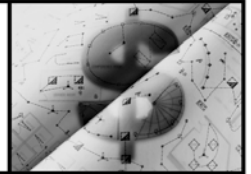


**ELECTRICITY RETROFIT INCENTIVE PROGRAM**

Custom Project Application Guideline

Plan on  
**ERIP****Program Objective and Scope**

The objective of this program is to leverage energy conservation and load management opportunities undertaken within existing buildings within the commercial, industrial, institutional and agribusiness sectors.

Interested parties are directed to the additional terms and conditions in the Project Application form.

**Eligible Applicants**

To be eligible to apply to this program, the following conditions must be met:

1. The Applicant must be a EnWin Utilities customer of a participating or designate Local Utility Distribution Company (LDC)
2. The facility(ies) where the energy conservation or demand response initiative(s) is/are proposed/installed must be within the EnWin Utilities service territory and installed at a site serviced by EnWin Utilities
3. The energy efficiency project is installed within an existing building
4. The energy efficient technologies being installed must not be on an ERIP prescriptive technologies worksheet (lighting, agribusiness, motors, etc.).
5. Applications must include the Applicant's primary EnWin Utilities account number and the account numbers of all facilities as appropriate

**Process and Forms**

The Electricity Retrofit Incentive Program is made up of two incentive options:

- Prescriptive Projects – where rebates are offered for predefined technologies on a per unit or performance basis.
- Custom Projects – where all technology, equipment and systems are evaluated on the basis of their energy performance improvement and an incentive offered based specifically on the level of improvement

This Guideline, addresses the Custom Projects option **only**, for the completion of the Custom Project Worksheet.

The Project Application is the same for both Prescriptive Project and Custom Project applications, and in fact can be used for applying to both at the same time, if applicable to the Applicant. Please refer to the Prescriptive Project Application Guideline and the appropriate prescriptive project worksheets.

The Custom Project Application Worksheet is attached to the Project Application and completed as required to provide the technical and financial justification for application review and approval.

These documents, with supporting documentation as required, comprise the final Incentive Agreement between EnWin Utilities and the Applicant.

**Incentives**

Incentives from EnWin Utilities will be determined based on the lesser of:

- \$400 / kW or \$0.05/kWh saved by Lighting Measures and \$800/kW or \$0.10/kWh saved by Non-Lighting Measures (see calculation procedure later in this guideline)

OR

- 40% of Custom Project Costs (as calculated below)

Note that EnWin Utilities must approve Custom Project incentives prior to project commitment by the applicant. Project commitment means the point at which a contract is signed for construction or a purchase order is issued for implementation of the project. Funds will not be approved for projects retroactively. The Customer may be asked to provide evidence of when project commitment was made prior to release of incentive funds. This can be done by providing a copy of the construction contract, copy of the purchase order, or other appropriate official documentation between the Customer and the contractor/installer.

**Complementary Energy Conservation Programs**

While Eligible Project Measures that received, are receiving or will receive funding in or from any other electricity ratepayer funded provincial, federal or local distribution company program are ineligible for Incentive Payments, the use of complementary programs and incentives is strongly encouraged to further defer the costs of project implementation beyond what the applicant may be eligible for under this program.

**Technical Eligibility**

All technologies and processes that result in a real kW savings and are **not** eligible for an ERIP prescriptive incentive are eligible for application under this program.

Kilowatt (kW) savings can be achieved through any of the following:

- Replacement of inefficient existing equipment with new high efficiency equipment
- Replacement of oversized existing equipment with new “right-sized” efficient equipment<sup>1</sup>
- Implementation of new and efficient operation procedures and controls that result in sustained savings
- Addition of technologies or products that improve the thermal performance of the building envelop such as increased insulation, high performance windows and frames, low emissive window glazing, low emissive barriers for roofs, etc.

Where new technologies or systems are used, they must be considered commercially proven to be energy efficient. Pilot or demonstration projects of unproven technologies are not eligible under this program.

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<sup>1</sup> When replacing oversized equipment, the Applicant will need to certify that the equipment is either being destroyed or sold, or will only be used in a future application where its size and capacity meet the demands of the application.

**Prescriptive Rebates Available**

The applicant should be aware that EnWin Utilities also offers rebates for specific prescriptive technologies. The applicant has the option of applying for incentives using prescriptive rebates and/or using the custom application approach. If the project under this application is solely for a product or technology covered under a prescriptive rebate, then the Applicant must submit their application using the appropriate Prescriptive Project Worksheet for financial support. In that case, an application under the Custom Project Worksheet will be rejected. The Applicant can combine both Prescriptive and Custom worksheets in their application as long as each worksheet details a specific and unique energy efficient option with no overlap to other worksheets. It is the Applicant’s responsibility to determine which

program option benefits them most. For further information regarding availability of prescriptive rebates, please contact EnWin Utilities at 519-255-2888 x330 and speak with Lawrence Musyj..

