



WELCOME TO EFFICIENCY MANITOBA'S PRESENTATION ON ENERGY EFFICIENCY PROGRAMS FOR MUNICIPAL BUILDINGS

We'll get started at 1:00 p.m.



WELCOME & INTRODUCTIONS

EFFICIENCY MANITOBA PRESENTERS



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AGENDA

- Land acknowledgement
- Why energy efficiency
- Brief overview of Efficiency Manitoba
- Resources & tools
- Available Programs & Offers
- Question and Answer period

We start by acknowledging that Efficiency Manitoba operates on Treaty 1 territory, the traditional gathering place of the Anishinaabeg, Cree, Oji-Cree, Dakota and Dene people, and the traditional homeland of the Métis people, and heart of the Metis Nation. It's also important to acknowledge, that we work with and serve, all 5 treaty territories. Every time we acknowledge this truth, we have an invitation, and an opportunity, to reflect on what we do, and what we can do, to make Manitoba a better place for everyone who lives here.

WHY ENERGY EFFICIENCY?

WHY IS ENERGY EFFICIENCY IMPORTANT?



Reduces energy use and costs



Mitigates customer bill increases as energy rates increase



Reduces greenhouse gas (GHG) emissions (natural gas)



Defers the need for new infrastructure in Manitoba



Supports green jobs and economic growth

A BRIEF OVERVIEW OF EFFICIENCY MANITOBA

WHO ARE WE?



- A new Crown corporation dedicated to achieving significant annual energy savings targets
- Manitoba's one-stop-shop for energy efficiency programs and information
- Funded by Manitoba Hydro with approximately \$32.3 million from the Government of Canada's Low Carbon Economy Leadership Fund

OUR HISTORY

Efficiency Manitoba Act
proclaimed

Efficiency Manitoba Board of
Directors appointed

Province announced Efficiency
Manitoba CEO

2019



Ministerial approval of
2020-23 Efficiency Plan
with amendments

Official commencement
on April 1, 2020



2018

Submission of the
2020-23 Efficiency Plan to the
Public Utilities Board

3-month regulatory process
including a public hearing



2020

OUR MANDATE



1.5%

Reduce Manitoba's electricity consumption by 1.5% annually



0.75%

Reduce Manitoba's natural gas consumption by 0.75% annually

- ✓ Achieve aggressive savings targets
- ✓ Deliver cost-effective efficiency programs and services
- ✓ Create programs for as many Manitobans as possible to participate
- ✓ Promote involvement of the private sector

RESOURCES & TOOLS

RESOURCES & TOOLS



PROGRAMS FOR MUNICIPALLY-OWNED BUILDINGS

INCLUDING RECREATION FACILITIES

DESIGN WITH ENERGY
EFFICIENCY IN MIND.

 EFFICIENCY
MANITOBA

 ASSOCIATION OF
MANITOBA
MUNICIPALITIES

- Efficiency Manitoba Programs for Municipally-Owned Buildings Including Recreation Facilities – *a brochure highlighting popular programs most common for municipal buildings.*
efficiencymb.ca/municipalbrochure

RESOURCES & TOOLS



ENERGY EFFICIENCY GUIDE

FOR MUNICIPAL
RECREATION FACILITIES

DESIGN WITH ENERGY
EFFICIENCY IN MIND.

EFFICIENCY
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MANITOBA
MUNICIPALITIES

- Energy Efficiency Guide for Municipal Recreation Facilities – *a 100 page comprehensive guide to help facility operators identify no and low cost savings opportunities.*

efficiencymb.ca/recguide

PROGRAMS & OFFERS

NEW BUILDINGS PROGRAM



- Benefits include lower heating and cooling costs, less condensation and drafts, improved occupant comfort, improved building aesthetics, increased building value, and a reduced environmental footprint
- New construction or addition (classified as Part 3) and required to follow the Manitoba Energy Code for Buildings (MECB)
- Two incentives available

NEW BUILDINGS PROGRAM



1) Energy modelling assistance incentive

- Receive up to \$10,000
- Apply before project tender and before building permit issued
- Application must include a copy of the design energy model report from a consultant

NEW BUILDINGS PROGRAM



Construction Site Sign

2) Performance Path incentive

- Must be 5% or more energy efficient compared to MECB
- Receive up to \$2.00/square foot toward construction costs
- Must apply within 6 months of the building permit being issued

COMMERCIAL ENERGY AUDIT PROGRAM



- An energy audit is commonly the first step in identifying key opportunities for building owners to reduce their energy consumption (and save money!).
- We offer financial incentives and technical support for building owners that complete ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) Level 2 or 3 audits for eligible commercial buildings.

COMMERCIAL ENERGY AUDIT PROGRAM



- Select a consultant from our pre-qualified list to perform an energy audit at your building.
- After the audit, you'll receive a detailed report summarizing energy-saving opportunities for your building's envelope, lighting, and heating, ventilation, and air conditioning (HVAC) systems, as well as the Efficiency Manitoba incentive programs that are applicable to you.

