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Overview of the Canadian Energy Flow Account

Regional Seminar on the System of Environmental-Economic Accounts (SEEA) Central Framework in the Caribbean

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Castries, Saint Lucia

Joe St. Lawrence

Statistics Canada

Physical Flow Accounts in the SEEA

Table 3.2.1 General physical supply and use table

Supply table						
	Production; Generation of residuals		Accumulation	Flows from the rest of the world	Flows from the environment	Total
	Production; Generation of residuals by industries (incl. household production on own account) - classified by ISIC	Generation of residuals by households	Industries - classified by ISIC			
Natural inputs					A. Flows from the environment (incl. natural resource residuals)	Total Supply of Natural Inputs (TSNI)
Products	C. Output (incl. sale of recycled and reused products)			D. Imports of products		Total Supply of Products (TSP)
Residuals	I1. Residuals generated by industry (incl. natural resource residuals)	J. Residuals generated by household final consumption	K1. Residuals from scrapping and demolition of produced	L. Residuals received from rest of the world	M. Residuals recovered from the environment	Total Supply of Residuals (TSR)
	I2. Residuals generated following treatment		K2. Emissions from controlled landfill sites			
Total supply						
Use table						
	Intermediate consumption of products; Use of natural inputs; Collection of residuals	Final consumption*	Accumulation	Flows to the rest of the world	Flows to the environment	Total
	Industries - classified by ISIC	Households	Industries - classified by ISIC			
Natural inputs	B. Extraction of natural inputs					Total Use of Natural Inputs (TUNI)
	B1. Extraction used in production					
	B2. Natural resource residuals					
Products	E. Intermediate consumption (incl. purchase of recycled and reused products)	F. Household final consumption (incl. purchase of recycled and reused products)	G. Gross Capital Formation (incl. fixed assets and inventories)	H. Exports of products		Total Use of Products (TUP)
Residuals	N. Collection and treatment of residuals (excl. accumulation in controlled landfill sites)		O. Accumulation of waste in controlled landfill sites	P. Residuals sent to the rest of the world	Q. Residual flows to the environment	Total Use of Residuals (TUR)
					Q1. Direct from industry and households (incl. natural resource residuals & landfill emissions)	
					Q2. Following treatment	
Total use						

*No entries for government final consumption are recorded in physical terms. All government intermediate consumption, production and generation of residuals is recorded against the relevant industry in the first column of the PSUT.

Energy Accounts in the SEEA: Supply

Table 3.4.1 Physical supply and use table for energy (joules – net calorific units)

Physical supply table for energy	Production (including household production on own-account); Generation of residuals							Accumulation	Flows from the rest of the Imports	Flows from the environment	Total supply
	Agriculture, forestry and fishing	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning supply	Transportation and storage	Other industries	Households				
	ISIC 01	ISIC 02	ISIC 03	ISIC 04	ISIC 08						
Energy from natural inputs											
Natural resource inputs											
Mineral and energy resources										1 161.0	1 161.0
Timber resources										5.0	5.0
Inputs of energy from renewable sources											
Solar										20.0	20.0
Hydro										100.0	100.0
Wind										4.0	4.0
Wave and tidal											
Geothermal											
Other heat and electrical											
Other natural inputs											
Energy inputs to cultivated biomass										2.0	2.0
Total energy from natural inputs										1 292.0	1 292.0
Energy products											
Production of energy products by SIEC class											
Coal										225.0	225.0
Peat and peat products											
Oil shale/ oil sands											
Natural gas (extracted)			395.0								395.0
Natural gas (distributed)					369.1						369.1
Oil (e.g. conventional crude oil)			721.0								721.0
Oil (oil products)				347.0					930.0		1 277.0
Biofuels	5.3			0.2	1.5						7.0
Waste	39.0		54.5						16.9		110.4
Electricity					212.0				22.0		234.0
Heat					78.5						78.5
Nuclear fuels and other fuels nec											
Total energy products	44.3	1 116.0	401.7	661.1					1 193.9		3 417.0
Energy residuals											
Losses during extraction		45.0									45.0
Losses during distribution				12.0							12.0
Losses during storage			6.0								6.0
Losses during transformation			7.0	204.4							211.4
Other energy residuals	50.3	3.2	418.7	90.6	632.0	96.0	240.0				1 530.8
Total energy residuals	50.3	48.2	431.7	307.0	632.0	96.0	240.0				1 805.2
Other residual flows											
Residuals from end-use for non-energy purposes			51.0								51.0
Energy from solid waste								93.5			93.5
Total supply	94.6	1 164.2	884.4	968.1	632.0	96.0	240.0	93.5	1 193.9	1 292.0	6 658.7

Note: Dark grey cells are null by definition.

