## Municipal Energy Profile – How Far Have We Come, and What's Next?

Presentation for the Municipal Corporate Energy Managers Webinar

Vicki Gagnon, Business Manager, Public Sector Conservation, IESO

September 8, 2017

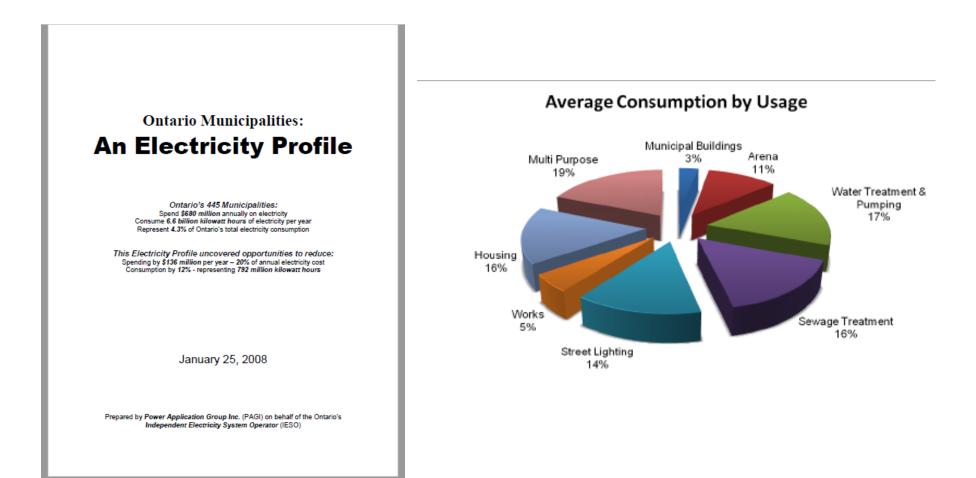


## Outline/Agenda

- 1. Municipal Energy Profile Objectives
- 2. Municipal Energy Preliminary Data Analysis
  - Consumption per Capita
  - Municipal Electricity Profile: 2006 vs. 2014
  - LED streetlights don't lose momentum!
  - Energy Efficiency: Municipal Participation in Save On Energy
- 3. Municipal Energy Profile Next Steps



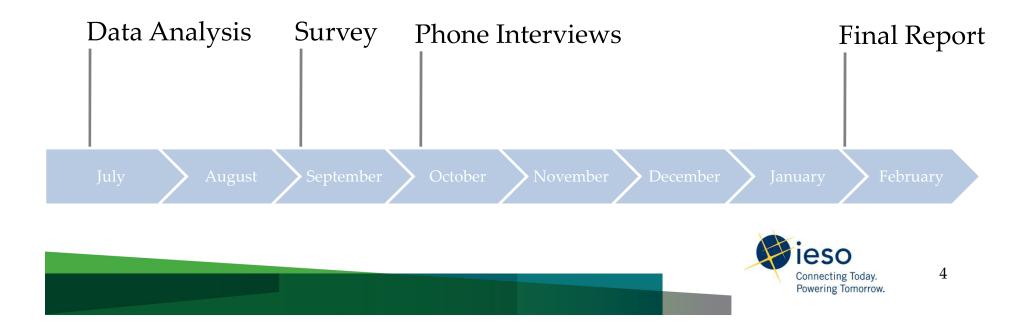
#### **Ontario Municipalities: Electricity Profile January 2008**