COMMERCIAL ENERGY AUDIT PROGRAM

AVAILABLE INCENTIVES

BUILDING TYPE	BUILDING SIZE	MAXIMUM INCENTIVE (up to 50% of energy audit cost)	
		LEVEL 2	LEVEL 3
Offices, education, hotel, recreation/arena, healthcare, multi-unit residential, or industrial with offices	Greater than 60,000 square feet and/or 3 floors or less	\$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

BUSINESS LIGHTING PROGRAM



- Significantly reduce lighting energy costs
- Extend lighting product life
- Reduce lighting maintenance
- Receive incentives that can cover up to 100% of the lighting material cost
- For a limited time, the Business Lighting Program is now offering bonuses for customers – we have increased our current incentives by 25%

BUSINESS LIGHTING PROGRAM



LED Lamps

- Screw-in, Specialty, T-LED

LED Fixtures (indoor and outdoor)

- Fixtures, Retrofit Kits

Lighting Controls

- Occupancy Sensors
- Control Systems

LED Backlit Signs

BUILDING ENVELOPE PROGRAM



- Benefits include reduce heating & cooling costs, less condensation, reduced outdoor noise infiltration, extend building life, and improved indoor comfort and air quality
- Upgrade include
 - Insulation – roof, wall
 - Windows – punched, storefront
 - Curtain wall systems
 - Glazed doors

BUILDING ENVELOPE PROGRAM



- Insulation incentive – based on R-value, can cover up to 100% of insulation material cost
- Windows incentive – based on U-value, can cover up to 100% of the incremental cost of high-performance versus standard windows

GROUND SOURCE HEAT PUMP PROGRAM



- Reduce electric heating costs by up to 60%
- System circulates fluid through a loop of pipes buried underground.
- In heating mode, the fluid absorbs heat from the earth, which stays at a stable temperature regardless of the temperature above ground.
- In summer, the process is reversed, redistributing heat back into the ground.
- Incentives of up to \$2.50/square foot of heated space

AIR SOURCE HEAT PUMP PROGRAM



- Small commercial buildings
- Reduces your electric heating costs by up to 30%
- Provides heating and cooling
- Easy to install
- Helps in hard to heat and cool spaces
- Incentives:
 - 1) Ductless (up to \$1.00/square foot of heated space)
 - 2) Centrally ducted (up to \$1.65/square foot of heated space)

SMALL BUSINESS PROGRAM



- We work with Ecofitt Corporation
- Must be under 15,000 square feet
- Not part of a national franchise or chain
- An Ecofitt technician installs free Basic Upgrades, identifies Premium Upgrades, and estimates costs.
- Upon customer request, a local subcontractor returns and installs Premium Upgrades.
- We'll apply a 70% incentive, and the customer only pays the remaining balance.

SMALL BUSINESS PROGRAM

Two levels of energy-efficient upgrades so you can pick the one that's right for you.

BASIC UPGRADE

FREE

- ✓ Free A-line LED bulbs
- ✓ Free bathroom and kitchen faucet aerators
- ✓ Free pre-rinse spray valves
- ✓ Free showerheads
- ✓ Free installation
- ✓ Free lighting and attic insulation assessment to find out how you can save even more

PREMIUM UPGRADE

WE COVER 70%

- ✓ Includes all Basic Upgrades
- ✓ We cover 70% of the material and installation costs for:
 - ✓ LED linear lamps
 - ✓ Specialty LED bulbs
 - ✓ LED exit signs
 - ✓ Smart thermostats
 - ✓ Lighting controls
 - ✓ Pitched roof insulation

IN-SUITE ENERGY EFFICIENCY PROGRAM



- We work with Ecofitt Corporation
- Eligible to property managers of apartment, condo, townhouse, or rowhouse buildings
- An Ecofitt technician installs free Basic Upgrades and identifies Premium Upgrades, and estimates costs.
- Upon customer request, a local subcontractor returns and installs Premium Upgrades.
- We'll apply all incentives, and the customer only pays the remaining balance.

VARIABLE FLOW PUMP AND FAN SYSTEMS PROGRAM



- Improve the building's HVAC system's efficiency by adjusting motor speeds to match the required process demand.
- Extend service life of the building's equipment and reduce operating and maintenance costs.
- Variable frequency drives (VFDs), pumps, and fans may all be opportunities to save.

VARIABLE FLOW PUMP AND FAN SYSTEMS PROGRAM



- Variable frequency drives used with inverter duty induction motors:
 - \$50 per horsepower for fans up to 100 horsepower
 - \$70 per horsepower for pumps up to 100 horsepower
- Variable speed permanent magnet motors:
 - \$70 per horsepower for fans up to 100 horsepower
 - \$100 per horsepower for pumps up to 100 horsepower

SOLAR REBATE PROGRAM



- Rebates on solar photovoltaic (PV) systems for businesses connected to Manitoba Hydro's grid
- Rebate of \$0.50 per DC watt
- Rebate limited to 50 kW or \$25,000 per building
- PV system installations must comply with Manitoba Hydro's interconnection requirements and be approved by Manitoba Hydro before starting any work
- Work with your solar contractor to submit an application and the required documentation to receive interconnection approval from Manitoba Hydro

DEEP ENERGY RETROFIT PROGRAM



- Commercial or institutional buildings improving efficiency by at least 20% by way of a comprehensive renovation
- Receive up to \$12,000 towards energy modelling
- Incentives up to \$6.00/square foot for a 50% energy efficiency improvement
- Must apply before tender date and before construction permit issued

CUSTOM ENERGY SOLUTIONS



- Efficiency Manitoba can help you save on electricity and natural gas usage with measures that are designed specifically for your facility.
- Successful past projects include ice plant heat recovery for shower and flood water, low-emissivity ceilings, brine pump cycling, floating head pressure controls and raised suction pressures, oversized condensers, and high efficiency compressors.

THANK YOU

QUESTION AND ANSWER PERIOD

QUESTION AND ANSWER PERIOD

CONNECT WITH US



FOLLOW



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