

Natural Resources  
Canada

Ressources naturelles  
Canada

# Energy Fact Book

## Spring 2026 Edition

Canada





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# Preface

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The Energy Fact Book provides **reliable, up-to-date statistics and analysis** to support evidence-based dialogue on Canada's energy sector. The new spring and fall release schedule will help ensure the publication continues to reflect the latest data and developments across Canada's energy system.

Designed for a wide audience—including government, industry, academia, educators, media and the public—**this resource aims to bridge technical depth with broad accessibility.**

The contents of this publication span a wide array of indicators including energy production and consumption, prices and trade; as well as economic contributions, technology trends and environmental impacts—curated to provide a holistic overview of the sector.

The Energy Fact Book draws on the expertise of Natural Resources Canada, Statistics Canada, the Canada Energy Regulator and Environment and Climate Change Canada, and **benefits from ongoing collaboration across federal and provincial agencies**, under the scope of the **Canadian Centre for Energy Information.**

Refer to the annexes for definitions, methodology, and notes on data availability and consistency. For questions and comments, contact **[energyfacts-faitsenergetiques@nrcan-rncan.gc.ca](mailto:energyfacts-faitsenergetiques@nrcan-rncan.gc.ca)**.



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# Introduction

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Canada is an energy nation. From hydroelectricity to the oil sands to emerging renewables, our vast and varied natural resources have helped build a resilient economy, connect our communities, and support energy security at home and abroad.

Today, the energy landscape is evolving. Canada is innovating in how energy is produced, delivered, and used. Renewable electricity continues to grow, led by wind and solar. Oil and gas remain foundational to the mix, meeting energy needs at home and abroad, supported by efficiency gains and operational advancements in production and use. At the same time, clean fuels are emerging and technologies such as carbon capture, energy storage, and electrification are reshaping industrial processes and transportation.

These changes are part of a global energy transformation—driven by technological change, shifting demand, affordability needs, and the imperative to maintain international competitiveness. With its geography, skilled workforce, and commitment to research, Canada is positioned to lead in this transformation, —leveraging regional strengths, priorities, energy mixes, and economic pathways.

**Reliable data are essential to understanding these developments and seizing the opportunities they create for innovation, investment, and long-term economic growth. By presenting key facts and indicators on Canada's energy system in a clear and accessible format, the Energy Fact Book has remained a trusted reference for over fifteen years.**



# Section 1: **Key Energy, Economic and Environmental Indicators**

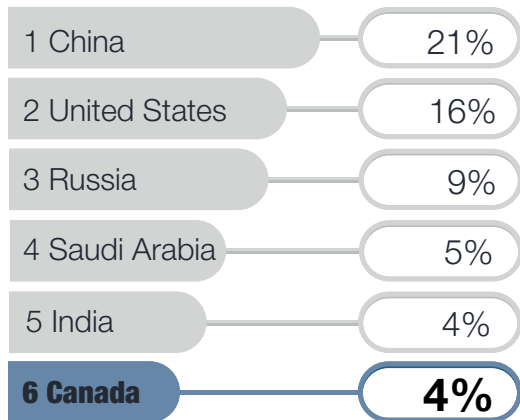
Energy production and supply  
Economic contributions  
Energy and GHG emissions

# Energy Production and Supply

## CANADA: A GLOBAL ENERGY LEADER

The amount of primary energy produced by Canada in 2023 is **42% more** than in 2005. The world, on average, has increased energy production by **34%** in the same period.

### WORLD TOTAL PRIMARY ENERGY PRODUCTION TOP ENERGY PRODUCERS, 2023



### GLOBAL ENERGY RANKINGS FOR CANADA

	Proved reserve/ capacity	Production	Exports
Crude oil	4	4	3
Uranium	3	2	2
Hydroelectricity	4	3	-
Electricity	8	7	3
Coal	19	14	8
Natural gas	10	5	6

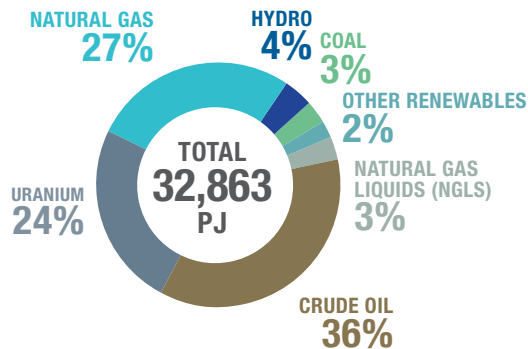
## CANADIAN ENERGY PRODUCTION

Primary energy is energy that is found in nature before any processing or conversion. *The Energy Fact Book* calculates primary energy production by using two methods. The first method treats the energy embodied in uranium as primary energy, thereby capturing the uranium Canada produces and then exports. This method provides a more accurate picture of energy production in Canada.

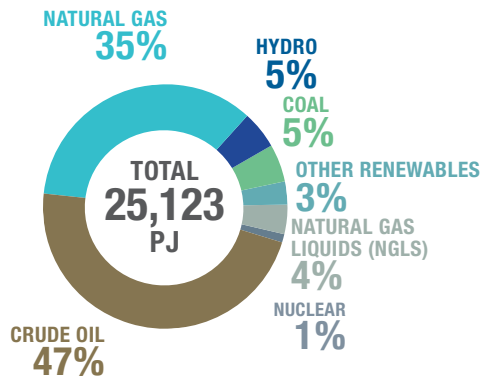
The second method—also employed by the International Energy Agency (IEA), the Energy Information Administration (EIA) and others—treats domestic electricity production from nuclear energy as primary energy, but not uranium itself. Uranium is energy-dense, and Canada exports most of its uranium production, which explains why the two methods produce such different results.

## PRIMARY ENERGY PRODUCTION BY SOURCE (2024)

### PRIMARY ENERGY PRODUCTION, INCLUDING URANIUM



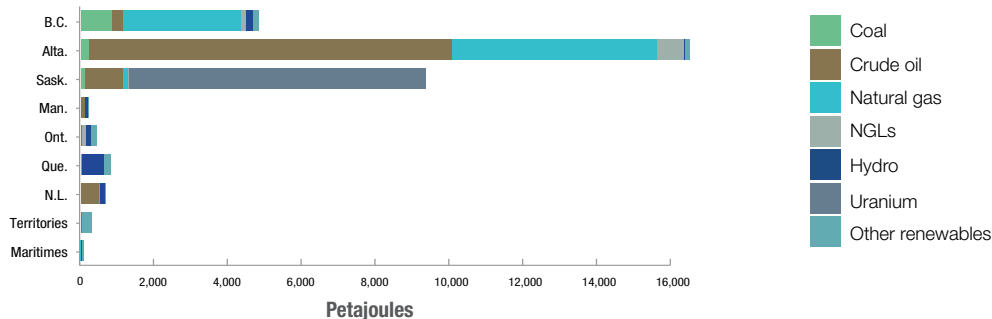
### PRIMARY ENERGY PRODUCTION, EXCLUDING URANIUM



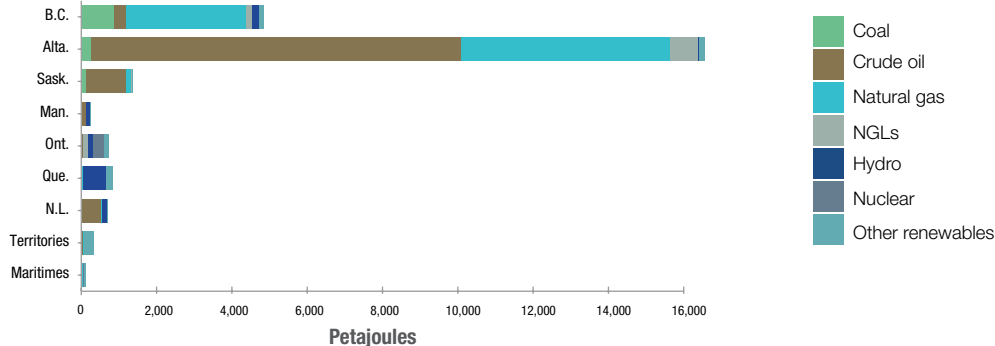
"Other renewables" includes wind, solar, wood/wood waste, biofuels and municipal waste.

