

2021 NEW YORK STATE ENERGY FAST FACTS

2021 represents the first year of gradual recovery from the COVID-19 Public Health Emergency. As a result of the continued impact, energy use patterns should not be considered structural changes to the New York Energy profile in comparison to 2020 or earlier datasets.

PRIMARY ENERGY CONSUMPTION

5.0% greater than 2020; 8.1% less than 2019

Primary consumption (3.6% of U.S. total) (trillion Btu).....		3,532.2
By sector:		
Residential.....	(17.9%)	632.8
Commercial.....	(11.1%)	391.6
Industrial.....	(5.5%)	195.7
Transportation.....	(28.8%)	1,018.5
Electric Generation.....	(36.6%)	1,293.6
By fuel type:		
Petroleum.....	(33.9%)	1,198.7
Natural Gas.....	(38.5%)	1,361.2
Nuclear.....	(9.2%)	325.7
Renewable.....	(8.1%)	286.8
Net Imported Electricity.....	(6.0%)	213.7
Bioenergy ¹	(3.8%)	134.1
Coal.....	(0.2%)	5.4
Pumped Storage Hydro.....	(0.2%)	5.5
Primary consumption per capita (million Btu).....		177.9

NET ENERGY CONSUMPTION AND EXPENDITURES

Net Energy Consumption (trillion Btu) Estimated Expenditures (billion nominal dollars)

Total:.....	2,721.0	\$57.7
By sector:		
Residential.....	(29.8%) 810.7	(33.4%) \$19.3
Commercial.....	(23.2%) 630.1	(25.4%) \$14.7
Industrial.....	(9.3%) 253.3	(3.7%) \$2.1
Transportation.....	(37.7%) 1,026.8	(37.5%) \$21.6
By fuel type:		
Petroleum.....	(48.8%) 1,192.2	(43.3%) \$25.0
Natural Gas.....	(33.0%) 897.8	(16.8%) \$9.7
Electricity.....	(17.7%) 482.5	(39.5%) \$22.8
Bioenergy ¹	(4.3%) 116.5	(< 1.0%) < \$1.0
Renewable.....	(1.0%) 26.6	(< 0.1%) < \$0.1
Coal.....	(0.2%) 5.4	(< 0.1%) < \$0.1
Estimated energy expenditures leaving the State (billions).....		\$17.0

AVERAGE ENERGY PRICES

	2020	2021
Gasoline - all grades (gallon).....	\$2.15	\$2.87
Heating Oil (gallon).....	\$2.16	\$2.55
Natural Gas (thousand cubic feet)		
Residential.....	\$12.86	\$13.87
Commercial.....	\$6.92	\$ 7.96
Industrial.....	\$7.03	\$ 8.44
Electricity (kilowatt-hour)		
Residential.....	18.3¢	19.5¢
Commercial.....	14.6¢	16.1¢
Industrial.....	5.5¢	8.4¢

2021 KEY ENERGY OBSERVATIONS

- COVID-19 pandemic recovery begins with vaccines becoming available.
 - Recovery also includes a change in workforce dynamics. More remote working becomes available.
 - Primary consumption did not reach 2019 (pre-pandemic) levels.
- Annualized data for prices do not capture the market dynamics observed during this period of high market volatility.

¹Ethanol (40.4 Tbtu) is included in "Other" totals and also as a component of motor gasoline. Total consumption and percentages are based on ethanol only as "Other."

ELECTRICITY

Sales increased 0.7% from 2020; 5.7% less than 2019

Sales to ultimate consumers (gigawatt-hours)	141,424
By sector:	
Residential.....	(36.9%) 52,157
Commercial.....	(49.4%) 69,920
Industrial.....	(11.9%) 16,891
Transportation.....	(1.7%) 2,455
In-State Generation (gigawatt-hours).....	131,466
By fuel type:	
Nuclear.....	(20.4%) 31,177
Natural Gas.....	(38.9%) 59,460
Hydro.....	(18.5%) 28,214
Net Imported Electricity.....	(17.9%) 27,394
Petroleum.....	(0.1%) 158.9
Wind.....	(2.7%) 4,111
Solar.....	(1.8%) 2,769
Bioenergy.....	(1.5%) 2,254

PETROLEUM

Consumption increased 13.1% from 2020; 12.8% less than 2019

Consumption (3.8% of U.S. total) (million barrels)	235.3
By sector:	
Residential.....	(10.6%) 24.8
Commercial.....	(6.2%) 14.6
Industrial.....	(7.1%) 16.7
Transportation.....	(75.7%) 178.1
Electric Generation.....	(0.4%) 0.1
In-State production (thousand barrels)	266.0

NATURAL GAS

Consumption increased 4.4% from 2020; 1.8% less

Consumption (4.1% of U.S. total) (billion cubic feet).....	1,263.6
By sector:	
Residential.....	(33.8%) 445.6
Commercial.....	(22.6%) 297.8
Industrial.....	(6.8%) 89.9
Transportation.....	(2.8%) 36.7
Electric Generation.....	(34.0%) 449.0
In-State production (billion cubic feet)	9.7

ADDITIONAL 2020 STATISTICS

Population (6.1% of U.S. total) (million)	19.9
Number of housing units (million).....	8.5
Gross State Product (billion 2020 dollars).....	\$1,901.3
Motor vehicle registrations (million).....	9.4
Vehicle miles of travel (billion miles).....	106.9
Heating degree-days (decreased 0.5% from 2020).....	5,605
Cooling degree-days (decreased 7.0% from 2020).....	702

Note: Totals may not sum exactly due to rounding.

DATA SOURCE

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

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