



Highlights:

- In 2020, Yukon generated 532,078 mega-watt hours (MWh) of electricity, of which 440,580 MWh was from hydro (82.8%), 47,714 MWh from natural gas (9.0%), and 43,784 MWh from diesel (8.2%).
- Of the 450,041 MWh of electricity sold in Yukon in 2020, sales to non-residential customers accounted for 55.0% and sales to residential customers accounted for 45.0%.
- In 2021, 4,038 dwellings used electricity-based heating, an increase of 7.9% from 2020 (3,777).

Installed Electricity Generating Capacity, Yukon, 2021

Generating Capacity by Location of Facilities, Yukon, 2021

| Type of Generation | Location | Ownership | Installed Capacity, 2021 (MW) |
|--------------------|------------------|-----------|-------------------------------|
| Hydro plants | Whitehorse | YEC | 40.0 |
| | Aishihik | YEC | 37.0 |
| | Mayo | YEC | 15.1 |
| | Fish Lake | ATCO | 1.4 |
| LNG facilities | Whitehorse | YEC | 13.2 |
| Diesel facilities | Whitehorse | YEC | 10.8 |
| | Faro | YEC | 7.5 |
| | Dawson | YEC | 6.2 |
| | Watson Lake | ATCO | 6.2 |
| | Mayo | YEC | 2.5 |
| | Old Crow | ATCO | 2.1 |
| | Destruction Bay | ATCO | 1.9 |
| | Haines Junction | ATCO | 1.8 |
| | Carmacks | ATCO | 1.6 |
| | Teslin | ATCO | 1.5 |
| | Beaver Creek | ATCO | 1.4 |
| | Pelly Crossing | ATCO | 1.2 |
| | Ross River | ATCO | 1.0 |
| | Swift River | ATCO | 0.3 |
| | Stewart Crossing | ATCO | 0.2 |
| | Keno | ATCO | 0.2 |
| Total | | | 153.1 |

Sources: Yukon Energy Corporation and ATCO Electric Yukon.

- In 2021, Yukon had a total installed generating capacity of 153.1 megawatts (MW) — Yukon Energy Corporation had an installed capacity of 132.3 MW, or 86.4% of the total; and ATCO Electric Yukon had a generating capacity of 20.8 MW, or 13.6% of the total.
- Of the total generation capacity of 153.1 MW, hydro plants had an installed capacity of 93.5 MW, or 61.1%; LNG plants had an installed capacity of 13.2 MW, or 8.6%; and diesel plants had an installed capacity of 46.4 MW, or 30.3%.
- In 2021, installed electricity generating capacity has increased by 2.7 MWh, or 1.8%, compared to installed electricity generating capacity in 2020 (150.4 MWh).
- The generation capacity of the hydro plants reduces substantially in the winter when the water flow is decreased. The winter generation capacity of the thermal plants (LNG and diesel) also reduces as temperature falls.

Did you know?

- In 2021, the energy sector contributed \$66.1 million (chained (2012) dollars) towards Yukon's overall Gross Domestic Product (GDP) (\$2,931.2 million), an increase of \$2.4 million, or 3.8%, compared to 2020.
- In 2021, Yukon's energy sector jobs (85) accounted for 0.3% of all jobs (26,020).

(Jobs in electric power generation, transmission and distribution made up the total number of jobs in the 2021 Energy sector.)

Sources: Statistics Canada, data tables 36-10-0402-01 and 36-10-0489-01.

Did you know?

- In the last 10 years, annual changes in the energy aggregate price index ranged from a decrease of 14.4% in 2015 to an increase of 12.6% in 2021.
- Comparing 2021 to 2012, the energy aggregate price index increased by 14.3% in Whitehorse.

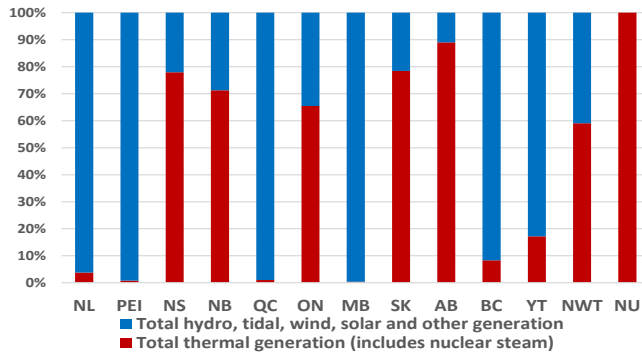
(Special aggregate of energy (CPI) includes: electricity; natural gas; fuel oil and other fuels; gasoline; and fuel, parts and accessories for recreational vehicles)

Source: Statistics Canada, data table 18-10-0005-01.

Electric Utilities Generation by Type, Provinces and Territories, 2020

Note: Electricity generation by industry is not included.

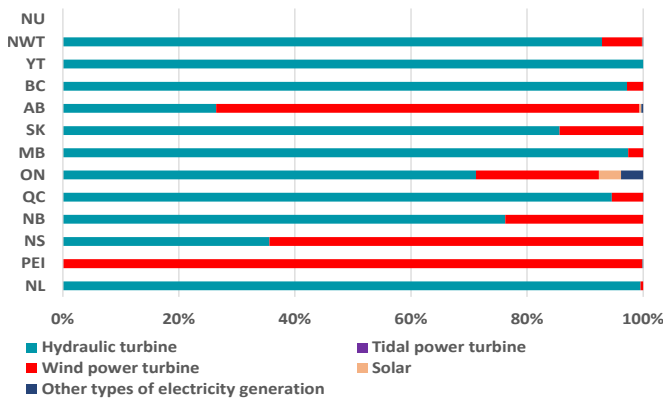
Electricity Generation by Electric Utilities Provinces and Territories, 2020



Source: Statistics Canada, data table 25-10-0020-01.