# PRIMARY ENERGY PRODUCTION BY REGION AND SOURCE (2024)

## PRIMARY ENERGY PRODUCTION, INCLUDING URANIUM



## PRIMARY ENERGY PRODUCTION, EXCLUDING URANIUM

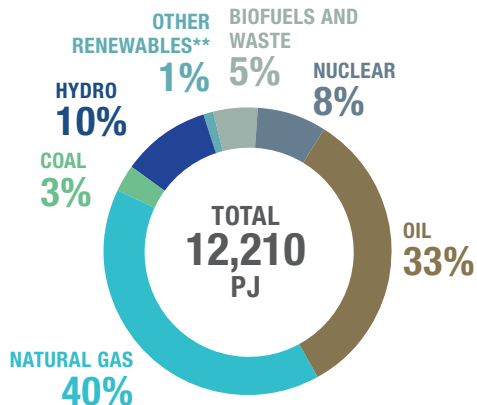


## CANADA'S ENERGY SUPPLY

A look at Canada's total energy supply (TES) helps to better understand the impact of energy sources on GHG emissions. The TES<sup>1</sup> is calculated as:

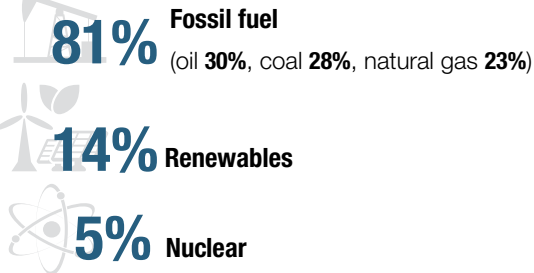
$$\text{TES} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS} + \text{STOCK CHANGES}$$

### CANADA TOTAL ENERGY SUPPLY,\* BY SOURCE, 2023



- Fossil fuels made up **76%** of Canada's TES in 2023.
- Renewable energy sources made up **16.5%** of Canada's TES in 2023.

Comparatively, the global TES is made up of



\* not including electricity trade

\*\*\*Other renewables\* includes wind, solar and geothermal.

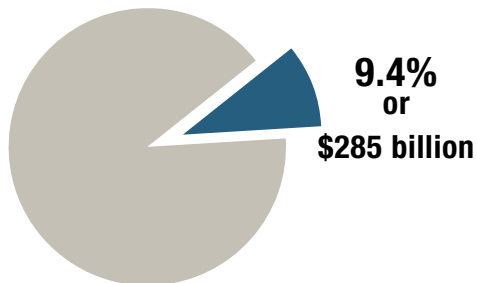
<sup>1</sup> For the purposes of TES, electricity production is calculated by using the energy content of the electricity (i.e. at a rate of 1 TWh = 0.086 Mtoe), with the exception of nuclear electricity, which is calculated assuming a 33% conversion efficiency factor increase (i.e. 1 TWh = 0.086 ÷ 0.33 Mtoe).

# Economic Contributions

## NOMINAL GROSS DOMESTIC PRODUCT (2025)

### ENERGY'S NOMINAL GDP CONTRIBUTION FOR CANADA

NOMINAL GDP (% OF CURRENT DOLLARS)



#### CANADIAN GDP

**ENERGY DIRECT 8.0% (\$244 billion)**

PETROLEUM 6.1%

ELECTRICITY 1.7%

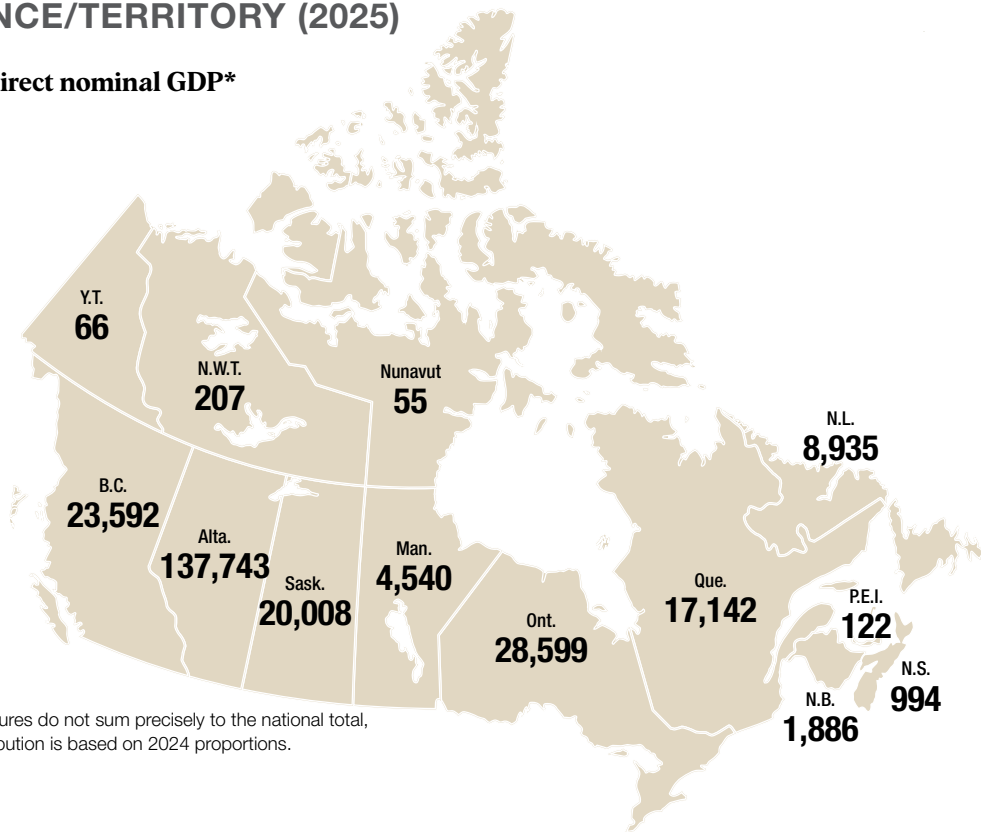
OTHER 0.2%

**ENERGY INDIRECT 1.4% (\$41 billion)**

Parts may not sum to total due to rounding. For more information on the methodology used by Statistics Canada to estimate indirect contributions, please contact [statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca](mailto:statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca).

## ENERGY'S NOMINAL GDP CONTRIBUTION BY PROVINCE/TERRITORY (2025)

Energy sector direct nominal GDP\*  
(\$ millions)



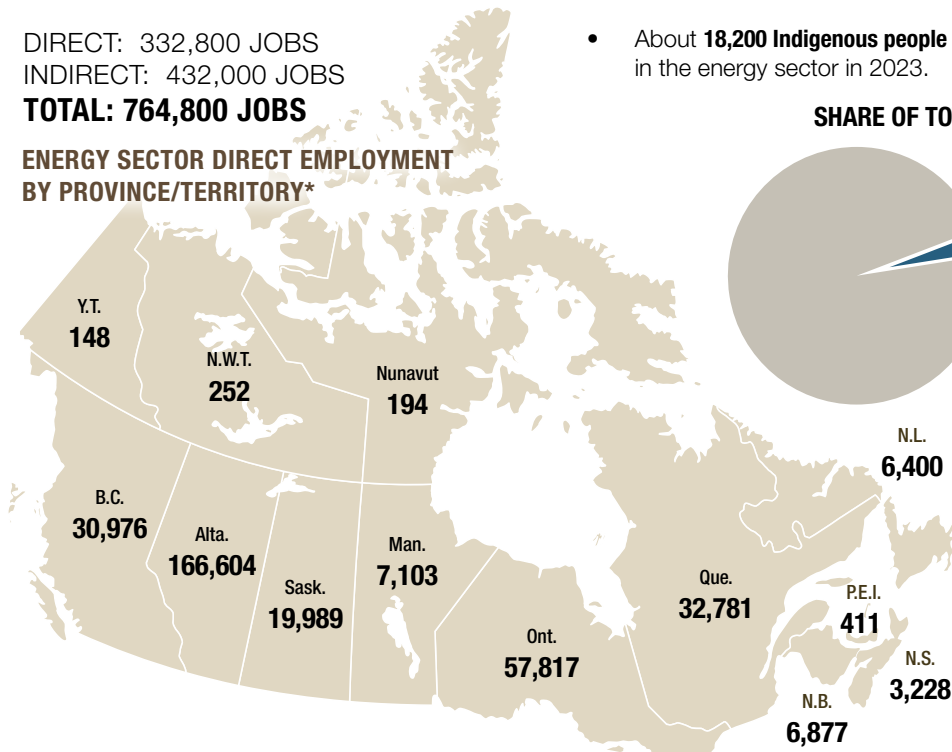
\*Provincial/territorial figures do not sum precisely to the national total, due to rounding. Distribution is based on 2024 proportions.

