

Attachment 2
Zero Carbon Step Code

Part 9 - Small Residential Buildings, excerpt from the BC Building Code

9.37.1.3 Compliance Requirements

1) *Buildings* conforming to the requirements of any GHG Emission Levels EL-1 to EL-4 shall be designed and constructed to conform to one of the GHG emission compliance options in Table 9.37.1.3

Table 9.37.1.3.
Greenhouse Gas Emissions
Forming part of Sentence 9.37.1.3 (1)

GHG Emission Level	GHG Emission Compliance Options					
	Maximum GHG Emissions by House, Expressed in kg CO _{2e} /year	or	Maximum GHG Emissions by House ¹		Reduction of GHG Emissions by Energy Source of Building Systems ²	
			Maximum GHGI of the House, Expressed in kgCO _{2e} /m ² /year	Maximum GHG Emissions by House Expressed in kgCO _{2e} /year		
EL-1	Measure only		Measure only		N/A	
EL-2	1050	or	6.0	2400	or	Energy sources supplying heating systems have an emissions factor <u>0.011 kgCO _{2e} /kWh
EL-3	440		2.5	800		Energy sources supplying heating and service water heating systems have an emissions factor ≤ 0.011 kgCO _{2e} /kWh
EL-4	265		1.5	500		Energy sources supplying all building systems including equipment and appliances, have an emissions factor ≤0.011 kgCO _{2e} /kWh

Notes to Table 9.37.1.3:

- (1) Compliance for this option is demonstrated by meeting both the GHGI and the GHG emission requirements for each house
- (2) Reductant or back-up equipment for the systems and equipment listed in Sentence 9.36.5.4.(1) is permitted to be excluded, provided it is equipped with controls and is not required to meet the space-conditioning load of the house
- 2) The emissions factors associated with the use of energy utilities consumed by the *building's* systems shall be
 - a) 0.011 kg CO_{2e}/kWh for electricity, and
 - b) 0.180 kg CO_{2e}/kWh for natural gas

Part 3 - Multi-unit residential over three storeys and most office and commercial buildings

10.3.1.3 Compliance Requirements

1) *Buildings* conforming to the requirements of any of the GHG Emissions Levels EL-1 to EL-4 shall be designed and constructed to conform to Table 10.3.1.3 based on *occupancy*.

Table 10.3.1.3
Greenhouse Gas Emissions
Forming Part of Sentence 10.3.1.3.(1)

GHG Emission Level	Maximum GHGI of the Building, Expressed in kgCO _{2e} /m ² /year			
	Residential Major Occupancy		Business and Personal Service and Mercantile Major Occupancies	
	Hotels and Motels	Other Residential Occupancies	Offices	Other Business and Personal Service and Mercantile Occupancies
EL-1	Measure only			
EL-2	9.0	7.0	5.0	6.0
EL-3	4.0	3.0	3.0	3.0
EL-4	2.0	1.8	1.5	2.0

- 2) The emissions factors associated with the use of energy utilities consumed by the *building's* systems shall be
 - a) 0.011 kg CO_{2e}/kWh for electricity, and
 - b) 0.180 kg CO_{2e}/kWh for natural gas