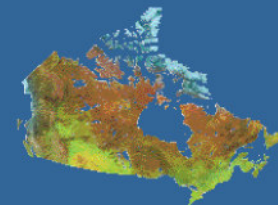


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Canada's EnerGuide Rating System

John Cockburn, Natural Resources Canada

Consortium for Energy Efficiency
January 24th, 2012



Natural Resources
Canada

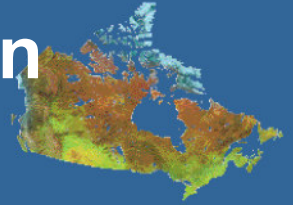
Ressources naturelles
Canada

Canada

ERS is a comprehensive system with many components



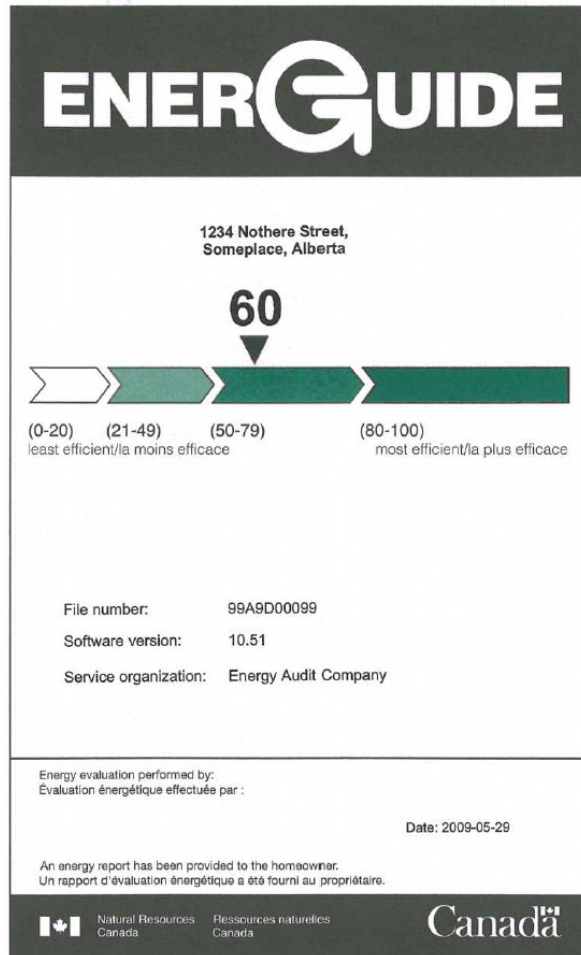
In its current form the ERS has been very successful



- Introduced in 1998 for Federal voluntary programs on existing houses
- Scope has broadened:
 - New housing (including net zero)
 - Provincial/territorial programs
 - Industry programs
 - Regulation
- An industry has been developed around rating and labelling of homes
- 1 million homes evaluated under ERS



Current ERS scale



Scale:

- 0 to 100, where 0 is least efficient, 100 is Net Zero
- 1 point = 5-6 GJ = 1389–1667kWh
- Rates the house, not how the occupant uses the house (asset rating)
- Calculated using HOT2000

Reference:

- None

Scope:

- space heating & hot water & ventilation

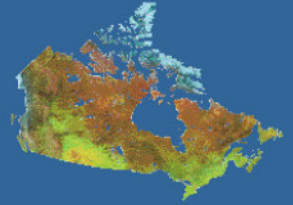
Greenhouse gas reporting:

- in report

Additional material:

- Renovation Upgrade Report for existing homes
- More easily explain the scale and the percentage improvement of upgrades
- Harmonize direction of scale with EnerGuide for appliances
- Need to be able to measure overall consumption/performance as well as energy efficiency

Improvements required:



- The system needs to evolve to meet increasing demands of stakeholders:
 - Support for evolving code requirements
 - Support for possible mandatory labelling
 - Increase scope of the rating and information transfer
 - Improve the communications elements of the homeowner information, including the scale



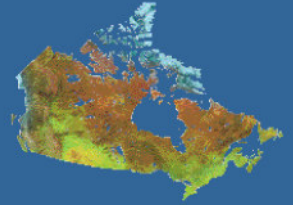
Recommendations Developed by National Committee



- A standard development process using:
 - A Standard Council of Canada based approach,
 - Committees of balanced representation,
 - A process based on consensus principles, and
 - Public review.
- Ensures transparency and buy-in by all stakeholders



Vision of ERS in the marketplace



- The ERS will provide a national system, supporting (and supported by) regional solutions, to:
 - Help Canadian homeowners, industry and stakeholders, become “*energy literate*” regarding houses and the decisions related to them
 - Provide specific, readily accessible energy performance information to support decision making in designing, constructing, purchasing, renovating or operating a house



Proposed ERS scale



Scale:

- Consumption based scale in GJ/year, where 0 is Net Zero and no upper end to the scale
- Rates the house, not how the occupant uses the house (asset rating)
- Calculated using HOT2000

Reference:

- The house if it were built to the building code

Scope:

- Space heating, hot water, ventilation, cooling and renewables

Greenhouse gas reporting:

- on label

Additional material:

- Guide to the label
- Homeowner Information Sheet
- Renovation Upgrade Recommendations Report
- New Construction Upgrade Report
- Efficient Living Assessment Report (eventually)

Improvements:

- straightforward portrayal of home energy use
- direction of scale harmonizes with EnerGuide for appliances: 0 uses least energy
- a house that consumes less energy than another will rate lower & energy efficiency metric (GJ/m²)
- Percentage improvement is clear
- Increased information on the label to help increase energy literacy

Questions?