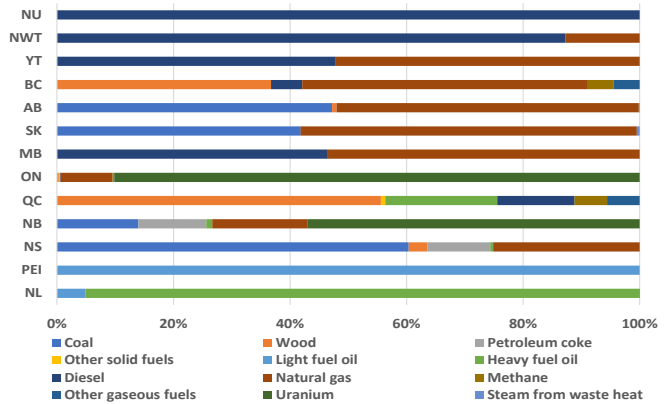
- In 2020, Yukon ranked the sixth-lowest in the country in thermal generation as a percentage of total electricity generated by electric utilities (17.2%).
- Between 2011 and 2020 (inclusive), the percentage of Yukon's thermal generation has fluctuated from a low of 5.2% in 2013 and 2014, to a high of 19.6% in 2019.
- Compared to 2019, total electricity production in 2020 increased by 64,442 MWh, or 13.8%.
- Compared to 2011, electricity produced from thermal generation in 2020 increased by 54,630 MWh, or 148.2%.

Renewable Energy Generation of Electric Utilities by Type, Provinces and Territories, 2020



Source: Statistics Canada, data table 25-10-0020-01.

Thermal Plant Generation of Electric Utilities by Principal Fuel, Provinces and Territories, 2020



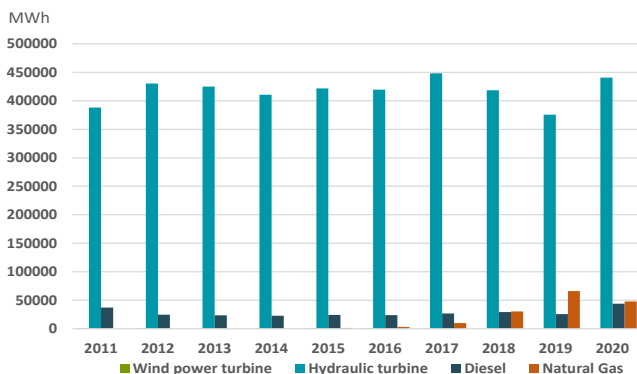
Source: Statistics Canada, data table 25-10-0019-01.

Electric Utilities Generation by Type, Yukon, 2011 to 2020

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Megawatt hours | | | | | | | | | | |
| Total all types of electricity generation | 425,336 | 455,004 | 448,558 | 433,686 | 447,879 | 446,998 | 484,818 | 477,850 | 467,636 | 532,078 |
| Hydraulic turbine | 388,066 | 430,194 | 424,990 | 410,668 | 421,696 | 419,461 | 448,151 | 418,510 | 375,783 | 440,580 |
| Wind power turbine | 402 | 445 | 277 | 334 | 650 | 509 | 33 | 0 | 0 | 0 |
| Thermal combustion generation | 36,868 | 24,365 | 23,291 | 22,684 | 25,533 | 27,028 | 36,634 | 59,340 | 91,704 | 91,498 |
| Diesel | 36,868 | 24,365 | 23,291 | 22,684 | 24,238 | 23,777 | 26,778 | 29,210 | 25,639 | 43,784 |
| Natural gas | .. | .. | .. | 0 | 1,295 | 3,251 | 9,856 | 30,130 | 66,065 | 47,714 |

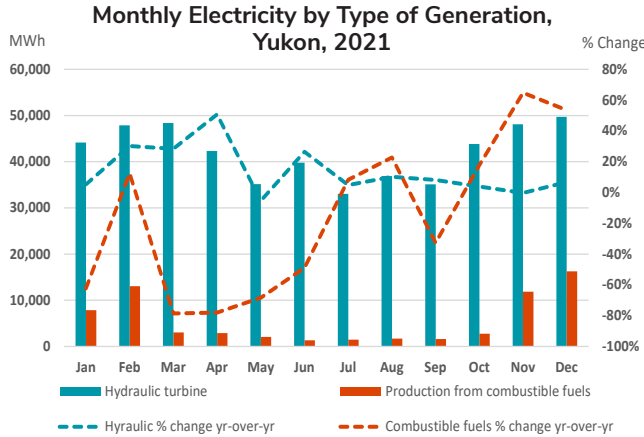
Sources: Statistics Canada, data tables 25-10-0019-01 and 25-10-0020-01.

Type of Electricity Production by Electric Utilities, Yukon, 2011 to 2020



- In 2020, total electricity production grew by 64,442 MWh, or 13.8%, which was the largest yearly growth by both output and percentage increase in the period between 2011 and 2020.
- The percentage of total electricity generated from LNG increased from 0.3% in 2016 to 9.0% in 2020. Total electricity from diesel grew from 5.3% in 2016 to 8.2% in 2020.
- Comparing 2020 to 2019, hydro generation increased by 64,797 MWh, or 17.2%; diesel generation decreased by 18,145 MWh, or 70.8%; and LNG generation decreased by 18,351 MWh, or 27.8%.

