

## Washington State Agency Greenhouse Gas Calculator

Agency Seattle Central College

CY: 2019

GHG Emissions Summary	
Total building energy use	2,211 MT CO <sub>2</sub> e
Total fleet energy use	65 MT CO <sub>2</sub> e
Total Travel+CTR use	810 MT CO <sub>2</sub> e
Total annual GHG emissions	3,086 MT CO <sub>2</sub> e

Building Energy Use						
Source	CO <sub>2</sub> emissions (MT CO <sub>2</sub> )	CH <sub>4</sub> emissions (MT CH <sub>4</sub> )	CH <sub>4</sub> emissions (MTCO <sub>2</sub> e)	N <sub>2</sub> O emissions (MT N <sub>2</sub> O)	N <sub>2</sub> O emissions (MT CO <sub>2</sub> e)	Total emissions (MT CO <sub>2</sub> e)
<b>Stationary combustion</b>						
Natural gas	952.03		0.02	0.45	0.00	953.01
Diesel	0.00		0.00	0.00	0.00	0.00
Propane	0.00		0.00	0.00	0.00	0.00
Fuel oil	0.00		0.00	0.00	0.00	0.00
Gasoline	0.00		0.00	0.00	0.00	0.00
<b>Electricity</b>						
Purchased electricity - non-renewable			0.15	3.87	0.02	210.92
Purchased steam	1,045.81		0.02	0.49	0.00	1,046.89
Purchased electricity - renewable	0.00		0.00	0.00	0.00	0.00
<b>Total building energy use</b>	<b>1,997.84</b>		<b>0.19</b>	<b>4.81</b>	<b>0.02</b>	<b>2,210.82</b>

Fleet Energy Use						
Source	CO <sub>2</sub> emissions (MT CO <sub>2</sub> )	CH <sub>4</sub> emissions (MT CH <sub>4</sub> )	CH <sub>4</sub> emissions (MTCO <sub>2</sub> e)	N <sub>2</sub> O emissions (MT N <sub>2</sub> O)	N <sub>2</sub> O emissions (MT CO <sub>2</sub> e)	Total emissions (MT CO <sub>2</sub> e)
<b>Motor vehicles</b>						
Gasoline	17.09		0.00	0.02	0.00	17.15
Diesel: Retail purchases	0.00		0.00	0.00	0.00	0.00
Diesel: WSDOT fueling stations	0.00		0.00	0.00	0.00	0.00

Diesel: Bulk purchases	0.00	0.00	0.00	0.00	0.00	0.00
Propane	0.49	0.00	0.00	0.00	0.00	0.49
<b>Boats (excluding ferries)</b>						
Gasoline	0.90	0.00	0.00	0.00	0.00	0.90
Diesel	46.03	0.00	0.05	0.00	0.11	46.19
<b>Ferries</b>						
Diesel	0.00	0.00	0.00	0.00	0.00	0.00
<b>Aircraft</b>						
Aviation gasoline	0.00	0.00	0.00	0.00	0.00	0.00
Jet fuel	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total fleet energy use</b>	<b>64.50</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.16</b>	<b>64.72</b>

Comments	100% of our electricity comes from SCL. A custom emission factor (EF) for electricity was calculated based on Seattle City Light (SCL) fuel mix for 2017- the most recent data available. According to The Climate Registry ( <a href="https://www.theclimateregistry.org/our-members/cris-public-reports/">https://www.theclimateregistry.org/our-members/cris-public-reports/</a> ), retail electricity for SCL had an EF of 46.37 lbs. CO2/MWh in 2017. This was converted to to MT/kWh.
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<b>Table 18: % of GHG Emissions by Source (Custom EF for Electricity)</b>		
<b>Source of Greenhouse Gas Emissions</b>	<b>Greenhouse Gas Emissions</b>	<b>Percent of Greenhouse Gas Emissions</b>
Stationary Combustion	953	31%
Purchased Electricity Custom EF	211	7%
Purchased Steam	1047	34%
Fleet Energy	65	2%
Employee Business Travel	285	9%
Employee Commuting	525	17%
TOTAL	3086	100%

# 2019 Seattle Central Greenhouse Gas Emissions by Source