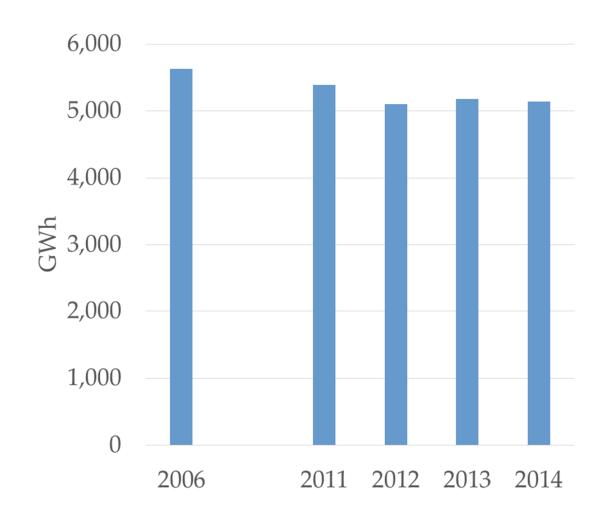


## **Municipal Energy Profile Study Objectives**

• **Objective:** Develop an energy profile for municipalities in Ontario to observe any changes since the last profile, and to assess short-term (2020) and medium-term (2030) outlook and opportunities



#### **Municipal electricity consumption**

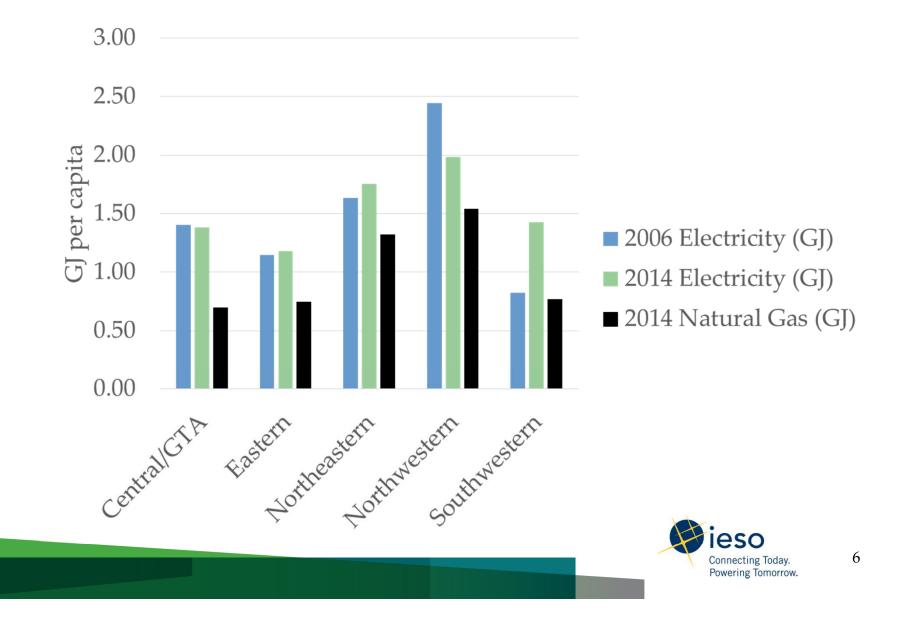


- In 2006, municipalities (excluding social housing) represented
  3.7% of Ontario's total electricity consumption, or 5,631 GWh\*
- In 2014, municipalities (excluding social housing) continued to represented 3.7% of Ontario's total electricity consumption, or 5,139 GWh (10% reduction)

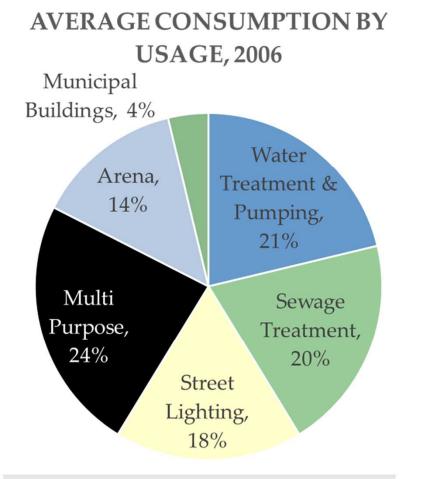
\*Ontario Municipalities: An Electricity Profile, 2008



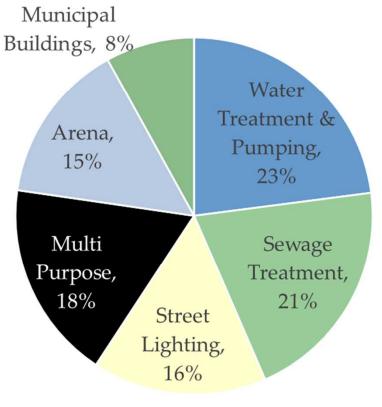
#### Municipal energy consumption per capita