Monthly Electricity by Type of Generation, Yukon, 2021

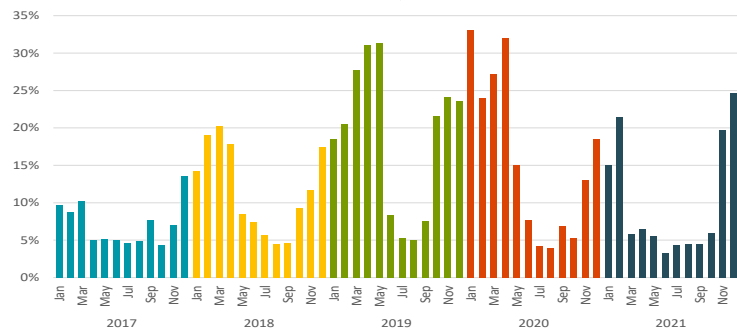


Source: Statistics Canada, data table 25-10-0015-01.

- More electricity was generated during the winter months from both hydraulic turbines and combustible fuels.
- Generation from hydraulic turbines varied from a low of 33,020 MWh in July 2021, to a high of 49,712 MWh in December 2021.
- Generation from combustible fuels varied from a low of 1,336 MWh in June 2021, to a high of 16,265 MWh in December 2021.
- Of the total generation, the percentage of electricity generated by hydro peaked in June at 96.8% of the total, while that from combustible fuels peaked in December at 24.7%.

- The average monthly percentage of total electricity generation from combustible fuels during the months of January, February, November and December grew from 9.8% in 2017 to 22.2% in 2021.
- In 2021, the largest percentage of total electricity generated from combustible fuels occurred in December at 24.7%, followed by February at 21.4%.

Percentage of Total Electricity Generated from Combustible Fuels, Yukon 2017 to 2020

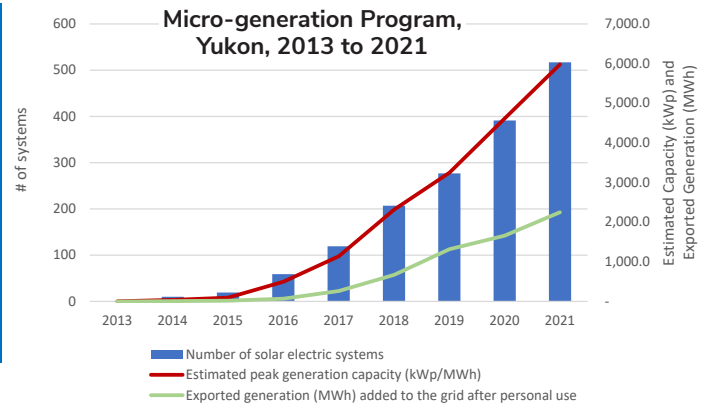


Source: Statistics Canada, data table 25-10-0015-01.

Micro-generation Program, Yukon, 2013 to 2021

| Year | Number of solar electric systems | Estimated peak generation capacity (kW _p) | Exported generation (MWh) added to grid after personal use |
|------|----------------------------------|---|--|
| 2013 | 1 | 5 | ... |
| 2014 | 10 | 37 | 6 |
| 2015 | 19 | 93 | 20 |
| 2016 | 59 | 498 | 70 |
| 2017 | 119 | 1,138 | 263 |
| 2018 | 207 | 2,317 | 668 |
| 2019 | 277 | 3,246 | 1,317 |
| 2020 | 391 | 4,614 | 1,659 |
| 2021 | 517 | 5,977 | 2,251 |

Source: Yukon Government, Department of Energy, Mines and Resources, Energy Branch, Energy Solutions Centre.



- Note:** Photovoltaic (PV) panel systems with a generating capacity of 0.38 kilowatts-peak (kW_p), when working at maximum capacity for one hour, can generate up to 0.38 kWh (kilowatt-hours) or 0.00038 MWh (megawatt-hours) of electricity.
- In 2021, there were 517 solar electric systems operating in Yukon under the Micro-generation Program with a peak generating capacity of 5,977.3 kW_p, or the approximate equivalent of 5,977.3 MWh per year.
 - Although actual total generation from these solar energy systems is unavailable, the systems added a total of 2,250.8 MWh of surplus energy to Yukon's electrical grid in 2021; 1,659.5 KWh was added in 2020.
 - Exported solar energy added to Yukon's electrical grids, including diesel mini-grid communities, from the Micro-generation Program, represented about 0.4% of the total electricity generated in Yukon in 2021.

Did you know?

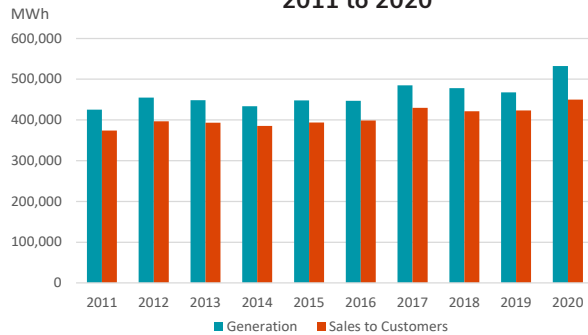
- In the 2021 Census of Agriculture, of the 34 Yukon farms that reported using renewable energy producing systems, 33 farms (97.1%) used solar panels and 2 farms (5.9%) used wind turbines.

Source: Statistics Canada, 2021 Census of Agriculture, data table 32-10-0380-01.

