

REEP Home Profile

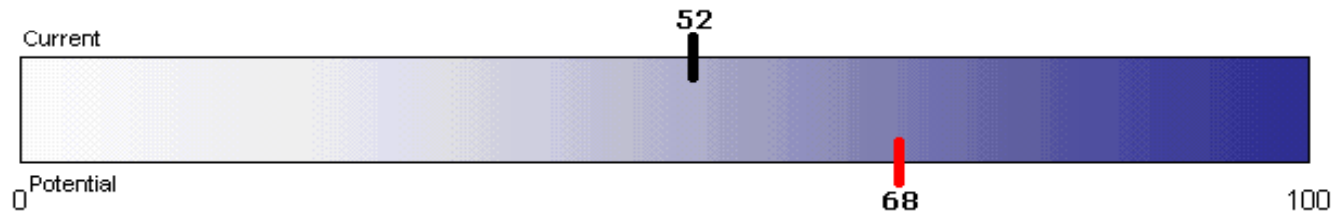
Homes Built in the 1930's



TYPICAL SINGLE DETACHED DWELLING IN WATERLOO REGION

(Average of 63 Houses)

- Size = 204 m² (2,267 ft.²)
- EnerGuide for Houses Rating = 52
- Energy Consumption = 250,283 MJ
- Estimated Leakage Area = 1,825 cm²



TYPICAL ENERGY PROBLEMS

- large amount of air leakage
- uneven heating of rooms
- limited insulation in walls
- poor attic insulation
- poor insulation in stone foundation
- older, less efficient heating systems
- no mechanical ventilation
- single pane windows

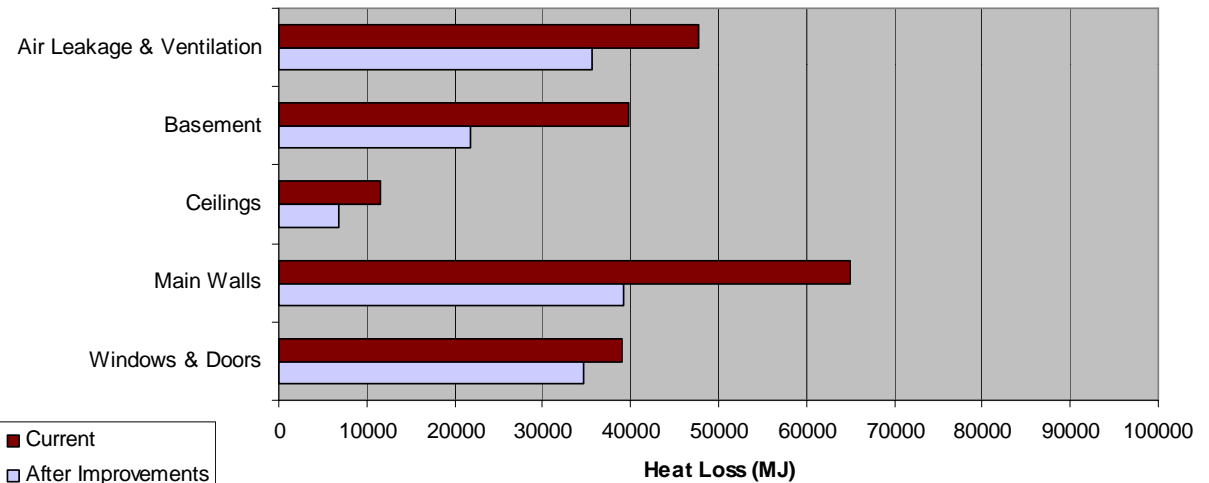
Rating Change = +16
Annual Energy Savings = 35%

Upgraded EGH Rating = 68
Upgraded Energy Savings = 86,943 MJ
Upgraded CO₂ Savings = 6,047 Kg

TYPICAL ENERGY SOLUTIONS

- air sealing
- blow insulation into wall cavities
- upgrade attic insulation
- cold air returns in upper rooms
- insulate top of basement wall
- upgrade to higher efficiency furnace
- install fans in bathrooms, kitchen

Heat Loss by Area



Upgraded Fuel Consumption

