

Natural Resources
Canada

Ressources naturelles
Canada

Energy Fact Book

Spring 2026 Edition

Canada



Natural Resources
Canada

Ressources naturelles
Canada

Energy Fact Book

Spring 2026 Edition

Canada

Aussi disponible en français sous le titre : Cahier d'information sur l'énergie, Édition printemps 2026

Information contained in this publication or product may be reproduced, in part or in whole, and by any means, for personal or public non-commercial purposes, without charge or further permission, unless otherwise specified.

You are asked to:

- Exercise due diligence in ensuring the accuracy of the materials reproduced.
- Indicate the complete title of the materials reproduced and the name of the author organization.
- Indicate that the reproduction is a copy of an official work that is published by Natural Resources Canada (NRCan) and that the reproduction has not been produced in affiliation with, or with the endorsement of, NRCan.

Commercial reproduction and distribution is prohibited except with written permission from NRCan.

For more information, contact NRCan at copyright-droitdauteur@nrcan-rncan.gc.ca.

Cat. No. M136-1E (Print) M136-1E-PDF (online)

ISSN 2370-3105

ISSN 2370-5027

© His Majesty the King in Right of Canada, as represented by the Minister of Natural Resources, 2026

Preface

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**.

Contents

| | |
|---|------------|
| Introduction | vi |
| SECTION 1 | 1 |
| Key Energy, Economic and Environmental Indicators | |
| SECTION 2 | 23 |
| Investment | |
| SECTION 3 | 39 |
| Skills, Diversity and Community | |
| SECTION 4 | 47 |
| Energy Efficiency | |
| SECTION 5 | 59 |
| Clean Power and Low Carbon Fuels | |
| SECTION 6 | 103 |
| Oil, Natural Gas and Coal | |
| Annex 1: Notes on methodology | 146 |
| Annex 2: Units and conversion factors | 147 |
| Annex 3: Abbreviations | 150 |
| Annex 4: Sources | 153 |

Introduction

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 4: **Energy Efficiency**

Energy use

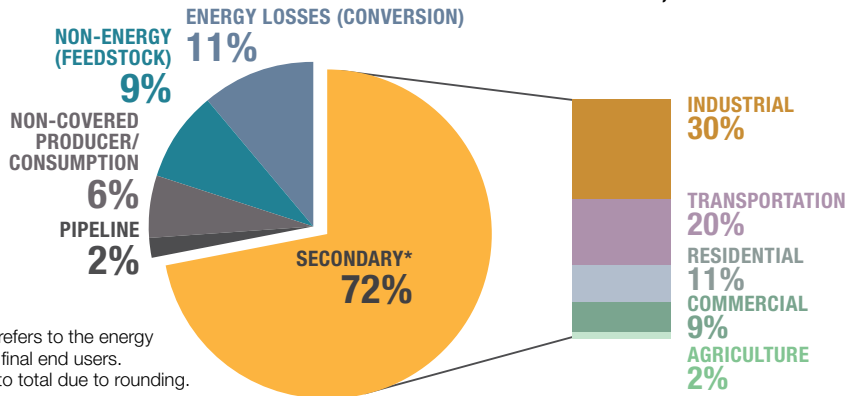
Efficiency trends

Energy use

PRIMARY AND SECONDARY ENERGY USE BY SECTOR (2023)

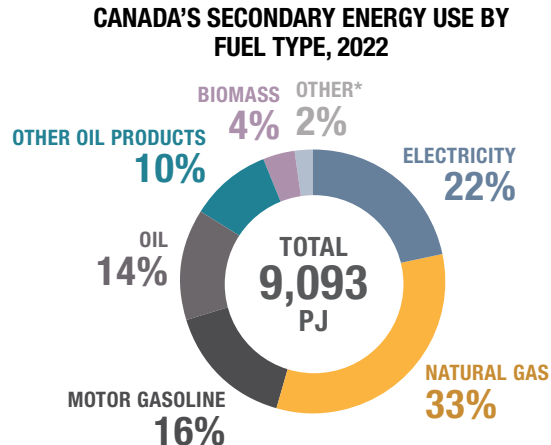
- Primary energy use measures the total energy requirements of all energy users.
- Secondary energy use accounts for the energy used by final consumers in the economy.
- Primary energy use includes secondary energy use. Additionally, primary energy use includes the energy required to transform one form of energy into another (e.g. coal to electricity); the energy used to bring energy supplies to the consumer (e.g. pipeline); and the energy used to feed industrial production processes (e.g. the natural gas used as feedstock by the chemical industries).
- Not every fuel is consumed as energy. For example, hydrocarbon gas liquids in Canada are also used as a non-energy feedstock in the petrochemical industry.
- Canada's primary energy consumed was estimated at **12,538 PJ**.