#### Municipal electricity profile: 2006 vs 2014



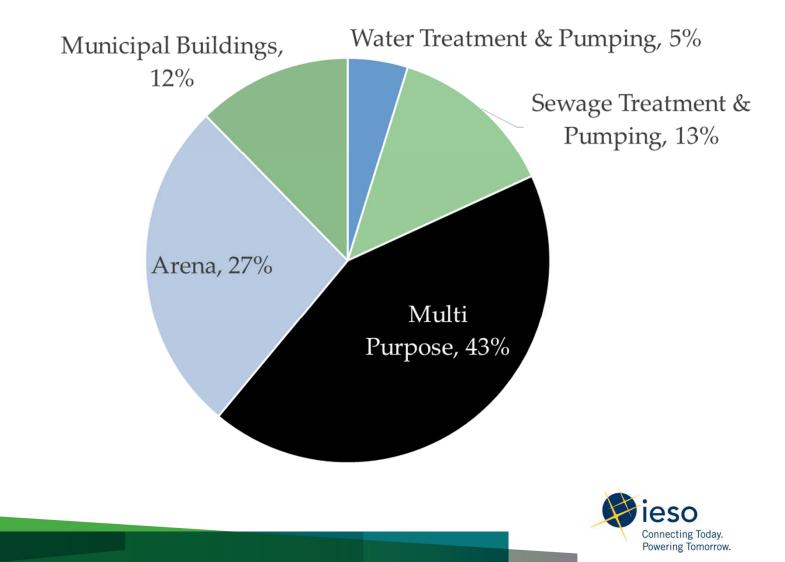
AVERAGE CONSUMPTION BY USAGE, 2014



\*Ontario Municipalities: An Electricity Profile, 2008



## Municipal natural gas profile: 2014



## LED street lighting – don't lose momentum!

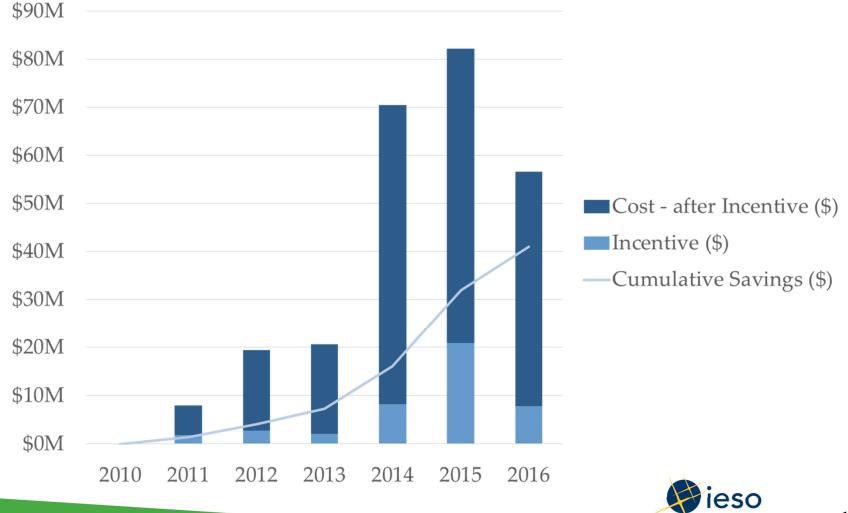




- At least **74%** of municipalities and municipal service boards have completed at least 1 project under Save on Energy
- Municipalities have received approximately \$49M in incentives, and saved 330 GWh to date
- **91%** of these incentive dollars were delivered through the Retrofit Program



