

UBC Vancouver Campus – 2010 GHG Emissions Inventory

| Scope | Component [a] | Usage Data | GHG Emissions (tonnes of CO ₂ e/year) |
|--|--|-----------------|---|
| Scope 1 – Direct | Core Buildings | | |
| | Natural Gas for steam | 703,320 GJ | 35,380 |
| | Natural Gas direct use | 56,940 GJ | 2,860 |
| | Heating Oil for steam | 1,610 GJ | 110 |
| | Ancillary Buildings [b] | | |
| | Natural Gas for steam | 169,510 GJ | 8,530 |
| | Natural Gas direct use | 88,040 GJ | 4,430 |
| | Heating Oil for steam | 340 GJ | 20 |
| | TRIUMF – Natural Gas direct use (1/11 share) [c] | 2,050 GJ | 100 |
| | Fleet [d] | | |
| | Gasoline | 494,950 L | 1,110 |
| | Biodiesel | 119,490 L | 310 |
| | Marine gasoline | 4,030 L | 10 |
| Scope 2 – Indirect | Core Buildings – Electricity | 139,126,150 kWh | 3,460 |
| | Ancillary Buildings [b] – Electricity | 48,043,000 kWh | 1,190 |
| | TRIUMF – Electricity (1/11 share) [c] | 6,002,510 kWh | 150 |
| Scope 3 – Optional | Paper [e] | 117,220 pkg | 690 |
| | Staff and Faculty Travel [f] | | 13,600 |
| | Solid Waste [g] | | 1,510 |
| | Commuting [g] | | 33,540 |
| | Building Lifecycle [g] | | 10,180 |
| Total Campus Emissions Offset under GGRTA (Scope 1, 2, and Paper) [h] | | | 58,353 |



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Notes:

[a] Other components have been identified but methodologies are not yet in place. These include emissions associated with food and procurement, Scope 3 emissions that will require research into the life cycle of the supply chain. Fugitive emissions have been deemed out of scope as they were estimated to comprise less than 1% of campus emissions.

[b] Ancillary buildings include student housing, conference and athletics facilities.

[c] TRIUMF is 1/11 owned by UBC. This inventory includes 1/11 of the facility's estimated emissions.

[d] The methodology estimated off-campus vehicle emissions more accurately this year and includes boat fuel for the first time.

[e] The methodology captured two additional paper suppliers for the first time this year. The amount of paper consumed has been translated into equivalent packages with 500 sheets of 8.5x11 paper.

[f] Figure taken from 2006 inventory. Staff and faculty travel was not measured in the 2010 inventory due to the large margin of error in the methodology.

[g] These emissions have been estimated from published conversion factors. Improvements to systems and methodologies may allow for other components to be included in future inventories.

[h] Values may not sum precisely due to rounding. This table shows only the campus emissions that were offset in 2010. An additional 2,422 tonnes CO₂e associated with off-campus properties were also offset in 2010.



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