

**From:** [Sopinka, Amy EMPR:EX](#)  
**To:** [Buchanan, Jack EMPR:EX](#)  
**Subject:** Fwd: Grid Electricity EFs for 2018 - publishing results  
**Date:** August 8, 2019 3:24:39 PM  
**Attachments:** 01\_Electricity EF Methodology for BC 20180320\_kz.docx  
ATT00001.htm  
[ElectricityEF\\_data\\_calculations\\_v3.xlsx](#)  
ATT00002.htm

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Amy Sopinka  
Director, Transmission and Interjurisdictional Branch  
P: 778-698-7280  
M: 250-888-5183

Begin forwarded message:

**From:** "D'Souza, Don ENV:EX" <[Don.DSouza@gov.bc.ca](mailto:Don.DSouza@gov.bc.ca)>  
**To:** "Sopinka, Amy EMPR:EX" <[Amy.Sopinka@gov.bc.ca](mailto:Amy.Sopinka@gov.bc.ca)>  
**Cc:** "Fradley, Adria N ENV:EX" <[Adria.Fradley@gov.bc.ca](mailto:Adria.Fradley@gov.bc.ca)>, "Zahariev, Konstantin ENV:EX" <[Konstantin.Zahariev@gov.bc.ca](mailto:Konstantin.Zahariev@gov.bc.ca)>  
**Subject:** RE: Grid Electricity EFs for 2018 - publishing results

Hi Amy,

Thanks for setting up the call with BC Hydro. Attached are the methodology document and latest spreadsheet for the calculations. We also have a procedure document for the data collection that occurs and can send over if that's helpful.

Please note that the spreadsheet contains information from BC Hydro, FortisBC and Powerex and should not be shared widely.

Let us know if you have any questions – hope you have a great weekend!

-Don

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**From:** D'Souza, Don ENV:EX  
**Sent:** August 1, 2019 3:29 PM  
**To:** Wieringa, Paul EMPR:EX <[Paul.Wieringa@gov.bc.ca](mailto:Paul.Wieringa@gov.bc.ca)>; Sopinka, Amy EMPR:EX <[Amy.Sopinka@gov.bc.ca](mailto:Amy.Sopinka@gov.bc.ca)>; Buchanan, Jack EMPR:EX <[Jack.Buchanan@gov.bc.ca](mailto:Jack.Buchanan@gov.bc.ca)>  
**Cc:** Fradley, Adria N ENV:EX <[Adria.Fradley@gov.bc.ca](mailto:Adria.Fradley@gov.bc.ca)>  
**Subject:** Grid Electricity EFs for 2018 - publishing results

Hi all,

I expect to be publishing the grid electricity emission factors for use by operations

under the *Greenhouse Gas Industrial Reporting and Control Act* and specified in certain carbon offset protocols this month.

As you'll recall, the methodology for determining these factors was developed in consultation with BC Hydro, FortisBC, Powerex and EMPR over 2017 and 2018. I will be publishing factors for the Integrated grid and Fort Nelson grid based on analysis of electricity production and electricity imports, using information obtained through annual emissions reports, and supplemented with additional information provided by BC Hydro, FortisBC and Powerex.

For 2018, the emission factor for the integrated grid is 25.3 tonnes CO<sub>2</sub>e/MWh and for the Fort Nelson grid is 572 tonnes CO<sub>2</sub>e/MWh. For reference, BC Hydro publishes an emissions factor, the latest value (for 2015) is 9 tonnes/GWh.

I will be reaching out to BC Hydro, FortisBC and Powerex to let them know that we expect to publish this information shortly. Please let me know if you'd like to discuss or would like any additional information.

Thanks,

-Don

Don D'Souza, MEM, P.Eng.

A/Director

Industrial Reporting and Control - Climate Action Secretariat

Ministry of Environment and Climate Change Strategy

T: 778 698-3662

M: 778 584-0240

# Electricity Emission Intensity Factor Methodology

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## 1. Purpose and Applicability

A consistent, robust, and transparent way to calculate the greenhouse gas (GHG) emission intensity of electricity for the purposes of:

- Liquefied natural gas operations complying with *Greenhouse Gas Industrial Reporting and Control Act* requirements regarding use of grid electricity;
- Public sector organizations complying with carbon-neutral government requirements under the *Greenhouse Gas Emissions Targets Act*
- Local governments and communities in meeting their obligations under the Climate Action Charter;
- Offset projects as prescribed in relevant protocols;
- Other customers of BC Hydro and FortisBC who wish to calculate the GHG emissions associated with their electricity use.

## 2. Methodology

Electricity in BC, depending on geographical location (see maps in **Appendix A**), is supplied to customers either through the integrated grid, the Fort Nelson grid, or through community generating stations for isolated grid communities. Self-generated electricity for single family use as well as for industrial use is outside the scope of this document.

The Director must establish an emission intensity factor applicable to grid electricity for year Y (“Applicable  $EF^Y$ ”) for each calendar year, for the integrated grid and the Fort Nelson grid.

In year Y the most recent data available to the Director is from year Y-1, available in the fall of year Y. The Director can publish the Applicable  $EF^Y$  in late year Y. For example, in establishing the EF for year 2017, the most recent emission and generation data, available in the fall of 2017, is for year 2016.

In order to smooth out year-to-year variability in generated and imported electricity and associated emissions due to variability in water inflows and trading markets, a three-year running average based on the most recent three years of available data is calculated.

## 2.1 Integrated grid

Southern BC is covered by an electrical transmission grid with electricity supplied by BC Hydro and Fortis BC; it is connected to the Western United States and Alberta electrical grids. The integrated grid (also known as the “BC Hydro grid”) has multiple generating sources of electricity, including imports, of varying emission intensity. Since it is not possible to identify GHG emissions associated with specific electrons, a grid-wide emission intensity factor, calculated and published by the Director, is used in calculating GHG emissions attributable to that electricity.