Electricity Generation and Sales to Ultimate Customers, Yukon, 2011 to 2020

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | (MWh) | | | | | | | | | |
| Total generation of electricity | 425,336 | 455,004 | 448,558 | 433,686 | 447,879 | 446,998 | 484,818 | 477,850 | 467,636 | 532,078 |
| Total Sales of Electricity to ultimate customers | 374,037 | 396,435 | 393,278 | 385,400 | 393,483 | 398,724 | 429,806 | 421,373 | 423,121 | 450,041 |

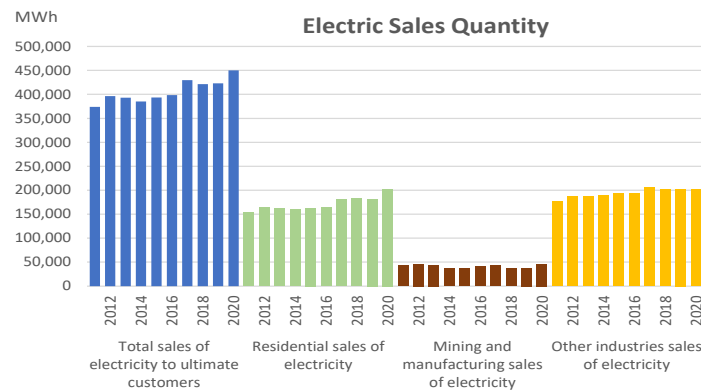
Generation and Sales of Electricity to Customers, Yukon, 2011 to 2020



Source: Statistics Canada, data table 25-10-0021-01.

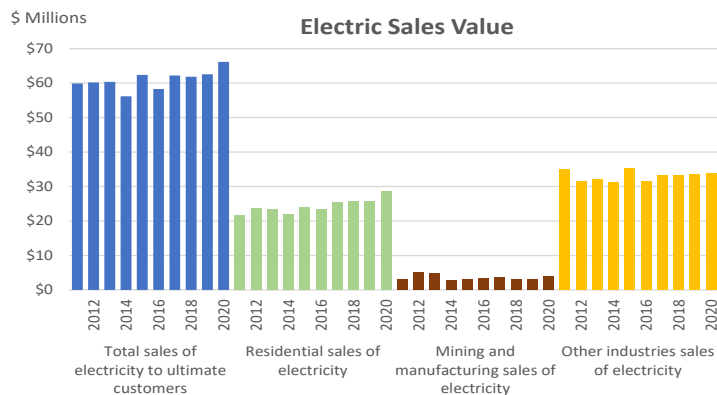
- Between 2011 to 2020 (inclusive), an average of 88.1% of all electricity generated in Yukon was sold to ultimate Yukon customers; the percentage was 84.6% in 2021. Nationally, an average of 76.4% of all electricity generated (includes generation by industry) was sold to customers.
- The number of MWh sold over the past ten years, fluctuated from a low of 374,037 MWh in 2011, to a high of 450,041 MWh in 2020.
- Comparing 2020 to 2019, the total sales of electricity to ultimate customers, increased by 26,920 MWh, or 6.4%; compared to 2011, the 2020 total sales increased by 76,004 MWh, or 20.3%.

Sales of Electricity, Yukon, 2011 to 2020



Source: Statistics Canada, data table 25-10-0021-01.

- A total of 450,041 MWh of electricity was sold in Yukon in 2020 — sales to non-residential customers accounted for 55.0% (247,475 MWh) and sales to residential customers accounted for 45.0% (202,566 MWh).
- Compared to 2019, the 2020 sales to non-residential customers (247,475 MWh) increased by 6,193 MWh, or 2.6%, while sales to residential customers (202,566 MWh) decreased by 20,727 MWh, or 11.4%.
- Sales to non-residential customers in 2020 increased by 27,844 MWh, or 12.7% compared to 2011 sales (219,631 MWh), while sales to residential customers in 2020 increased by 48,160 MWh, or 31.2%, compared to 2011 sales (154,406 MWh).



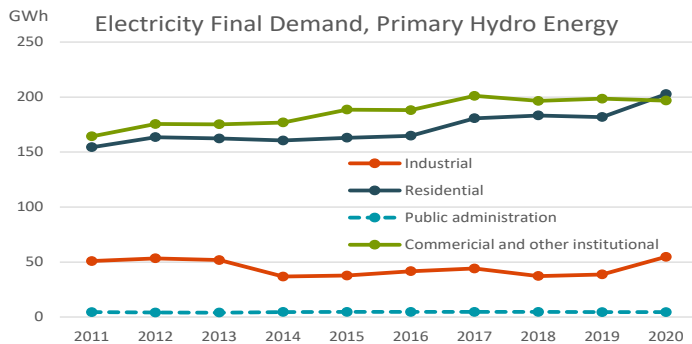
Source: Statistics Canada, data table 25-10-0021-01.

- The value of electricity sales to ultimate customers in 2020 totalled \$66.2 million; an increase of \$3.6 million, or 5.8%, compared to 2019.
- Compared to 2019, the 2020 sales to non-residential customers (\$37.7 million) increased by \$918,000, or 2.5%, while sales to residential customers (\$28.5 million) increased by 10.5%.