PRIMARY AND SECONDARY ENERGY USE BY SECTOR, 2023



*Secondary energy refers to the energy used directly by the final end users.
Parts may not sum to total due to rounding.

- Secondary energy use includes the energy used to run vehicles; the energy used to heat and cool buildings; and the energy required to run machinery.
- Canada's secondary energy use in 2023 was **9,093 PJ**.
- Total secondary energy use **increased 13%** from 2000 to 2023. Natural gas usage grew by **40%** while electricity usage increased 15%, during the same period.

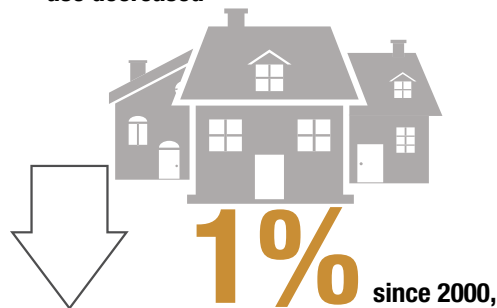


* "Other" includes coal, coke, coke oven gas, NGLs and steam and waste. Parts may not sum to total due to rounding.

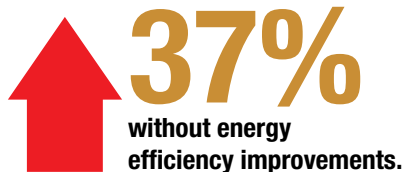
ENERGY IN OUR DAILY LIVES

- Canadian households use energy every day – to power lights and appliances, heat or cool spaces, run personal vehicles, recharge electronics and more.
- **79%** of residential energy consumption is used for space and water heating.
- Residential energy efficiency improved by **38%** between 2000 and 2023, **saving 520 PJ** of energy and **\$13.4 billion in energy costs**.

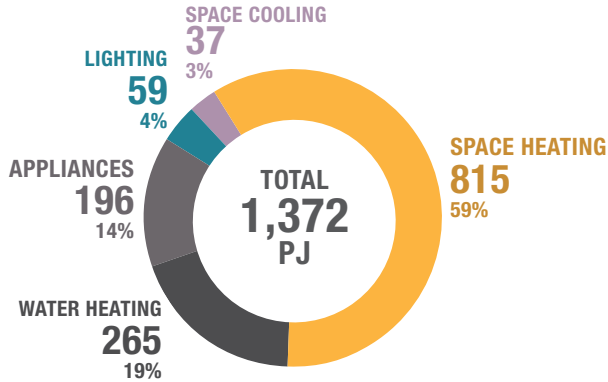
**Residential energy
use decreased**



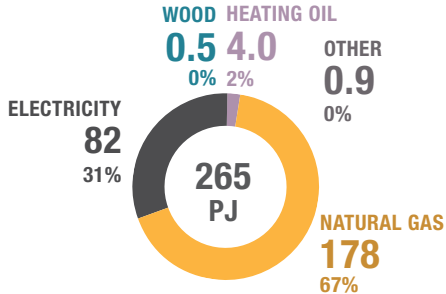
but would have increased by



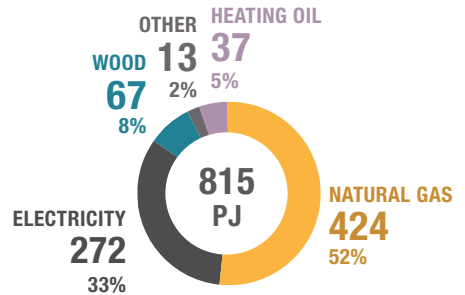
RESIDENTIAL ENERGY USE, BY TYPE (PJ), 2023