The general formula for calculating the integrated grid electricity emission intensity factor is as follows:

$$EF_{IntGrid} = \frac{GHG_{gen} + GHG_{imp}}{MWh_{gen} + MWh_{imp} - MWh_{TDLoss}} \quad (1.1)$$

Where

- $GHG_{gen}$  = the emissions, in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e), attributable to electricity generation of electricity supplied to the integrated grid from facilities located in British Columbia<sup>1</sup>;
- $GHG_{imp}$  = the emissions, in tCO<sub>2</sub>e, attributable to electricity generation of electricity imported into British Columbia and supplied to the integrated grid;
- $MWh_{gen}$  = the amount of electricity, in MWh, supplied to the integrated grid from facilities located in British Columbia;
- $MWh_{imp}$  = the amount of electricity, in MWh, imported into British Columbia and supplied to the integrated);
- $MWh_{TDLoss}$  = the amount of electricity, in MWh, lost in the course of transmission and distribution of electricity to customers on the integrated grid.

Transmission and distribution losses are estimated as:

$$MWh_{TDLoss} = r_{TDL} \times (MWh_{gen} + MWh_{imp}) \quad (1.2)$$

Where  $r_{TDL} = 0.1$  is a BC-average transmission and distribution loss factor.

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<sup>1</sup> Not including electricity generated for the facility’s own use.



Note that:

$$GHG_{gen} = GHG_{BCH_{own}} + GHG_{IPP} + GHG_{FBC} + GHG_{CRT} - GHG_{SS} \quad (1.3)$$

Where

- $GHG_{BCH_{own}}$  = the emissions attributable to electricity generation from BC Hydro-owned generation supplying electricity to the integrated grid;
- $GHG_{IPP}$  = the emissions attributable to electricity generation from several categories of independent power producers supplying electricity to the integrated grid;
- $GHG_{FBC}$  = the emissions attributable to electricity generation from FortisBC generation connected to the integrated grid;
- $GHG_{CRT}$  = the emissions attributable to electricity generation from the Columbia River Treaty entitlements (= 0).
- $GHG_{SS}$  = the emissions attributable to electricity generated for specified sales. A specified sale is a transaction for the export of electricity outside of British Columbia, in which that transaction must identify the electricity generating facility or sub-facility, located in British Columbia, as the source of the electricity.

Similarly,

$$MWh_{gen} = MWh_{BCH_{own}} + MWh_{IPP} + MWh_{FBC} + MWh_{CRT} - MWh_{SS} \quad (1.4)$$

Where

- $MWh_{BCH_{own}}$  = the amount of electricity supplied to the integrated grid from BC Hydro's owned generation;
- $MWh_{IPP}$  = the amount of electricity supplied to the integrated grid from several categories of independent power producers supplying electricity to the integrated grid;
- $MWh_{FBC}$  = the amount of electricity supplied from FortisBC generation connected to the integrated grid;
- $MWh_{CRT}$  = the amount of electricity supplied to the integrated grid from the Columbia River Treaty entitlements.
- $MWh_{SS}$  = the amount of electricity generated for specified sales. A specified sale is a transaction for the export of electricity outside of British Columbia, in which that transaction must identify the electricity generating facility or sub-facility, located in British Columbia, as the source of the electricity.

For year Y, the applicable  $EF_{IntGrid}^Y$  as a three-year running average based on the most recent three years of available data is:

$$\text{Applicable } EF_{IntGrid}^Y = \frac{\sum_{n=Y-3}^{Y-1} \{GHG_{BCH_{own}}^n + GHG_{IPP}^n + GHG_{FBC}^n + GHG_{imp}^n + GHG_{CRT}^n - GHG_{SS}^n\}}{\sum_{n=Y-3}^{Y-1} \{MWh_{BCH_{own}}^n + MWh_{IPP}^n + MWh_{FBC}^n + MWh_{imp}^n + MWh_{CRT}^n - MWh_{SS}^n - MWh_{TDLoss}\}} \quad (1.5)$$

## 2.2 Fort Nelson grid

Northeast BC has its own grid which is connected to Alberta's electricity grid. It is not connected to the integrated grid. The region's electricity is supplied by the Fort Nelson generating station and imports from the Alberta grid (denoted below with the "impAB" subscript).

The general formula for calculating the Fort Nelson grid electricity emission intensity factor is as follows:

$$EF_{FNgrid} = \frac{GHG_{genFN} + GHG_{impAB}}{MWh_{genFN} + MWh_{impAB} - MWh_{TDLoss}} \quad (2.1)$$

Where

- $GHG_{genFN}$  = the emissions, in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e), attributable to electricity generation of electricity supplied to the Fort Nelson grid by the Fort Nelson generating station<sup>2</sup>;
- $GHG_{impAB}$  = the emissions, in tCO<sub>2</sub>e, attributable to electricity generation of electricity imported into British Columbia from the Alberta grid and supplied to the Fort Nelson grid;
- $MWh_{genFN}$  = the amount of electricity, in MWh, supplied to the Fort Nelson by the Fort Nelson generating station;
- $MWh_{impAB}$  = the amount of electricity, in MWh, imported into British Columbia from Alberta and supplied to the Fort Nelson grid;
- $MWh_{TDLossFN}$  = the amount of electricity, in MWh, lost in the course of transmission and distribution of electricity to customers on the Fort Nelson grid.

Transmission and distribution losses are estimated as:

$$MWh_{TDLossFN} = r_{TDL} \times (MWh_{genFN} + MWh_{impAB}) \quad (1.2)$$

Where  $r_{TDL} = 0.1$  is a BC-average transmission and distribution loss factor.

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<sup>2</sup> Not including electricity generated for the facility's own use.

