



# CanmetENERGY

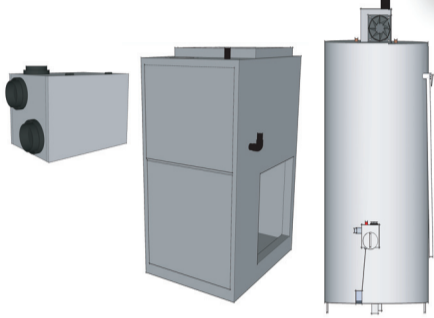
*Leadership in ecoInnovation*

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Project Funding: Enbridge Gas Distribution Inc., CanmetENERGY

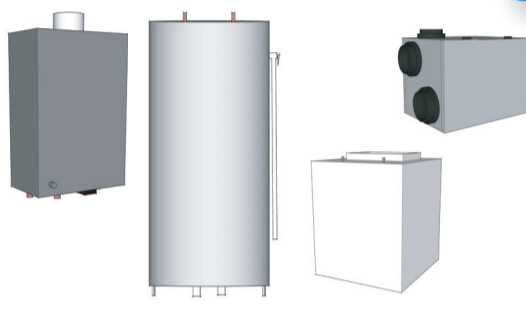
## SELECTING A GAS FUELLED HEATING SYSTEM?

### FURNACE +



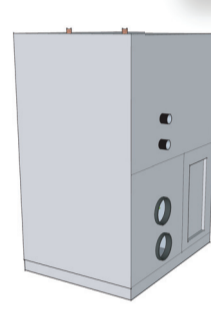
**Furnace:** AFUE 94% (CSA P.2)  
**Water Heater:** EF 60% (CSA P.3, P.7)  
**HRV:** SRE @ 0° C of 69% (CSA C439)

### COMBINATION +



**Boiler:** AFUE 90% (CSA P.2)  
**Air handler**  
**Hot water storage tank**  
**HRV:** SRE @ 0°C of 69% (CSA C439)

### IMS



**Integrated Mechanical System**  
**Space heating:** CSHE .89 (CSA P.10)  
**Water heating:** WHPF 81% (CSA P.10)  
**HRV:** SRE @ 0°C of 60% (CSA P.10)

**3 systems that each provide:**

- Space heating
- Water heating
- Ventilation
- Distribution

## HOW DOES PERFORMANCE COMPARE?

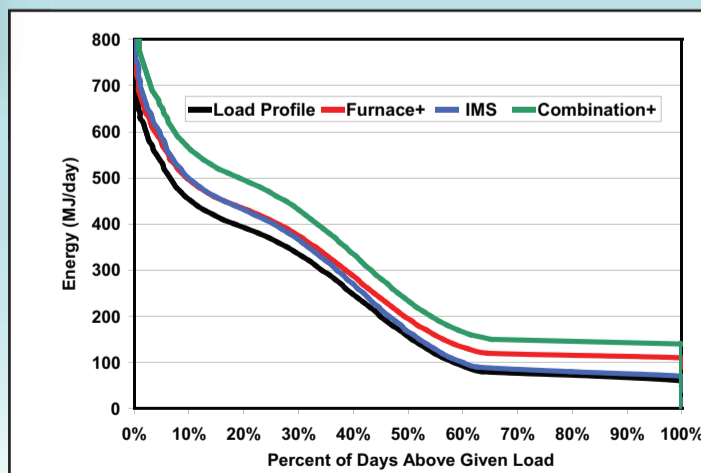
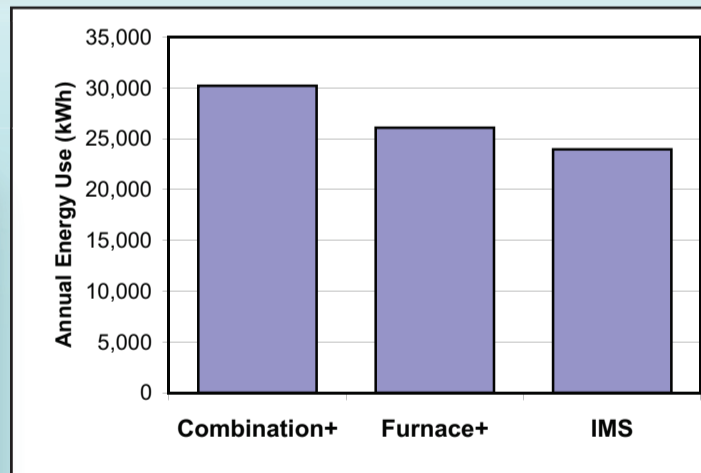
**a GREAT PLACE**  
*to find out*



### Canadian Centre for Housing Technology

Identical Houses with automated identical loads

- light bulb people
- water heating demands
- thermostat settings



### Annual Energy Use RESULTS

The IMS uses the least energy on an annual basis: 8% less than the furnace-based system, and 21% less than the combination-based system.

- The IMS uses the least energy for 310 days of the year.
- The furnace-based system uses the least energy on the coldest 55 days.
- The combination-based system uses the most energy on all days

(06-2010)



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