



Short-Term Energy Outlook (STEO)

Forecast highlights

Global liquid fuels

- Brent crude oil spot prices averaged \$64 per barrel (b) in February, up \$5/b from January 2019 and about \$1/b lower than at the same time last year. EIA forecasts Brent spot prices will average \$63/b in 2019 and \$62/b in 2020, compared with an average of \$71/b in 2018. EIA expects that West Texas Intermediate (WTI) crude oil prices will average \$9/b lower than Brent prices in the first half of 2019 before the discount gradually falls to \$4/b in the fourth quarter of 2019 and throughout 2020.
- EIA estimates that U.S. crude oil production averaged 11.9 million barrels per day (b/d) in February, down slightly from the January average. EIA forecasts that U.S. crude oil production will average 12.3 million b/d in 2019 and 13.0 million b/d in 2020, with most of the growth coming from the Permian region of Texas and New Mexico.
- Net imports of U.S. crude oil and petroleum products fell from an average of 3.8 million b/d in 2017 to an average of 2.3 million b/d in 2018. EIA forecasts that net imports will continue to fall to an average of 1.0 million b/d in 2019 and to an average net export level of 0.1 million b/d in 2020. In the fourth quarter of 2020, EIA forecasts that the United States will be a net exporter of crude oil and petroleum products by about 0.9 million b/d.

Natural gas

- The Henry Hub natural gas spot price averaged \$2.69/million British thermal units (MMBtu) in February, down 42 cents/MMBtu from January. EIA expects strong growth in U.S. natural gas production to put downward pressure on prices in 2019. EIA expects Henry Hub natural gas spot prices will average \$2.85/MMBtu in 2019, down 30 cents/MMBtu from 2018. NYMEX futures and options contract values for June 2019 delivery traded during the five-day period ending March 7, 2019, suggest a range of \$2.40/MMBtu to \$3.51/MMBtu encompasses the market expectation for June 2019 Henry Hub natural gas prices at the 95% confidence level.
- EIA forecasts that dry natural gas production will average 90.7 billion cubic feet per day (Bcf/d) in 2019, up 7.4 Bcf/d from 2018. EIA expects natural gas production will continue to rise in 2020 to an average of 92.0 Bcf/d.

- EIA expects natural gas inventories will end March at 1.2 trillion cubic feet (Tcf), which would be 14% lower than levels from a year earlier and 28% lower than the five-year (2014–18) average. EIA forecasts that natural gas storage injections will outpace the previous five-year average during the April-through-October injection season and that inventories will reach 3.6 Tcf at the end of October, which would be 12% higher than October 2018 levels and 2% below the five-year average.

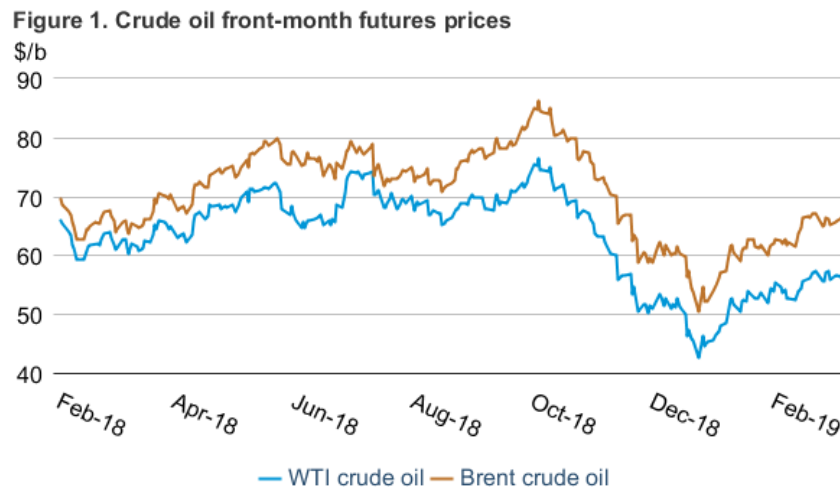
Electricity, coal, renewables, and emissions