**Custom Project Costs**

Custom project costs are required for the purposes of determining the maximum eligible financial incentive under the program.

Eligible costs include the following:

- Audit, pre-feasibility assessment costs
- Engineering and architectural design costs
- Project management costs
- Equipment costs
- Installation labour and service costs
- Shipping and delivery costs
- If not tax exempt PST; and
- Import duties, levies,

Costs not eligible include:

- Financing costs
- Related insurance
- Maintenance and service contracts
- Costs of spare parts and spare equipment
- Purchase or lease of tools or installation equipment
- GST

**Disclosure of Incentives obtained from other parties**

As a condition of participation, the applicant must disclose the full incentive amounts pledged by other parties.

EnWin Utilities or its representative reserves the right to contact other government agencies and verify incentives released or pledged. Signing the application is the applicant's authority for EnWin Utilities to make these requests.

**ALL WORKSHEETS**

The manufacturer and model numbers must be clearly indicated on each Worksheet. In order to receive an incentive, the Applicant must submit purchase INVOICES indicating model numbers and quantities with PROOF OF PAYMENT (required for incentive payment) or ESTIMATES (required for pre-approval) for purchased equipment. Proof of Payment will be required prior to release of incentive. MANUFACTURER'S TECHNICAL SPECIFICATION SHEETS demonstrating that the equipment meets the program requirements must be attached to each Worksheet for approval.

**In-service date of project**

The Project Application must be submitted for approval prior to December 31, 2010. Applications submitted after this date will be returned to the Applicant unopened. (See Application Evaluation and Priority below.)

Eligible projects under this program must be completed (be in-service) and delivering kW savings on or before the earlier of (a) the date falling 12 months after the date on which this application is approved by the LDC, and (b) December 1, 2011.

Projects that are not completed and put into service prior to the project completion deadline will not be eligible to receive incentive payments.

Projects with an earlier in-service date will be given priority for approval. LDC's incentive budget is limited and project applications will draw down this budget as projects are approved.

### **Savings**

Projects must deliver kW savings as per the calculation method outlined later in this guideline.

Applications will not be considered for projects that save less than 5 kW average peak demand. For projects with savings of less than this amount, EnWin Utilities strongly encourages the applicant to consider prescriptive options or to aggregate several smaller projects into one application. For more information, please contact EnWin Utilities at 519-255-2888 x330 and ask to speak to a customer service representative.

### **Project Permanence**

Projects must remain in service and delivering the projected savings for a period of at least 36 months. If the period of operation is less than 36 months, the Applicant shall be deemed to be in default and repayment of a portion of the incentive may be requested by EnWin Utilities. If the Project or its operation requires removal, changes or modifications during the 36 months specified above, the Applicant shall notify EnWin Utilities forthwith in writing. At that time an assessment of the change in savings will be determined and if required EnWin Utilities may request a repayment of a portion of the incentive on a pro-rata basis. Failure to promptly inform EnWin Utilities of any such changes shall constitute a default of the incentive agreement, and may result in EnWin Utilities requesting repayment of all or a portion of the Incentive.

### **Application Evaluation & Priority**

Applications must be submitted prior to December 31, 2010.

Applications will undergo a pre-screening process confirming that all the above conditions have been met. Any applications that fail to meet the above criteria will be returned to the applicant with an explanation of the deficiency.

Those applications that meet all the above criteria and pass the pre-screening process will undergo a detailed screen by EnWin Utilities. Applications will be prioritized using the following criteria:

- Date of application – Projects submitted earlier will receive first consideration.
- In-service date – The sooner the project will be in-service the higher likelihood the project will receive approval.
- Magnitude of kW savings projected – Projects with larger savings will be given higher priority.
- Permanency of savings – Projects whose savings will be sustainable for longer periods of time will receive higher priority.

### **Measurement and Verification**

Within one year of issuing an incentive, EnWin Utilities reserves the right to measure and verify the actual project savings and audit the actual project cost.

To verify energy and demand savings, EnWin Utilities will apply the principles described in the 2007 *International Performance Measurement and Verification Protocol Volume I - Concepts and Options for Determining Energy and Water Savings*. These measurements and verification will be performed at EnWin Utilities's expense. If the results differ from the projected savings put forward by the Applicant, EnWin Utilities reserves the right to request repayment of the difference between the original incentive and the incentive based on the actual savings determined from EnWin Utilities's verification. There will be no increase in incentive if savings are verified to be higher than estimated in the original application.

