

Supplementary Handout

Exhibit 1 – Worked Example Details

Notation	Meaning	Field	Examples of other options in the field
Rate 1	Residential customers to FEI	Rate Class	Industrial Rate classes (i.e. Rate 22), Commercial rate classes (i.e. Rate 3)
SH	Space Heating	End use	Water heating, clothes drying, cooking, fireplaces
SFD	Single-Family Dwelling	Dwelling type	Attached, mobile
G	Gas heated home (the dwelling gets more than half its heating energy from gas)	Predominant heating fuel	Non gas
M	Middle-aged home (built between 1976 and 2005)	Vintage	New (2006 or newer), old (pre 1976)
LML	Lower Mainland	Region	Vancouver Island, Whistler, Southern Interior, Northern B.C.

Exhibit 2 – Acronyms

Acronym	Name
Residential End-Use Survey	REUS
Conservation Potential Review	CPR
LTRP	Long-term Resource Plan

Exhibit 3 – Definitions involved in the Consumption Calculation

Term	Definition	Expressed As	Equation
Consumption	The annual amount of natural gas consumed by an end-use, expressed in gigajoules.	Gigajoules (GJ)	$Consumption = Units \times Saturation \times Fuel\ Share \times UEC$
Units	The basis for how energy consumption is expressed in each sector.	Number of dwellings (residential); m ² of floor area (commercial); plant capacity in base year GJ (industrial)	$2015\ Units_{Residential} = Customers$ $Units\ beyond\ 2015_{Residential} = Customers_{2015} \times Growth\ Rate_{Rate\ 1}$
Saturation	The extent to which an end-use is present in that sector, region, rate class, and building type.	Percentage	$Saturation_x = \frac{\#\ of\ appliances\ providing\ X}{\#\ of\ dwellings}$
Fuel Share	The percentage of the energy end-use that is supplied by natural gas.	Percentage	$Shares_x = \frac{Natural\ Gas\ Fuelled\ X}{All\ X}$
Unit Energy Consumption (UEC)	The amount of energy used by each end use per unit.	$\frac{GJ}{dwelling}$	$UEC = \frac{Consumption}{End\ Use\ Count}$