- EIA expects the share of U.S. total utility-scale electricity generation from natural gas-fired power plants to rise from 35% in 2018 to 37% in 2019 and in 2020. EIA forecasts that the share of electricity generation from coal will average 25% in 2019 and 23% in 2020, down from 27% in 2018. The nuclear share of generation was 19% in 2018, and EIA forecasts that it will stay near that level in 2019 and in 2020. The generation share of hydropower is forecast to average slightly less than 7% of total generation in 2019 and in 2020, similar to 2018. Wind, solar, and other nonhydropower renewables together provided about 10% of electricity generation in 2018. EIA expects they will provide 11% in 2019 and 13% in 2020.
- In 2019, EIA expects wind’s annual share of electricity generation will exceed hydropower’s share for the first time. EIA forecasts that wind generation will rise from 753,000 megawatt hours per day (MWh/d) in 2018 to 861,000 MWh/d in 2019 (a share of 8%). Wind generation is projected to rise to 963,000 MWh/d (a share of 9%) by 2020.
- EIA estimates that U.S. coal exports increased by 19 million short tons (MMst) (19%) in 2018, totaling 116 MMst. EIA expects declines in both steam coal and metallurgical coal (used in the steelmaking process) exports in 2019 and in 2020. Metallurgical coal exports are forecast to decline by 10 MMst (16%) in 2019 and by an additional 3 MMst (5%) in 2020 as the forecast’s global economic growth slows and decreases the demand for steel. Exports of steam coal, used primarily in electricity generation, are expected to decline by 5 MMst (10%) in 2019 and in 2020. Although forecast steam coal exports to non-traditional markets (North Africa, non-EU Europe, Central and South America) remain strong, exports to traditional markets, particularly the EU, will see demand for steam coal decline as countries initiate plans to limit/eliminate coal-fired electricity generation.
- After rising by 2.9% in 2018, EIA forecasts that U.S. energy-related carbon dioxide (CO₂) emissions will decline by 1.6% in 2019 and by 0.5% in 2020. The 2018 increase largely reflected increased weather-related natural gas use because of additional heating needs during a colder winter and for higher electric generation to support more summer cooling use than in 2017. EIA expects emissions to fall in 2019 and in 2020 because of forecasted temperatures that will return to near normal and natural gas and renewables making up a higher share of electricity generation. Energy-related CO₂ emissions are sensitive to changes in weather, economic growth, energy prices, and fuel mix.

Petroleum and natural gas markets review

Crude oil

Prices: The front-month futures price for Brent crude oil settled at \$66.30 per barrel (b) on March 7, 2019, an increase of \$3.55/b from February 1, 2019. The front-month futures price for West Texas Intermediate (WTI) crude oil for delivery at Cushing, Oklahoma, increased by \$1.40/b during the same period, settling at \$56.66/b on March 7 (Figure 1).



 CME Group and Intercontinental Exchange, as compiled by Bloomberg L.P.

Price increases in February coincided with EIA's estimate that global liquid fuels inventories fell by 1.4 million barrels per day (b/d), the largest inventory withdrawal for any month since June 2017. Declining estimated crude oil production for February in both the Organization of the Petroleum Exporting Countries (OPEC) and the United States contributed to the draws, with U.S. petroleum inventories declining by 17.9 million barrels during the week ending February 22, the largest one-week decline since 2011. Despite high price volatility during the past year, Brent crude oil prices as of the first week of March were at essentially the same levels as in March 2018.