# EMPLOYMENT IN CANADA'S ENERGY SECTOR (2025)

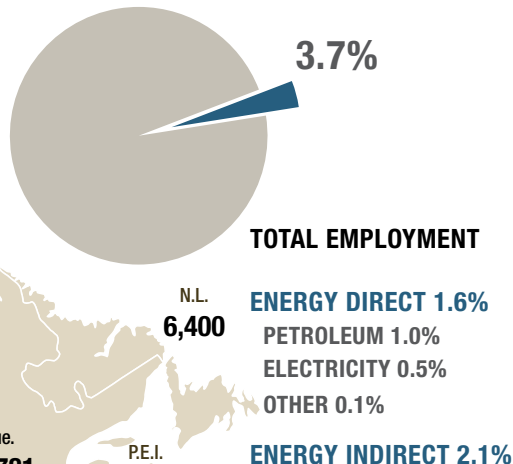
DIRECT: 332,800 JOBS  
 INDIRECT: 432,000 JOBS  
**TOTAL: 764,800 JOBS**

- About **18,200 Indigenous people** were directly employed in the energy sector in 2023.

## ENERGY SECTOR DIRECT EMPLOYMENT BY PROVINCE/TERRITORY\*

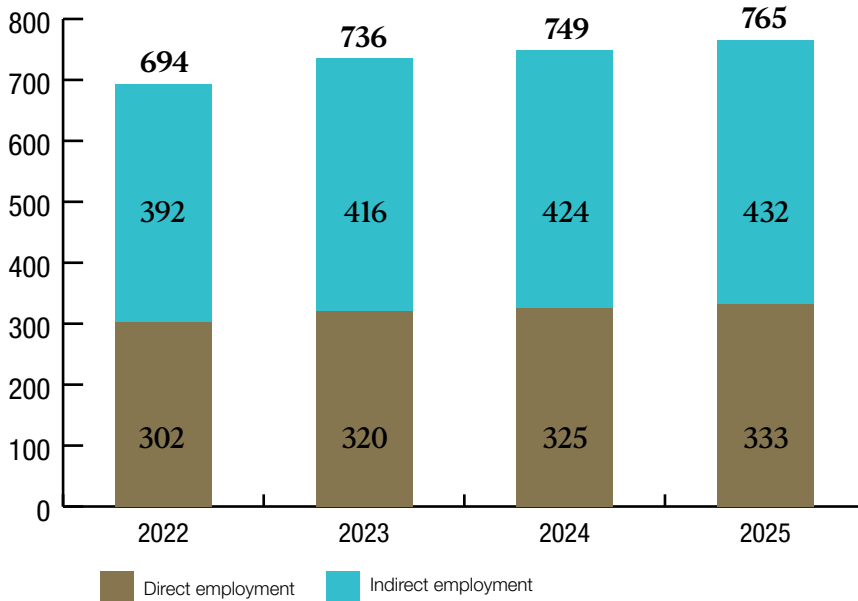


## SHARE OF TOTAL EMPLOYMENT, 2025



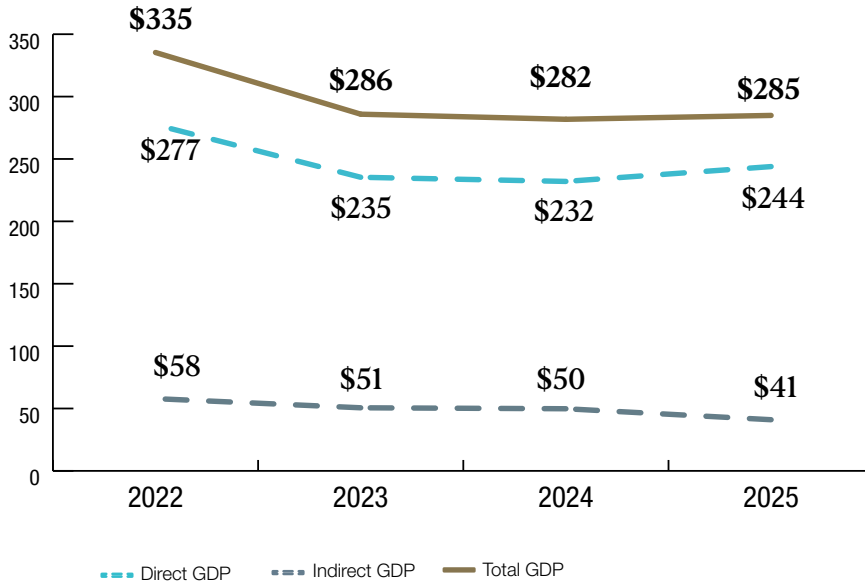
The indirect contribution is not comparable to previously published estimates due to revisions and a change in estimation methodology by Statistics Canada. For more information on Statistics Canada's estimation methodology, please contact [statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca](mailto:statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca).

### ENERGY SECTOR EMPLOYMENT (Thousands of jobs)



Parts may not sum to total due to rounding. The indirect contribution is not comparable to previously published estimates due to revisions and a change in estimation methodology by Statistics Canada. For more information on Statistics Canada's estimation methodology, please contact [statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca](mailto:statcan.iadinfoddc-dciinfoiad.statcan@statcan.gc.ca).

### ENERGY SECTOR GDP (Billions of dollars)



Parts may not sum to total due to rounding. The indirect contribution is not comparable to previously published estimates due to revisions and a change in estimation methodology by Statistics Canada. For more information on Statistics Canada's estimation methodology, please contact [statcan.iadinfoddc1-dciinfoiad.statcan@statcan.gc.ca](mailto:statcan.iadinfoddc1-dciinfoiad.statcan@statcan.gc.ca).

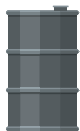
## ENERGY TRADE (2025)

### Energy exports

**\$197.8 billion**  
representing

**27%**

of total Canadian  
goods exports

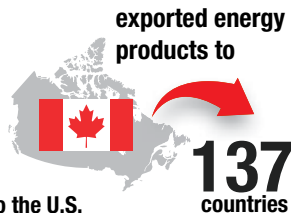


Oil and gas domestic  
exports totalled

**\$182 billion**

of which

**89%** were to the U.S.



The U.S. accounts for





**85%**


of energy exports  
by value  
(\$168.9 billion)

### Exports to the U.S.



Crude oil 

Natural gas 

Electricity 

Coal 

% of Canadian exports destined for U.S.	% of Canadian production exported to U.S.	% of U.S. imports coming from Canada	% of U.S. consumption supplied by Canada
90	82	63	23
97	45	>99	9
100	6	81	1
1	2	19	0.1

## Energy imports

**\$54.4 billion**  
representing



of total Canadian  
goods imports

imported energy  
products from



**119**  
countries

The U.S. accounts for







**79%**

of energy imports  
by value  
(\$43 billion)

