



# ecoENERGY Initiative and the Built Environment

**RURAL MATTERS!**

Edmonton, Alberta

July 7, 2008

**Liz Westbrook-Trenholm**  
**Senior Officer/A, Buildings Division**

Office of Energy Efficiency  
Natural Resources Canada



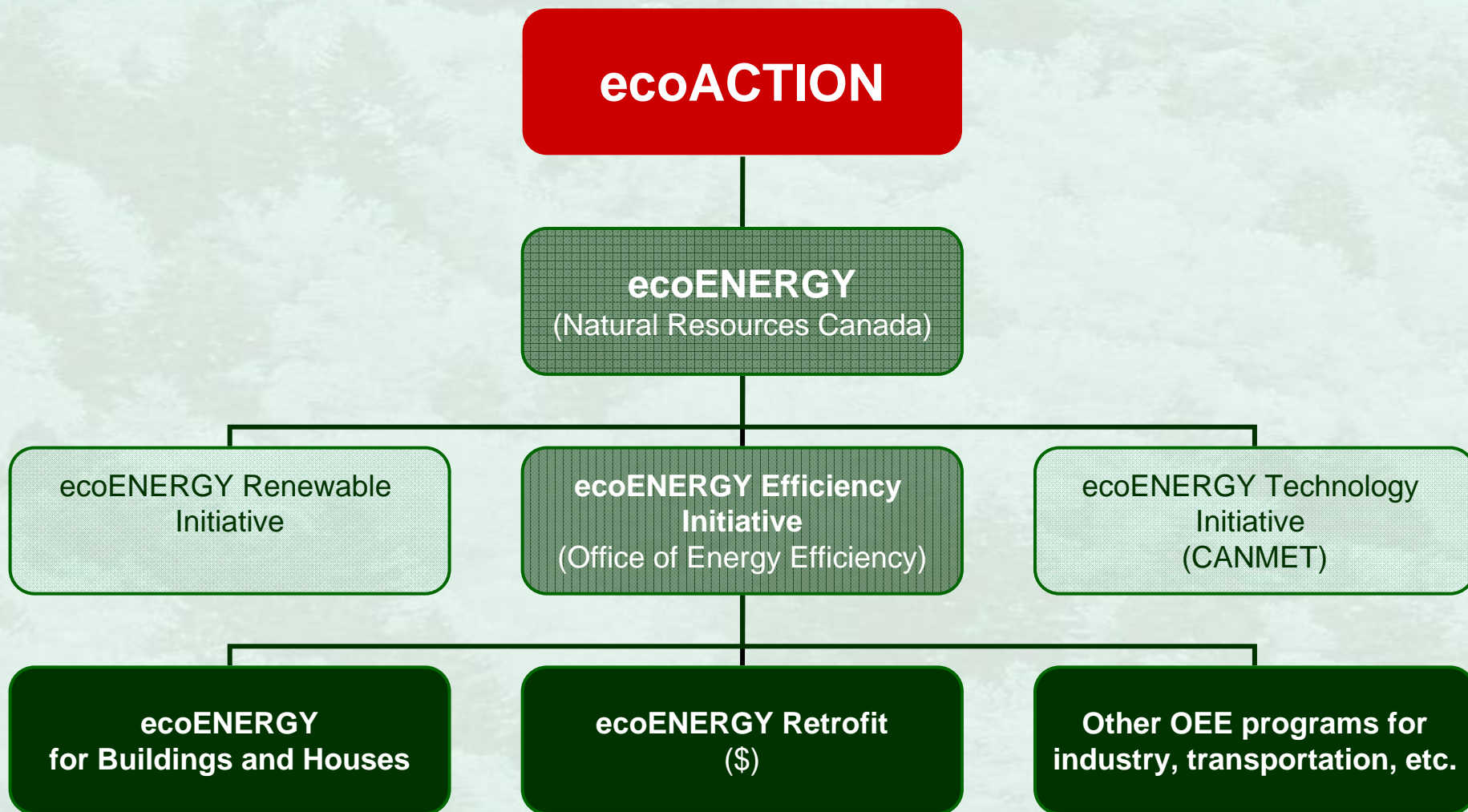
# Presentation Overview

## Table of Contents:

- **ecoACTION and the ecoENERGY Efficiency Initiative**
- **ecoENERGY for Buildings and Houses**
- **ecoENERGY Incentives**
- **ecoENERGY Training & Workshops**
- **For More Information**



# ecoACTION Structure





# ecoENERGY

## Residential Activities

- **Residential activities:**

- R-2000 for New Homes
- EnerGuide Rating System
- Partnership with Built Green

- **Incentives**

- Single family homes including detached, semi-detached and low-rise multi-unit residential
- A licensed and independent energy advisor performs a residential energy assessment
- Post-retrofit, advisor re-assesses home and forwards application to OEE
- Up to \$5000 per home



