

WORLD ENERGY MARKETS OBSERVATORY

North America ID Card

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Region Description: U.S.

Quick introduction



Country: U.S.

Population: 333,341,930 (As of Sept. 2021)

GDP: USD \$20936.60 billion

Electricity

Total electricity generation (2020): **4009 billion kWh**

Average electricity price: **10.66 ¢/KWh**

Electrification share (average): **100%**

Gas

Total Natural gas production: **960 bcm**

Total Natural gas consumption: **871 bcm**

Energy Players

Revenue for main players:

- Exelon: USD \$33.0 billion
- Duke Energy: USD \$23.9 billion
- Southern Company: USD \$20.4 billion
- Pacific Gas & Electric: USD \$18.5 billion
- NextEra Energy: USD \$18.0 billion
- American Electric Power: USD \$14.9 billion
- Edison International: USD \$13.6 billion
- Consolidated Edison: USD \$12.2 billion
- Sempra Energy: USD \$11.4 billion
- FirstEnergy: USD \$10.8 billion
- The AES Corp: USD \$9.7 billion
- NRG Energy: USD \$9.1 billion

Renewable Energy

Renewables share of energy consumption: **19.4%**

Renewables consumption in United States: **6.15 EJ**

Environment

Total CO₂ emissions: **4.56 billion tonnes of CO₂**

Country Highlights

- U.S. CO₂ emissions will begin rising after 2030 due to increasing energy requirements stemming from economic growth
- Texas is the highest emitter of CO₂ amongst all states due to its high industrial share
- Most carbon pricing developments in the U.S. are taking place on the subnational level
- There is a continuous decline of the U.S. coal industry, placing even the best performing coal plants at risk
- Wind and solar have accounted for most of the new additions in renewable energy capacity in the past decade
- U.S. battery storage installations topped 1 GW for the first time in 2020
- The U.S. annual average retail price of electricity was 10.66¢ per kWh, an increase of 1.1% over the 2019 price



Region Description: Canada

Quick introduction



Country: Canada

Population: 38,140,802 (As of Sept. 2021)

GDP: USD \$1643.40 billion

Electricity

Total electricity generation (2020): **635.6 million MWh**

Average electricity price: **USD \$0.111/KWh for households and USD \$0.094 for businesses**

Electrification share (average): **100%**

Gas

Total Natural gas production: **172 bcm**

Total Natural gas consumption: **117 bcm**

Energy Players

Revenue main players:

- Hydro-Québec: USD \$10.1 billion
- BC Hydro: USD \$4.7 billion
- Hydro One: USD \$5.4 billion
- Ontario Power Generation: USD \$5.4 billion
- ENMAX: USD \$2.0 billion
- TransAlta: USD \$1.6 billion

Renewable Energy

Renewables share of energy consumption: **1.7%**

Renewables consumption in United States: **0.54 EJ**

Environment

Total CO₂ emissions: **517 million tonnes of CO₂**

Country Highlights

- In 2020, Canada implemented its strengthened climate plan to ensure that the country not only meets, but exceeds, its 2030 emissions reduction goal
- To set Canada on a path to achieve a prosperous net zero emissions future by 2050, the government introduced the proposed Canadian Net-Zero Emissions Accountability Act in Parliament on November 19, 2020
- Canada increased its carbon taxes by 467% through its Environment and Healthy Economy Plan
- Renewables accounted for 46% of total energy infrastructure investment in Canada in 2020
- Canada continues to advance its role as a leader in CCUS with recent announcements of governmental support at the federal and provincial levels for projects



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