

Released: May 2021

Next MECS will be fielded in 2023.

Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2018

Level: National and Regional Data;

Row: Energy Sources;

Column: Consumption Potential;

Unit: Physical Units.

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)
Total United States			
Electricity Receipts(c) (million kilowatthours)	785,414	773,894	796,465
Natural Gas (billion cubic feet)	6,129	5,701	6,225
Distillate Fuel Oil (thousand barrels)	15	14	40
Residual Fuel Oil (thousand barrels)	3	3	12
Coal (thousand short tons)	21	17	24
HGL (excluding natural gasoline) (thousand barrels)	17	14	58
Northeast Census Region			
Electricity Receipts(c) (million kilowatthours)	74,652	73,912	75,328
Natural Gas (billion cubic feet)	472	425	476
Distillate Fuel Oil (thousand barrels)	3	3	7
Residual Fuel Oil (thousand barrels)	1	1	3
Coal (thousand short tons)	1	1	1
HGL (excluding natural gasoline) (thousand barrels)	2	2	3
Midwest Census Region			
Electricity Receipts(c) (million kilowatthours)	245,110	241,797	247,417
Natural Gas (billion cubic feet)	1,757	1,622	1,792
Distillate Fuel Oil (thousand barrels)	4	3	10
Residual Fuel Oil (thousand barrels)	*	*	3
Coal (thousand short tons)	9	7	10
HGL (excluding natural gasoline) (thousand barrels)	5	4	24
South Census Region			
Electricity Receipts(c) (million kilowatthours)	354,606	349,028	362,074
Natural Gas (billion cubic feet)	3,235	3,032	3,275
Distillate Fuel Oil (thousand barrels)	6	5	18
Residual Fuel Oil (thousand barrels)	1	1	6
Coal (thousand short tons)	7	5	8
HGL (excluding natural gasoline) (thousand barrels)	5	5	20
West Census Region			
Electricity Receipts(c) (million kilowatthours)	111,046	109,157	111,647
Natural Gas (billion cubic feet)	666	622	682
Distillate Fuel Oil (thousand barrels)	3	3	4
Residual Fuel Oil (thousand barrels)	1	1	1
Coal (thousand short tons)	4	4	4
HGL (excluding natural gasoline) (thousand barrels)	4	3	11

(a) *Minimum Consumption* represents actual 2018 consumption decreased by the quantity of the designated type of energy that would no longer have been required if all ascertained switching from that type of energy had occurred. The minimum value includes the quantity of 2018 consumption for which switching capability was not ascertained.

(b) *Maximum Consumption* represents actual 2018 consumption increased by the quantity of the designated type of energy that would have been required if all ascertained switching into that type of energy had occurred. This value assumes that all indicated substitutions were possible simultaneously and the substitutable amount consists of the sum of all possible switches to the designated type of energy. The estimate assumes that 2018 output remained constant.

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(c) *Electricity Receipts* represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. *Electricity Receipts* has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error (RSE) is greater than 50 percent.

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2018 *Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

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RSE Table 10.1 Relative Standard Errors for Table 10.1;

Unit: Percents.

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)
Total United States			
Electricity Receipts(c) (million kilowatthours)	1.8	1.8	1.7
Natural Gas (billion cubic feet)	0.9	1.0	0.9
Distillate Fuel Oil (thousand barrels)	7.9	8.2	3.9
Residual Fuel Oil (thousand barrels)	2.5	2.6	6.6
Coal (thousand short tons)	3.3	3.9	2.9
HGL (excluding natural gasoline) (thousand barrels)	3.9	4.5	3.1
Northeast Census Region			
Electricity Receipts(c) (million kilowatthours)	5.1	5.1	5.1
Natural Gas (billion cubic feet)	4.0	4.5	4.0
Distillate Fuel Oil (thousand barrels)	28.8	29.6	11.7
Residual Fuel Oil (thousand barrels)	5.3	5.7	5.3
Coal (thousand short tons)	0.3	0.3	0.4
HGL (excluding natural gasoline) (thousand barrels)	8.7	9.1	6.8
Midwest Census Region			
Electricity Receipts(c) (million kilowatthours)	2.5	2.5	2.5
Natural Gas (billion cubic feet)	2.2	2.3	2.2
Distillate Fuel Oil (thousand barrels)	20.0	20.8	8.5
Residual Fuel Oil (thousand barrels)	29.3	29.7	26.3
Coal (thousand short tons)	0.3	0.3	0.4
HGL (excluding natural gasoline) (thousand barrels)	7.0	7.9	6.0
South Census Region			
Electricity Receipts(c) (million kilowatthours)	1.9	1.9	1.9
Natural Gas (billion cubic feet)	1.0	1.1	1.0
Distillate Fuel Oil (thousand barrels)	6.6	6.9	4.9
Residual Fuel Oil (thousand barrels)	1.0	0.8	4.8
Coal (thousand short tons)	0.2	0.2	0.9
HGL (excluding natural gasoline) (thousand barrels)	6.1	6.5	5.1
West Census Region			
Electricity Receipts(c) (million kilowatthours)	9.4	9.6	9.4
Natural Gas (billion cubic feet)	3.2	3.4	3.1
Distillate Fuel Oil (thousand barrels)	14.0	14.1	11.0
Residual Fuel Oil (thousand barrels)	7.0	7.3	7.3
Coal (thousand short tons)	15.8	17.5	15.2
HGL (excluding natural gasoline) (thousand barrels)	9.8	12.6	3.9

(a) *Minimum Consumption* represents actual 2018 consumption decreased by the quantity of the designated type of energy that would no longer have been required if all ascertained switching from that type of energy had occurred. The minimum value includes the quantity of 2018 consumption for which switching capability was not ascertained.

(b) *Maximum Consumption* represents actual 2018 consumption increased by the quantity of the designated type of energy that would have been required if all ascertained switching into that type of energy had occurred. This value assumes that all indicated substitutions were possible simultaneously and the substitutable amount consists of the sum of all possible switches to the designated type of energy. The estimate assumes that 2018 output remained constant.

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* Estimate less than 0.5.

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Q=Withheld because Relative Standard Error (RSE) is greater than 50 percent.

X=Not defined because RSE corresponds to a data table value of zero.

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding.

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Manufacturing Energy Consumption Survey.

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