

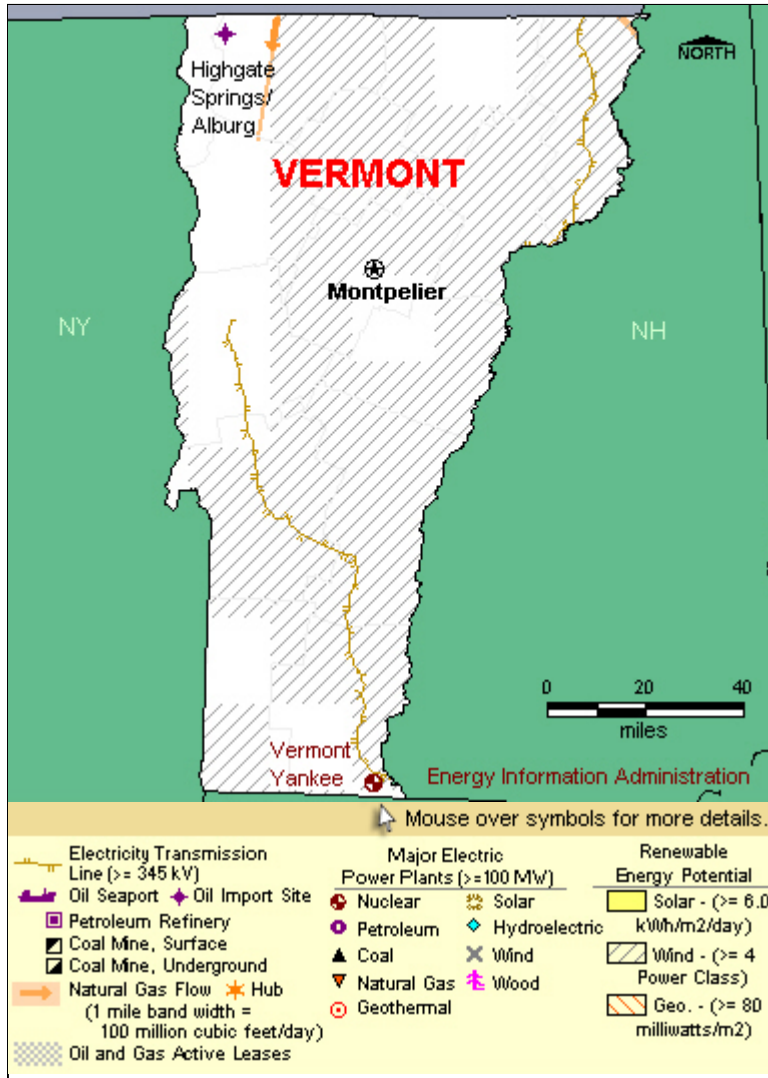


Vermont

STATE ENERGY PROFILES

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Last Update: February 19, 2009
Next Update: March 5, 2009

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Vermont Quick Facts

- Total energy consumption in Vermont is the lowest of any State in the Nation.
- Nuclear power accounts for about three-fourths of the electricity generated within Vermont, a higher share than in any other State.
- Vermont is one of only two States in the country with no coal-fired power plants.
- Vermont's hills and mountains cover most of the State and offer wind power potential, while dense forests in the State's northeast offer biomass resources for home heating and electricity generation.

Overview

Resources and Consumption

Vermont has no fossil fuel resources but does have minor renewable energy potential. The Connecticut River, which makes up the State's eastern border with New Hampshire, and Lake Champlain, along the western border with New York, offer hydropower resources. Vermont's hills and mountains cover most of the State and offer wind power potential, while dense forests in the State's northeast offer biomass resources for home heating and electricity generation. Vermont's total energy consumption is the lowest in the Nation, and per capita energy consumption is among the lowest. The transportation and residential sectors are the State's leading energy consumers.

Petroleum

Vermont ranks last among the 50 States in petroleum product demand and receives supply from

neighboring States and Canada. Vermont allows the statewide use of conventional motor gasoline. (Most States require the use of special fuel blends in non-attainment areas.)

Vermont, along with much of the U.S. Northeast, is vulnerable to distillate fuel oil shortages and price spikes during winter months due to high demand for home heating. Nearly three-fifths of Vermont households use fuel oil as their primary energy source for home heating. In January and February 2000, distillate fuel oil prices in the Northeast rose sharply when extreme winter weather increased demand unexpectedly and hindered the arrival of new supply, as frozen rivers and high winds slowed the docking and unloading of barges and tankers. In July 2000, in order to reduce the risk of future shortages, the President directed the U.S. Department of Energy to establish the Northeast Heating Oil Reserve. The Reserve gives Northeast consumers adequate supplies for about 10 days, the time required for ships to carry heating oil from the Gulf of Mexico to New York Harbor. The Reserve's storage sites are located in New Haven, Connecticut (two sites); Providence, Rhode Island (one site); and Woodbridge, New Jersey (one site).