For year Y, the applicable  $EF_{FNgrid}^Y$  as a three-year running average based on the most recent three years of available data is:

$$\begin{aligned} & \text{Applicable } EF_{FNgrid}^Y = \\ & = \sum_{n=Y-3}^{Y-1} \{GHG_{genFN}^n + GHG_{impAB}^n\} / \sum_{n=Y-3}^{Y-1} \{MWh_{genFN}^n + MWh_{impAB}^n - MWh_{TDLossFN}\} \quad (2.2) \end{aligned}$$

## 2.3 Isolated grids

Localized/community electricity generation which is not connected to either the integrated grid or the Fort Nelson grid is typically diesel-fired. Electricity EF must be calculated for each local generator following the methodology for general stationary combustion by fuel in WCI.20. Typically this would mean using default HHV or default fuel EF, values of which listed by fuel in Tables 20-1, 20-1a, 20-1a, 20-2, 20-3, 20-5, or 20-7, as applicable.

For example, from WCI 23 for CO<sub>2</sub> emissions:

(a) Calculation Methodology 1. Calculate the annual CO<sub>2</sub> mass emissions for each type of fuel by substituting a fuel-specific default CO<sub>2</sub> emission factor, a default high heat value, and the annual fuel consumption into Equation 20-1 or 20-1a:

$$CO_2 = Fuel \times HHV \times EF \times 0.001 \quad \text{Equation 20-1}$$
$$CO_2 = Fuel \times EF_c \times 0.001 \quad \text{Equation 20-1a}$$

Where:

CO<sub>2</sub> = Annual CO<sub>2</sub> mass emissions for the specific fuel type (tonnes).  
Fuel = Mass or volume of fuel combusted per year (express mass in tonnes for solid fuel, volume in standard cubic meters for gaseous fuel, or volume in kilolitres for liquid fuel).  
HHV = Default high heat value of the fuel, from Table 20-1 and 20-1a (GJ per tonne for solid fuel, GJ per kilolitre for liquid fuel, or GJ per cubic meter for gaseous fuel).  
EF = Fuel-specific default CO<sub>2</sub> emission factor, from Tables 20-1a, 20-2, 20-3, 20-5, or 20-7, as applicable (kg CO<sub>2</sub>/GJ).  
EF<sub>c</sub> = Fuel-specific default CO<sub>2</sub> emission factor, from Tables 20-2 or 20-5 (kg CO<sub>2</sub> per tonne for solid fuel, kg CO<sub>2</sub> per kilolitre for liquid fuel, or kg CO<sub>2</sub> per cubic meter for gaseous fuel).  
0.001 = Conversion factor from kilograms to tonnes.

The rules listed in WCI.23 including WCI.23(e) “Use of the Four CO<sub>2</sub> Calculation Methodologies” and in WCI.24 “Calculation of CH<sub>4</sub> and N<sub>2</sub>O Emissions” must be followed.