Energy Accounts in the SEEA: Use

Table 3.4.1 (cont.) Physical supply and use table for energy (joules – net calorific units)

Physical use table for energy	Intermediate consumption; Use of energy resources; Receipt of energy losses						Final consumption	Accumulation	Flows to the rest of the world	Flows to the environment	Total use
	Agriculture, forestry and fishing	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning supply	Transportation and storage	Other industries					
	ISIC 01	ISIC 02	ISIC 03	ISIC 04	ISIC 08	Households					
Energy from natural inputs											
Natural resource inputs		5.0	1 161.0								1 166.0
Inputs of energy from renewable sources					124.0						124.0
Other natural inputs		0.3		0.2	1.5						2.0
Total energy from natural inputs		5.3	1 161.0	0.2	225.5						1 292.0
Energy products											
Transformation of energy products by SIEC class											
Coal					223.0						223.0
Peat and peat products											
Oil shale/ oil sands											
Natural gas (extracted)					395.0						395.0
Natural gas (distributed)					87.0						87.0
Oil (e.g. conventional crude oil)				360.0							360.0
Oil (oil products)					16.0						16.0
Biofuels											
Waste					31.0						31.0
Electricity											
Heat											
Nuclear fuels and other fuels nec											
Total transformation of energy products				360.0	752.0						1 112.0
End-use of energy products by SIEC class											
Coal		2.0	0.1	17.0			1.0	-21.0	1.9		1.0
Peat and peat products											
Oil shale/ oil sands											
Natural gas (extracted)											
Natural gas (distributed)		2.0		39.0	0.1		12.0	26.0	2.0	201.0	282.1
Oil (e.g. conventional crude oil)										361.0	361.0
Oil (oil products)		34.0	2.0	326.0		621.0	49.0	102.0	-3.0	80.0	1 211.0
Biofuels		0.3		0.2	1.5			5.0			7.0
Waste		3.0	0.1	4.0	37.0		1.0	33.0	0.3	1.0	79.4
Electricity		7.0	1.0	22.0	50.0	10.0	15.0	29.0		100.0	234.0
Heat		2.0		10.5	2.0	1.0	19.0	44.0			78.5
Nuclear fuels and other fuels nec											0.0
Total end-use for energy purposes		50.3	3.2	418.7	90.6	632.0	96.0	240.0	-21.7	744.9	2 254.0
End-use of energy products for non-energy purposes				51.0							51.0
Energy residuals											
Losses during extraction										45.0	45.0
Losses during distribution										12.0	12.0
Losses during storage										6.0	6.0
Losses during transformation										211.4	211.4
Other energy residuals										1 530.8	1 530.8
Total energy residuals										1 805.2	1 805.2
Other residual flows											
Residuals from end-use for non-energy purposes								51.0			51.0
Energy from solid waste		39.0		54.5							93.5
Total use		94.6	1 164.2	884.4	968.1	632.0	96.0	240.0	29.3	744.9	1 805.2
										1 805.2	6 658.7

Note: Dark grey cells are null by definition.