## Imports from the U.S.

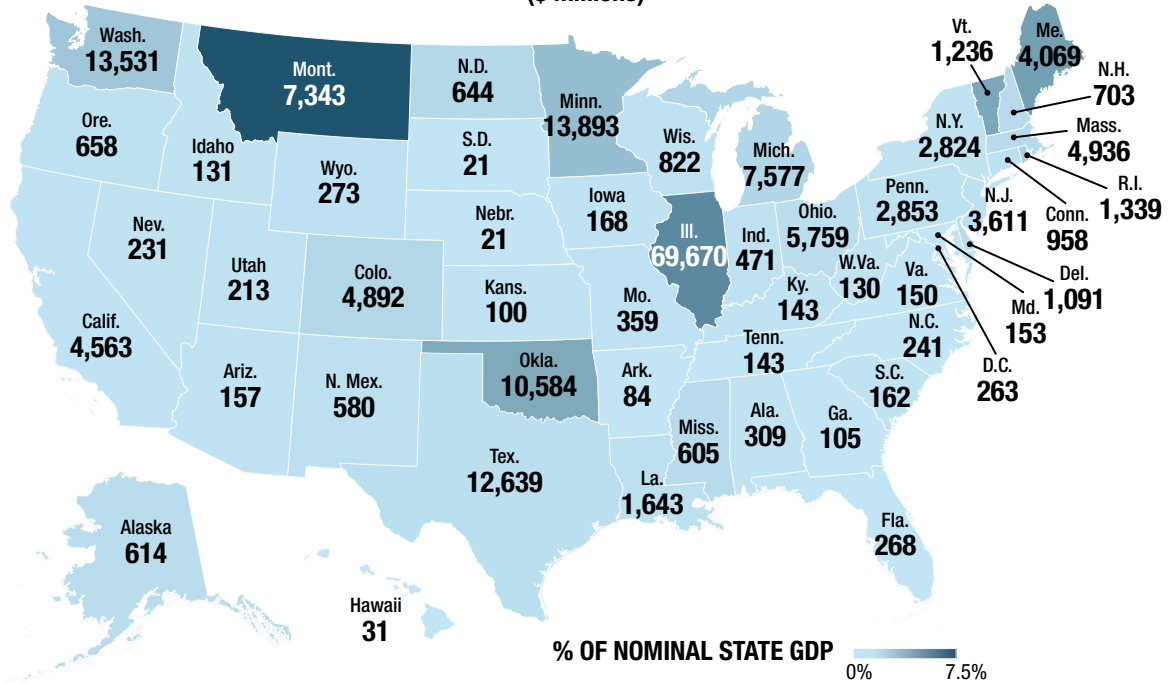


- Crude oil 
- Natural gas 
- Electricity 
- Coal 

% of Canadian imports originating from U.S.	% of U.S. exports destined for Canada	% of Canadian consumption supplied by U.S.
76	10	22
96	12	17
100	90	4
67	5	32

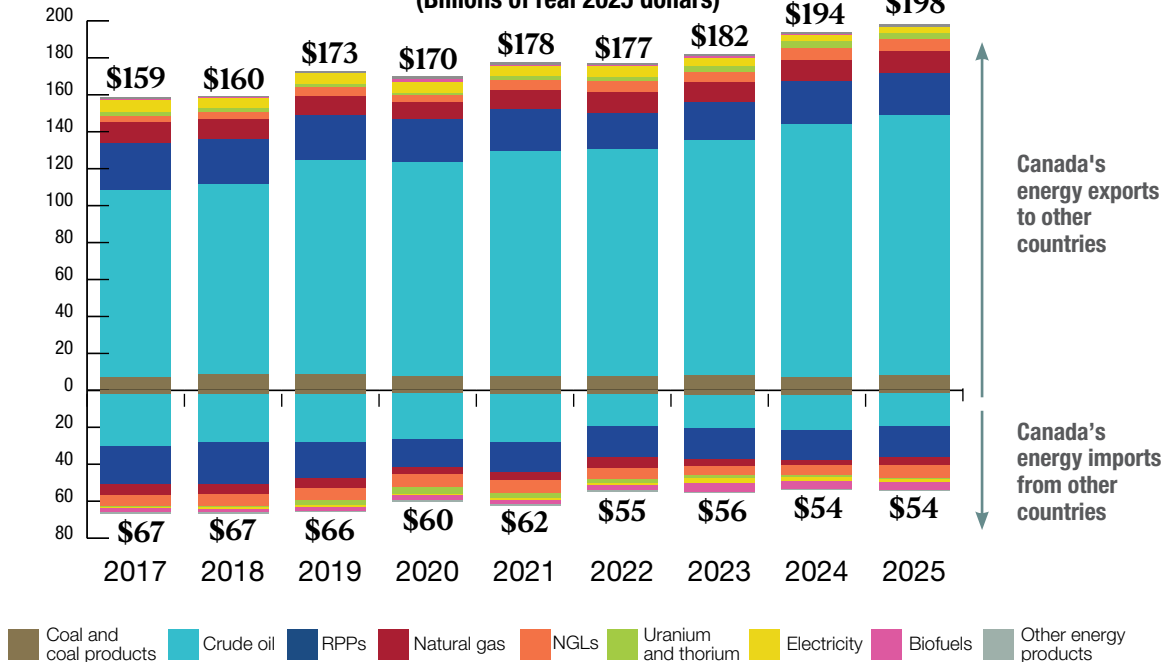
## CANADIAN ENERGY EXPORTS TO THE U.S. BY STATE (2024)

(\$ millions)



\* All exports values in Canadian dollars. Values may not sum to U.S. total due to rounding and additional exports to overseas U.S. Territories.

### CANADA'S GLOBAL ENERGY TRADE (Billions of real 2025 dollars)

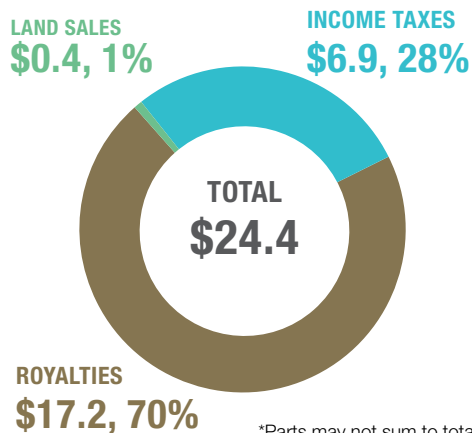


Despite energy price fluctuations, Canada's inflation-adjusted energy trade has remained resilient. From 2017 to 2025 Canada exported nearly **\$1.6 trillion** in energy products while importing over **\$500 billion**.

## GOVERNMENT REVENUES

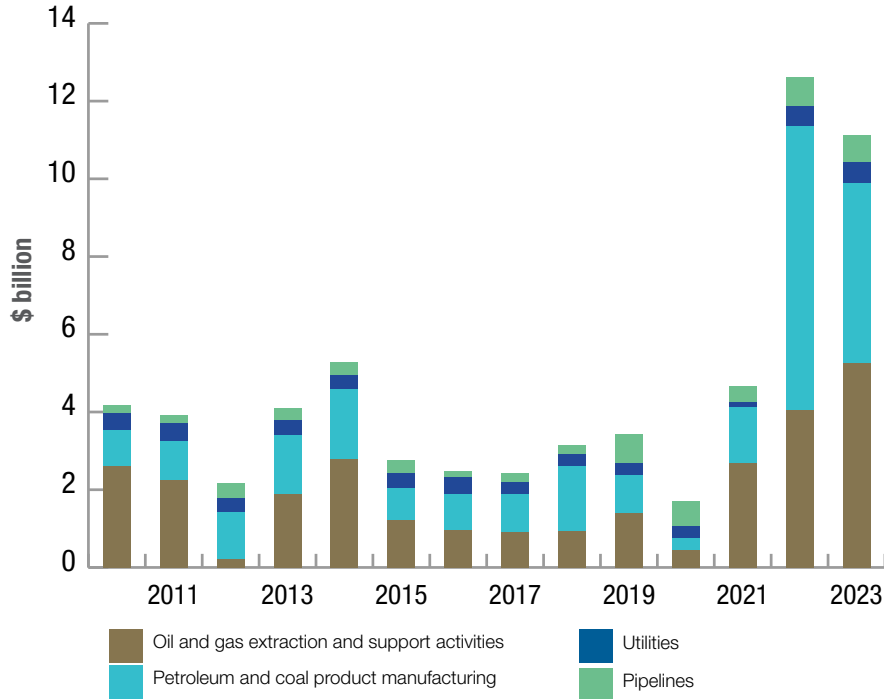
Federal and provincial/territorial governments in Canada receive direct revenues from energy industries through corporate income taxes, crown royalties, which are the share of the value of oil and gas extracted that is paid to the Crown as the resource owner, and crown land sales, which are paid to the Crown in order to acquire the resource use for specific properties.

### GOVERNMENT ENERGY REVENUE, 2019-2023 AVERAGE (\$ BILLIONS)



- An important share of government revenues is collected from the petroleum sector, which averaged **\$24 billion** over the last five years, including **\$20 billion** from upstream oil and gas extraction and its support activities.
- Between 2019 and 2023, the energy sector's share of taxes paid by all industries was **8.0%**. Operating revenues of the energy sector represented **9.1%** of all operating revenues earned by industries in Canada.