## Appendix A: BC Electrical transmission system

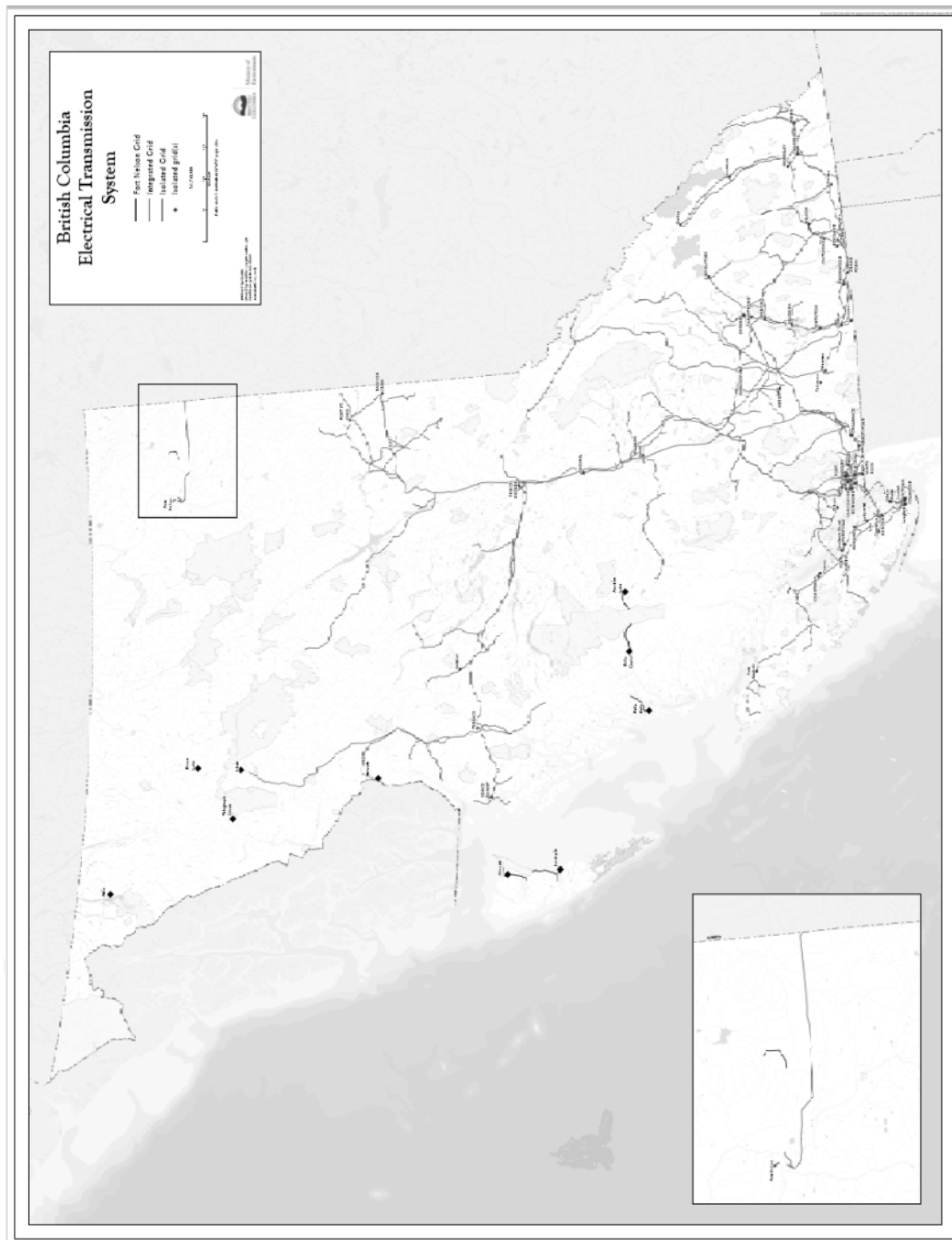


Figure 1: BC-wide map showing the integrated grid, the Fort Nelson grid and some isolated grid communities.

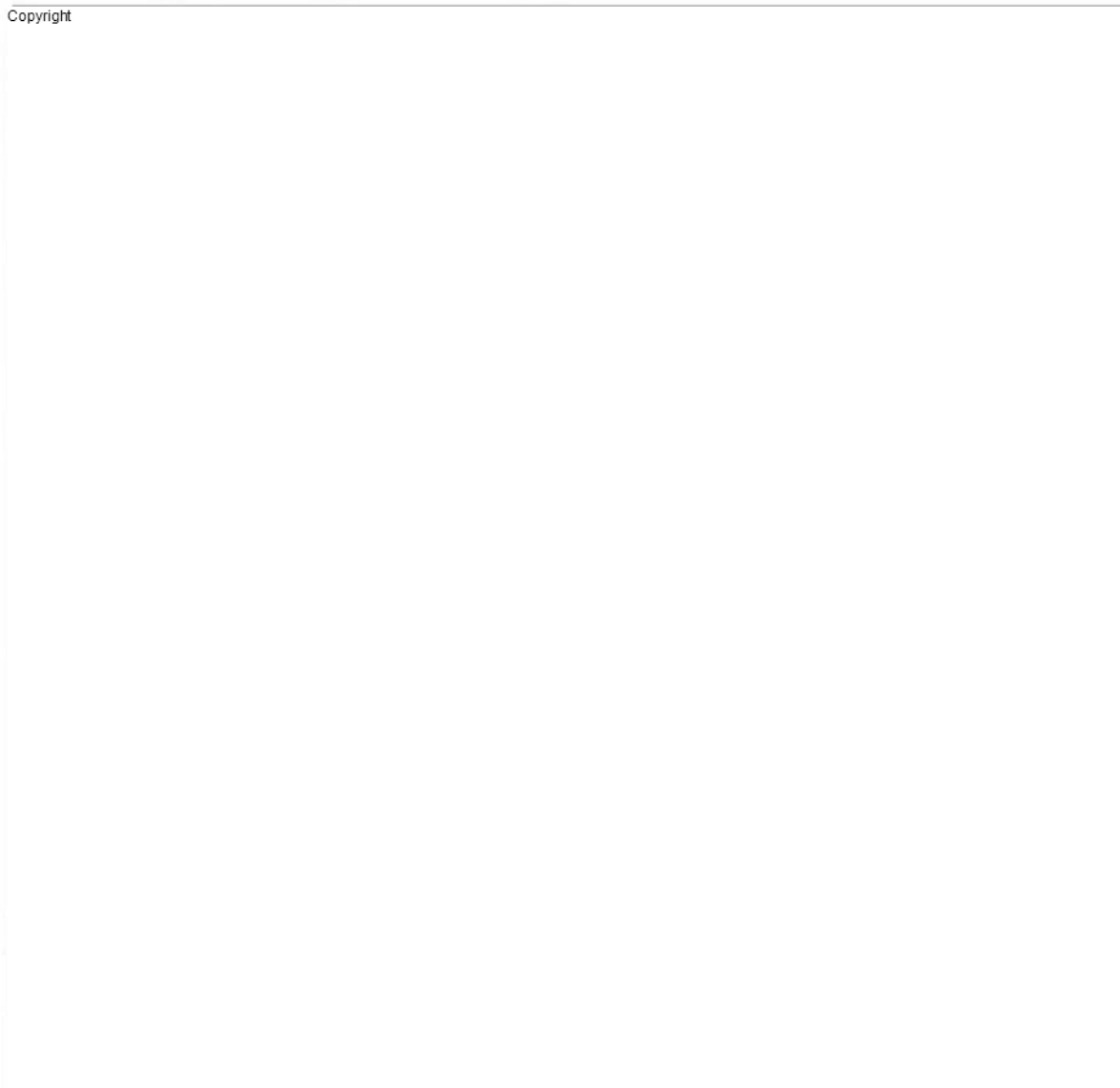


Figure 2: The general FortisBC portion of the integrated grid in southeast BC.