Natural Gas

With the exception of Hawaii, Vermont has the lowest natural gas consumption in the United States. Supply is imported primarily for residential use through a small capacity pipeline from Canada.

Coal, Electricity, and Renewables

Vermont generates a higher percentage of its electricity from nuclear power than any other State. The Vermont Yankee nuclear plant typically accounts for about three-fourths of annual total electricity generation. Most of Vermont's remaining generation is produced from hydropower and from other renewables such as fuel wood and wind. Vermont is one of only two States in the country with no coal-fired power plants; the other is Rhode Island.

Vermont's residential electricity use is low compared with the rest of the country, in part because demand for air-conditioning is minimal during the mild summer months and only a small share of households use electricity for home heating.

Data

Economy

Population and Employment	Vermont	U.S. Rank	Period
Population	0.6 million	49	2008
Civilian Labor Force	0.4 million	47	Dec-08
Per Capita Personal Income	\$36,670	24	2007
Industry	Vermont	U.S. Rank	Period
Gross Domestic Product by State	\$24.5 billion	51	2007
Land in Farms	1.2 million acres	43	2002
Market Value of Agricultural Products Sold	\$0.5 billion	43	2002

Prices

Petroleum	Vermont	U.S. Avg.	Period
Domestic Crude Oil First Purchase	—	\$53.7/barrel	Nov-08
No. 2 Heating Oil, Residential	\$3.116/gal	\$2.759/gal	Nov-08
Regular Motor Gasoline Sold Through Retail Outlets (Excluding Taxes)	\$1.876/gal	\$1.585/gal	Nov-08
State Tax Rate on Motor Gasoline (other taxes may apply)	\$0.2/gal	\$0.2159/gal	Aug-08
No. 2 Diesel Fuel Sold Through Retail Outlets (Excluding Taxes)	\$2.599/gal	\$2.318/gal	Nov-08
State Tax Rate on On-Highway Diesel (other taxes may apply)	\$0.26/gal	\$0.2214/gal	Aug-08
Natural Gas	Vermont	U.S. Avg.	Period
Wellhead	—	\$6.37/thousand cu ft	2007
City Gate	\$10.04/thousand cu ft	\$7.75/thousand cu ft	Nov-08
Residential	\$19.37/thousand cu ft	\$13.73/thousand cu ft	Nov-08

Coal	Vermont	U.S. Avg.	Period
Average Open Market Sales Price	—	\$26.20/short ton	2007
Delivered to Electric Power Sector	—	\$ 2.13 /million Btu	Nov-08
Electricity	Vermont	U.S. Avg.	Period
Residential	14.79 cents/kWh	11.47 cents/kWh	Nov-08
Commercial	12.66 cents/kWh	10.13 cents/kWh	Nov-08
Industrial	9.05 cents/kWh	7.06 cents/kWh	Nov-08

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Reserves & Supply

Reserves	Vermont	Share of U.S.	Period
Crude Oil	—	—	2007
Dry Natural Gas	—	—	2007
Natural Gas Liquids	—	—	2007
Recoverable Coal at Producing Mines	—	—	2007
Rotary Rigs & Wells	Vermont	Share of U.S.	Period
Rotary Rigs in Operation	0	0.0%	2008
Crude Oil Producing Wells	0	0.0%	2008
Natural Gas Producing Wells	—	—	2007
Production	Vermont	Share of U.S.	Period
Total Energy	78 trillion Btu	0.1%	2006
Crude Oil	—	—	Sep-08
Natural Gas - Marketed	—	—	2007
Coal	—	—	2007
Capacity	Vermont	Share of U.S.	Period
Crude Oil Refinery Capacity (as of Jan. 1)	—	—	2008
Electric Power Industry Net Summer Capability	1,111 MW	0.1%	2007
Net Electricity Generation	Vermont	Share of U.S.	Period
Total Net Electricity Generation	430 thousand MWh	0.1%	Nov-08
Petroleum-Fired	0 thousand MWh	0.0%	Nov-08
Natural Gas-Fired	0 thousand MWh	0.0%	Nov-08
Coal-Fired	—	—	Nov-08
Nuclear	297 thousand MWh	0.5%	Nov-08
Hydroelectric	95 thousand MWh	0.6%	Nov-08
Other Renewables	38 thousand MWh	0.4%	Nov-08
Stocks	Vermont	Share of U.S.	Period
Motor Gasoline (Excludes Pipelines)	—	—	Nov-08
Distillate Fuel Oil (Excludes Pipelines)	—	—	Nov-08
Natural Gas in Underground Storage	—	—	Nov-08
Petroleum Stocks at Electric Power Producers	W	W	Nov-08
Coal Stocks at Electric Power Producers	W	W	Nov-08
Production Facilities	Vermont		
Major Coal Mines	None		
Petroleum Refineries	None		
Major Non-Nuclear Electricity Generating Plants	J C McNeil (City of Burlington-Electric) • Bellows Falls (TransCanada Hydro Northeast Inc. •) • Wilder (TransCanada Hydro Northeast Inc. •) • Harriman (TransCanada Hydro Northeast Inc. •) • Berlin 5 (Green Mountain Power Corp)		
Nuclear Power Plants	Vermont Yankee (Entergy Nuclear Vermont Yankee)		

