

REEP Home Profile

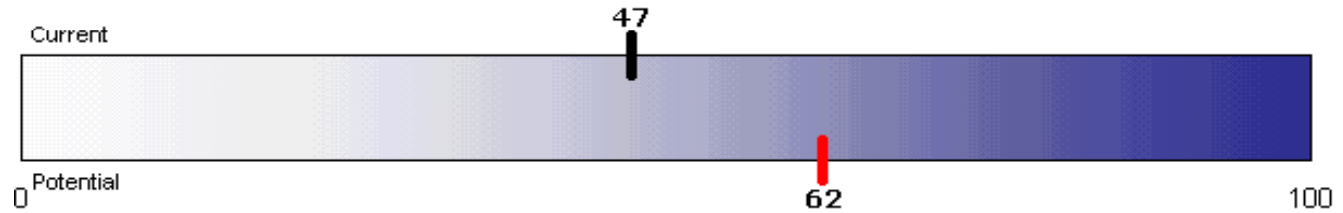
Homes Built in the 1800's



TYPICAL SINGLE DETACHED DWELLING IN WATERLOO REGION

(Average of 109 Houses)

- Size = 258 m² (2,866 ft.²)
- Energyguide for Houses Rating = 47
- Energy Consumption = 302,880 MJ
- Estimated Leakage Area = 2,586 cm²



TYPICAL ENERGY PROBLEMS

- large air leaks
- walls with little or no insulation
- poor attic insulation
- uninsulated stone foundations
- cold rooms due to duct deficiencies
- uneven heating of rooms
- single pane windows

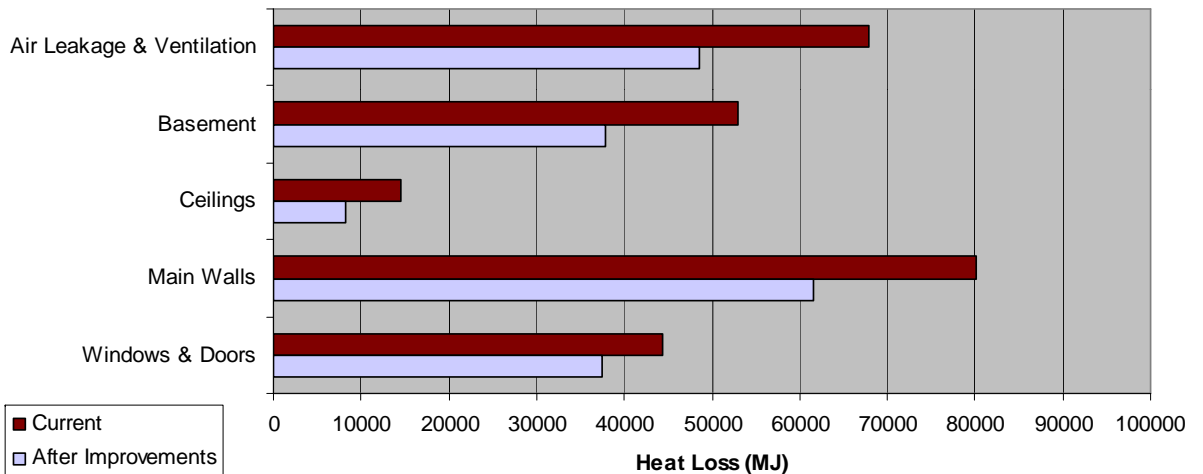
Rating Change = +15
Annual Energy Savings = 29%

Upgraded EGH Rating = 62
Upgraded Energy Savings = 86,822 MJ
Upgraded CO₂ Savings = 5,075 Kg

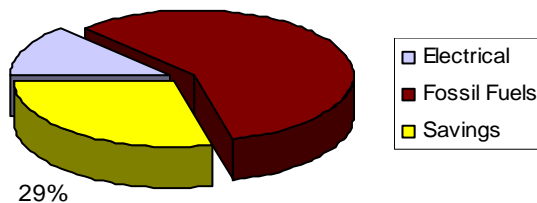
Heat Loss by Area

TYPICAL ENERGY SOLUTIONS

- air sealing
- blow insulation into wall cavity
- upgrade ceiling insulation
- replace windows and doors
- install exhaust fans
- upgrade to higher efficiency furnace
- install cold air returns on upper levels



Upgraded Fuel Consumption



Residential Energy Efficiency Project

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