

Corporate Energy Management Program and Conservation and Demand Management (CDM) Plan

Prepared for Civic Works Committee July 21, 2014





2011-2014









RESULT: A GREEN AND GROWING CITY

How do we know that our city is green and growing?

- Sustainability Londoners making environmentally friendly choices, including transit modes
- Consumption waste diversion, energy conserved, greenhouse gas emissions
- Nature Protection leaf cover, watershed health, green space and biodiversity
- Responsible Growth assessment growth, population and housing density

Our Strategies:

- Protect our a darat heritage and environment
- Promote a "green culture" and the fundamentals of sustainability
- Reduce carbon footprint through wise actions that benefit our local, regional and global environment
- Develop wall. He connected communities with great public spaces.
- Facilitate, plan and manage grantle for the greatest long to me hanofit of all
- Demonstrate environmental leadership in all municipal operations
- Establish London as a leαder in green technologies



Corporate Energy Management Program

- 1. Track, monitor, take action
- 2. Renewables
- 3. LEED Buildings and components
- 4. Conservation & demand management
- 5. Procurement
- 6. Culture of conservation





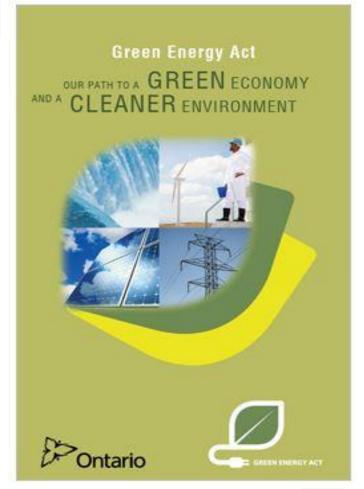




Green Energy Act, 2009

Ontario Regulation 397/11

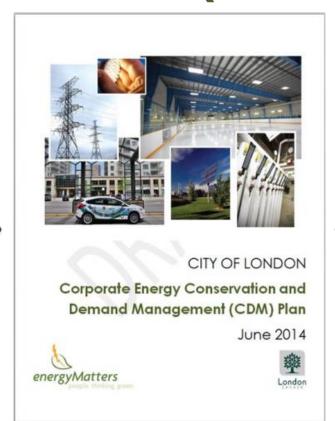
- Establish baselines for past and current energy management activities
- Create a strategy for energy reduction targets towards the five year CDM plan





Conservation and Demand Management (CDM) Plan

CITY OF LONDON CORPORATE ENERGY PROGRAM



MINISTRY OF ENERGY CDM PLAN REQUIREMENTS





Key Principles in Preparing Plan

- Budget no new budget; maximize existing
- 2. Incentive Opportunities maximize
- 3. Economic Development/ Business Opportunities
- 4. Level of Commitment
 - ... and Ministry of Energy Requirements







How have Corporate Service Areas been Engaged?

Directly involved:

- Long tem goals
- Current status of actions
- Identify proposed actions
- Place in two time periods:
 - -2014/2015
 - -2016-2019









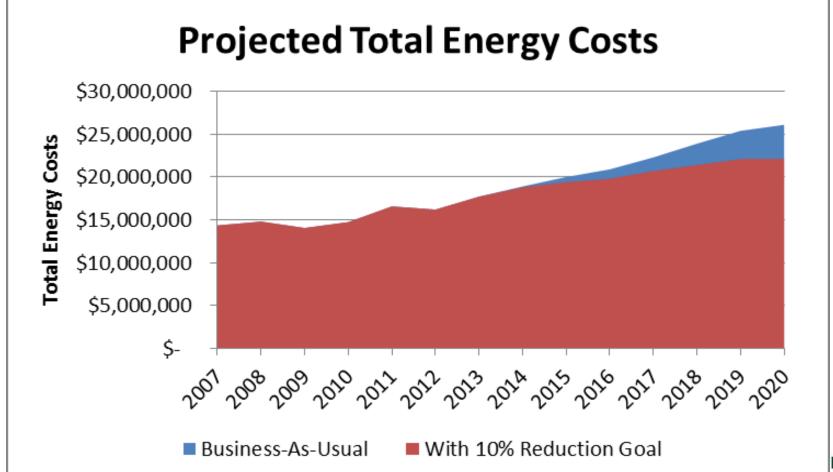
How are we going to be better off?

