

REEP Home Profile

Homes Built in the 1920's



TYPICAL SINGLE DETACHED DWELLING IN WATERLOO REGION

(Average of 100 Houses)

- Size = 217 m² (2,411 ft.²)
- EnerGuide for Houses Rating = 50
- Energy Consumption = 267,288 MJ
- Estimated Leakage Area = 2,067 cm²

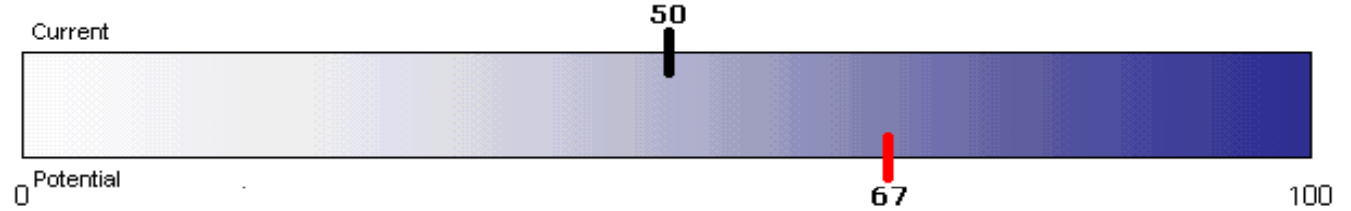
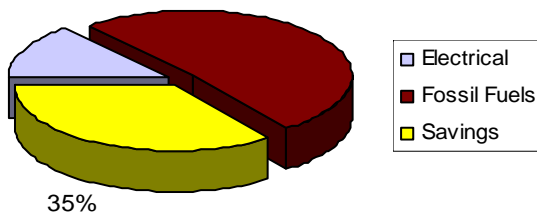
TYPICAL ENERGY PROBLEMS

- 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

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

Upgraded Fuel Consumption



Rating Change = +17
Annual Energy Savings = 35%

Upgraded EGH Rating = 67
Upgraded Energy Savings = 92,940 MJ
Upgraded CO₂ Savings = 5,457 Kg

Heat Loss by Area