Energy Use, Supply and Demand by Type of Fuel (in natural units), Yukon, 2011 to 2020

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | (megalitres unless otherwise noted) | | | | | | | | | |
| Energy Supply | | | | | | | | | | |
| Primary electricity production, hydro (GWh) | 388.5 | 430.6 | 425.3 | 411.0 | 422.3 | 420.0 | 448.2 | 418.5 | 375.8 | 440.6 |
| Secondary electricity production, thermal (GWh) | 36.9 | 24.4 | 23.3 | 22.7 | 25.5 | 27.0 | 36.6 | 59.3 | 91.9 | 91.5 |
| Natural gas transformed to electricity by utilities (gigalitres) | .. | .. | .. | 0.0 | 0.4 | 0.9 | 1.9 | 6.0 | 15.0 | 10.8 |
| Diesel transformed to electricity by utilities | x | x | x | 6.1 | 6.5 | 6.5 | 7.4 | 7.9 | 6.8 | 12.0 |
| Final Use Energy Demand | | | | | | | | | | |
| Gas plant natural gas liquids (NGLs) | 17.1 | 14.4 | 13.2 | 11.2 | 10.8 | 9.9 | 12.4 | 15.2 | 19.6 | 18.1 |
| Primary electricity, hydro (GWh) | 374.1 | 396.5 | 393.3 | 378.7 | 394.0 | 399.3 | 430.5 | 421.8 | 423.6 | 458.6 |
| Total refined petroleum products | 217.4 | 213.3 | 193.2 | 159.3 | 171.2 | 174.7 | 175.6 | 211.1 | 215.7 | 178.7 |
| Motor gasoline | x | x | x | x | x | x | x | x | 98.8 | 85.1 |
| Kerosene and stove oil | 18.4 | 20.6 | 17.4 | 6.5 | 6.6 | x | x | x | 4.9 | 2.8 |
| Diesel fuel oil | x | x | x | x | x | x | x | x | 86.4 | 73.8 |
| Light fuel oil | 14.2 | 13.5 | 13.0 | 6.5 | 6.2 | 6.4 | 6.7 | 6.8 | 6.8 | 7.1 |
| Heavy fuel oil | 0.4 | 0s | 0s | 0s | 0s | 0s | 0s | 0s | 0s | 0s |
| Aviation gasoline | 1.4 | 0.9 | 1.1 | 0.6 | 0.5 | 1.0 | x | x | 1.1 | 0.5 |
| Aviation turbo fuel | 16.2 | 14.8 | 13.4 | 13.8 | 13.6 | 16.4 | x | x | 17.6 | 9.4 |
| <i>0s = value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded</i> | | | | | | | | | | |
| <i>Source: Statistics Canada, data table 25-10-0030-01</i> | | | | | | | | | | |

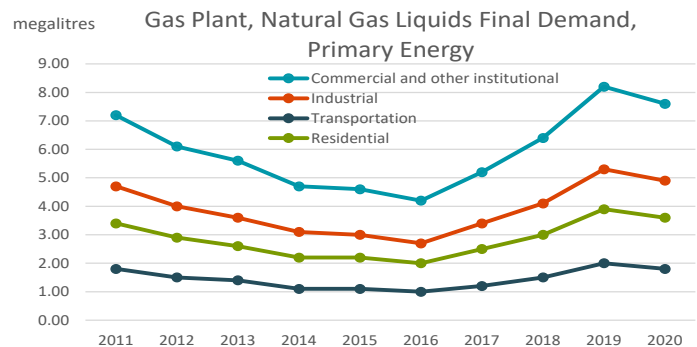
- Compared to 2019, the final demand for: natural gas liquids, (generally representing propane) decreased by 1.5 megalitres (7.7%); hydro electricity increased by 35.0 gigawatt hours (8.3%); and refined petroleum products decreased by 37.0 megalitres (17.2%) in 2020.



Source: Statistics Canada, data table 25-10-0030-01.

- The final demand for electricity in 2020 (458.6 GWh) consisted of 54.7 GWh (11.9%) used by the industrial sector; 202.6 GWh (44.2%) by the residential sector; 4.5 GWh (1.0%) by public administration; and 196.8 GWh (42.9%) used by commercial and other institutional sectors.

- In 2020, the final demand for natural gas liquids (18.1 ML) consisted of 4.9 ML (27.1%) used by the industrial sector; 1.8 ML by the transportation sector (9.9%); 3.6 ML by the residential sector (19.9%); and 7.6 ML (42.0%) used by commercial and other institutional sectors.



Source: Statistics Canada, data table 25-10-0030-01.

Energy Use, Final Demand by Type of Fuel (in terajoule¹ units), Yukon, 2011 to 2020