## CORPORATE INCOME TAXES PAID BY ENERGY INDUSTRIES (Federal and Provincial)



# Energy and GHG Emissions



In 2023,

# 78%

of global GHG emissions from human activity were from the production and consumption of energy.



This includes activities such as using gasoline for transportation, fossil fuel-fired electricity generation, oil and gas production, and heating and cooling buildings.



In Canada, **about 81%** of emissions come from energy. Canadians use more energy because of our extreme temperatures, vast landscape and dispersed population.

The challenges of transitioning to a lower-carbon energy system are numerous, but they also present opportunities for Canada to be a global leader by supporting innovative technologies in the energy sector, including promoting our growing renewables and cleantech sectors.



Since 2000, there has been a decoupling between the growth of Canada's economy and GHG emissions, largely because of technological improvements, regulations, and more efficient practices and equipment.

In 2023, emissions increased slightly as economic activity continued to recover from the impacts of the COVID-19 pandemic, with 2023 emissions 53 Mt lower than in 2019 (-7.1%).

Between 2000 and 2023,  
Canada's GHG emissions  
decreased by

↓ **7%**

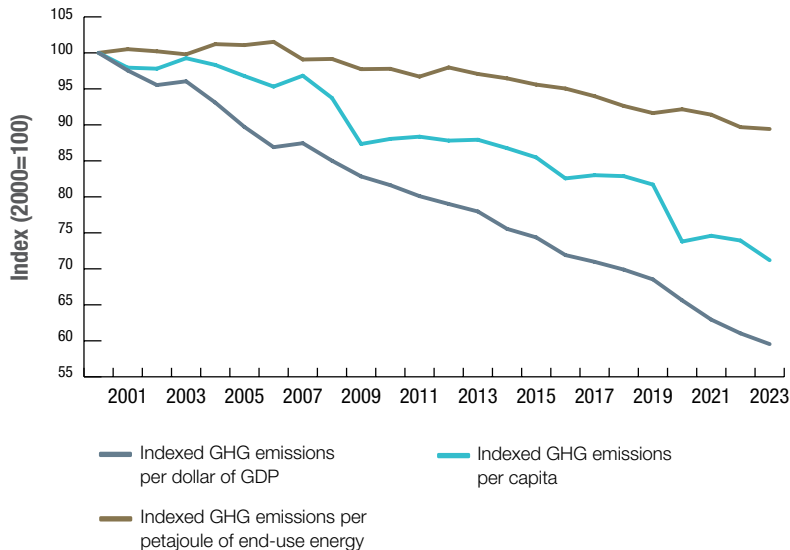
while GDP increased

↑ **56%**

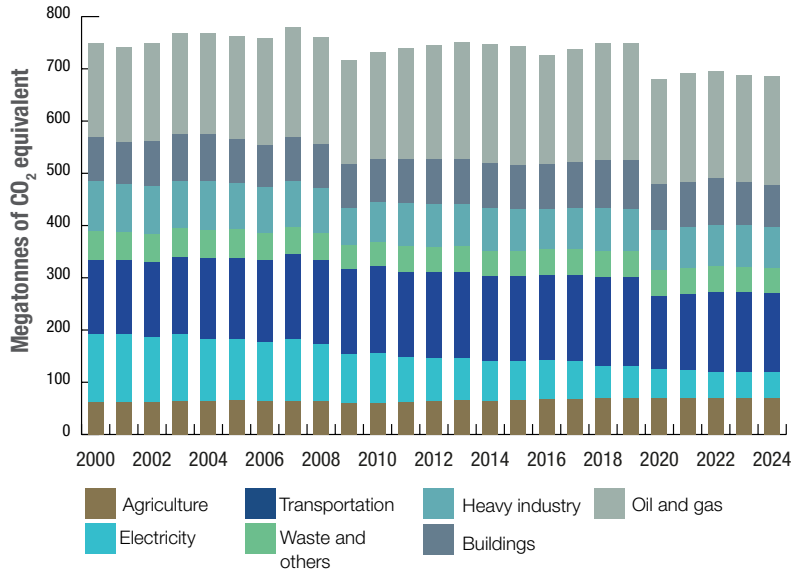
GHG emissions decreased

↓ **39%**  
per dollar of GDP and  
**26.1%**  
per capita.

### INDEXED TREND IN GHG EMISSIONS PER PERSON, PER UNIT OF GDP AND PER UNIT OF ENERGY CONSUMED, 2000–2023



## GHG EMISSIONS BY CANADIAN ECONOMIC SECTOR, 2000–2024



- Between 2000 and 2024, **emissions from electricity production decreased 61%**, largely because of Ontario’s successful coal phase-out action plan, which started in 2001.
- **Emissions from oil and gas production increased 16%** largely due to an increase of 67% in production.
- **Emissions from heavy industry have decreased by 20%** despite an increase in output of the industrial sector. This is due in part to improvements in energy efficiency and fuel switching.

# CANADA'S ENERGY INFORMATION LANDSCAPE

Canadian energy data is produced by a diverse range of entities. Established in 2020, the **Canadian Centre for Energy Information (CCEI)** works to consolidate and enhance the quality and accessibility of Canadian energy data.



## FEDERAL GOVERNMENT

- Statistics Canada
- Natural Resources Canada
- Canada Energy Regulator
- Environment and Climate Change Canada



## PROVINCES & TERRITORIES

- Provincial and territorial governments
- Energy regulators
- Public utilities and system operators



## INDUSTRY

- Energy producers
- Infrastructure companies
- Industry associations



## RESEARCHERS

- Universities and scientific institutions
- Independent research organizations
- Collaborative research networks



# ANNEXES

## **Annex 1: Notes on methodology**

In this publication, energy industries are generally considered to include oil and gas extraction; coal mining; uranium mining; electric power generation, transmission and distribution; pipeline transportation; natural gas distribution; biofuels production; petroleum refineries; and support activities for oil and gas extraction. The petroleum sector is a subset of these industries, and in this publication consists of oil and gas extraction and support activities, pipeline transportation and distribution of oil and gas, and petroleum refineries.

Clean energy industries such as renewable and nuclear electricity generation, biofuels production and carbon capture and storage facilities are contained within the definition of energy industries. Some energy-related industries (e.g. petroleum product wholesaler-distributors and coal product manufacturing) are excluded because of a lack of data.

This publication represents data availability at the time of its preparation. All data is subject to revisions by statistical sources. In some instances, more than one source may be available and discrepancies in numbers may occur because of conceptual or methodological differences. In addition, some numbers may not add up precisely due to rounding.

## Annex 2: Units and conversion factors

### PREFIXES AND EQUIVALENTS

Prefix				
SI/Metric		Imperial	Equivalent	
k	kilo	M	thousand	10 <sup>3</sup>
M	mega	MM	million	10 <sup>6</sup>
G	giga	B	billion	10 <sup>9</sup>
T	tera	T	trillion	10 <sup>12</sup>
P	peta	-	quadrillion	10 <sup>15</sup>

#### Notes

- Tonne may be abbreviated to “t” and is not to be confused with “T” for tera or trillion.
- Roman numerals are sometimes used with imperial units (this can create confusion with the metric “M”).

## CRUDE OIL

### Upstream

- reserves usually in barrels or multiples (million barrels)
- production/capacity often in barrels per day or multiples (thousand barrels/day or Mb/d, million barrels/day or MMb/d)
- metric: 1 cubic metre = 6.2898 barrels
- International Energy Agency: uses weight (tonnes) rather than volume

### Downstream (petroleum products)

- volumes of refined products usually in litres
- 1,000 litres = 1 cubic metre
- U.S.: 1 U.S. gallon = 3.785 litres

## NATURAL GAS

### Volume

- reserves/production usually in cubic feet or multiples (billion cubic feet or Bcf, trillion cubic feet or Tcf)
- production/capacity often in cubic feet per day or multiples (Bcf/d, Tcf/d)
- metric: 1 cubic metre = 35.3147 cubic feet

### Density

- 1 million t LNG = 48.0279 billion cubic feet

### Pricing

Volume-based:

- cents per cubic metre ( $\text{¢/m}^3$ ) (customer level in Canada)
- \$ per hundred cubic feet (\$/CCF) (customer level in the U.S.)

