energy Suite* programs :

- Energy Procurement
- Energy Management Tool
- Energy Planning Tool
- Solar Photovoltaic Program

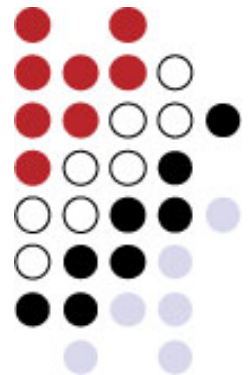


Why Energy Management?



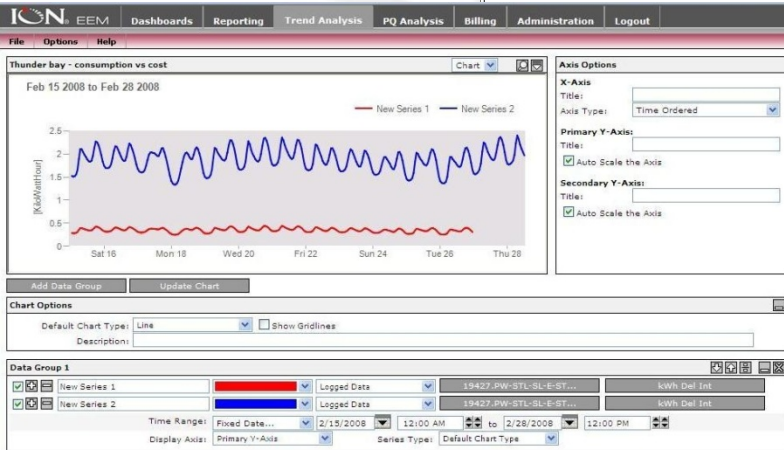
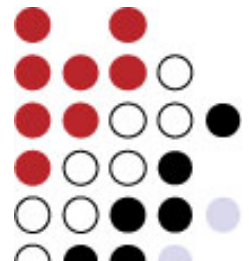
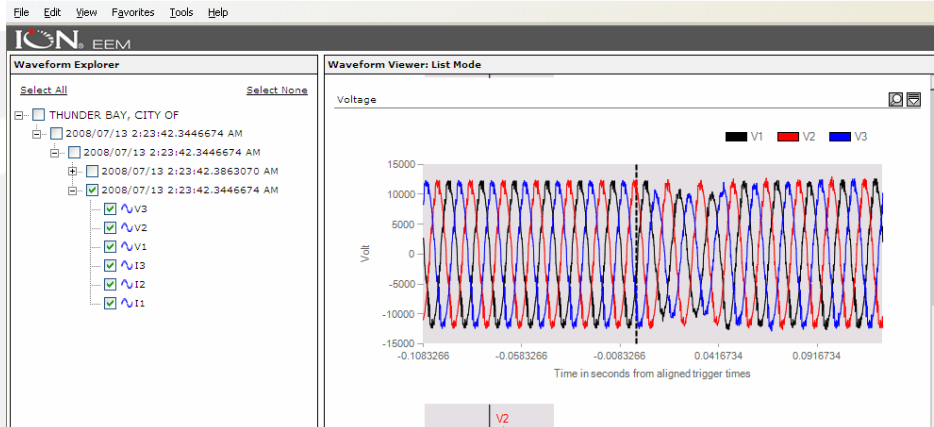
An important core strategy to help sustain economy, resulting in the following benefits:

- Reduced operating costs
- Reduced GHG emissions
- Increased productivity
- Verify energy measures implemented



EMT

The Energy Management Tool



Bill Summary Report

10108.AB-MOB-CC-E-CIVIC CENTRE - City of Brampton - Hydro One

Title	Description	Meter ID	
City of Brampton - Hydro One		10108.AB-MOB-CC-E-CIVIC CENTRE	
Utility	Start Time	End Time	
Hydro One Brampton	Feb 22, 2007 12:00-AM	Mar 23, 2007 12:00-AM	
Tariff Name	Schedule	Version	
General Service < 50KW	General Service < 50KW	30	
Charge Name	Adjusted	Value	Cost
Electricity		kWh	\$1,129.71
First 750 kWh per kW		kWh	
All Remaining kWh		kWh	
Delivery		kWh	\$570.88
Regulatory		kWh	\$119.67
Debt Retirement Charge		kWh	\$130.20

