

OPA saveONenergy
“Commercial and Institutional Incentives”
Durham Landlords Association
September 12, 2012



SaveONenergy Program Objectives

- Assist owners and operators of buildings and multi-family residences with incentives,
- To reduce their energy costs through the installation of energy efficient equipment,
- Which, in turn, generate energy savings that contribute to the LDC's conservation targets,
- And assist in the reduction in generation costs for power in Ontario.

Four Incentive Areas

- Funding to conduct “Energy Audits”
- Equipment Retrofit Incentives
- New Construction Incentives
- Chiller Plant Commissioning

Available Business Programs - Audit

Audit



Business (Existing)

- Electricity Survey and Analysis* (Owner)
- Detailed Analysis of Capital Intensive Modifications** (Owner)
- Electricity Survey and Analysis* (Tenant)

• \$0.10/sqft, up to 30,000 sqft, then \$0.05/sqft above 30,000 sqft, to the lesser of 50% actual cost or \$25,000

- Eligible if facility > 50,000 sqft
- Additional \$0.05/sqft, up to the lesser of 50% actual cost or \$35,000 (inclusive of both audits)

- \$0.03/sqft, up to the lesser of 50% actual cost or \$7,500
- Scope = Lighting and tenant equipment

Notes:

(*) Similar to ASHRAE Level 2 Audit

(**) Similar to ASHRAE Level 3 Audit

Acceptable 3rd Party Energy Auditors: P.Eng., CET, CEM

Available Business Programs - ERII

Retrofit



Business (Existing)

- Prescriptive (worksheet-based)
- Engineered (worksheet-based)
- Custom (worksheet-based- exterior lighting)
- Quality Assurance/
Quality Control
- Multi-Family Building Adder

• Fixed payment based on the measure implemented

• Variable payment based on energy saved
 • Set list of pre determined measures
 • \$400/kW or \$0.05/kWh (lighting) \$800/kW or \$0.10/kWh (non-lighting) **

• Any other energy efficiency measure that can demonstrated savings
 • \$400/kW or \$0.05/kWh (lighting) \$800/kW or \$0.10/kWh (non-lighting) **

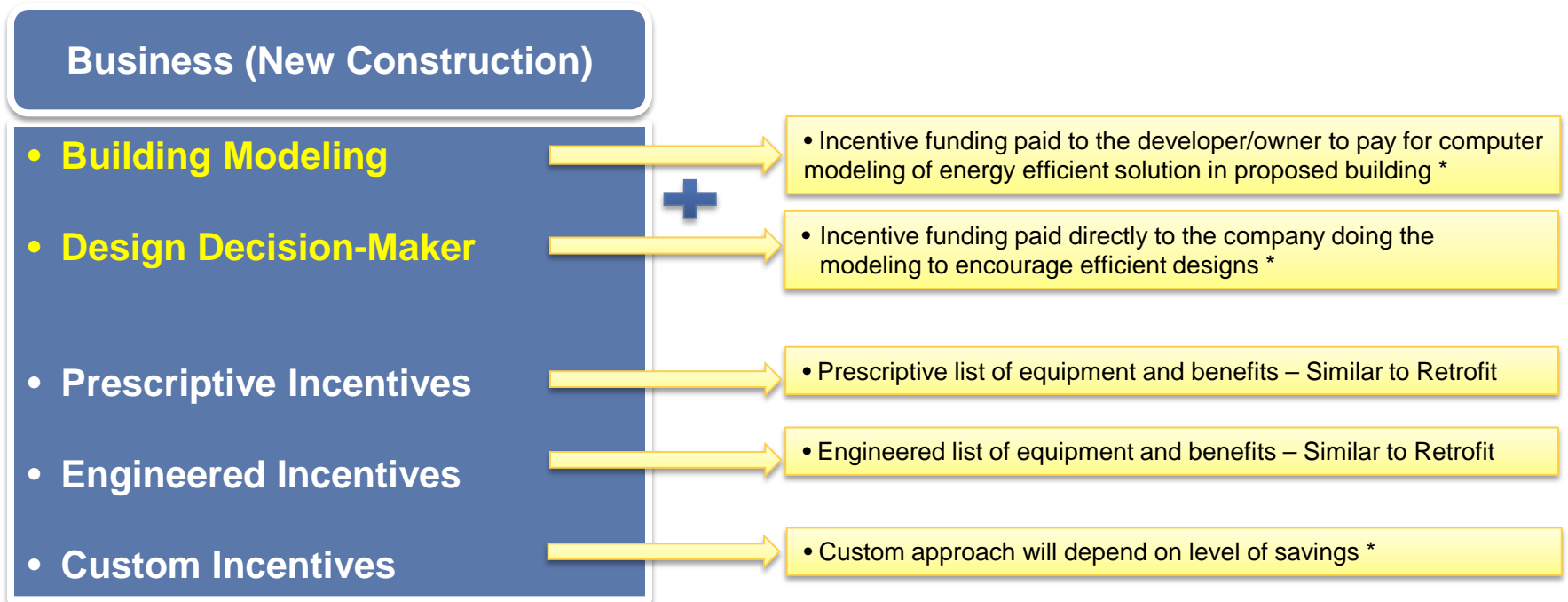
Large Custom Project	Large Project	Small Project
Pre and post site visits + Project M&V Requirements	Pre and post site visits	Pre and post site visits based on random sampling

• Additional \$200/kW up to a maximum of 10% of base participant incentive for tenant education.