Energy Accounts in Canada

Table 3.4.1 (cont.) Physical supply and use table for energy (joules – net calorific units)

Physical use table for energy	Intermediate consumption; Use of energy resources; Receipt of energy losses						Final consumption Households	Accumulation	Flows to the rest of the world Exports	Flows to the environment	Total use
	Agriculture, forestry and fishing	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning supply	Transportation and storage	Other industries					
	ISIC 01	ISIC 02	ISIC 03	ISIC 04	ISIC 08						
Energy from natural inputs											
Natural resource inputs		5.0	1 161.0								1 166.0
Inputs of energy from renewable sources					124.0						124.0
Other natural inputs		0.3		0.2	1.5						2.0
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Energy products											
Transformation of energy products by SIEC class											
Coal				223.0							223.0
Peat and peat products											
Oil shale/ oil sands											
Natural gas (extracted)					395.0						395.0
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Oil (e.g. conventional crude oil)			360.0								360.0
Oil (oil products)					16.0						16.0
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Waste					31.0						31.0
Electricity											
Heat											
Nuclear fuels and other fuels nec											
Total transformation of energy products			360.0	752.0							1 112.0
End-use of energy products by SIEC class											
Coal		2.0	0.1	17.0			1.0		-21.0	1.9	1.0
Peat and peat products											
Oil shale/ oil sands											
Natural gas (extracted)											
Natural gas (distributed)		2.0		39.0	0.1		12.0	26.0	2.0	201.0	282.1
Oil (e.g. conventional crude oil)										361.0	361.0
Oil (oil products)		34.0	2.0	326.0		621.0	49.0	102.0	-3.0	80.0	1 211.0
Biofuels		0.3		0.2	1.5			5.0			7.0
Waste		3.0	0.1	4.0	37.0		1.0	33.0	0.3	1.0	79.4
Electricity		7.0	1.0	22.0	50.0	10.0	15.0	29.0		100.0	234.0
Heat		2.0		10.5	2.0	1.0	19.0	44.0			78.5
Nuclear fuels and other fuels nec											0.0
Total end-use for energy purposes		50.3	3.2	418.7	90.6	632.0	96.0	240.0	-21.7	744.9	2 254.0
End-use of energy products for non-energy purposes				51.0							51.0
Energy residuals											
Losses during extraction										45.0	45.0
Losses during distribution										12.0	12.0
Losses during storage										6.0	6.0
Losses during transformation										211.4	211.4
Other energy residuals										1 530.8	1 530.8
Total energy residuals										1 805.2	1 805.2
Other residual flows											
Residuals from end-use for non-energy purposes								51.0			51.0
Energy from solid waste		39.0		54.5							93.5
Total use		94.6	1 164.2	884.4	968.1	632.0	96.0	240.0	29.3	744.9	1 805.2
										1 805.2	6 658.7

Note: Dark grey cells are null by definition.

Energy Accounts in Canada: Basic table

Energy Use by Sector and Fuel Type		Coal	Natural gas	Motor gasoline	Jet fuel	Diesel fuel	Light fuel oil	Heavy fuel oil	Liquified petroleum	Electricity	Coke	Wood	Spent	Purchased	Total
									gases				Liquor		
		terajoules													
BS11A00	Crop and animal production														
BS11300	Forestry and logging														
BS11400	Fishing, hunting and trapping														
BS11500	Support activities for agriculture and forestry														
BS21100	Oil and gas extraction														
BS21210	Coal mining														
BS21220	Metal ore mining														
BS21230	Non-metallic mineral mining and quarrying														
BS21300	Support activities for mining and oil and gas extraction														
BS22110	Electric power generation, transmission and distribution														
BS221A0	Natural gas distribution, water, sewage and other systems														
BS23A00	Residential building construction														
BS23B00	Non-residential building construction														
BS23C10	Transportation engineering construction														
BS23C20	Oil and gas engineering construction														
BS23C30	Electric power engineering construction														
BS23C40	Communication engineering construction														
BS23C50	Other engineering construction														
BS23D00	Repair construction														
BS23E00	Other activities of the construction industry														
BS31110	Animal food manufacturing														
BS31130	Sugar and confectionery product manufacturing														
BS31140	Fruit and vegetable preserving and specialty food manufacturing														
BS31150	Dairy product manufacturing														
BS31160	Meat product manufacturing														
BS31170	Seafood product preparation and packaging														
BS311A0	Miscellaneous food manufacturing														
BS31211	Soft drink and ice manufacturing														
BS31212	Breweries														
BS3121A	Wineries and distilleries														
BS31220	Tobacco manufacturing														
BS31A00	Textile and textile product mills														
BS31B00	Clothing and leather and allied product manufacturing														
BS32100	Wood product manufacturing														
BS32210	Pulp, paper and paperboard mills														
BS32220	Converted paper product manufacturing														
BS32300	Printing and related support activities														
BS32400	Petroleum and coal product manufacturing														
BS32510	Basic chemical manufacturing														



Overview of main data sources

Energy Supply and Demand Balances

Control totals, producer consumption, non-energy use etc.

