THE UNIVERSITY OF BRITISH COLUMBIA
Campus + Community Planning

Multi-Unit Residential Buildings
Statement of Energy Performance

Report Date: 2020/01

Building Information

Insert Photo

Sample Building

Address: 1234 University Avenue

Year Built: 2010

Gross Floor Area (m^2): 7,390

REAP Version[ii]: N/A

REAP Level[iii]: N/A

Weather Normalized Site EUI (kWh/m^2)[i]:

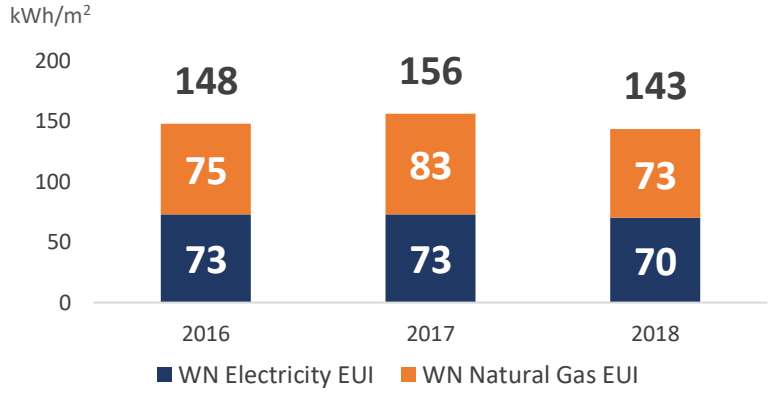
143

GHG Emission Intensity ($kgCO_2e/m^2$)[iv]:

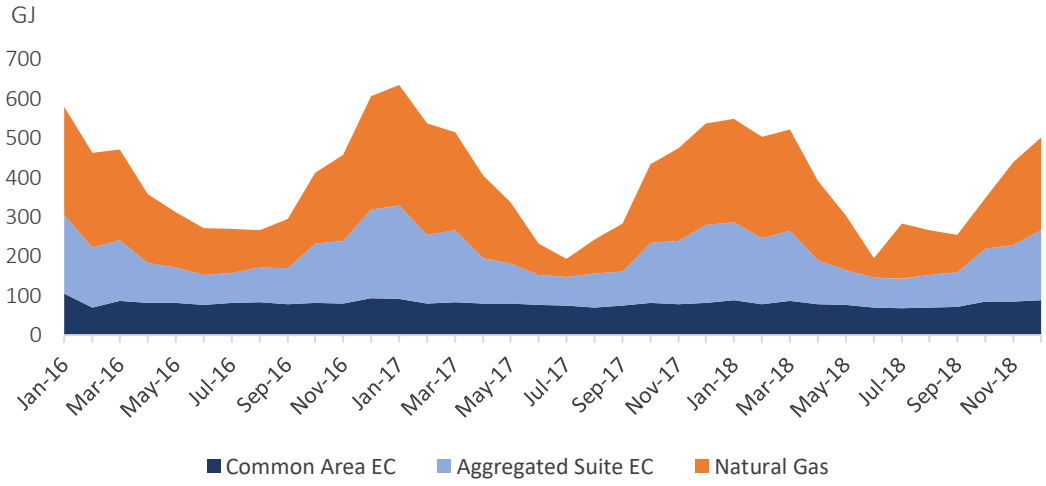
14.8

Energy Performance (2016-2018)

Weather Normalized EUI



Monthly Energy Consumption



Metrics and Data (2014-2018)[v]

Year	Electricity (kWh)	Natural Gas (GJ)	GHG (tCO_2e)	Site EUI (kWh/m^2)	Weather Normalized EUI (kWh/m^2)[vi]
2014	518,521	2,104	110	153	159
2015	489,296	2,032	106	146	160
2016	504,798	2,071	109	144	153
2017	521,474	2,396	125	158	161
2018	456,519	2,035	107	142	155

Estimated Cost of Energy

Year	Cost of Electricity ($/kWh)[vii]	Cost of Natural Gas ($/GJ)[viii]	Total Cost ($)	Cost/Unit ($/unit)	Cost/m^2 ($/m^2$)
2018	0.1292	6.38	42,365	631	5.92

[i] The weather normalized Site EUI (Energy Use Intensity) is the energy your property would have consumed during a year with 30-year average weather conditions divided by the property size.

[ii] REAP (Residential Environmental Assessment Program) is a comprehensive, UBC-specific green building rating system that is mandatory for residential construction on campus. UBC keeps updating REAP to ensure that residential buildings planned at UBC can outperform construction in the region. The current REAP Version 3.1 was released in September 2018.

[iii] REAP assesses the performance of buildings based on the number of "points" that are earned by meeting the requirements of credits distributed across seven performance categories. There are four levels of performance (Gold, Gold Plus, Platinum and Platinum Plus) that can be achieved for the current REAP 3.1, with REAP Gold being the minimum standard.

[iv] The weather normalized GHG (greenhouse gas) emission intensity is the amount of CO_2 or equivalent (CO_2e) emitted during a year with 30-year average weather conditions, divided by the property size.

[v] Energy performance metrics were determined using Energy Star Portfolio Manager by UBC Sustainability + Engineering. Units: kWh = kilowatt hour; GJ = gigajoules; tCO_2e is metric tonnes of CO_2 or equivalent.

[vi] The weather normalized Site EUI (Energy Use Intensity) is the energy your property would have consumed during a year with 30-year average weather conditions divided by the property size.

[vii] The current electricity rate is the BC Hydro rate type 1101.

[viii] The estimated average natural gas rate is calculated by dividing the total billing amount, including GST, energy levy and carbon tax, by the total billed natural gas consumption during a period of a year.