INTEGRATED GRID	GHG Emissions (t CO2e)				Electricity Generation (GWh)					
	2014	2015	2016	2017	2014	2015	2016	2017		
BCHydro own	22,197	16,056	11,550	714	s. 17				(includes T&D losses)	
FortisBC own	-	-	-	-						
IPPs (BCH + FBC)	s. 17									
Imports (BCH+FBC)	2,148,845	752,029	1,018,537	1,180,580						
CRT	-	-	-	-						
Specified Sales	s. 17								Subtracting these from the above	
T&D Losses										
Grand TOTAL excluding T&D losses	2,831,336	1,435,897	1,678,707	1,773,158						
			5,945,940	4,887,762						
Director's Electricity EF for Integrated Grid:									2017	2018
									31.7	25.3
each year:					47.1	22.6	26.4			
w/o imports:					12.5	11.3	11.1			

FORT NELSON GRID	2014	2015	2016	2017	s. 17				(includes T&D losses)	
BCH own (FNGen)	119,630	114,277	67,068	24,912						
Imports from Alberta	8,452	10,230	42,691	80,257						
T&D Losses										
Grand TOTAL excluding T&D losses	128,082	124,507	109,759	105,169						
			362,348	339,436						
Director's Electricity EF for Fort Nelson Grid:									2017	2018
									559	572



Order	COMPANY
1	Cariboo Pulp and Paper Company
2	Cariboo Pulp and Paper Company
3	Cariboo Pulp and Paper Company
4	Cariboo Pulp and Paper Company
5	Cariboo Pulp and Paper Company
6	Cariboo Pulp and Paper Company
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21	Cariboo Pulp and Paper Company
22	Cariboo Pulp and Paper Company
23	Cariboo Pulp and Paper Company
24	Cariboo Pulp and Paper Company
25	British Columbia Hydro and Power
26	British Columbia Hydro and Power
27	British Columbia Hydro and Power
28	British Columbia Hydro and Power
29	British Columbia Hydro and Power
30	British Columbia Hydro and Power
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34	British Columbia Hydro and Power
35	British Columbia Hydro and Power
36	British Columbia Hydro and Power
37	VF Clean Energy, Inc.
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39	VF Clean Energy, Inc.
40	V.I. Power LP
41	V.I. Power LP
42	V.I. Power LP
43	Capital Regional District

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46	Nanaimo Forest Products Ltd.
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155	Houweling Nurseries Ltd.
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171	Howe Sound Pulp & Paper Corp
172	Howe Sound Pulp & Paper Corp
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323	Skookumchuck Pulp Inc.
324	Skookumchuck Pulp Inc.
325	Spectra Energy Transmission

326	Spectra Energy Transmission
327	Spectra Energy Transmission
328	Spectra Energy Transmission
329	Spectra Energy Transmission
330	Spectra Energy Transmission
331	V.I. Power LP
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335	VF Clean Energy, Inc.
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348	Zellstoff Celgar Limited Partnersh
349	Zellstoff Celgar Limited Partnersh
350	Wastech Services Ltd.
351	Wastech Services Ltd.
352	Wastech Services Ltd.
353	Greater Vancouver Sewerage and
354	Greater Vancouver Sewerage and
355	Greater Vancouver Sewerage and
356	Greater Vancouver Sewerage and
357	Domtar Inc.
358	Domtar Inc.
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372	British Columbia Hydro and Power
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399	Conifex Inc.
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405	Skookumchuck Pulp Inc.
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413	Skookumchuck Pulp Inc.
414	Skookumchuck Pulp Inc.
415	Skookumchuck Pulp Inc.
416	Skookumchuck Pulp Inc.
417	Catalyst Paper Corporation
418	Catalyst Paper Corporation

419	Catalyst Paper Corporation
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425	Catalyst Paper Corporation
426	VF Clean Energy, Inc.
427	VF Clean Energy, Inc.
428	VF Clean Energy, Inc.
429	British Columbia Hydro and Power
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431	British Columbia Hydro and Power
432	British Columbia Hydro and Power
433	British Columbia Hydro and Power
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436	British Columbia Hydro and Power
437	British Columbia Hydro and Power
438	Houweling Nurseries Ltd.
439	Houweling Nurseries Ltd.
440	Houweling Nurseries Ltd.
441	V.I. Power LP
442	V.I. Power LP
443	V.I. Power LP
444	Cariboo Pulp and Paper Company
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463	Cariboo Pulp and Paper Company
464	Cariboo Pulp and Paper Company
465	Canfor Pulp Ltd.

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484	Canfor Pulp Ltd.
485	Howe Sound Pulp & Paper Corp
486	Howe Sound Pulp & Paper Corp
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495	Howe Sound Pulp & Paper Corp
496	Capital Regional District
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499	Nanaimo Forest Products Ltd.
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520	Spectra Energy Transmission
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526	Atlantic Power (Williams Lake) Li
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544	Wastech Services Ltd.
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547	Greater Vancouver Sewerage and
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556	Nanaimo Forest Products Ltd.
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559	Canfor Pulp Ltd.

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568	Zellstoff Celgar Limited Partnersh
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571	Skookumchuck Pulp Inc.
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574	Domtar Inc.
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586	Canfor Pulp Ltd.
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598	Cariboo Pulp and Paper Compan
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601	Skookumchuck Pulp Inc.
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604	Zellstoff Celgar Limited Partnersh
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607	Domtar Inc.
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610	Skookumchuck Pulp Inc.
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613	Cariboo Pulp and Paper Company
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624	Canfor Pulp Ltd.
625	Howe Sound Pulp & Paper Corporation
626	Howe Sound Pulp & Paper Corporation
627	Howe Sound Pulp & Paper Corporation
628	Nanaimo Forest Products Ltd.
629	Nanaimo Forest Products Ltd.
630	Nanaimo Forest Products Ltd.
631	Zellstoff Celgar Limited Partnership
632	Zellstoff Celgar Limited Partnership
633	Zellstoff Celgar Limited Partnership
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690	Capital Regional District
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711	Atlantic Power (Williams Lake) Li
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717	Cariboo Pulp and Paper Compan
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741	VF Clean Energy, Inc.
742	VF Clean Energy, Inc.
743	VF Clean Energy, Inc.
744	Skookumchuck Pulp Inc.
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782	Nanaimo Forest Products Ltd.
783	V.I. Power LP
784	V.I. Power LP
785	V.I. Power LP
786	Howe Sound Pulp & Paper Corp
787	Howe Sound Pulp & Paper Corp
788	Howe Sound Pulp & Paper Corp
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800	Houweling Nurseries Ltd.
801	Houweling Nurseries Ltd.
802	Houweling Nurseries Ltd.
803	Catalyst Paper Corporation
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812	Zellstoff Celgar Limited Partnersh
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826	Zellstoff Celgar Limited Partnersh
827	Conifex Inc.
828	Conifex Inc.
829	Conifex Inc.
830	Conifex Inc.
831	Conifex Inc.
832	Conifex Inc.
833	Spectra Energy Transmission
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837	Spectra Energy Transmission
838	Spectra Energy Transmission
839	Greater Vancouver Sewerage and
840	Greater Vancouver Sewerage and
841	Greater Vancouver Sewerage and

