

# REEP Home Profile

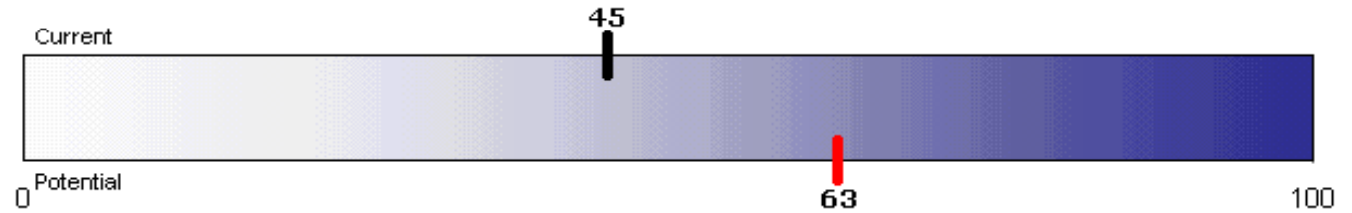
## Homes Built in the 1910's



### TYPICAL SINGLE DETACHED DWELLING IN WATERLOO REGION

(Average of 74 Houses)

- Size = 217 m<sup>2</sup> (2,411 ft.<sup>2</sup>)
- EnerGuide for Houses Rating = 45
- Energy Consumption = 293,832 MJ
- Estimated Leakage Area = 2,195 cm<sup>2</sup>



### TYPICAL ENERGY PROBLEMS

- uninsulated walls
- uninsulated stone foundation
- older, less efficient heating system
- large amount of air leakage
- no mechanical ventilation
- lower levels of attic insulation
- single pane windows

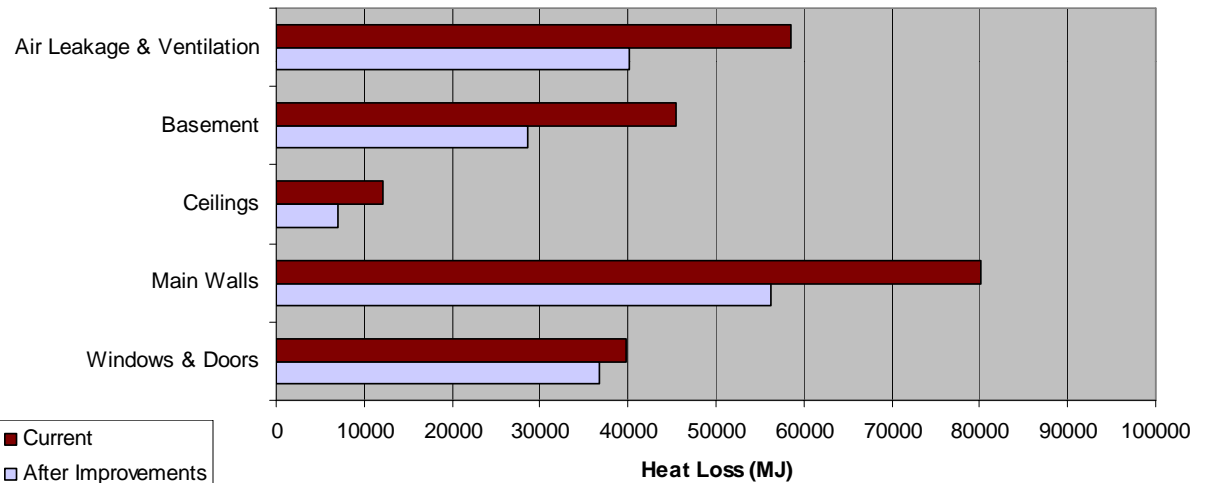
**Rating Change = +18**  
**Annual Energy Savings = 33%**

**Upgraded EGH Ratings = 63**  
**Upgraded Energy Savings = 98,296 MJ**  
**Upgraded CO<sub>2</sub> Savings = 5,850 Kg**

### TYPICAL ENERGY SOLUTIONS

- air sealing
- fill wall cavity with insulation
- upgrade to higher efficiency heating system
- replace windows and doors
- improve attic insulation
- install exhaust fans
- insulate top of basement wall

Heat Loss by Area



### Upgraded Fuel Consumption