WATER-HEATING ENERGY USE (PJ), 2023

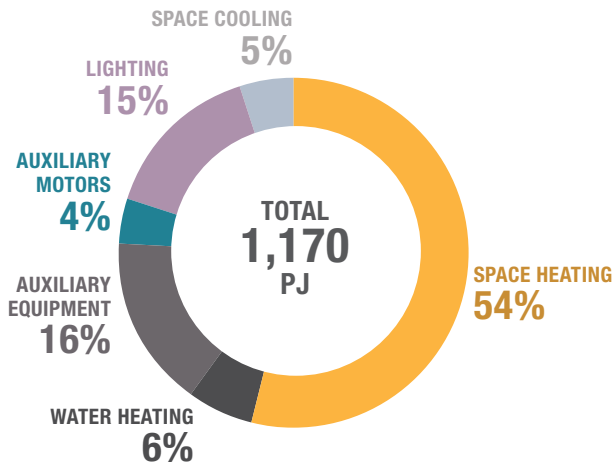


SPACE-HEATING ENERGY USE (PJ), 2023

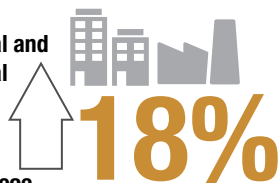


Parts may not sum to total due to rounding.

COMMERCIAL AND INSTITUTIONAL ENERGY USE BY END USE, 2023



Commercial and institutional energy use increased between 2000 and 2023



but would have increased

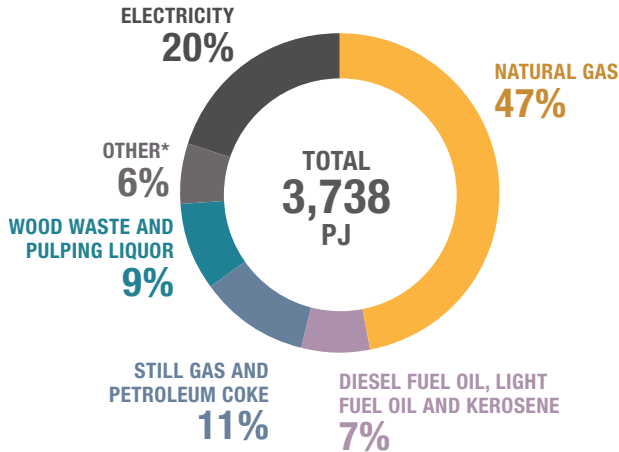


Energy intensity (GJ/m²) decreased



Since 2000, energy efficiency in the commercial and institutional sector has **improved 11%**, saving 109 PJ of energy and **\$3.3 billion** in energy costs in 2023.

INDUSTRIAL SECTOR ENERGY USE BY FUEL TYPE, 2023



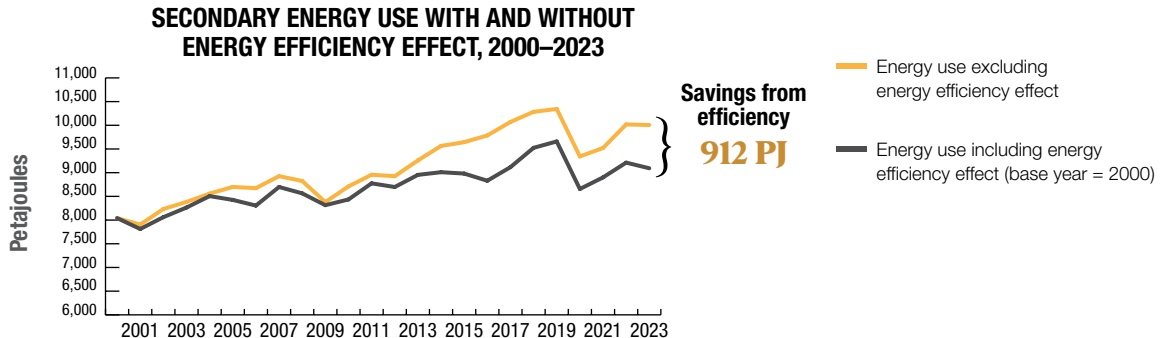
- The **industrial sector** includes all manufacturing, mining (including oil and gas extraction), forestry and construction activities.
- From 2000 to 2023, **industrial energy use increased 18%**.
- Excluding resource extraction industries, **energy efficiency improvements of 4%** in the industrial sector resulted in **savings of 102 PJ** and **\$1.5 billion** in energy costs in 2023.

