

EFFICIENCY MANITOBA: COMMERCIAL ENERGY AUDIT PROGRAM

PROGRAM REQUIREMENTS

1. Program overview

Results from the Energy Audit Report will provide an assessment of the current building's energy performance and general operating conditions for the building owner's awareness and future planning purposes. The format of the Energy Audit Report will follow the Level 2 or Level 3 Report Outlines provided in Informative Annex D Report Outlines (page 23) of ANSI/ASHRAE/ACCA Standard 211-2018 – *Standard for Commercial Building Energy Audits*. Excerpts from this standard are provided in Annex D. Efficiency Manitoba recommends that the audit is conducted following the ASHRAE guide: *Procedures for Commercial Building Energy Audits, Second Edition*.

The energy auditor may use energy modelling to estimate energy savings estimates as outlined in Standard 211-2018, and where measurement and calibration of applicable energy savings is required, the use of ASHRAE Guideline 14 would be appropriate. The methods used to assess energy savings shall comply with Level 2 and 3 audit requirements as outlined in Standard 211-2018. The program does not require Efficiency Manitoba to attend project meetings; however, would be available to offer guidance if requested.

The energy auditor is encouraged to identify any potential energy reduction or recovery opportunities for industrial processes in the "Custom Energy Solutions" row of the table on page 4, since industrial process loads are not within the scope of an ASHRAE level 2 or 3 audit.

To help accommodate budgets and planning of the building owner, a phased approach to the energy audit may be considered. Please reach out to Efficiency Manitoba for further information.

For further program details, please refer to the program webpage: efficiencyMB.ca/energyaudit

2. Incentives

The incentive offered aims to cover 50% off the cost of the energy audit, up to the maximum incentive values listed below as determined by the selected ASHRAE audit level, the building's total square footage of conditioned floor space and number of floors, the building use category, and the complexity of the systems within it.

BUILDING TYPE	BUILDING SIZE	MAXIMUM INCENTIVE ² (up to 50% of energy audit)	
		LEVEL 2	LEVEL 3
Offices, Education, Hotel, Recreation/Arena, Healthcare, Multi-Unit Residential, Industrial with Offices ¹	Greater than 60,000 sq ft and/or 3 floors or more	\$3,200	\$12,500
	Between 30,000 and 60,000 square feet and 3 floors or less	\$2,200	\$8,000
	30,000 square feet or less and 3 floors or less	\$1,200	\$4,200
All other building types	Any size	\$1,200	\$4,200

1 - Industrial processes not subject to ASHRAE Level 2 and 3 audits; refer to Custom Energy Solutions Program for incentive opportunities.

2 - Buildings with total conditioned floor area greater than 100,000 sq. ft may be eligible for additional incentives depending on system complexity. Please email EnergyAudits@efficiencyMB.ca for further information.

Program Incentives are paid to the payee specified by the building owner once the ASHRAE energy audit is completed for the facility and all program's deliverables have been submitted and approved by Efficiency Manitoba.

Buildings that have previously had an ASHRAE Level 2 energy audit completed through this program are eligible to apply for ASHRAE Level 3 energy audit incentives. In such cases, the maximum incentive will be calculated as the difference between the applicable Level 2 and Level 3 audit incentives for the building, modified by the percentage of energy conservation measures previously identified in the ASHRAE Level 2 audit that are selected to be analyzed in the ASHRAE Level 3 energy audit. For example, if a building owner has received an incentive of \$600 after completing their Level 2 audit (e.g., the building type is warehouse), and if they wish to pursue further analysis of four of the five energy efficiency measures (EEMs) identified in their Level 2 audit, they may apply for an ASHRAE Level 3 energy audit. Since a Level 3 energy audit for a warehouse is eligible for a maximum incentive of \$4,200 under this program, the building owner could receive the difference between this value and the incentive already received for the Level 2 audit, modified by the percentage of energy conservation measures analyzed in the Level 3 audit: $\$4,200 \text{ (ASHRAE Level 3)} - \$600 \text{ (ASHRAE Level 2)} = \$3,600 \times [4/5 \text{ (EEMs)}] = \$2,880$ total maximum incentive, or up to 50% of the total Level 3 energy audit cost, whichever is less.

In addition to the program providing incentives for the cost of energy audits, the program offers incentives to cover 50% of reasonable disbursements required for the energy auditor to travel to an applicant's building that is at least 50 kilometers outside of the energy auditor's Manitoba office. In cases where the energy auditor does not have an established Manitoba office, the travel distance will be assessed based on a default starting location of the intersection at Portage Avenue & Main Street. Disbursements include hotel, mileage, and airfare within Manitoba only. The incentive for disbursements is paid to the payee specified by the building owner.

3. Program deliverables

The following deliverables must be submitted to Efficiency Manitoba before the incentive payment can be released:

- 3.1. Draft Energy Audit Report for Efficiency Manitoba’s review and agreement, including as many energy savings measures as may be practical and beneficial for the building owner. The submission may include (or may be requested by Efficiency Manitoba for clarification purposes) the following:
 - 3.1.1. supporting calculation files; and/or
 - 3.1.2. digital energy simulation files.
- 3.2. Final Energy Audit Report signed by the energy auditor including:
 - 3.2.1. copy of meeting minutes from review with building owner; and
 - 3.2.2. invoice for energy auditing services.

Please complete the table on the following page that outlines all Efficiency Manitoba programs that the building owner may consider for energy savings opportunities in their commercial building.

4. Efficiency Manitoba programs for potential energy saving opportunities:

Efficiency Manitoba Commercial Program	Applicable (yes or no)	Energy efficiency measure(s) description & estimated rebate value
Building Envelope <ul style="list-style-type: none"> • Insulation • Windows • Doors • Curtain Wall & Storefront 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Business Lighting <ul style="list-style-type: none"> • Light Controls • LED Lamps • LED Fixtures • LED Backlit Signs 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Commercial Refrigeration <ul style="list-style-type: none"> • Display Cases • Mechanical • Walk-in box • Lighting 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Heat Pump <ul style="list-style-type: none"> • Air Source Heat Pumps • Ground Source Heat Pumps 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
In-Suite Energy Efficiency <ul style="list-style-type: none"> • Basic Upgrade • Premium Upgrade 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Small Business <ul style="list-style-type: none"> • Basic Upgrade • Premium Upgrade 	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Solar Rebate	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Variable Flow Pump & Fan Systems <ul style="list-style-type: none"> Variable frequency drives used with inverter duty induction motors Variable speed permanent magnet motors 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Commercial Deep Energy Retrofit	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Custom Energy Solutions	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> Air Compressors 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none"> Steam Trap Audit 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Enhanced Building Operations	<input type="checkbox"/> Yes <input type="checkbox"/> No	