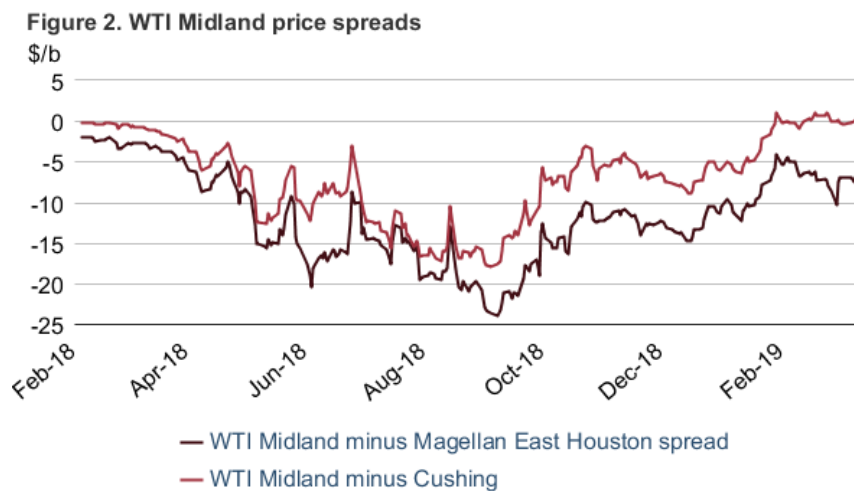
Notwithstanding the strong draw in February, EIA forecasts that global liquid fuels inventories will rise by 0.2 million b/d in 2019 and by 0.4 million b/d in 2020. The March STEO's expected inventory builds in both years are lower than the forecast in last month's STEO. The lower forecast inventory builds reflect lower expected crude oil production in both OPEC and the United States. Saudi Arabia cut crude oil production by more than expected in February, with production averaging 10 million b/d, and EIA assumes that joint OPEC/non-OPEC crude oil production cuts will remain in place through the end of 2019.

In addition, the U.S. active oil rig count reached a 10-month low of 834 rigs as of March 8, suggesting the rate of U.S. crude oil production growth could slow. Even though U.S. crude oil production is estimated to have remained near 11.9 million b/d for the past four months, EIA

still forecasts U.S. crude oil production to increase by 1.3 million b/d in 2019 and by 0.7 million b/d in 2020.

OPEC and U.S. production levels, as well as the pace of global oil demand growth, present considerable uncertainty to oil market balances and price expectations. Based on the current forecast, however, EIA expects global inventory builds and rising OPEC spare capacity will limit significant upward oil price pressures in 2019 and in 2020.

Crude oil price spreads: Crude oil prices in the Permian region have increased since the beginning of the year. Two recent pipeline capacity additions reduced some of the takeaway constraints that developed in the second half of 2018. The WTI Midland crude oil price spreads with WTI Cushing and Magellan East Houston crude oil began narrowing in late January and settled at 15 cents/b and $-\$7.00/b$ on March 7, respectively (**Figure 2**). The [Sunrise Expansion](#) project added an estimated 120,000 b/d by early 2019, increasing takeaway capacity to Cushing. In addition, the [Seminole-Red](#) natural gas liquids pipeline was repurposed to deliver crude oil from the Permian region to the U.S. Gulf Coast and began operating ahead of schedule, adding an estimated 200,000 b/d of takeaway capacity by April. Although EIA expects growing Permian production to face takeaway constraints again in the coming months, EIA expects that the recent capacity additions will prevent price spreads from widening back to the levels reached in the second and third quarters of 2018. EIA expects that new pipelines coming online in the third quarter of 2019 will alleviate the remaining takeaway constraints.



 Bloomberg L.P.

The recent changes in price spreads also reveal the takeaway constraints out of Cushing, particularly during refinery maintenance season, a phenomenon which also [occurred last October](#). Cushing stocks [increased](#) by 5 million barrels from the first week in February through March 1. In addition, [Midwest gross refinery inputs](#) fell to 3.5 million b/d for the four-week average ending March 1, which is lower than the five-year (2014–18) average level for those four weeks. The Brent–WTI Cushing spot price spread averaged $\$8.97/b$ in February, the second widest level for any month in the past five years. Although EIA expects the spread to narrow

from current levels by the end of the year, EIA is revising its forecast for the Brent–WTI spread to remain at \$9/b until June 2019, compared with \$8/b in the February STEO.