* "Other" includes HFO, coke and coke oven gas, coal, LPGs, NGLs, steam and waste. Parts may not sum to total due to rounding.

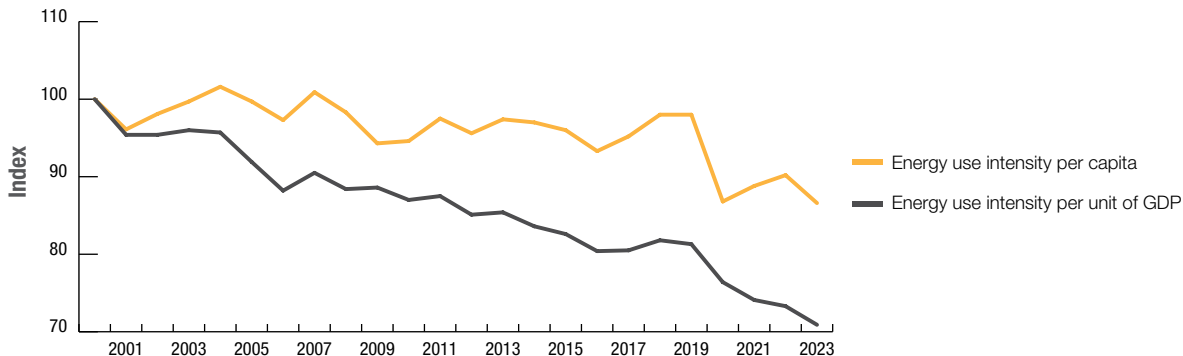
Efficiency Trends

HISTORICAL ENERGY EFFICIENCY

- **Energy efficiency** is a measure of how effectively energy is used for a given purpose and is an important path toward decarbonization.
- **Energy intensity** is the ratio of energy use per unit of activity (such as floor space and GDP).
- **Efficiency improvements** slow the rate of growth in energy use.
- **Energy efficiency** in Canada **improved by 14%** between 2000 and 2023.
- **Energy use grew by 13%** between 2000 and 2023. Without energy efficiency improvements, energy use would have **grown by 24%**.
- **Energy efficiency savings** of **912 PJ** in 2023 were equivalent to end-user savings of **\$38 billion**.



INDEXED TOTAL SECONDARY ENERGY USE INTENSITY PER CAPITA AND PER UNIT OF GDP, 2000–2023 (2000=100)



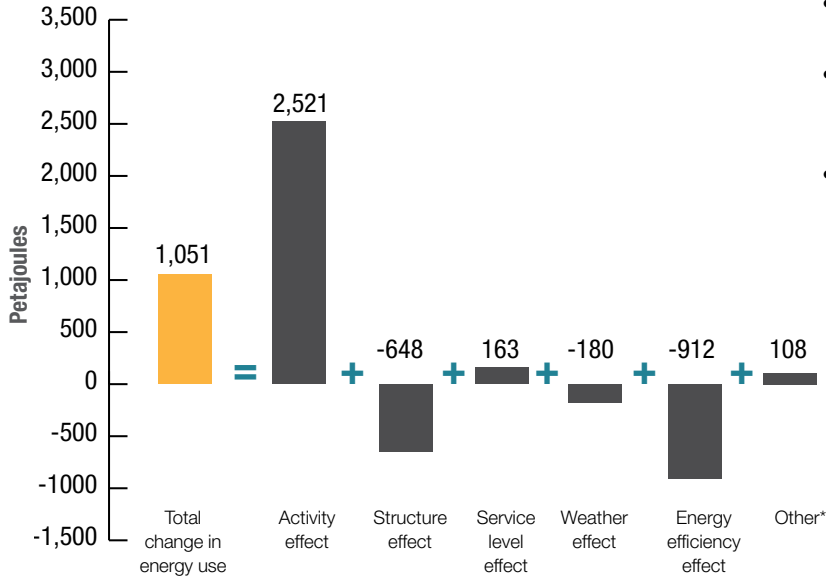
Per capita energy consumption was

13% lower in 2023 than in 2000.