Incentives are calculated based on the savings analysis and cost estimates performed prior to project installation and as described in the application. It is the applicant's responsibility to inform EnWin Utilities of any material changes that may result in lower savings, cost estimates or any other change that may result in a change in the incentive indicated on the approved application agreement.

### **Base Case and Energy Efficient Project Definitions**

Savings are calculated by subtracting the Energy Efficient peak demands from the Base Case peak demands. Both cases must be fully described and the Base Case justified.

The Base Case is defined as the loads that would occur under standard operating conditions and under standard practice for equipment specification and operation. If the energy efficient equipment is replacing existing good condition but low efficient in-service equipment, then the Base Case is what's currently in place. On the other hand, if the energy efficient equipment is replacing old equipment which requires upgrading or replacement, then the Base Case is defined as the equipment and operation that would have been specified if EnWin Utilities had not provided a financial incentive to encourage the energy efficient option.

Consider the following examples.

**Example 1:** A building owner wants to reduce the heating and cooling costs of a building and improve overall occupant comfort by replacing the standard single glazed windows with high efficiency low-e glazing. The existing glazing is still in good condition and considered to be serviceable for several more years. In this case the Base Case is defined as the building's current operation and performance. The savings would be compared between the existing building's performance and the performance of the building with the new low-e glazing. Incremental costs would be the total project cost of the low-e glazing installation with no Base Case costs.

**Example 2:** A building owner wants to upgrade his inefficient chiller to a more efficient system. The existing chiller is 30 years old, is well past its life expectancy and is costly to maintain and repair – the existing chiller is in need of replacement. In this case, the Base Case is defined as a standard replacement chiller (a chiller that would normally be specified under standard conditions) because the existing chiller is in need of replacement. Savings will be determined by estimating the performance of this standard chiller and comparing it to the performance of a high efficiency chiller under the same operating conditions. The incremental costs will be determined by subtracting the Base Case installation and equipment costs from the energy efficient installation and equipment costs.

### **kW Savings Calculation Procedure**

In general, savings are determined by the average difference between the "Base Case" peak-demand loads and the EE project peak-demand loads. Calculations should be determined as follows:

- Savings are calculated for two different periods of the year: Summer (June 1 to September 30) and Winter (October 1 to May 31). Each period has a different weighting factor as follows:

Summer      100%

Winter        70%

- For each of the seasonal periods, a typical peak day load profile must be prepared. This load profile is for a typical weekday and is broken into 24 equal hours, where hour 1 represents 0:00 to 0:59, hour 2 represents 1:00 to 1:59, etc. to hour 24 which represents 23:00 to 23:59. All hours are in standard daylight time (do not adjust for Daylight Savings Time for the months where this would normally apply).

- The typical weekday is an average of all days in the seasonal period (this accounts for weather and operational variances and dependences over the season).

**EXAMPLE: Calculation of net seasonally adjusted on-peak demand savings for a lighting project**

Once the seasonal on-peak one-hour demand savings are calculated the eligible demand savings from the project are determined using the **largest value** after applying the seasonal weighting factors above. Using the example above, this would be done as follows:

$$\begin{aligned} \text{Lighting Project Demand Savings} &= \text{Maximum of either } [( \text{Summer savings} * 100\% ) \text{ or} \\ &\quad ( \text{Winter savings} * 70\% )] \\ &= \text{Maximum of } [( 78.8 \text{ kW} * 1.0 ) \text{ or} \\ &\quad ( 46.3 \text{ kW} * 0.70 )] \\ &= \text{Maximum of } [ 78.8 \text{ kW or } 32.41 \text{ kW} ] \\ &= \mathbf{78.8 \text{ kW}} \end{aligned}$$

Therefore, the project demand savings for the purposes of calculating an incentive are determined to be 78.8 kW.

This value is now used to determine the incentive.

**Incentive Calculation:**

The incentive will be calculated depend on the type of measure category installed. In this case lighting is paid at \$400/kW for on-peak demand reduction or **78.8kW x \$400 = \$31,520**

**EnWin Utilities Support**

For support regarding this program, obtaining application forms, submitting an application or obtaining information regarding any of EnWin Utilities's programs, please contact the EnWin Utilities office at 519-255-2888 x330 and speak with Lawrence Musyj.. Please monitor EnWin Utilities for more information and program updates.

**FOR CUSTOM APPLICATION:**

- Fill in the ERIP Applications form
- Fill in the appropriate worksheets
  - Custom Project Worksheet
  - Custom Application Calculation Sheet
- Send the application, worksheet(s) and supporting documentation to [lmusyj@enwin.com](mailto:lmusyj@enwin.com)