Correlations: Typically, a strong positive correlation between equity prices and crude oil prices indicates demand-side factors, such as global economic growth, are contributing to crude oil price formation. Front-month Brent crude oil’s rolling 60-day correlation between the daily percentage changes of the S&P 500 index reached the highest levels since 2016 in early March (Figure 3). Correlations increased as prices for both equities and crude oil declined in the fourth quarter of 2018 with the release of some economic data points that came in lower than market expectations and tightening global monetary policy. However, recently, the improvement in some economic data may have contributed to upward price pressure for both equities and crude oil. The delay of tariffs between the United States and China, as well as the potential for a trade agreement between the two countries, could contribute to increased economic activity. Furthermore, recent global central bank guidance has indicated looser monetary policy in 2019 compared with guidance from the fourth-quarter 2018, which could allow for easier financial conditions.

Figure 3. Rolling 60-day correlations with Brent crude oil prices

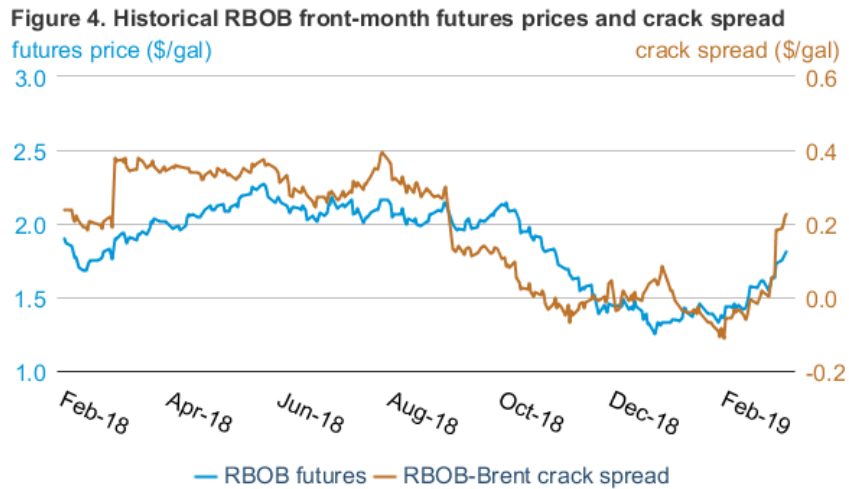



eia IntercontinentalExchange, Bloomberg L.P.

Petroleum products

Gasoline prices: The New York Harbor front-month futures price of reformulated blendstock for oxygenate blending (RBOB, the petroleum component of gasoline used in many parts of the country) settled at \$1.81 per gallon (gal) on March 7, 2019 (Figure 4), an increase of 37 cents/gal from February 1, 2019. The RBOB–Brent crack spread (the difference between the price of RBOB and the price of Brent crude oil) increased by 28 cents/gal to settle at 23 cents/gal during the same period. The RBOB–Brent crack spread increased 11 cents/gal in February before the contract changed to summer-grade gasoline on March 1, causing a typical seasonal increase in the crack spread.