Energy content-based:

- \$ per gigajoule (\$/GJ) (company level in Canada)
- \$ per million British thermal units (\$/MMbtu) (company level in the U.S., LNG)

## URANIUM

- 1 metric tonne = 1,000 kilograms of uranium metal (U)
- U.S.: in pounds of uranium oxide ( $\text{U}_3\text{O}_8$ )
- 1 lb.  $\text{U}_3\text{O}_8$  = 0.84802 lb. U = 0.38465 kg U

## COAL

- 1 metric tonne = 1,000 kilograms
- U.S.: 1 short ton = 2,000 pounds
- 1 metric tonne = 1.10231 short tons

## ELECTRICITY

### Capacity

- maximum rated output that can be supplied at an instant, commonly expressed in megawatts (MW)

### Total capacity

- installed generator nameplate capacity

### Generation/sales

- flow of electricity over time, expressed in watt-hours or multiples:
  - kilowatt-hours or kWh (e.g. customer level)
  - megawatt-hours or MWh (e.g. plant level)
  - gigawatt-hours or GWh (e.g. utility level)
  - terawatt-hours or TWh (e.g. country level)

### **From capacity to generation**

- A 1-MW unit operating at full capacity over one hour generates 1 MWh of electricity
- Over one year, this unit could generate up to 8,760 MWh (1 MW × 24 hr × 365 days)
- Units are rarely used at full capacity over time because of factors such as maintenance requirements, resource limitations and low demand
- “Capacity factor” is the ratio of actual generation to full capacity potential

### **ENERGY CONTENT**

Rather than using “natural” units (e.g. volume, weight), energy sources can be measured according to their energy content – this allows comparison between energy sources

- metric: joules or multiples (gigajoules or GJ, terajoules or TJ, petajoules or PJ)
- U.S.: 1 British thermal unit (BTU) = 1,055.06 joules
- IEA: energy balances expressed in oil equivalent: :
  - thousand tonnes of oil equivalent (ktoe)
  - million tonnes of oil equivalent (Mtoe)

### **Typical values**

- 1 m<sup>3</sup> of crude oil = 39.0 GJ
- 1,000 m<sup>3</sup> of natural gas = 38.3 GJ
- 1 MWh of electricity = 3.6 GJ
- 1 metric tonne of coal = 29.3 GJ
- 1 metric tonne of wood waste = 18.0 GJ
- 1 metric tonne of uranium = 420,000 GJ to 672,000 GJ

## **NATURAL GAS RESOURCES AND RESERVES**

### **Proved reserves**

Volumes of natural gas from known accumulations, of marketable quality, demonstrated with reasonable certainty to be recoverable, as of the estimate date, under current economic, technological, regulatory, and operating conditions, and suitable for delivery to market within a reasonable time frame.

### **Marketable/technically recoverable resources**

Estimated volumes of natural gas – discovered or undiscovered – that exist in subsurface accumulations. Discovered resources are estimated quantities of gas in known drilled reservoirs, which are too remote to be connected to existing pipelines and markets. If pipelines were built, gas volumes would be recoverable under existing technological and economic conditions.

Undiscovered resources are an estimate, inferred from geological data, of gas volumes thought to be recoverable under current or anticipated economic and technological conditions, but not yet discovered by drilling. These resources may be near or remote from pipelines.

## Annex 3: Abbreviations

---

AC	alternating current		Products Economic Account
AECO	Alberta Energy Company	EGS	enhanced geothermal system
AESO	Alberta Electric System Operator	EIA	Energy Information Administration (U.S.)
AER	Alberta Energy Regulator	EU	European Union
B	billion	EV	electric vehicle
b/d	barrels per day	FDI	foreign direct investment
Bcf/d	billion cubic feet per day	G7	seven wealthiest major developed nations: Canada, France, Germany, Italy, Japan, U.K. and U.S.
Bcm/d	billion cubic metres per day		
BEV	battery electric vehicle		
CANDU	Canada deuterium uranium	GDP	gross domestic product
CAPP	Canadian Association of Petroleum Producers	GHG	greenhouse gas
		GJ	gigajoule
CanREA	Canadian Renewable Energy Association	GST	Goods and Services tax
CCEI	Canadian Centre for Energy Information	GWh	gigawatt hours
CCS	carbon capture and storage	HGL	hydrocarbon gas liquids
CCUS	carbon capture, utilization and storage	HST	Harmonized sales tax
CDIA	Canadian direct investment abroad	IEA	International Energy Agency
CEA	Canadian energy assets	IHA	International Hydropower Association
CER	Canada Energy Regulator	kg	kilogram
CFS	Canadian Forest Service	km	kilometre
CO <sub>2</sub> equivalent	carbon dioxide equivalent	km <sup>2</sup>	square kilometre
CPI	consumer price index	kt	kilotonne
CPL	cents per litre	kWh	kilowatt hour
DC	direct current	lb.	pound
ECCC	Environment and Climate Change Canada	L	litre
ECTPEA	Environmental and Clean Technology	LCOE	levelized cost of electricity

LNG	liquefied natural gas	Pkm	passenger-kilometre
LPG	liquefied petroleum gases	Provinces and territories	
LWR	light water reactor		Alta. – Alberta
m	metre		B.C. – British Columbia
m <sup>2</sup>	square metre		Man. – Manitoba
m <sup>3</sup>	cubic metre		N.B. – New Brunswick
Mb/d	thousand barrels per day		N.L. – Newfoundland and Labrador
MJ	megajoule		N.S. – Nova Scotia
MMb/d	million barrels per day		N.W.T. – Northwest Territories
MMcf/d	million cubic feet per day		Ont. – Ontario
MMbtu	million British thermal units		P.E.I. – Prince Edward Island
Mt	million tonnes; megatonne		Que. – Quebec
Mtoe	million tons of oil equivalent		Sask. – Saskatchewan
MW	megawatt		Y.T. – Yukon
NGCC	natural gas combined cycle		Atl. – Atlantic provinces
NGL	natural gas liquids		Terr. – Territories
NRCan	Natural Resources Canada	P/T	provincial/territorial
OEE	NRCan Office of Energy Efficiency	PV	photovoltaic
NRSA	Natural Resources Satellite Account	RD&D	research, development and demonstration
NSERC	National Science and Engineering Research Council of Canada	R&D	research and development
		RPP	refined petroleum products
		SDTC	Sustainable Development Technology Canada
NYMEX	New York Mercantile Exchange		
OECD	Organisation for Economic Co-operation and Development	StatCan	Statistics Canada
PHEV	plug-in hybrid electric vehicle	States	
PHWR	pressurized heavy water reactor		Ala. – Alabama
PJ	petajoule		Ariz. – Arizona

Ark. – Arkansas		N.D. – North Dakota
Calif. – California		Okla. – Oklahoma
Colo. – Colorado		Ore. – Oregon
Conn. – Connecticut		Penn. – Pennsylvania
Del. – Delaware		R.I. – Rhode Island
D.C. – District of Columbia		S.C. – South Carolina
Fla. – Florida		S.D. – South Dakota
Ga. – Georgia		Tenn. – Tennessee
Ill. – Illinois		Tex. – Texas
Ind. – Indiana		Vt. – Vermont
Kans. – Kansas		Va. – Virginia
Ky. – Kentucky		Wash. – Washington
La. – Louisiana		W.Va. – West Virginia
Me. – Maine		Wis. – Wisconsin
Md. – Maryland		Wyo. – Wyoming
Mass. – Massachusetts	Tcf	trillion cubic feet
Mich. – Michigan	Tcm	trillion cubic metres
Minn. – Minnesota	Tkm	tonne-kilometre
Miss. – Mississippi	t	tonnes
Mo. – Missouri	TPES	total primary energy supply
Mont. – Montana	TWh	terawatt-hour
Nebr. – Nebraska	TSX	Toronto Stock Exchange
Nev. – Nevada	U.K.	United Kingdom
N.H. – New Hampshire	U.S.	United States
N.J. – New Jersey	US\$	United States dollars
N.Mex. – New Mexico	V	volt
N.Y. – New York	WCS	Western Canadian Select
N.C. – North Carolina	WTI	West Texas Intermediate

