

REEP Home Profile

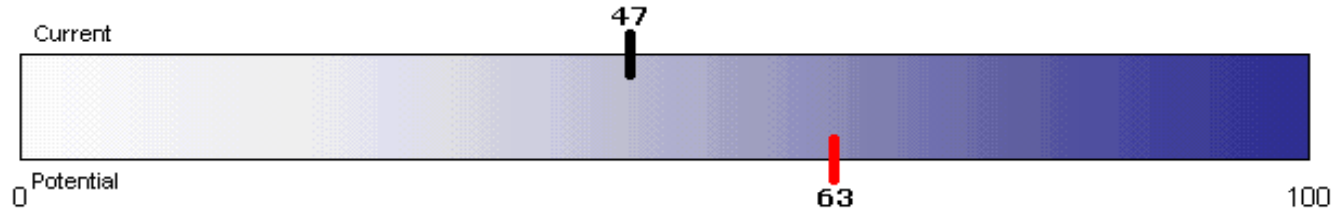
Homes Built in the early 1900's



TYPICAL SINGLE DETACHED DWELLING IN WATERLOO REGION

(Average of 76 Houses)

- Size = 246 m² (2,733 ft.²)
- EnerGuide for Houses Rating = 47
- Energy Consumption = 299,407 MJ
- Estimated Leakage Area = 2,442 cm²



TYPICAL ENERGY PROBLEMS

- uninsulated stone foundations
- large air leaks
- no ventilation fans
- older heating systems
- uninsulated walls
- poor attic insulation
- uneven heating of the house
- single pane windows

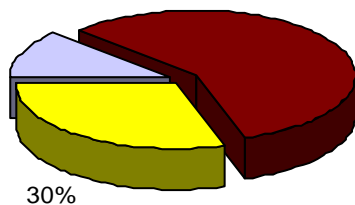
Rating Change = +16
Annual Energy Savings = 30%

Upgraded EGH Rating = 63
Upgraded Energy Savings = 92,700 MJ
Upgraded CO₂ Savings = 5,465 Kg

TYPICAL ENERGY SOLUTIONS

- insulate top of basement walls
- blow insulation into wall cavities
- replace windows and doors
- air sealing
- improve attic insulation
- install exhaust fans
- upgrade to higher efficiency furnace
- install cold air returns on upper floors

Upgraded Fuel Consumption



□ Electrical
 ■ Fossil Fuels
 ■ Savings

■ Current
 □ After Improvements

Heat Loss by Area