## Commercial and Institutional activities

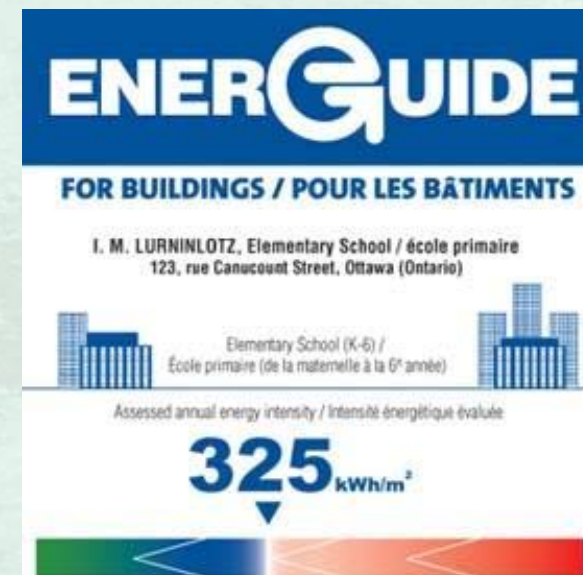
- Software & tools (EE4, RETScreen)
- Publications and newsletters (Heads Up)
- Update of the Model National Energy Code for Buildings (MNECB)
- New energy labelling system for buildings
- Building optimization (commissioning and recommissioning )
- Validation of new building designs
- Training and workshops (Dollars to \$ense, EE4)

## ■ Building Codes:

- With the National Research Council, updating the Model National Energy Code for Buildings (MNECB) through the Canadian Commission on Building and Fire Codes

## ■ Energy Labelling:

- Commencing pilot projects for a new energy rating and labelling system for commercial and institutional buildings



- **Validation of new building designs:**

- Confirms the design performance is at least 25 percent or better than the MNECB requirement
- Shows compliance with utility or regional incentive programs or provincial, territorial and/or municipal requirements
- LEED energy efficiency prerequisite
- Recognition – Plaques & Openings



## ecoENERGY Retrofit – Small and Medium Organizations

- ecoENERGY Retrofit Incentive for Industry
- ecoENERGY Retrofit Incentive for Buildings



- **Eligible small and medium organizations:**
  - Commercial, institutional and certain multi-unit residential buildings  $\leq 20,000 \text{ m}^2$  (215,278  $\text{ft}^2$ )
  - Industrial facilities with fewer than 500 employees not subject to clean air regulation (large final emitters ineligible)
  - You can include multiple buildings in a project



- **Available incentive:**
  - \$10 per gigajoule (277.8 kWh) of estimated annual savings
  - up to 25% of eligible project costs
  - up to \$50,000 per project
  - payback  $\geq$  one year
- **We pay the total eligible incentive:**
  - after project completed &
  - after NRCan verifies work



- **How organizations can apply:**
  - Access the application guide and forms
  - Hire experienced professional to conduct an energy analysis of facility
  - Submit signed application forms
- **Do not incur costs related to project before you receive a signed Contribution Agreement**



- **ecoENERGY Renewable Heat:**

- Commercial incentives for solar air or water for 25% of costs up to \$80,000 per installation
- Residential pilot initiative under development
- Industry capacity building




- **Dollars to \$ense**
  - **Energy Master Plan**
  - **Spot the Energy Savings Opportunities**
  - **Energy Monitoring**
  - **Energy Efficiency Financing**
  
- **Customized – Specific**
- **Customized – Sector**
  - **Acute Care – Clinics**
  - **Universities-Colleges**
  - **Long Term Care**



# Municipal Energy Management Workshops

- Two One-Day Workshops
  - Energy 101: Opportunities & Insight
  - Municipal Energy Management: How to Make it Work for You
- Developed for the Association of Municipalities of Ontario (AMO)
- Delivered in 8 locations in 2007-2008
- Well attended by smaller municipalities



# Workshop Day 1: “Energy 101”

## Agenda:

- Where are we today?
- Planning frameworks
- Energy Basics
- Understanding the Energy Bills
- Benchmarking to Monitoring
- The Energy Audit
- Energy Awareness
- Incentives



# Day 2: “Make It Work for You”

## Agenda:

- Your Past Successes
  - Pathways to Success
- Projects to Programs & Plans
  - Strategic Alignment
- The Anatomy of a Project
  - Retrofit Demo & Technical Analysis
  - Project Business Case
  - Measurement & Verification
  - Combining the Incentives
- Your Pathway to Success



# For More Information

- Visit our Web sites or contact us:
  - [www.ecoaction.gc.ca/buildings](http://www.ecoaction.gc.ca/buildings)
  - [www.ecoaction.gc.ca/retrofit](http://www.ecoaction.gc.ca/retrofit) (Incentive)
  - 1-877-360-5500
- Liz Westbrook-Trenholm
  - 613-995-5094
  - [ewestbro@nrcan.gc.ca](mailto:ewestbro@nrcan.gc.ca)