\$1,950.46

A service offering to meet your energy tracking needs



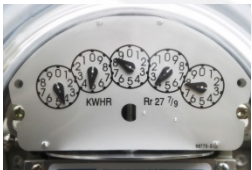
Application hosting



Account and user setup



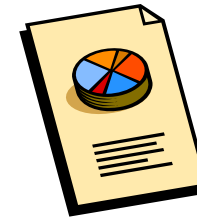
New requirements management



Data entry assistance



EMT software



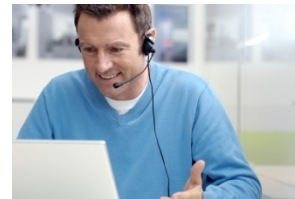
Reporting assistance



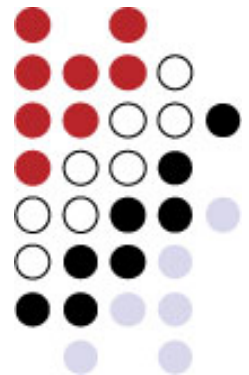
GHG emission factors



Weather data entry



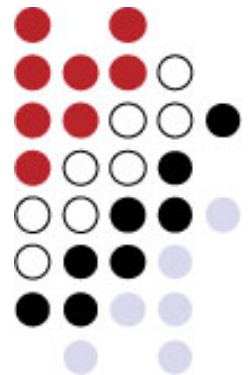
User support and training



EMT—Custom Work



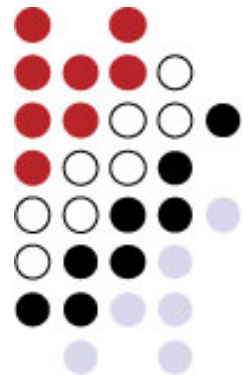
- Greenhouse Gas module
- Environment Canada weather feed
- Node property filtering in standard reports
- Net System Load Shape (NSLS) support



EMT—Custom Work



- Cost allocation ETL adaptor
- Data Presence report
- Custom DB loader (alter meter source names)
- Small Engines emissions tracking



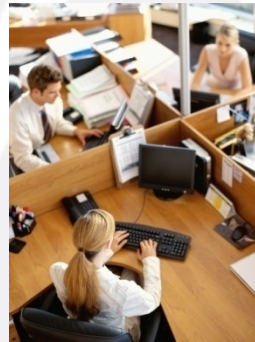
Multiple ways to load data into the tool



Acquired from a third-party



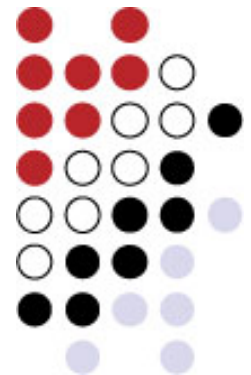
Loaded electronically by LAS



Entered manually by LAS



Entered manually by you



Direct feed from an interval meter



EMT - Governance



Municipal Implementation Committee

City of Brampton—Dale Pyne

ORFA –John Milton

Region of Durham—
Christine Dejan

City of Orillia—
Bruce Duncan

Town of Goderich—
Larry McCabe

Town of Richmond Hill—
Saroj Acharya

Municipality of Greenstone-
Jack Kuzminski

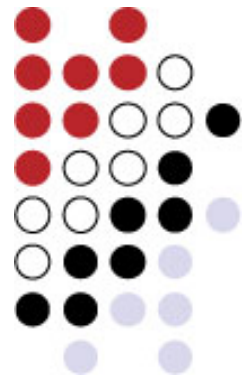
City of Thunder Bay—
Bernie Edwards

County of Grey—Tim Dean

Region of Waterloo—
Brian Bechtel

Town of Oakville—Gary
Robinson, Suzanne Austin

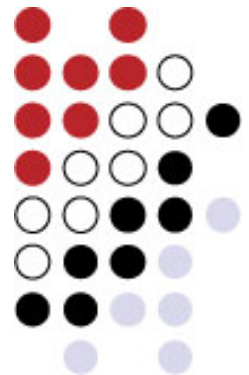
Region of York—Tom Vali



Status Update



- Pilot involving over 30 municipalities concluded this past summer
- LAS now enrolling municipalities on monthly subscription basis
- Custom work continues; links being built to house Benchmark data and connect to Energy Planning Tool (EPT)



For Additional Information



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