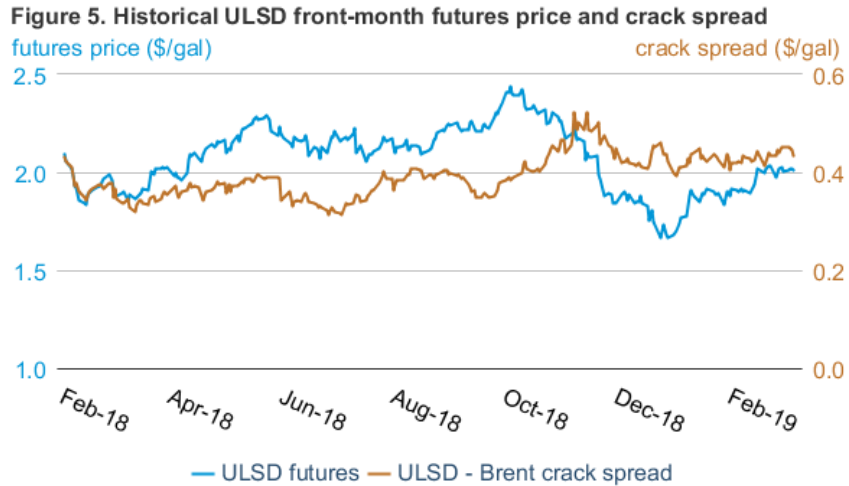
Despite the increase in the RBOB–Brent crack spread in recent weeks, it remains significantly lower than average levels for this time of year. In February, U.S. gasoline consumption combined with exports remained near 2018 levels but have failed to reduce inventory levels significantly, likely because of high refinery production. STEO estimates that U.S. gasoline production from refineries (excluding ethanol net inputs and other blending component net inputs) averaged 7.8 million barrels per day (b/d) during January and February, which would be just lower than 2018’s all-time high if confirmed in EIA’s *Petroleum Supply Monthly*.



 CME Group, as compiled by Bloomberg L.P., RBOB=reformulated blendstock for oxygenate blending

Ultra-low sulfur diesel prices: The ultra-low sulfur diesel (ULSD) front-month futures price for delivery in New York Harbor settled at \$2.01/gal on March 7, 2019 (**Figure 5**), an increase of 10 cents/gal from February 1, 2019. The ULSD–Brent crack spread (the difference between the price of ULSD and the price of Brent crude oil) increased by 2 cents/gal to settle at 43 cents/gal during the same period.

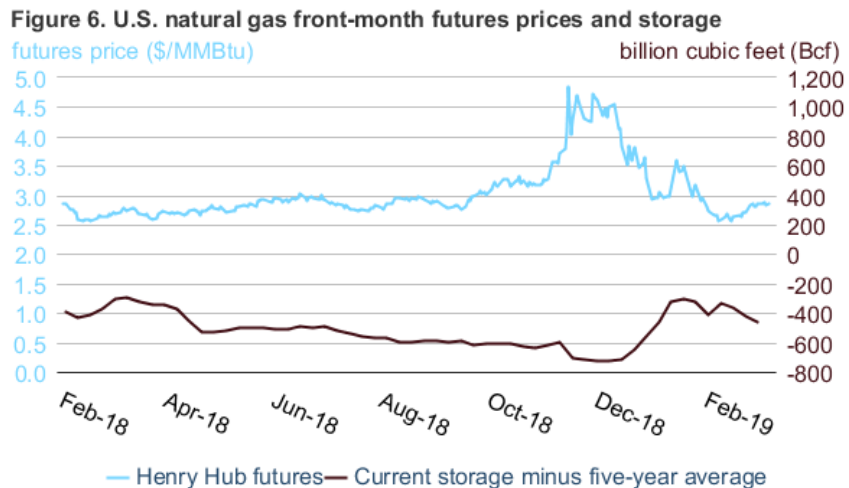
The February average ULSD–Brent crack spread of 43 cents/gal was 9% higher than the five-year average (2014–18) for the month, continuing a trend of strong [distillate refining margins](#). STEO estimates U.S. distillate consumption was 2% higher year-over-year in February, at 4.1 million b/d, likely because of colder weather compared with February 2018. This consumption level—along with four-week average exports of 1.2 million b/d for the week ending March 1—contributed to an estimated 3 million barrel draw in domestic distillate inventories from January to February. STEO estimates that distillate inventories ended February 3% lower than the five-year average level, but it forecasts year-end 2019 distillate inventories to be 146 million barrels, a 4% increase over year-end 2018.