10%

The 5 year CDM Plan proposes a goal of an additional **10%** reduction in overall annual energy use by 2020

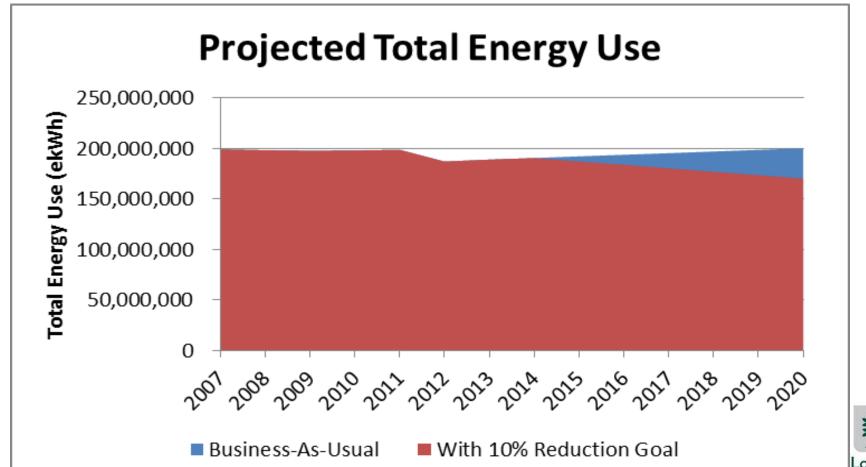


ENERGY COST AVOIDANCE of approximately \$4 million per year by 2020



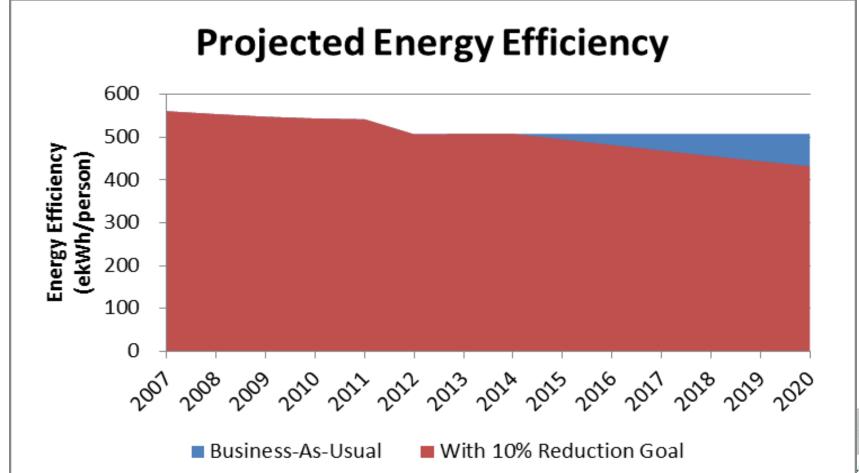


ENERGY USE REDUCTION of approximately 30 million ekWh per year by 2020



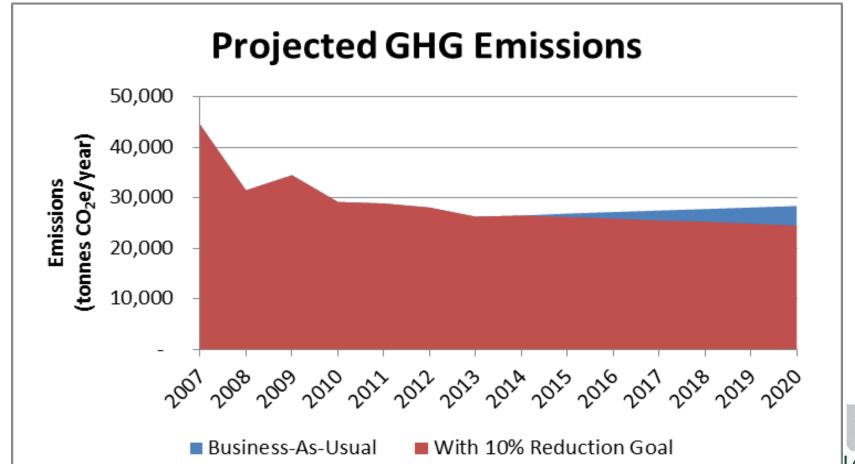


SERVICE DELIVERY ENERGY EFFICIENCY improvement of 15% annually by 2020





GHG REDUCTION INCREASED by approximately 3,900 tonnes annually by 2020







How will the CDM be implemented?

35 measures/actions in

- 4 prescribed categories:
- 1. Tracking and Monitoring
- 2. Technical
- 3. Organizational
- 4. Behavioural

To be implemented in two time periods:

- 2014 and 2015
 (13 measures/actions)
- 2016 to 2019
 (22 measures/actions)





What will it cost to implement the CDM Plan?

- No additional budget requested to implement CDM Plan
- Maximize existing budgets identified in asset renewal projects
- Utilize existing Corporate Energy Program annual budgets

Annual budgets range based on projects:

- Operating = \$300,000 to \$600,000
- Capital = \$250,000 to\$1 million





- Annual progress reporting
- 'Living plan' propose adjustments to maximize benefits
- Celebrate actions and provide recognition







THE CITY OF OPPORTUNITY