## Annex 4: Sources

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### SECTION 1: KEY ENERGY, ECONOMIC AND ENVIRONMENTAL INDICATORS

#### • ENERGY PRODUCTION AND SUPPLY

- **Global Primary Energy Production:** IEA. *Annual Database*
- **Global Energy Rankings:** IEA. *Annual Database*; IHA. *World Hydropower Outlook*
- **Primary Energy Production by Region & Source:** StatCan. Tables 25-10-0020-01, 25-10-0029-01, 25-10-0030-01, 25-10-0031-01, and 25-10-0082-01; NRCan OEE. *National Energy Use Database*; ECCC. *Special tabulations*
- **Canada's energy supply:** IEA. *Annual Database*
- **Primary and secondary energy use:** NRCan OEE. *National Energy Use Database*

#### • ECONOMIC CONTRIBUTION

- **GDP:** StatCan. Tables 38-10-0285-01, 36-10-0221-01, 36-10-0103-01 and 36-10-0400-01; StatCan. *Custom tabulations*; NRCan estimates
- **Employment:** StatCan. Tables 38-10-0285-01, 36-10-0480-01 and 14-10-0023-01; StatCan. *Custom tabulations*; NRCan estimates
- **Energy Trade:** StatCan. *International Merchandise Trade Database*; IEA. *Annual Database*; U.S. EIA. *U.S. Imports by Country of Origin*
- **Canada-U.S. Energy Trade:** StatCan. *International Merchandise Trade Database*; U.S. EIA. *U.S. Imports by Country of Origin*; U.S. Bureau of Economic Analysis. *Gross Domestic Product by State*

- **Canada's Global Energy Trade:** StatCan. *International Merchandise Trade Database*; StatCan. Table: 12-10-0168-01; NRCan estimates
- **Government Revenues:** StatCan. Tables 33-10-0500-01 and 25-10-0065-01; CAPP. *Statistical Handbook*, Table 01-01; geOLOGIC Systems Ltd. *Daily Oil Bulletin. Land sales data*; Canada–Newfoundland and Labrador Offshore Energy Regulator (formerly Offshore Petroleum Board). *Annual Report*; Canada–Nova Scotia Offshore Energy Regulator (formerly Offshore Petroleum Board). *Annual Report*; Government of the Northwest Territories. *Consolidated Financial Statements*; Government of Yukon. *Public Accounts*; Crown–Indigenous Relations and Northern Affairs Canada. *Northern Oil and Gas Annual Report*

#### • ENERGY AND GHG EMISSIONS

- **Emissions by Sector:** ECCC. *National Inventory Report*; Climate Watch. *Data Explorer*
- **Indexed Trend in GHG Emissions:** ECCC. *National Inventory Report*; StatCan. Tables 17-10-0005-01 and 36-10-0434-03

### SECTION 2: INVESTMENT

- **Capital expenditures:** StatCan. Tables 34-10-0035-01, 34-10-0036-01 and 34-10-0040-01
- **Canada's Energy Infrastructure:** StatCan. Table 36-10-0608-01
- **Canada's Major Energy Projects:** NRCan. *Major Projects Inventory*

- **Foreign Direct Investment and Canadian Direct Investment Abroad:** StatCan. Table 36-10-0009-01
- **Foreign Control of Canadian Assets:** StatCan. Tables 33-10-0033-01, 33-10-0005-01 and 33-10-0006-01
- **Canadian Energy Assets:** Compiled by NRCan from S&P Global Market Intelligence and annual financial statements from publicly traded Canadian energy companies
- **Research, Development and Demonstration:** Compiled by NRCan from internal sources
- **Environmental Protection Expenditures:** StatCan. Tables 38-10-0130-01 and 38-10-0132-01

### SECTION 3: SKILLS, DIVERSITY AND COMMUNITY

- **Energy Sector Demographics:** StatCan. *NRSA Human Resources Module* custom tables
- **Energy Affordability:** StatCan. Estimation of Energy Poverty Rates Using the 2021 Census of Population; StatCan. Table 11-10-0222-01
- **Household Expenditures on Energy:** StatCan. Table 11-10-0222-01
- **Energy Retail Prices:** StatCan. Table 18-10-0004-01 and 18-10-0001-01; IEA. *Annual Database*
- **Energy Reliant Communities:** NRCan analysis based on StatCan 2021 Census Data

### SECTION 4: ENERGY EFFICIENCY

- **Energy use, efficiency and trends:** NRCan OEE. *National Energy Use Database*; NRCan estimates

## SECTION 5. CLEAN POWER AND LOW CARBON FUELS

### • CLEAN TECHNOLOGY AND THE ECONOMY

- **Environmental and clean technology:** NRCan. *2022 Cleantech Industry Survey*; StatCan. Tables 14-10-0023-01, 36-10-0103-01, 36-10-0629-01 and 36-10-0632-01; Toronto Stock Exchange. *TSX & TSXV Listed Companies*

### • ELECTRICITY

- **World production and exports:** IEA. *Electricity Information* [note: IEA production/generation data is expressed on a “gross” basis, i.e. before generating station use]
- **Trade:** CER. *Commodity Tracking System*
- **Canadian and provincial supply:** Compiled by NRCan’s Energy Systems Sector from various sources
- **Prices:** Hydro-Québec. *Comparison of Electricity Prices in Major North American Cities*
- **Electricity energy use:** NRCan OEE. *National Energy Use Database*

### • RENEWABLES

- **Electricity GHG emissions:** ECCC. *National Inventory Report*
- **International context – Production:** IEA. *Renewables Information*
- **International context – share of energy supply:** IEA. *World renewables and waste energy supply*
- **Domestic production:** IEA. *Renewables Information*
- **Hydro – international generation:** IEA. *Electricity*

*Information; IEA. Energy Balances of OECD Countries;  
IEA. Energy Balances of Non-OECD Countries*

- **Hydro – capacity in Canada:** WaterPower Canada.  
*Hydropower Refurbishments and Redevelopments  
in Canada*
- **Hydro – facilities and projects:** WaterPower Canada.  
*Hydropower Refurbishments and Redevelopments  
in Canada*
- **Biomass – Renewable balance:** IEA. *Renewables balances*

- **Biomass – production and facilities:** StatCan. Table 25-10-0031-01; NRCan CFS data compiled from various sources
  - **Biomass – wood fuel use by sector:** StatCan. Tables 25-10-0025-01 and 25-10-0084-01; NRCan estimates
  - **Wind – international context:** Global Wind Energy Council. Global Wind Report
  - **Wind – generation and capacity in Canada:** CanREA. *By the Numbers*; NRCan analysis based on various sources
  - **Wind – wind farms:** AESO. *Current Supply Demand Report*; CanREA. *By the Numbers*; Government of Ontario. *Renewable Energy Projects Listing*; Hydro Québec. *Electricity supply contracts in force in Québec*; SaskPower. *System Map*
  - **Solar PV – international context:** IEA Photovoltaic Power Systems Programme. *2024 Snapshot of Global PV Markets*
  - **Solar PV – capacity in Canada:** NRCan and CanREA. *National Survey Report of PV Power Applications in Canada - 2022*
  - **Solar PV – generation in Canada:** Compiled by NRCan from various sources
  - **Solar PV – solar PV farms:** CanREA. *By the Numbers*; AESO. *Current Supply Demand Report*; Government of Ontario. *Renewable Energy Projects Listing*; NRCan analysis based on various sources
- **URANIUM AND NUCLEAR**
    - **World uranium production and exports:** World Nuclear Association. *World Uranium Mining*; NRCan estimates
    - **World known recoverable resources of uranium:** OECD Nuclear Energy Agency and International Atomic Energy Agency. *Uranium: Resource, Production and Demand*; World Nuclear Association. *Supply of Uranium*
    - **World generation of nuclear power:** International Atomic Energy Agency. *Nuclear Power Reactors in the World*
    - **Canadian supply and demand:** World Nuclear Association. *Uranium in Canada*; Cameco. *Annual report*; NRCan estimates
    - **Nuclear in Canada infographic:** NRCan. *Nuclear Energy and Uranium*
    - **Purchases by U.S. nuclear reactors:** U.S. EIA. *Uranium Marketing Annual Report*
    - **CANDU nuclear reactors and nuclear power plants in Canada:** International Atomic Energy Agency. *Power Reactor Information System*; NRCan analysis based on various sources
    - **Spot prices:** U.S. EIA. *Annual Uranium Market Report*
  - **BIOFUELS AND TRANSPORTATION**
    - **Biofuels – international context:** IEA. *Renewables Information*
    - **Biofuels – production, supply and demand:** StatCan. Tables 25-10-0081-01 and 25-10-0082-01
    - **Transportation – Electric vehicle sales:** StatCan. Tables 20-10-0021-01 and 20-10-0024-02
    - **Transportation – Electric vehicle chargers:** NRCan. *Electric vehicle charging – EV charging basics*; NRCan. *Electric Charging and Alternative Fuelling Stations Locator*
    - **Transportation – GHG emissions:** ECCC. *National Inventory*

