

# 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
<b>By sector:</b>	
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 <sup>1</sup> .....	(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
<b>By sector:</b>		
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 <sup>1</sup> .....	(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.

<sup>1</sup>Ethanol (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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