eia CME Group, as compiled by Bloomberg L.P., ULSD=ultra-low sulfur diesel

Natural Gas

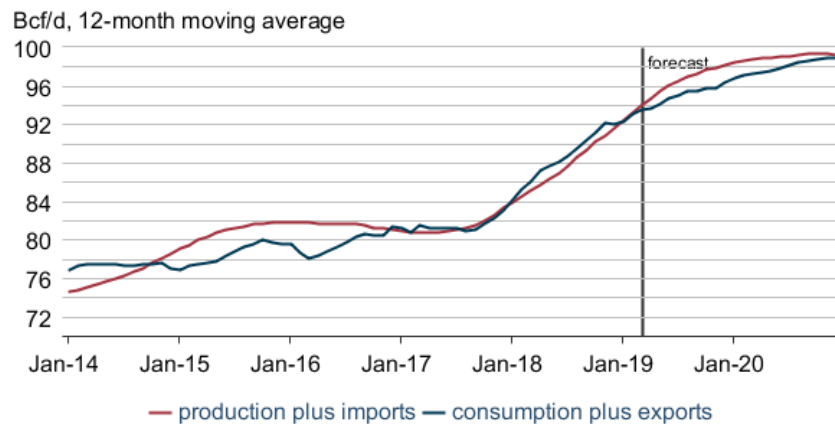
Prices: The front-month natural gas futures contract for delivery at the Henry Hub settled at \$2.87/million British thermal units (MMBtu) on March 7, 2019, an increase of 13 cents/MMBtu from February 1, 2019 (**Figure 6**). After showing much higher volatility since September, front-month futures prices in February traded within a range of 37 cents/MMBtu, the narrowest range for that month in 19 years. Colder-than-normal temperatures in the second half of the month contributed to larger inventory draws and rising prices. Storage withdrawals for the three weeks ending March 1 totaled 492 billion cubic feet (Bcf), which was 131 Bcf (36%) higher than the five-year average (2014–18). The higher-than-average withdrawals caused the inventory deficit to the five-year average to reach 464 Bcf (25%) on March 1.



eia U.S. Energy Information Administration, CME Group, as compiled by Bloomberg L.P.

Supply and demand: In the current STEO, EIA expects that total supply of natural gas will outpace demand through the end of 2020. EIA estimates that, in January 2019, the 12-month average of natural gas supply (production combined with imports) exceeded the 12-month average of demand (consumption combined with exports) for the first time since December 2017 (**Figure 7**). EIA forecasts that natural gas production will continue to increase, setting record highs in 2019 and in 2020. In addition, based on company reports, EIA expects new liquefied natural gas (LNG) capacity to come online this year and contribute to rising LNG exports. EIA expects the bulk of this capacity to start in the [second quarter of 2019](#). As a result of the ongoing production growth, however, the 12-month moving average of supply is forecast to exceed demand through the forecast period. EIA forecasts that the higher supply growth will bring inventory levels back near five-year averages and help to keep price levels moderate. EIA forecasts Henry Hub spot prices to average \$2.85/MMBtu in 2019, down by 30 cents/MMBtu from the 2018 average.

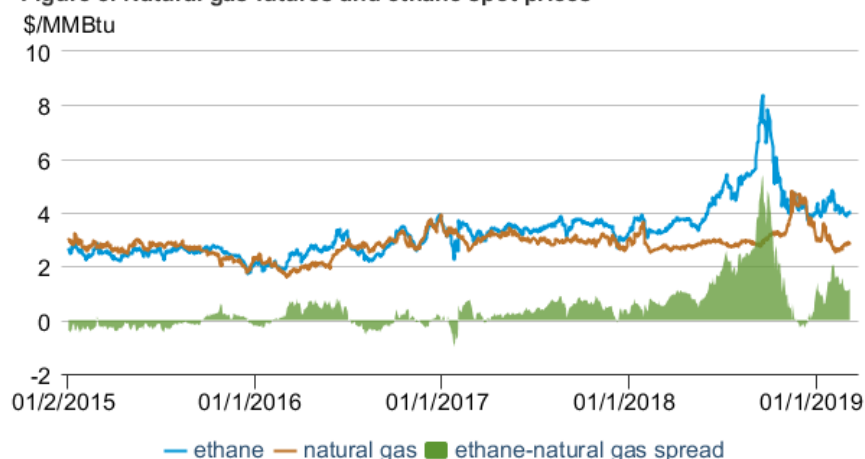
Figure 7. Natural gas production plus imports and consumption plus exports