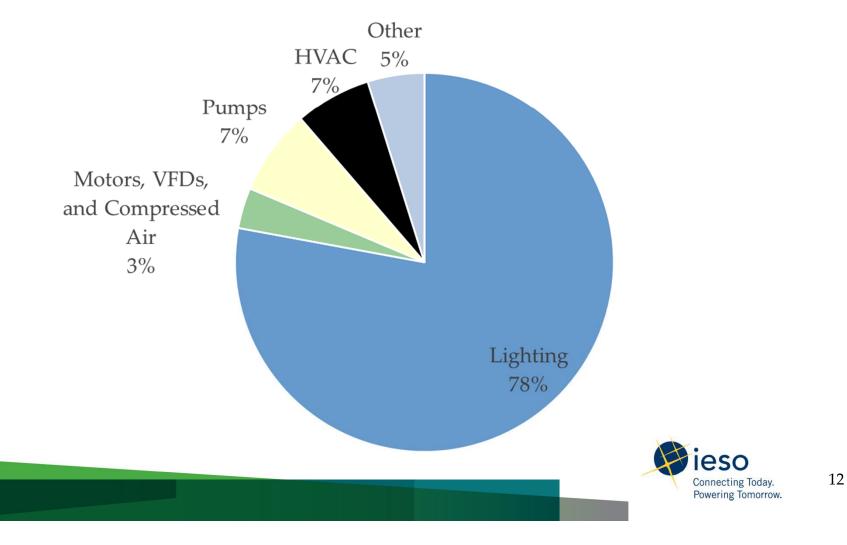




Connecting Today. Powering Tomorrow.



#### MUNICIPAL ELECTRICITY SAVINGS FROM THE RETROFIT PROGRAM TO DATE, BY MEASURE



# **Building Capability in Municipalities**

- Municipalities have demonstrated a strong level of engagement in energy efficiency through their participation in various capability building initiatives
  - Since 2013, 20 municipal organizations received funding through the IESO's Training & Support initiatives to receive industry recognized training and accreditation, such as Building Operator Certification and Certified Energy Manager training
  - There are currently 15 funded Energy Managers (12 situated in municipalities, 3 situated in social housing organizations)





## What does this all mean?

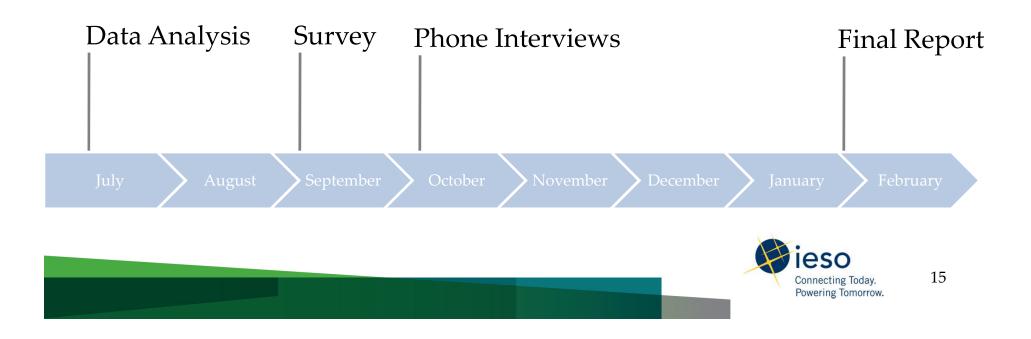
- Municipalities are now more empowered on decision-making on community energy planning and playing an increasingly important role maintaining a reliable electricity supply
- Municipalities are leveraging technologies and efficiency measures to control operating costs and enable more self-sustaining energy options
- The IESO is playing a role in facilitating innovation and the use of emerging technologies, energy saving technologies
- □ There are still opportunities for savings



### Municipal Energy Profile Study Next Steps

• **Municipal participation in the forthcoming survey** will help inform the development of initiatives and support programs which will help your municipality achieve its energy conservation goals.

For more information, please contact Vicki Gagnon (Vicki.Gagnon@ieso.ca) or Katelyn Brunskill (Katelyn.Brunskill@icf.com)



Thank you! – *Any Questions?* 

Vicki Gagnon Vicki.Gagnon@ieso.ca

Katelyn Brunskill Katelyn.Brunskill@icf.com