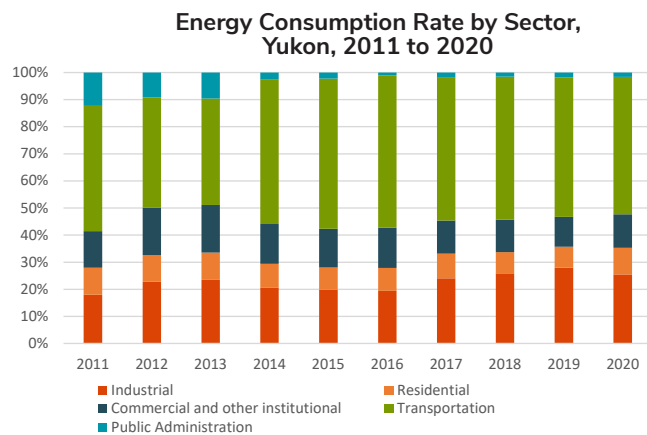
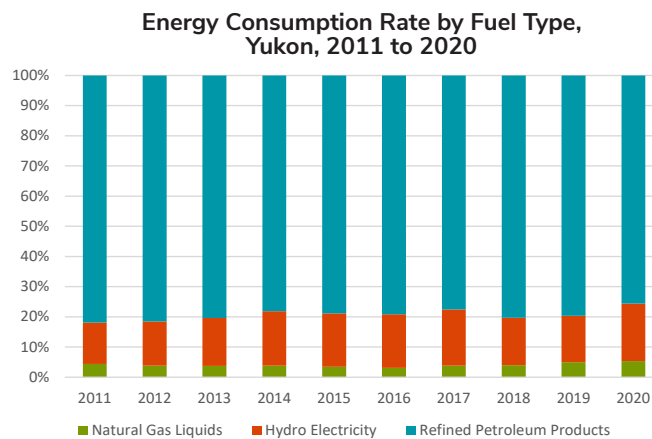
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Primary Energy² | (terrajoules) | | | | | | | | | |
| Gas plant natural gas liquids (NGLs) | 433 | 366 | 334 | 283 | 273 | 252 | 315 | 385 | 495 | 458 |
| Primary electricity, hydro | 1,347 | 1,427 | 1,416 | 1,363 | 1,419 | 1,437 | 1,550 | 1,518 | 1,525 | 1,651 |
| Secondary Energy³ | | | | | | | | | | |
| Total refined petroleum products | 8,067 | 7,921 | 7,173 | 5,874 | 6,318 | 6,421 | 6,462 | 7,774 | 7,916 | 6,553 |
| Motor gasoline | x | x | x | x | x | x | x | x | 3,458 | 2,980 |
| Kerosene and stove oil | 693 | 778 | 654 | 244 | 247 | x | x | x | 186 | 104 |
| Diesel fuel oil | x | x | x | x | x | x | x | x | 3,311 | 2,827 |
| Light fuel oil | 551 | 523 | 503 | 253 | 239 | 250 | 259 | 264 | 265 | 275 |
| Heavy fuel oil | 17 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Aviation gasoline | 47 | 31 | 38 | 20 | 17 | 34 | x | x | 37 | 16 |
| Aviation turbo fuel | 606 | 554 | 501 | 516 | 509 | 613 | x | x | 658 | 350 |
| Total primary and secondary energy | 9,866 | 9,732 | 8,941 | 7,521 | 8,010 | 8,110 | 8,326 | 9,677 | 9,938 | 8,663 |

1 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. Terajoule is unit of measurement of such energy.

2 Primary fuels are the fuels that are found in nature and can be extracted, cleaned or graded, without any sort of energy conversion or transformation process.

3 Secondary fuels are the fuels that are derived from primary fuels or fuels through chemical or physical process.

Source: Statistics Canada, data table 25-10-0029-01.



Source: Statistics Canada, data table 25-10-0029-01.

- Of the 2020 data available on primary and secondary energy consumption in terajoules (TJ): refined petroleum products (6,553 TJ) accounted for 75.6% of the final demand; hydro electricity (1,651 TJ), 19.1%; and NGLs (propane, 458 TJ) accounted for 5.3% of the final demand.
- In 2020, the distribution of final energy demand for all types of fuel by sector was as follows: transportation (4,389 TJ or 50.7%); industrial (2,606 TJ or 25.5%); commercial and other institutional (1,068 TJ or 12.3%); residential (855 TJ or 9.9%); and public administration (141 TJ or 1.6%).
- Within the industrial sector, mining accounted for 85.3% of total industrial energy use; manufacturing for 11.7%; and construction accounted for 2.9% of the total industrial energy use.
- Within the transportation sector, retail pump sales accounted for 60.7% of total transportation sector; road transport and urban transit accounted for 31.9%; and airlines accounted for 7.4% of final energy demand in the transportation sector.

Yukon Motor Vehicle Registrations, 2017 to 2021

| Vehicle Type | 2017 | 2018 | 2019 | 2020 | 2021 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Trucks ¹ | 20,016 | 20,594 | 21,097 | 21,289 | 22,037 |
| Passenger cars | 18,720 | 19,354 | 20,060 | 20,293 | 20,766 |
| Off-road vehicles ² | 1,235 | 1,330 | 1,426 | 1,505 | 1,559 |
| Motorcycle | 1,186 | 1,226 | 1,276 | 1,279 | 1,322 |
| Snowmobiles | 734 | 773 | 779 | 801 | 836 |
| Bus | 302 | 304 | 316 | 243 | 253 |
| Total³ | 42,193 | 43,581 | 44,954 | 45,410 | 46,773 |

¹ Trucks include: pickup trucks, motorhomes, dump trucks, platform trucks, etc.

² Off-road vehicles include quads, side-by-sides, dirt bikes, etc.

³ Registration counts exclude dealer, rental, and special registrations.

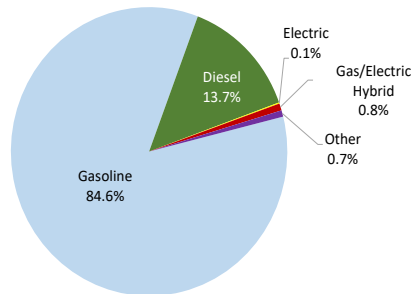
⁴ Government includes federal, first nations, territorial and municipal organizations.

Note: Registration figures represent data as of December 31 for each year.

Source: Yukon Bureau of Statistics.

- In 2021, a total of 46,773 motor vehicles were registered in Yukon — over one vehicle per person.
- Of the total vehicles registered in 2021 in Yukon, private owners registered 80.4% of vehicles (37,607); commercial, farm and society organizations registered 14.7% of vehicles (6,898); and government⁴ organizations registered 4.8% of vehicles (2,268).

Registered Motor Vehicles by Fuel Type, Yukon, 2021



- In 2021, the majority of registered vehicles in Yukon used fossil fuels.
- 39,581 vehicles, or 84.6%, used only gasoline; 6,429, or 13.7%, used only diesel; 369, or 0.8%, were gasoline/electric hybrids; 60, or 0.1%, were electric, and 334, or 0.7%, used other or mixed fuel types.
- As of December 31, 2021, there were 12 level 3 (DC fast charging) stations in Yukon.