Industrial Consumption of Energy Survey

Fuel use in manufacturing.

Annual Census of Mines

Fuel use in mining industries.

Transportation Surveys

Fuel use in transportation industries.

Input-output Tables

Fuel input expenditures users not surveyed above

Energy Supply and Demand Balances

Report on Energy Supply and Demand in Canada – 2011 Revision

Table 1-1
Primary and secondary energy, natural units — Canada

	Total coal, primary energy	Crude oil, primary energy	Natural gas, primary energy	Gas plant natural gas liquids (NGL's), primary energy	Primary electricity, hydro and nuclear, primary energy	Steam, primary energy	Coke, secondary energy	Coke oven gas, secondary energy	Total refined petroleum products, secondary energy	Secondary electricity, thermal, secondary energy
	kilotonnes	megalitres	gigalitres	megalitres	GWH	kilotonnes	gigalitres	megalitres	GWH	
Supply and demand characteristics										
Production	67,450.0	175,359.0	157,735.7	28,629.6	470,737.3	-	2,803.7	1,257.1	117,751.4	147,812.9
Exports	x	128,645.2	92,723.6	5,880.0	51,516.8	-	49.9	-	22,007.5	-
Imports	9,799.5	39,416.3	31,327.8	876.7	14,961.6	-	656.6	-	16,156.8	-
Inter-regional transfers	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0	-
Stock variation	-167.3	-584.5	-3,002.1	73.9	-	-	46.4	-	311.4	-
Inter-product transfers	-	-	-2,341.2	-	-	-	-	-	-5,191.8	-
Other adjustments	-153.0	17,298.0	3,084.1	1,537.7	-	-	410.0	-	11,554.2	-
Availability	44,588.7	104,010.6	100,144.9	25,090.2	434,182.1	-	3,773.0	1,257.1	117,350.6	147,812.9
Stock change, utilities and industry	-	-	-	-	-	-	-	-	-	-
Transformed to other fuels										
Electricity by utilities	x	-	11,220.6	-	-	-	-	-	1,200.3	-
Electricity by industry	-	-	3,828.5	-	-	-	-	x	515.1	-
Coke and manufactured gases	3,702.2	-	-	-	-	-	-	-	-	-
Refined petroleum products	-	106,012.0	1,024.4	3,239.3	-	-	-	-	-	-
Steam generation	2.9	-	542.7	-	-	-8,931.0	-	-	18.7	-
Net supply	2,416.6	-	83,530.7	21,850.9	434,182.1	8,931.0	3,773.0	1,235.9	115,616.7	147,812.9
Producer consumption	7.0	-	14,145.6	527.8	56,000.1	-	-	-	13,372.1	-
Non-energy use	211.3	-	4,104.2	17,649.8	-	-	498.4	-	13,977.9	-
Energy use, final demand	2,206.8	-	65,300.9	23,296.8	516,018.2	8,931.0	3,276.7	1,355.8	86,208.4	-
Total industrial	2,151.1	-	30,734.4	2,744.9	202,910.9	8,927.1	3,276.7	1,355.8	7,307.6	-
Total mining and oil and gas extraction	x	-	13,487.5	1,910.8	30,450.1	-	140.0	-	3,101.0	-
Total manufacturing	2,036.1	-	16,830.0	x	172,460.8	8,927.1	3,136.7	1,355.8	1,821.6	-
Pulp and paper manufacturing	-	-	1,819.5	-	36,008.7	518.0	-	-	x	-
Iron and steel manufacturing	x	-	x	-	x	-	x	1,355.8	x	-
Aluminum and non-ferrous metal manufacturing	x	-	x	-	53,615.4	-	x	-	x	-
Cement manufacturing	982.7	-	56.1	-	x	-	x	-	x	-
Refined petroleum products manufacturing	-	-	1,526.5	-	5,379.9	-	-	-	x	-
Chemicals and fertilizers manufacturing	x	-	4,868.0	-	19,564.7	3,576.6	-	-	x	-
All other manufacturing	317.7	-	5,820.0	x	46,198.5	x	x	-	680.5	-
Forestry and logging and support activities for forestry	-	-	-	-	-	-	-	-	568.0	-
Construction	-	-	436.8	x	-	-	-	-	1,799.1	-
Total transportation	-	-	2,939.5	476.0	3,851.3	-	-	-	67,583.0	-
Railways	-	-	-	-	-	-	-	-	2,538.1	-
Total airlines	-	-	-	-	-	-	-	-	5,344.6	-
Canadian airlines	-	-	-	-	-	-	-	-	4,207.2	-
Foreign airlines	-	-	-	-	-	-	-	-	1,136.4	-
Total marine	-	-	-	-	-	-	-	-	2,572.0	-
Domestic marine	-	-	-	-	-	-	-	-	2,023.6	-
Foreign marine	-	-	-	-	-	-	-	-	548.4	-
Pipelines	-	-	2,897.6	-	3,123.7	-	-	-	4.7	-
Road transport and urban transit	-	-	41.8	476.0	727.6	-	-	-	10,878.9	-
Retail pump sales	-	-	-	-	-	-	-	-	46,445.6	-
Agriculture	-	-	873.4	329.6	9,446.3	0.0	-	-	5,171.6	-
Residential	55.0	-	17,692.2	650.9	153,031.3	0.0	-	-	2,008.9	-
Public administration	-	-	488.8	-	12,283.2	0.0	-	-	1,568.3	-
Commercial and other institutional	x	-	12,572.6	1,445.6	134,495.2	3.9	-	-	1,971.0	-
Statistical difference	-8.5	-	-	5.6	-	0.0	-	-	49.6	-