Report

- **Hydrogen:** IEA. *Global Hydrogen Review*; NRCan. *Hydrogen Strategy for Canada*

## SECTION 6: OIL, NATURAL GAS AND COAL

### • PETROLEUM AND THE ECONOMY

- **GDP and employment:** StatCan. Tables 38-10-0285-01 and 36-10-0480-01; StatCan. *Special tabulations of the NRSA Human Resources Module*
- **Capital expenditures:** StatCan. Table 34-10-0036-01 and *special tabulations*
- **Exports:** StatCan. *International Merchandise Trade Database*

### • CRUDE OIL

- **World production and exports:** IEA. *Annual Database*
- **World proved reserves:** Oil and Gas Journal. *Worldwide Look at Reserves and Production*
- **Canadian resources – remaining established reserves:** AER. *Alberta Energy Outlook (ST98)*; Government of Alberta. News release: “*New gas reserves take Canada into global top 10*” (March 12, 2025); CAPP. *Conventional reserves special tabulation*
- **Oil wells in Western Canada:** AER. *ST59: Alberta Drilling Activity Monthly Statistics*; BCER. *Drilling Data for All Wells in BC [BCOGC-41984]*; Petrinex. *Saskatchewan Public Data*; Province of Manitoba. *Oil & Gas Statistics*
- **Canadian and provincial production:** StatCan. Tables 25-10-0063-01 and 25-10-0014-01; NRCan analysis
- **Canadian Supply and Demand:** StatCan. Tables 25-10-0063-01 and 25-10-0014-01; StatCan.

*International Merchandise Trade Database*

- **Trade:** StatCan. Table 25-10-0063-01; StatCan. *International Merchandise Trade Database*; U.S. EIA. *Imports by Country of Origin and Refining and Processing*
- **Oil Sands:** CAPP. *Statistical Handbook, Table 04-14*; StatCan. Tables 34-10-0036-01 and 25-10-0063-01; AER. *Alberta Energy Outlook (ST98)*
- **Prices:** U.S. EIA. Table *Cushing, OK WTI Spot Price FOB*; Sproule. *Price Forecast*
- **Pipelines:** CER. *Crude Oil Pipeline Transportation System*
- **Transportation by Rail:** CER. *Canadian Crude Oil Exports by Rail – Monthly Data*; StatCan. Table 23-10-0062-01
- **Oil Sands Environmental Considerations:** ECCC. *National Inventory Report*; World Resources Institute. *Country Greenhouse Gas Emissions Data*; Alberta Government. *Oil Sands Information Portal*; Alberta Government. *Oil Sands 101*; Alberta Government. *Lower Athabasca Regional Plan*; AER. *Oil Sands Mining Water Use*; AER. *Oil Sands In Situ Recovery Water Use*; AER. *Alberta Mineable Oil Sands Plant Statistics Monthly Supplement (ST39)*; AER. *Alberta In Situ Oil Sands Production Summary (ST53)*; StatCan. Table 25-10-0063-01; NRCan. *Boreal forest data*

## • NATURAL GAS

- **World production and exports:** IEA. *World natural gas statistics*
- **World proved reserves:** Oil and Gas Journal. *Worldwide look at reserves and production*
- **Canada and U.S. – Proved reserves:** U.S. EIA. *U.S. Crude Oil and Natural Gas Proved Reserves, Year-end 2023*; Oil and Gas Journal. *Worldwide look at reserves and production*; AER. *Alberta Energy Outlook (ST98)*; Government of Alberta. News release: “New gas reserves take Canada into global top 10” (March 12, 2025); BC Energy Regulator. *2023 Gas Reserves Report*; Saskatchewan Ministry of Energy and Resources. *Five-Year Gas Reserve Summary Report*; Headwater Exploration Inc. *Annual Information Form*; CER. *Provincial and Territorial Energy Profiles*; Consultations with provincial and territorial governments and energy regulators, the CER, CAPP, and the Canada–Newfoundland and Labrador Offshore Energy Regulator (formerly Offshore Petroleum Board), and the Canada–Nova Scotia Offshore Energy Regulator (formerly Offshore Petroleum Board); *NRCan estimates*
- **Canada and U.S. – Marketable and technically recoverable resources:** CER. *Canada’s Energy Future 2023, Macro Indicators*; U.S. EIA. *Annual Energy Outlook 2025*; U.S. EIA. *Shale Gas, Proved Reserves as of Dec. 31*; NRCan analysis
- **Canadian average marketable production:** CER. *Canada’s Energy Future 2023, Figure Data (Excel)*; StatCan. Table 25-10-0055-01
- **U.S. average marketable production:** U.S. EIA. *Annual Energy Outlook 2023*; U.S. EIA. *Dry Natural Gas Production, Annual*
- **LNG imports, Canada:** StatCan. *Canadian International Merchandise Trade Database*
- **LNG imports, U.S.:** U.S. EIA. *U.S. Liquefied Natural Gas Imports (MMcf)*
- **LNG exports, Canada:** CER. *Commodity Tracking System*
- **LNG exports, U.S.:** U.S. EIA. *Liquefied U.S. Natural Gas Exports (MMcf)*
- **Natural gas wells in Western Canada:** AER. *ST59: Alberta Drilling Activity Monthly Statistics*; BCER. *Drilling Data for All Wells in BC [BCOGC-41984]*; Petrinex. *Saskatchewan Public Data*; Province of Manitoba. *Oil & Gas Statistics*
- **Canadian and U.S. marketable production of natural gas:** StatCan. Table 25-10-0055-01; U.S. EIA. *Dry Natural Gas Production, Annual*
- **Canadian trade of natural gas:** CER. *Commodity Tracking System*; StatCan. *Canadian International Merchandise Trade Database*
- **Marketable production by province:** StatCan. Table 25-10-0055-01
- **Upstream prices:** Sproule. *Sproule Price Forecast*; StatCan. Table 33-10-0163-01
- **Pipelines:** CER. *Facilities we regulate*
- **Natural gas energy use:** NRCan OEE. *National Energy Use Database*

- **HGLs**

- **Processing plant production:** StatCan. Table 25-10-0036-01
- **Refinery production:** StatCan. *Monthly Refined Petroleum Product Survey*
- **Shares of NGL Production by province:** CAPP. *Custom report for NRCAN*
- **NGLs end use:** NRCAN OEE. *National Energy Use Database*
- **Exports:** CER. *Commodity Tracking System*
- **Imports:** StatCan. *International Merchandise Trade Database*

- **RPPs**

- **Canadian refineries:** Compiled by NRCAN from various sources
- **Supply and Demand:** StatCan. Table 25-10-0081-01
- **Crude oil shipped to domestic refineries:** StatCan. Table 25-10-0063-01
- **Domestic consumption by product:** StatCan. Table 25-10-0081-01; NRCAN analysis
- **Trade:** StatCan. Table 25-10-0081-01; StatCan. *International Merchandise Trade Database*. U.S. EIA. *U.S. Imports by Country of Origin for Petroleum and Other Liquids*
- **Gasoline prices:** Kalibrate Technologies Ltd. *Petroleum price data, Pricing analytics: Margin*
- **Refinery capacity:** Oil Sands Magazine. *List of Canadian Refineries; NRCAN analysis*

- **COAL**

- **World proved reserves:** U.S. EIA. *Coal Reserves*
- **World production and exports:** IEA. *Coal Information*
- **Canadian supply and demand:** IEA. *Coal Information; StatCan. International Merchandise Trade Database; NRCAN analysis*
- **Canadian Production:** StatCan. Table 25-10-0046-01; *NRCAN analysis*
- **Electricity Generation:** StatCan. Tables 25-10-0017-01 and 25-10-0084-01; *Data compiled by NRCAN from StatCan and other public sources*

- **GHG EMISSIONS FROM PETROLEUM**

- **GHG Emissions by Sector:** ECCC. *National Inventory Report*

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