Yukon Fossil Fuel Consumption by Type of Use, 2011 to 2020

| Year | Gasoline for on-road use | Diesel for on-road use | Aviation fuel ¹ | Fuel for off-road use ² | Heating fuel ³ | Diesel for electricity generation ⁴ | LNG for electricity generation ⁴ | Total |
|---|--------------------------|------------------------|----------------------------|------------------------------------|---------------------------|--|---|-------|
| ----- megalitres (litres x 1,000,000) ----- | | | | | | | | |
| 2011 | 63.6 | 56.1 | 21.9 | 36.0 | 57.5 | 10.6 | 0.0 | 245.7 |
| 2012 | 64.3 | 59.5 | 17.3 | 38.9 | 58.0 | 7.1 | 0.0 | 245.1 |
| 2013 | 63.8 | 54.2 | 15.2 | 36.7 | 53.1 | 6.7 | 0.0 | 229.8 |
| 2014 | 63.5 | 53.7 | 16.6 | 31.4 | 51.3 | 6.5 | 0.0 | 223.0 |
| 2015 | 67.5 | 54.9 | 19.2 | 20.5 | 41.8 | 7.0 | 0.5 | 211.6 |
| 2016 | 71.5 | 54.4 | 17.4 | 22.9 | 45.7 | 6.8 | 1.3 | 220.0 |
| 2017 | 72.5 | 53.2 | 18.1 | 24.3 | 61.5 | 7.7 | 3.8 | 241.0 |
| 2018 | 72.5 | 62.4 | 19.6 | 28.3 | 59.4 | 8.3 | 11.7 | 262.1 |
| 2019 | 73.0 | 60.9 | 19.3 | 23.2 | 53.8 | 7.3 | 24.8 | 262.6 |
| 2020 | 62.4 | 62.2 | 6.8 | 35.5 | 59.8 | 12.1 | 17.9 | 256.7 |

¹ Aviation fuel includes aviation gasoline and jet fuel.

² Fuel for off-road use includes tax exempt gasoline and diesel (e.g. fuel used for mining, farming and outfitting).

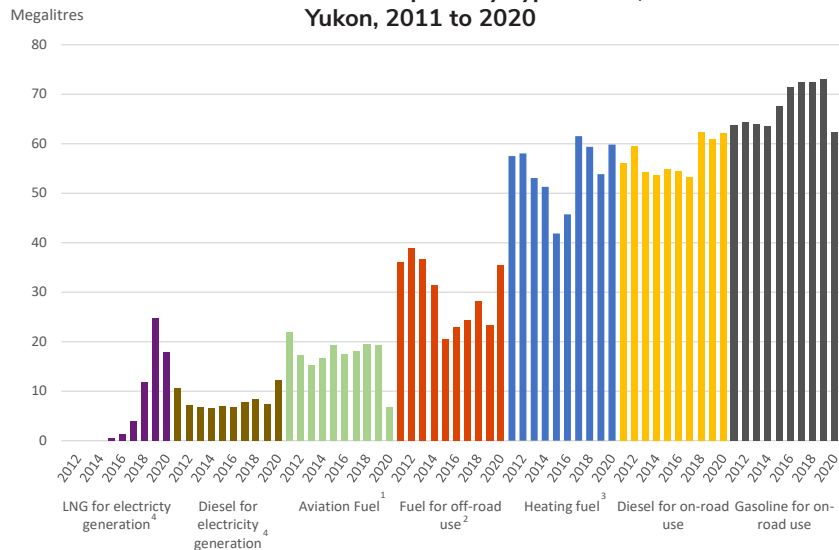
³ Heating fuel includes heating oil and liquid petroleum gas (propane).

⁴ Diesel and LNG for electricity generation is estimated from public data on electricity generation and exempt fuel permits for electricity generation.

Source: Yukon Bureau of Statistics.

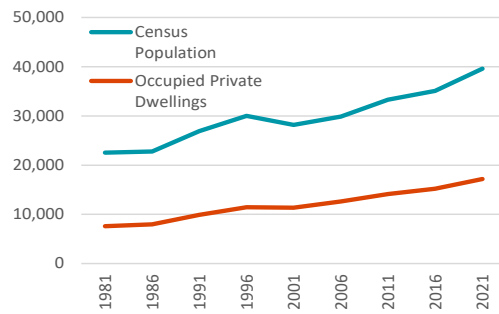
- In the last 10 years, from 2011 to 2020, overall fossil fuel consumption increased by 11.0 megalitres, or 4.5%.
- In 2020, fuels for on-road use accounted for 124.6 megalitres, representing 48.5% of the Yukon's total fossil fuel consumption.
- Comparing 2020 to 2011, there was a 19.5 megalitre, or 184.4%, increase in the use of LNG and diesel for electricity generation.
- Consumption of aviation fuel decreased from 19.3 megalitres in 2019 to 6.8 megalitres in 2020—due to decreased aviation movements during the COVID-19 pandemic.

