

Energy Audits

Overview

The multi-residential, commercial and industrial building sector must radically cut energy consumption – starting now – if countries are to achieve energy security and manage climate change.

These significant cuts are achievable. Significant building energy is wasted due to poor design, insufficient technology and inappropriate behaviors. Residences and businesses need to apply expertise and finance to develop and promote new approaches to energy efficiency, but transformation will not be achieved through the market alone.

Unless people understand the energy consumption of the services they use in buildings they cannot make energy-related choices and cannot measure progress.

Both new and existing buildings can be made more energy-efficient using a combination of passive and active measures in design and operation. Incorporating the best design and technical solutions in new and existing buildings can cut energy use by about two-thirds, without considering improving the performance of small appliances and equipment used in the building. Low-energy buildings must become the norm rather than the exception. Objectives

Multi-Residential – Electrical Audit for Sub-Metering Implementation

Internat Energy Solutions Canada (IESC) has developed an energy diagnostic tool that specifically meets the requirements of the Ontario Energy Order (OEB) #EB-2009-0111 that serves as the guideline for implementation of electrical sub-metering systems within existing multi-residential buildings. For further information please contact:

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Multi-Residential/Industrial – Comprehensive Energy Audit

Internat Energy Solutions Canada (IESC) has developed an energy diagnostic tool that will provide the necessary information to establish energy consumption performance, highlight energy efficiency improvements and provide a benchmarking tool for existing buildings within portfolios.

The comprehensive report can also cover the following aspects:

- Detailed inventory of energy-consuming and water-consuming devices on site;
- Analysis of operating schedules currently in use;
- Historical review of utility consumption through billing data taken from the gas, electricity and water invoices;
- Weather-corrected analysis of energy and water use to provide a performance baseline against which efficiency improvements can be monitored;

- List of realistic opportunities for sustainable cost reduction with financial analysis to support a business case;
- List of behavioral and organizational changes that will reduce consumption; and
- All proposed reduction actions are divided into three main categories:
 - Immediate action
 - Medium-term actions
 - Long-term actions

The comprehensive and readable energy report will serve as the gateway to available incentive programs for the analysis and implementation of energy efficiency projects.

IESC's engineering staff can provide and support all incentive program applications and provide project management for implementation of subsequent energy efficiency projects.

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