842	Greater Vancouver Sewerage and
843	Greater Vancouver Sewerage and
844	Greater Vancouver Sewerage and
845	Wastech Services Ltd.
846	Wastech Services Ltd.
847	Wastech Services Ltd.
848	British Columbia Hydro and Power
849	British Columbia Hydro and Power
850	British Columbia Hydro and Power





Zellstoff Celgar Limited Partnership	23221120011
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Skookumchuck Operation	23221120002
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Kamloops Mill (SFO)	23221120005
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Houweling Nurseries Ltd. - Delta	21114190004
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McMahon Cogen Plant	22211120001
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Howe Sound Pulp and Paper Mill	23221120006
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Metro Vancouver Waste-to-Energy Facility	25622100001
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Burrard Generating Station	22211120002
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Burrard Generating Station	22211120002
Fort Nelson Generating Station	22211120003
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Cariboo Pulp and Paper Company	23221120004
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Mackenzie Site 2 & Power Plant	23211110010
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Houweling Nurseries Ltd. - Delta	21114190004

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Howe Sound Pulp and Paper Mill	23221120006
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Cache Creek Landfill	25622100003
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Metro Vancouver Waste-to-Energy Facility	25622100001
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Prince George PGP Mill	23221120009
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Howe Sound Pulp and Paper Mill	23221120006
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Hartland Landfill	22211190001
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Cache Creek Landfill	25622100003
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Cariboo Pulp and Paper Company	23221120004
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Harmac Pacific Operations	23221120003
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Northwood Pulp Mill	23221120010

Northwood Pulp Mill	23221120010
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Zellstoff Celgar Limited Partnership	23221120011
Zellstoff Celgar Limited Partnership	23221120011
Zellstoff Celgar Limited Partnership	23221120011
Skookumchuck Operation	23221120002
Skookumchuck Operation	23221120002
Skookumchuck Operation	23221120002
Kamloops Mill (SFO)	23221120005
Kamloops Mill (SFO)	23221120005
Kamloops Mill (SFO)	23221120005
Howe Sound Pulp and Paper Mill	23221120006
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Northwood Pulp Mill	23221120010
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Harmac Pacific Operations	23221120003
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Prince George PGP Mill	23221120009
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Cariboo Pulp and Paper Company	23221120004
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Skookumchuck Operation	23221120002
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Skookumchuck Operation	23221120002
Zellstoff Celgar Limited Partnership	23221120011
Zellstoff Celgar Limited Partnership	23221120011
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Masset Diesel Generating Station	22211120004
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Northwood Pulp Mill	23221120010
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Skookumchuck Operation	23221120002
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Harmac Pacific Operations	23221120003
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Island Generation Inc	22211120005
Island Generation Inc	22211120005
Island Generation Inc	22211120005
Howe Sound Pulp and Paper Mill	23221120006
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Houweling Nurseries Ltd. - Delta	21114190004
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Powell River Division	23221110003
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Mackenzie Site 2 & Power Plant	23211110010
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Metro Vancouver Waste-to-Energy Facility	25622100001
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Metro Vancouver Waste-to-Energy Facility	25622100001
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Cache Creek Landfill	25622100003
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Burrard Generating Station	22211120002
Burrard Generating Station	22211120002
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# ElectricityGeneration







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11447	2017	ElectricityGeneration
11447	2017	ElectricityGeneration
11447	2017	ElectricityGeneration
11447	2017	ElectricityGeneration
11447	2017	ElectricityGeneration
11447	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	ElectricityGeneration
11460	2017	PulpAndPaperProduction
11460	2017	PulpAndPaperProduction
11460	2017	PulpAndPaperProduction
11489	2017	ElectricityGeneration
11489	2017	ElectricityGeneration
11489	2017	ElectricityGeneration
11489	2017	ElectricityGeneration
11489	2017	ElectricityGeneration
11361	2017	ElectricityGeneration
11361	2017	ElectricityGeneration
11361	2017	ElectricityGeneration
11361	2017	ElectricityGeneration
11361	2017	ElectricityGeneration
11167	2017	ElectricityGeneration
11167	2017	ElectricityGeneration
11167	2017	ElectricityGeneration



11167	2017	ElectricityGeneration
11167	2017	ElectricityGeneration
11167	2017	ElectricityGeneration
10446	2017	GeneralStationaryCombustion
10446	2017	GeneralStationaryCombustion
10446	2017	GeneralStationaryCombustion
9645	2017	ElectricityGeneration
9645	2017	ElectricityGeneration
9645	2017	ElectricityGeneration

[illegible]

[illegible]