Note(s): See "Data quality, concepts and methodology — Explanatory notes for tables" section.

Energy Supply and Demand Balances: Source Surveys

Coke Monthly

Coal Monthly

Monthly Oil Pipeline Transport

Gas Utilities/Transportation and Distribution Systems (Monthly)

Monthly Refined Petroleum Products

Monthly Electricity

Natural Gas Disposition – Annual

End-Use of Refined Petroleum Products – Annual

Monthly Oil Pipeline Statement

Electricity Supply and Disposition – Annual

Electric Power Thermal Generating Station Fuel Consumption

Monthly Crude Oil and Natural Gas

Annual Industrial Consumption of Energy Survey

Annual Survey of Secondary Distributors of Refined Petroleum Products

Final Output: Energy Use

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Table 153-0032 ^{1, 2, 3}
Energy use, by sector
 annual (terajoules)

Data table | Add/Remove data | Manipulate | Download | Related information | Help

The data below is a part of CANSIM table 153-0032. Use the [Add/Remove data](#) tab to customize your table.

Selected items [\[Add/Remove data\]](#)

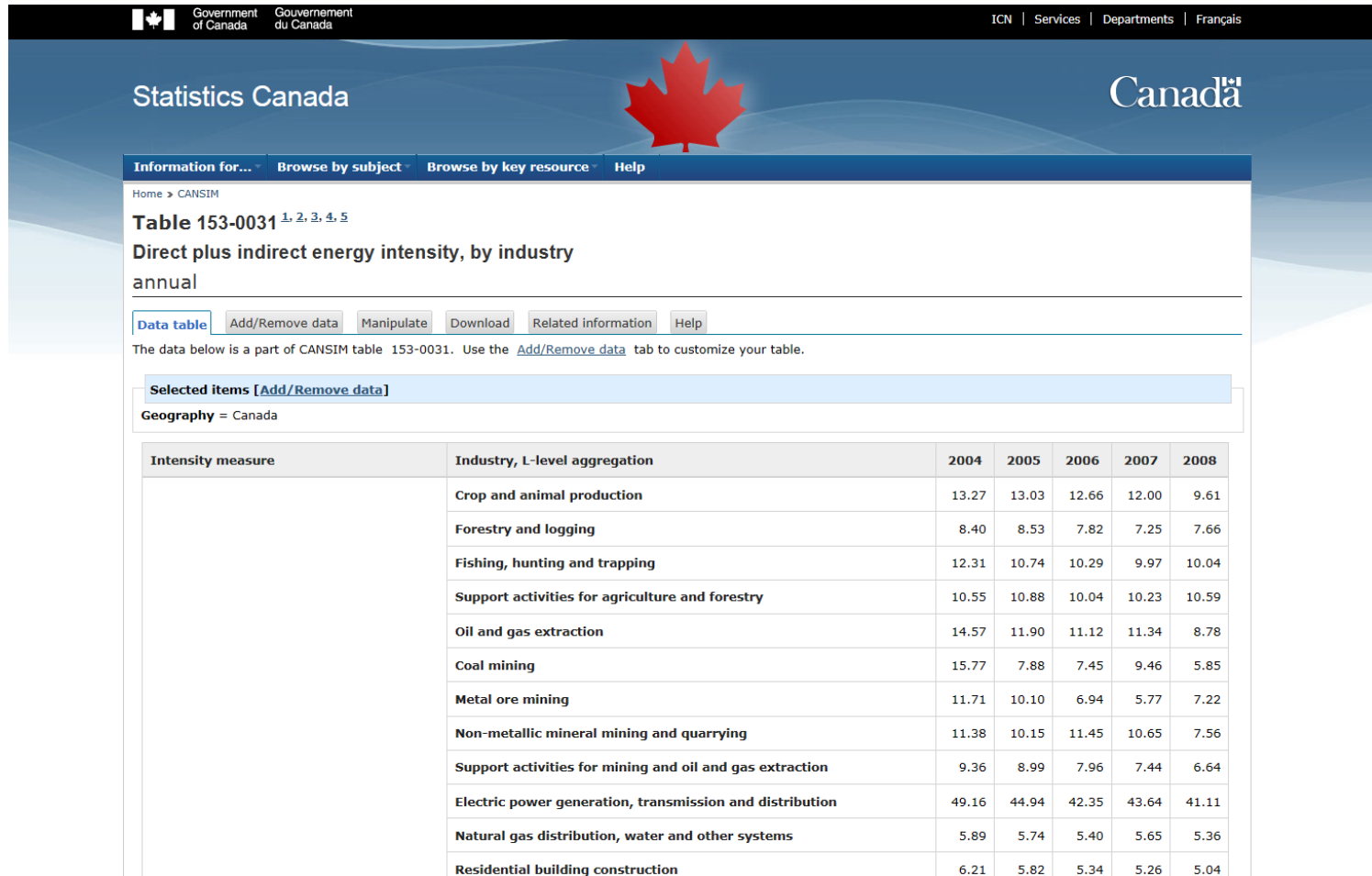
Geography = Canada

Sector	2004	2005	2006	2007	2008
