
-- Name --
Steve D'Eon

-- Do you reside in the impacted service area? -- No

-- Comments --

The attached is a comparison of home heating systems using annual heat energy required from hourly climate data from the Pembroke Airport averaged over 10 years and recent prices plus the \$0.23/m³ expansion surcharge that new customers will have to pay for natural gas as part of the expansion project. A 2000 sq ft reasonably constructed house is used as a base that would require slightly over 50,000,000 BTUs of heat energy compensating for 4561 Heating Degree Days (18C base). This comparison does not include upstream or downstream carbon emissions or home owner capital expenses to purchase a new system.

The hourly Pembroke airport data indicates an average of only 12 hours per year would be below -30C.

Our analysis shows a cold climate heat pump will be over \$600 cheaper per year to operate than a central gas furnace.

A heat pump will produce only 5% of the direct CO₂e emissions of a gas furnace.

Our question is, on what basis is the estimated number of customers calculated? Certainly heating oil and propane customers have an incentive to change, but heat pumps may be a better alternative. If fewer than the expected number of customers sign up will the expansion surcharge increase to make up the difference?

-- Attachment --

<https://www.oeb.ca/sites/default/files/uploads/comment-form/Comparison%20of%20home%20heating%20systems%20for%20Eganville%20natural%20gas%20expansion%20project.pdf>