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Emissions from fuel combustion for electricity generation	Propane (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilol
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilol
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilol
Emissions from fuel combustion for electricity generation	Propane (kilolitres)
Emissions from fuel combustion for electricity generation	Propane (kilolitres)
Emissions from fuel combustion for electricity generation	Propane (kilolitres)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Concentrated non-condensabl
Emissions from fuel combustion for electricity generation	Dilute non-condensable gases
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Natural Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Concentrated non-condensabl
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes
(a) general stationary combustion, useful energy	Landfill Gas (Sm^3)
(a) general stationary combustion, useful energy	Landfill Gas (Sm^3)
(a) general stationary combustion, useful energy	Landfill Gas (Sm^3)
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - non-bi
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - non-bi
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - non-bi
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - bioma:
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - bioma:
Emissions from fuel combustion for electricity generation	Municipal Solid Waste - bioma:
Emissions from pulping and chemical recovery	Spent Pulping Liquor
Emissions from pulping and chemical recovery	Spent Pulping Liquor
Emissions from pulping and chemical recovery	Spent Pulping Liquor
Emissions from pulping and chemical recovery	Spent Pulping Liquor
Emissions from pulping and chemical recovery	Spent Pulping Liquor
Emissions from pulping and chemical recovery	Spent Pulping Liquor

[illegible]

[illegible]











[illegible]

<b>Emissions from fuel combustion for electricity generation</b>	Municipal Solid Waste - bioma:
<b>Emissions from fuel combustion for electricity generation</b>	Municipal Solid Waste - bioma:
<b>Emissions from fuel combustion for electricity generation</b>	Municipal Solid Waste - bioma:
(a) general stationary combustion, useful energy	Landfill Gas (Sm <sup>3</sup> )
(a) general stationary combustion, useful energy	Landfill Gas (Sm <sup>3</sup> )
(a) general stationary combustion, useful energy	Landfill Gas (Sm <sup>3</sup> )
<b>Emissions from fuel combustion for electricity generation</b>	Natural Gas (Sm <sup>3</sup> )
<b>Emissions from fuel combustion for electricity generation</b>	Natural Gas (Sm <sup>3</sup> )
<b>Emissions from fuel combustion for electricity generation</b>	Natural Gas (Sm <sup>3</sup> )

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Type	GHG Emissions (t CO <sub>2</sub> e)				Net Electricity Generation (GWh) (including transmission losses)			
	2014	2015	2016	2017	2014	2015	2016	2017
Specified Sales	s.17							
Specified Sources								
Unspecified Sources (not incl. AB->FN)								
Columbia River Treaty								
Imports from AB to Fort Nelson grid (unspecified sources)								

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FortisBC Inc.	EIO	Warfield Control Centre	2825 ElectricityImportOperation	Emissions from specified s	- Emissions from unspecifie	s.17	EIO Total I	88,428	58	26831 Y	2013
FortisBC Inc.	EIO	Warfield Control Centre	4139 ElectricityImportOperation	Emissions from specified s	- Emissions from unspecifie		EIO Total I	72,946	58	27073 Y	2012
FortisBC Inc.	EIO	Warfield Control Centre	5616 ElectricityImportOperation	Emissions from specified s	Emissions from unspecifie	s.17	EIO Total I	48,967	58	30054 Y	2014
Powerex Corp.	EIO	Powerex EIO	4248 ElectricityImportOperation	Emissions from specified s	Emissions from unspecifie		EIO Total I	1,253,491	697	27182 Y	2013
Powerex Corp.	EIO	Powerex EIO	2260 ElectricityImportOperation	Emissions from specified s	Emissions from unspecifie		EIO Total I	1,084,554	697	26323 Y	2012
Powerex Corp.	EIO	Powerex EIO	8535 ElectricityImportOperation	Emissions from specified s	Emissions from unspecifie		EIO Total I	2,099,878	697	30147 Y	2014

FortisBC EIO Emissions (tonnes)

Company	Year	SSE	UnSE	Total Emissions	GWh Imported
FortisBC	2011	s.17		59,184	s.17
FortisBC	2012			72,946	
FortisBC	2013			88,428	
FortisBC	2014			48,967	
FortisBC	2015			30,507	
FortisBC	2016			42,217	
	2017			59,411	

Columbia Criver Treaty (CRT)  
Canadian Entitlement Agreement (CEA)  
Libby Coordination Agreement (LCA )

Fortis EIO 2016 MWh 2017

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Powerex EIO Emissions (tonnes) - Integrated Grid only

Company	Year	SSE	UnSE	Total	GWh Imported
Powerex	2011	s.17		1,877,145	s.17
Powerex	2012			1,084,554	
Powerex	2013			1,253,491	
Powerex	2014			2,099,878	
Powerex	2015			721,522	
Powerex	2016			976,320	

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	CRT (GWh)	CEA	LCA
2011	s.17		
2012			
2013			
2014			
2015			
2016			

Provincial EIO Emissions (tonnes) - Integrated Grid only

Year	SSE	UnSE	Total tCO2e	GWh Imported	Year
2011		s.17	1,936,329	s.17	2011
2012			1,157,500		2012
2013			1,341,919		2013
2014			2,148,845		2014
2015			752,029		2015
2016			1,018,537		2016
			7,336,621		2011-2016 average
			4,242,793		2013-2015 (3-yr) average

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**COMPANY**

British Columbia Hydro and Power Authority

British Columbia Hydro and Power Authority

British Columbia Hydro and Power Authority

Canfor Pulp Ltd.

Canfor Pulp Ltd.

Capital Regional District

Cariboo Pulp and Paper Company

Catalyst Paper Corporation

Conifex Inc.

Domtar Inc.

Houweling Nurseries Ltd.

Howe Sound Pulp & Paper Corporation

Nanaimo Forest Products Ltd.

Skookumchuck Pulp Inc.

Spectra Energy Transmission

V.I. Power LP

VF Clean Energy, Inc.

Zellstoff Celgar Limited Partnership

Wastech Services Ltd.