Total, all sectors	10,498,742	10,470,903	10,226,701	10,840,945	10,612,484
Business sector	7,658,424	7,632,322	7,442,237	7,851,631	7,649,385
Crop and animal production	177,363	169,023	162,585	177,368	174,849
Forestry and logging	41,144	44,839	38,362	31,051	30,369
Fishing, hunting and trapping	16,950	13,492	11,351	11,196	11,118
Support activities for agriculture and forestry	13,468	15,955	14,049	15,295	15,837
Oil and gas extraction	1,074,476	1,112,942	1,052,099	1,104,403	1,096,012
Coal mining	17,916	14,919	12,498	14,162	17,921
Metal ore mining	70,269	74,533	74,584	70,172	82,056
Non-metallic mineral mining and quarrying	55,270	53,045	58,387	58,604	58,858
Support activities for mining and oil and gas extraction	54,195	61,830	68,896	63,791	61,170
Electric power generation, transmission and distribution	1,611,069	1,623,420	1,515,911	1,666,580	1,657,178

Statistics Canada. Table 153-0032 - Energy use, by sector, annual (terajoules), CANSIM (database).

<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=1530032&paSer=&pattern=&stByVal=1&p1=1&p2=50&tabMode=dataTable&csid=>

Final Output: Energy Intensity



Statistics Canada. Table 153-0031 - Direct plus indirect energy intensity, by industry, CANSIM (database).