Fossil Fuel Consumption by Type of Use, Yukon, 2011 to 2020



Private Dwellings Occupied by Usual Residents, Yukon, 1961 to 2021 Censuses

| | Census Population | Occupied Private Dwellings |
|------|-------------------|----------------------------|
| 1981 | 22,535 | 7,600 |
| 1986 | 22,800 | 7,973 |
| 1991 | 26,895 | 9,915 |
| 1996 | 30,000 | 11,460 |
| 2001 | 28,165 | 11,365 |
| 2006 | 29,860 | 12,615 |
| 2011 | 33,320 | 14,120 |
| 2016 | 35,110 | 15,215 |
| 2021 | 39,585 | 17,180 |



Source: Statistics Canada, data table 98-10-0039-01

- In the 2021 Census, there were 17,180 private dwellings in Yukon, a 12.9% increase compared to the previous census in 2016.
- The intercensal growth between the 2016 and 2021 censuses (12.9%) was preceded by a 7.8% increase between 2016 and 2011; and an 11.9% increase between 2011 and 2006.

Heating Sources in Residential Dwellings, Yukon, 2021

| Property Type | Total number of dwellings | Electric | | Oil | | Propane | | Multi-sources | | Other ¹ | | Incomplete Information ² | |
|---|---------------------------|--------------|--------------|--------------|--------------|-------------|-------------|---------------|-------------|--------------------|-------------|-------------------------------------|--------------|
| | | # dwellings | % of total | # dwellings | % of total | # dwellings | % of total | # dwellings | % of total | # dwellings | % of total | # dwellings | % of total |
| Single detached house | 9,823 | 1,602 | 16.3% | 6,113 | 62.2% | 452 | 4.6% | 81 | 0.8% | 300 | 3.1% | 1,275 | 13.0% |
| Semi-detached house | 1,202 | 352 | 29.3% | 813 | 67.6% | 28 | 2.3% | ... | ... | 6 | 0.5% | ... | ... |
| Townhouse/row house | 840 | 724 | 86.2% | 116 | 13.8% | ... | ... | ... | ... | ... | ... | 0 | - |
| Mobile home | 832 | 80 | 9.6% | 598 | 71.9% | 130 | 15.6% | ... | ... | 18 | 2.2% | 6 | 0.7% |
| Condo Apartment | 512 | 452 | 88.3% | 60 | 11.7% | ... | ... | ... | ... | ... | ... | ... | ... |
| Single dwelling in mixed-use property | 61 | 18 | 29.5% | 16 | 26.2% | 8 | 13.1% | 3 | 4.9% | ... | ... | 16 | 26.2% |
| Single dwelling - unknown type | 103 | 5 | 4.9% | 30 | 29.1% | 3 | 2.9% | ... | ... | 3 | 2.9% | 62 | 60.2% |
| Multiplex (duplex, triplex, fourplex, etc.) | 738 | 110 | 14.9% | 542 | 73.4% | 16 | 2.2% | 14 | 1.9% | 2 | 0.3% | 54 | 7.3% |
| Apartment building | 1,192 | 524 | 44.0% | 570 | 47.8% | 37 | 3.1% | 61 | 5.1% | ... | ... | ... | ... |
| Multiple detached/attached in a single property | 3,169 | 151 | 4.8% | 836 | 26.4% | 34 | 1.1% | 1,554 | 49.0% | 94 | 3.0% | 500 | 15.8% |
| Multiple dwellings - unknown type | 98 | 20 | 20.4% | 74 | 75.5% | ... | ... | ... | ... | ... | ... | 4 | 4.1% |
| All dwellings | 18,570 | 4,038 | 21.7% | 9,768 | 52.6% | 708 | 3.8% | 1,713 | 9.2% | 423 | 2.3% | 1,920 | 10.3% |

... not applicable

¹ Other includes wood, hot water or steam from undefined sources, and other unspecified sources.

² Incomplete information includes dwellings without specific and/or updated information on heating system.

Source: Yukon Bureau of Statistics.

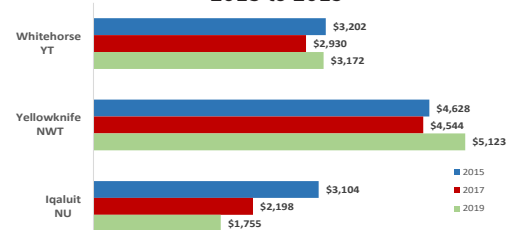
- In 2021, of the 18,570 dwellings in Yukon, 9,768 dwellings (52.6%) used oil-based heating, 4,038 (21.7%) used electricity-based heating and 708 (3.8%) used propane-based heating; 1,713 (9.2%) used multiple heating sources.
- At least 56.4% of residential dwellings used fossil fuels as a heating source in 2021.

Average Expenditure per Household, Selected Energy Components, Territorial Capitals, Survey of Household Spending, 2015 to 2019

| | Whitehorse YT | | | Yellowknife NWT | | | Iqaluit NU | | |
|---|---------------|-------|-------|-----------------|-------|-------|------------|-------|-------|
| | 2015 | 2017 | 2019 | 2015 | 2017 | 2019 | 2015 | 2017 | 2019 |
| Fuel and Electricity for Principal Residence | | | | | | | | | |
| Electricity | 1,645 | 1,518 | 1,553 | 2,430 | 2,391 | 2,534 | 1,692 | 1,240 | 994 |
| Other fuels ¹ | 1,557 | 1,412 | 1,619 | 2,198 | 2,153 | 2,589 | 1,412 | 958 | 761 |
| Transportation Expenditures | | | | | | | | | |
| Gas & other fuels (all vehicles and tools) | 2,603 | 1,853 | 2,837 | 1,748 | 1,850 | 2,569 | 2,395 | 2,073 | 1,743 |

¹ For heating and cooking (example: oil, propane, wood, other fuels)
Source: Statistics Canada, data table 11-10-0233-01.

Combined Average Shelter Expenditures¹ for Principal Residence, Territories, 2015 to 2019



¹ Includes electricity and fuel used for heating and cooking.

July 2022