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Distribution & Marketing

Distribution Centers

Oil Seaports/Oil Import Sites High Spring-Alburg

Natural Gas Market Centers None

Major Pipelines

Crude Oil Portland

Petroleum Product None

Liquefied Petroleum Gases None

Interstate Natural Gas Pipelines None

Fueling Stations

	Vermont	Share of U.S.	Period
Motor Gasoline	646	0.4%	2007
Liquefied Petroleum Gases	5	0.2%	2009
Compressed Natural Gas	1	0.1%	2009
Ethanol	0	0.0%	2009
Other Alternative Fuels	5	0.4%	2009

➔ See more *Distribution and Marketing data for all States*

Consumption

per Capita

	Vermont	U.S. Rank	Period
Total Energy	264 million Btu	41	2006

by Source

	Vermont	Share of U.S.	Period
Total Energy	164 trillion Btu	0.2%	2006
Total Petroleum	17,006 thousand barrels	0.2%	2006
Motor Gasoline	8,354 thousand barrels	0.2%	2007
Distillate Fuel	4,917 thousand barrels	0.3%	2007
Liquefied Petroleum Gases	2,288 thousand barrels	0.3%	2006
Jet Fuel	317 thousand barrels	0.1%	2007
Natural Gas	8,867 million cu ft	0.0%	2007
Coal	W	W	2006

by End-Use Sector

	Vermont	Share of U.S.	Period
Residential	47,676 billion Btu	0.2%	2006
Commercial	31,249 billion Btu	0.2%	2006
Industrial	30,282 billion Btu	0.1%	2006
Transportation	54,505 billion Btu	0.2%	2006

for Electricity Generation

	Vermont	Share of U.S.	Period
Petroleum	NM	NA	Nov-08
Natural Gas	6 million cu ft	0.0%	Nov-08
Coal	—	—	Nov-08

for Home Heating (share of households)

	Vermont	U.S. Avg.	Period
Natural Gas	12%	51.2%	2000
Fuel Oil	59%	9.0%	2000
Electricity	5%	30.3%	2000
Liquefied Petroleum Gases	14%	6.5%	2000
Other/None	10%	1.8%	2000

➔ See more *Consumption data for all States*

Environment

Special Programs

Clean Cities Coalitions Vermont
State of Vermont

Alternative Fuels	Vermont	Share of U.S.	Period
Alternative-Fueled Vehicles in Use	960	0.2%	2006
Ethanol Plants	0	0.0%	2008
Ethanol Plant Capacity	0 million gal/year	0.0%	2008
Ethanol Use in Gasohol	0 thousand gal	0.0%	2004
Electric Power Industry Emissions	Vermont	Share of U.S.	Period
Carbon Dioxide	10,172 metric tons	0.0%	2006
Sulfur Dioxide	42 metric tons	0.0%	2006
Nitrogen Oxide	484 metric tons	0.0%	2006

➔ **See more Environment data for all States**

— = No data reported; NA = Not available; W = Withheld to avoid disclosure of individual company data.
 NM = Not meaningful due to large relative standard error or excessive percentage change.

Update on Feb. 19, 2009

New statistics for November 2008:

- Prices of electricity sold to the residential, commercial, and industrial sectors
- Price of coal delivered to the electric power sector
- Net electricity generation by fuel
- Fuel stocks at electric power producers
- Consumption for electricity generation by fuel

New statistics for 2008:

- Crude oil producing wells

New statistics for 2007:

- Consumption of distillate fuel oil

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References

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Related Reports

- [State Energy Data System \(SEDS\)](#)
tables that display comprehensive State data from as early as 1960 to the present
- [State Electricity Profiles](#)
tables that provide time series data from 1990 forward for key electricity indicators by State
- [State Renewable Electricity Profiles](#)
tables that provide data for the most recent year on capacity and generation of electricity from renewable sources
- [State Compendium of Nuclear Power Plants](#)
State-by-State reports on the nuclear industry
- [Natural Gas Residential Choice Programs](#)
written overviews of the status of natural gas industry restructuring in each State, focusing on the residential customer class
- [Status of Electricity Restructuring by State](#)
annotated map showing details of the status of electricity restructuring in each State
- [Regional Energy Profiles](#)
reports and maps that explore regional variations in U.S. energy consumption

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