<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=1530031&paSer=&pattern=&stByVal=1&p1=1&p2=50&tabMode=dataTable&csid=>

Energy Accounts Uses



Calculation of GHG emissions accounts

Impact analysis for International Trade

CGE modelling

Input-Output modelling

Energy use and intensity analysis

Etc...

Quality Control – Analysis

Coherence, time series, etc.

- % changes in energy use from current year to previous year, per industry, per fuel.
- Implicit price (\$ paid/TJ) and intensity (TJ/\$ output), per industry, per fuel.

GHG account output

- Coherence analysis of the GHG account provides feedback to the energy account.

Bridge tables

- to explain visually how we go from the total energy consumed to the energy flow account.

Quality Control - Bridge Tables

line #	S-	RESO fuel type	MEFA fuel type	ICE (fuel use)	ICE (non-fuel use)	Pet Report and I/O Prov	Thermal Plants Survey	Census of Mines	Transportation Surveys	Input-Output expenditure allocation	Net adjustment due to other data sources	Energy transformation	Producer consumption	Transportation	Foreign use of fuels	Stock change	Other adjustments	Total final adjustment	Benchmark	Final MEFA Account
MEFA fuel #3 - Natural gas, 2006p (TJ)																				
1	Plus	Natural gas	Natural gas																	
2		7,190,199	7,190,199																	
3	1	3,898,248	3,898,248																	
4	2	368,569	368,569																	
5	3	0	0																	
6	4	-28,499	-28,499																	
7	5	-75,367	-75,367																	
8	6	-213,857	-213,857																	
9	7	3,399,789	3,399,789																	
10	8	0	0																	
11	9																			
12	10	233,518	233,518																	
13	11	82,028	82,028																	
14	12	0	0																	
15	13	28,308	28,308																	
16	14	19,547	19,547																	
17	15	3,035,387	3,035,387																	
18	16	629,691	629,691																	
19	17	157,044	157,044																	
20	18	2,248,657	2,248,657																	
21	19	952,876	952,876																	
22	20	258,814	258,814	10,294																
23	21	675,344	675,344																	
24	22	63,954	63,954	11,830																
25	23	64,192	64,192	8,432																
26	24	25,944	25,944	10,991																
27	25	2,471	2,471	186																
28	26	49,455	49,455	63																
29	27	120,968	120,968	26,290																
30	28	348,860	348,860	-122,646																
31	29	0	0	5																
32	30	18,718	18,718	267																
33	31	190,299	190,299																	
34	32	0	0	37																
35	33	0	0																	
36	34	0	0	266																
37	35	0	0																	
38	36	0	0																	
39	37	0	0	233																
40	38	0	0																	
41	39	188,420	188,420	555																
42	40	1,878	1,878	1,384																
43	41	0	0																	
44	42	20,474	20,474	2,317																
45	43	617,441	617,441																	
46	44	21,822	21,822	10,309																
47	45	445,745	445,745	31,498																
48	99	-6	-6	7,649																
49																				
Balanced totals																			3,210,867	3,210,867

Challenges

- **Integration of data from many sources/providers**
 - Concepts and definitions may be different: be careful of double counting.
 - *Some data include foreign purchases of domestic fuel.*
 - *Some data include producer consumption, some do not.*
 - Source data are not all collected using the same classification systems.
 - Input data are not always in a dataset format.
- **Need to find new data sources**
 - Improve household and services sectors (less surveyed).
 - Help for decision making when two sources give us different pictures.

Questions?

Joe St. Lawrence

Environment Accounts and Statistics | Comptes et statistique de l'environnement
R.H. Coats Building | Immeuble R.-H.-Coats / Floor | Étage 25 M
Statistics Canada | 100 Tunney's Pasture Driveway, Ottawa ON K1A 0T6
Statistique Canada | 100, promenade Tunney's Pasture, Ottawa ON K1A 0T6
Joe.St.Lawrence@statcan.gc.ca
Telephone | Téléphone 613-951-7709
Facsimile | Télécopieur 613-951-0634
Government of Canada | Gouvernement du Canada