**** Incentive Funding for Engineered and Custom Measures are capped at 50% of Eligible Costs**

Available Business Programs - HPNC

High-Performance New Construction



*based on exceeding the electricity efficiency specified in the Ontario Building Code

Available Business Programs

Building Commissioning



Mechanical Cooling Plants

- Includes chiller, pumps, cooling tower, valves, control systems.
- Scoping Study Phase
- Investigation Phase
- Implementation Phase
- Hand off/Completion Phase

Criteria:

- more than 3 yrs old
- cool an area >50,000 ft²
- not have been retrofitted or refurbished within past 3 yrs
- not replaced within next 2 yrs

- Up to \$2,500.

= Reporting Preparation + Data Acquisition System
= **(\$18/ton** up to max. of 75%) + **(\$6/ton** up to max. of 75%)

- Up to \$5,000 Implementing Study Commissioning Report.

Note: Only for efficiency measures with a project payback > 2 yrs

LESSER OF:

- The greater of Energy Savings x \$0.10/kWh, and Demand Savings x \$800/kWh
- 50% of the Eligible Costs of purchasing and installing the Major Measures

- Up to \$2,500.

Eligible Projects (ERII)

Proposed Project Must:

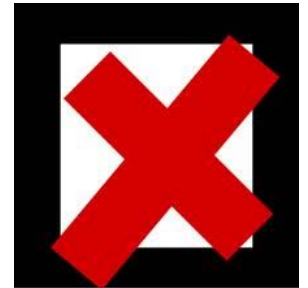
- Not exceed maximum project size
 - \$500, 000 incentive payment
- Contain Eligible Measures¹
- Be installed in a single Facility of the Eligible Participant connected to, or behind the meter of another electricity consumer connected to, the LDC's Distribution System
- Not be an Ineligible Project



¹: Eligible Measures as defined in the Exhibit A Eligibility Criteria

Ineligible Projects and Measures

- Measures that are not generally commercially available, are pilot or demo projects, or are otherwise unproven
- Proposed equipment that is not approved
- Existence of binding commitment to install the project at the time of application.
- Previously participated in the programs for the same measures in the same area of such facility
- Projects that relate to another OPA funded program



Eligible Measures

- Lighting Retrofit
- Equipment Replacement (Chillers, pumps, motors, RTU, etc.)
- HVAC Redesigns
- Variable Speed Drives
- Building Envelope
- Building Automation System
- Lighting Controls
- Tenant Sub-Metering
- Deep Lake Water Cooling
- Ground Source Heat Pumps
- Elevator – Retrofit
- Elevator – Controls



Project Streams

Prescriptive	Engineered	Custom
Lighting, Agribusiness, Alternative Energy, Hot Water, Variable Frequency Drive, Synchronous Belt, Unitary AC, Multi-Residential In-Suite, and Motors	Directional Lighting, High Bay Lighting, Interior Lighting, Compressed Air, Unitary AC, VSD on Fans, VSD on Pumps	Lighting and Non-Lighting Projects

Prescriptive, Engineered and Custom Measures can be combined into the same Project.

Eligible Costs

- **Prescriptive**
 - Material
- **Engineered (+)**
 - Labour
 - Assessment
 - Disposal
- **Custom (+)**
 - Design
 - Project Management
 - Delivery
 - Inspection
 - Documentation
 - M&V



NOTE: Internal labour costs are not eligible **✗**

Project Conditions



- Savings must be sustainable over minimum of 48 months
- Projects with only Prescriptive measures:
 - Min. Incentive is \$100
- Project with Engineered Measures and/or Custom Measures:
 - have a minimum 1kW and/or 2,000kWh Savings

Application Process

Step 1: Register at saveonenergy.ca

Step 2: Complete application

Step 3: Technical Review (Site Visit, M&V Review ... if needed)

Step 4: Pre-Approval

Step 5: Post-Project Submission

Step 6: Post-Project Review (Site Visit, M&V Review ... if needed)

Step 7: Payment Recommendation

Your CDM Incentive Team in Durham

- **Oshawa PUC**

- Willis Energy Services, Chris Gans
- (416) 566-2591, cgans@willisenergy.com

- **Whitby Hydro**

- Joseph Jedinak, CDM Program Manager
- (905) 668-5878 ext. 210, jjedinak@whitbyhydro.com

- **Veridian Connections**

- Pickering , Ajax and others
- Melanie Walls, Key Accounts Representative
- (905) 427-9870 ext. 3257, mwalls@veridian.on.ca

Project Application

1. All cut sheets
2. Worksheet(s) completed
 - Manufacturer, Model #, Quantity
3. Lighting Schedule for Occupancy Sensors
 - For applications where the occupancy sensors are not controlling the min required 300W load
4. Statement of Work
 - Defines exactly what the project encompasses, location, existing conditions
5. Photo's of Project
 - Overall facility or project i.e. plant floor, fixture with lens off, lamp and ballast name plate, motor name plate
6. Detailed Quote for Project Costs i.e. labour, equipment, etc.
 - Quantity, make, model of equipment installed, location of installation, pricing
7. Any letters from landlords for tenant projects
8. M&V Plan (Custom only)

Post Project Submission

1. Revised Worksheet(s) (if necessary)
2. Photo's – New Equipment
 - Overall facility or project i.e. plant floor, fixture with lenses off, lamp and ballast name plate, motor name plate, etc.
3. Detailed Invoice(s) supporting project costs i.e. labour, equipment, etc.
 - Details: quantity, make, model of equipment installed, location of installation, pricing
4. Proof of Payment
 - Copy of cheque, copy of paid invoices, etc.
5. Recycling / Decommissioning Documentation
 - Quantity of lamps, ballasts, by type and needs to reference the facility and date the equipment was picked up.
6. Post project M&V plan (Custom only)

Thank You!