Greater Vancouver Sewerage and Drainage District

**FACILITY\_NAME**

Burrard Generating Station
Fort Nelson Generating Station
Masset Diesel Generating Station
Northwood Pulp Mill
Prince George Pulp and Paper and Intercontinental Pulp Mills

Hartland Landfill
Cariboo Pulp and Paper Company
Powell River Division
Mackenzie Site 2 & Power Plant
Kamloops Mill (SFO)
Houweling Nurseries Ltd. - Delta
Howe Sound Pulp and Paper Mill
Harmac Pacific Operations
Skookumchuck Operation
McMahon Cogen Plant
Island Generation Inc
VF Clean Energy, Inc.
Zellstoff Celgar Limited Partnership
Cache Creek Landfill
Metro Vancouver Waste-to-Energy Facility

## Checks

Burrard Generating Station

Fort Nelson Generating Station

Masset Diesel Generating Station

Northwood Pulp Mill

Prince George Pulp and Paper and Intercontinental Pulp Mills

Prince George Pulp and Paper and Intercontinental Pulp Mills

Hartland Landfill

Cariboo Pulp and Paper Company

Powell River Division

Mackenzie Site 2 & Power Plant

Kamloops Mill (SFO)

Houweling Nurseries Ltd. - Delta

Howe Sound Pulp and Paper Mill

Harmac Pacific Operations

Skookumchuck Operation

McMahon Cogen Plant

Island Generation Inc

VF Clean Energy, Inc.

Zellstoff Celgar Limited Partnership

Cache Creek Landfill

Metro Vancouver Waste-to-Energy Facility

COMPANY	FACILITY_NAME
Air Liquide Canada Inc.	Air Liquide Canada- Dawson Creek
Catalyst Paper Corporation	Crofton Division
Catalyst Paper Corporation	Port Alberni Division
Lantic Inc. - Vancouver Refinery	Lantic Inc. - Vancouver Refinery
Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
Nyrstar Myra Falls	Nyrstar Myra Falls Ltd
Teck Coal Limited	Line Creek Operations
Teck Metals Ltd, Trail Operations	Teck Metals Ltd, Trail Operations



Order	COMPANY	FACILITY_NAME
1	Air Liquide Canada Inc.	Air Liquide Canada- Dawson Creek
2	Air Liquide Canada Inc.	Air Liquide Canada- Dawson Creek
3	Air Liquide Canada Inc.	Air Liquide Canada- Dawson Creek
78	Catalyst Paper Corporation	Crofton Division
79	Catalyst Paper Corporation	Crofton Division
80	Catalyst Paper Corporation	Crofton Division
81	Catalyst Paper Corporation	Crofton Division
82	Catalyst Paper Corporation	Crofton Division
83	Catalyst Paper Corporation	Crofton Division
84	Catalyst Paper Corporation	Crofton Division
85	Catalyst Paper Corporation	Crofton Division
86	Catalyst Paper Corporation	Crofton Division
87	Catalyst Paper Corporation	Crofton Division
88	Catalyst Paper Corporation	Crofton Division
89	Catalyst Paper Corporation	Crofton Division
90	Catalyst Paper Corporation	Crofton Division
91	Catalyst Paper Corporation	Crofton Division
92	Catalyst Paper Corporation	Crofton Division
93	Catalyst Paper Corporation	Crofton Division
94	Catalyst Paper Corporation	Crofton Division
95	Catalyst Paper Corporation	Crofton Division
96	Catalyst Paper Corporation	Crofton Division
97	Catalyst Paper Corporation	Crofton Division
98	Catalyst Paper Corporation	Crofton Division
99	Catalyst Paper Corporation	Crofton Division
100	Catalyst Paper Corporation	Crofton Division
101	Catalyst Paper Corporation	Crofton Division
102	Catalyst Paper Corporation	Crofton Division
103	Catalyst Paper Corporation	Crofton Division
104	Catalyst Paper Corporation	Port Alberni Division
105	Catalyst Paper Corporation	Port Alberni Division
106	Catalyst Paper Corporation	Port Alberni Division
107	Catalyst Paper Corporation	Port Alberni Division
108	Catalyst Paper Corporation	Port Alberni Division
109	Catalyst Paper Corporation	Port Alberni Division
110	Catalyst Paper Corporation	Port Alberni Division
111	Catalyst Paper Corporation	Port Alberni Division
112	Catalyst Paper Corporation	Port Alberni Division
113	Catalyst Paper Corporation	Port Alberni Division
114	Catalyst Paper Corporation	Port Alberni Division
115	Catalyst Paper Corporation	Port Alberni Division
157	Lantic Inc. - Vancouver Refinery	Lantic Inc. - Vancouver Refinery
158	Lantic Inc. - Vancouver Refinery	Lantic Inc. - Vancouver Refinery
159	Lantic Inc. - Vancouver Refinery	Lantic Inc. - Vancouver Refinery
160	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill

161	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
162	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
163	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
164	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
165	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
166	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
167	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
168	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
169	Mackenzie Pulp Mill Corporation	Mackenzie Pulp Mill
191	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
192	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
193	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
194	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
195	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
196	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
197	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
198	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
199	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
200	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
201	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
202	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
203	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
204	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
205	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
206	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
207	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
208	Neucel Specialty Cellulose	Neucel Specialty Cellulose (SFO)
209	Nyrstar Myra Falls	Nyrstar Myra Falls Ltd
210	Nyrstar Myra Falls	Nyrstar Myra Falls Ltd
211	Nyrstar Myra Falls	Nyrstar Myra Falls Ltd
230	Teck Coal Limited	Line Creek Operations
231	Teck Metals Ltd, Trail Operations	Teck Metals Ltd, Trail Operations

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Emissions from fuel combustion for electricity generation	Natural Gas (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Natural Gas (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Natural Gas (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Natural Gas (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Natural Gas (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	CNCGs (Sm <sup>3</sup> )
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	Wood Waste (bone dry tonnes)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Residual Fuel Oil (#5 & 6) (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from fuel combustion for electricity generation	Diesel (kilolitres)
Emissions from installation, maintenance, operation and decommissioning of electrical equipment	
Emissions from installation, maintenance, operation and decommissioning of electrical equipment	

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