Canada used

29% less energy per dollar of GDP in 2023 than in 2000.

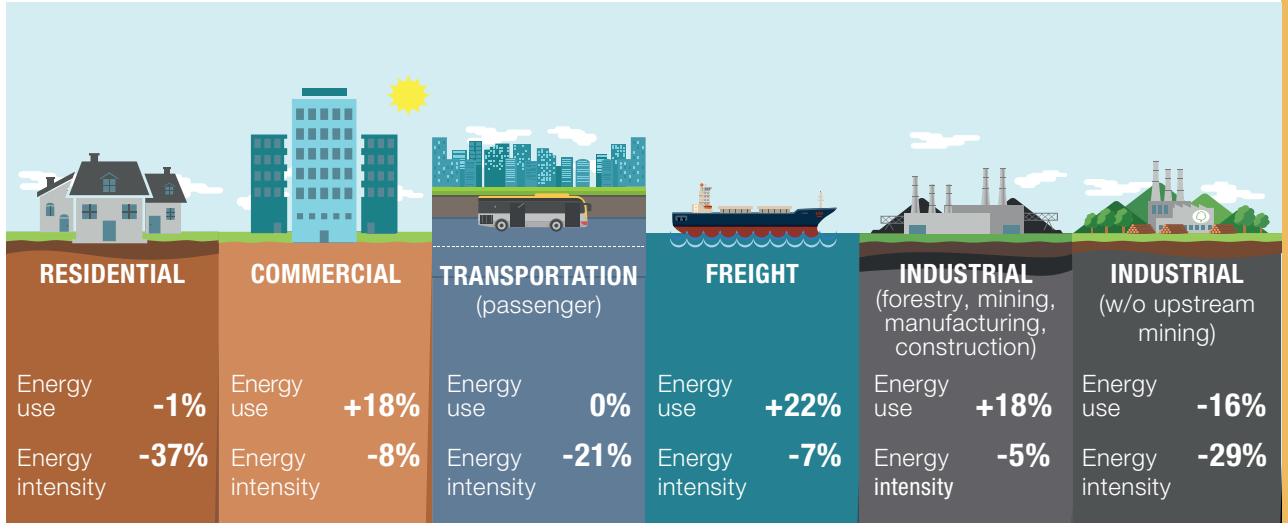
SUMMARY OF FACTORS INFLUENCING THE CHANGE IN ENERGY USE, 2000–2023



- **Activity:** major drivers of energy use in a sector (e.g. floor space area in the commercial/institutional sector)
- **Structure:** refers to change in the makeup of each sector
- **Service level:** increased penetration of auxiliary equipment in commercial/institutional buildings
- **Energy efficiency:** how effectively energy is being used for a given purpose. For example, providing a similar (or better) level of service with less energy consumption on a per unit basis is considered an improvement in energy efficiency.

* "Other" refers to street lighting, non-commercial airline aviation, off-road transportation and agriculture, which are included in the "Total change in energy use" column but are excluded from the factorization analysis.

TRENDS IN ENERGY USE AND INTENSITY BY SECTOR, 2000–2023



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 ³ |
| M | mega | MM | million | 10 ⁶ |
| G | giga | B | billion | 10 ⁹ |
| T | tera | T | trillion | 10 ¹² |
| P | peta | - | quadrillion | 10 ¹⁵ |

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 (¢/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 (U_3O_8)
- 1 lb. U_3O_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 m³ of crude oil = 39.0 GJ
- 1,000 m³ 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 ₂ equivalent | carbon dioxide equivalent | km ² | 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 ² | square metre | | Man. – Manitoba |
| m ³ | 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 |
| NYMEX | New York Mercantile Exchange | SDTC | Sustainable Development Technology Canada |
| 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

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*

CANADIAN CENTRE FOR ENERGY INFORMATION

CCEI

Canadian Centre for Energy Information

<https://energy-information.canada.ca/en>