 U.S. Energy Information Administration

Ethane-natural gas price spreads: The price spread between ethane and natural gas has remained greater than \$1/MMBtu since mid-January. Ethane spot prices at the Mt. Belvieu, Texas, hydrocarbon gas liquids (HGL) trading hub were highly correlated with Henry Hub natural gas spot prices from about 2012 until mid-2017 (**Figure 8**). Since then, additions to petrochemical capacity in the form of new-build ethylene crackers as well as expansions and debottlenecking at existing facilities have increased demand for ethane and contributed to rising ethane prices. [Growing exports](#), especially from the Morgan’s Point terminal on the Houston Ship Channel, have also put upward pressure on ethane prices since mid-2017. With higher ethane prices relative to natural gas, producers further inland are likely able to economically [extract ethane](#) from natural gas and cover transportation costs to the U.S. Gulf Coast.

Figure 8. Natural gas futures and ethane spot prices



eia Bloomberg L.P.

Notable forecast changes

- EIA expects electricity generation fueled by natural gas will grow by 2% in 2019, in contrast to a forecast of minimal growth in natural gas generation for 2019 in last month's STEO. Similarly, EIA now expects coal-fired generation this year to fall by 12%, compared with a forecast 2019 decline of 8% in last month's STEO. These changes in the forecast are driven primarily by new natural-gas fired generating capacity coming online sooner than expected. As a result, EIA expects coal production in 2019 to total 695 million short tons (MMst), which is 27 MMst (4%) lower than forecast in the February STEO.
- For more information, see the [detailed table of STEO forecast changes](#).

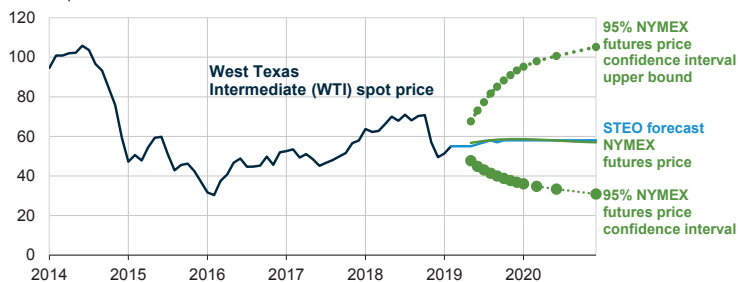
This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the U.S. Department of Energy or other federal agencies.



Short-Term Energy Outlook

Chart Gallery for March 2019

West Texas Intermediate (WTI) crude oil price and NYMEX confidence intervals
dollars per barrel

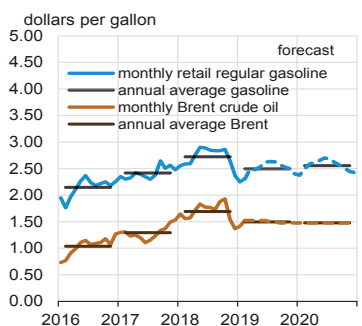


Note: Confidence interval derived from options market information for the five trading days ending Mar 7, 2019. Intervals not calculated for months with sparse trading in near-the-money options contracts.

Source: Short-Term Energy Outlook, March 2019, and CME Group

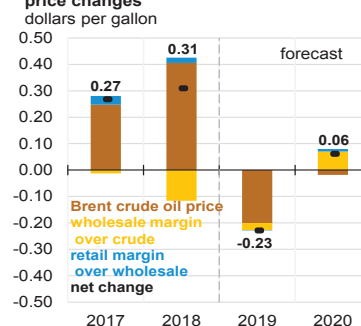


U.S. gasoline and crude oil prices

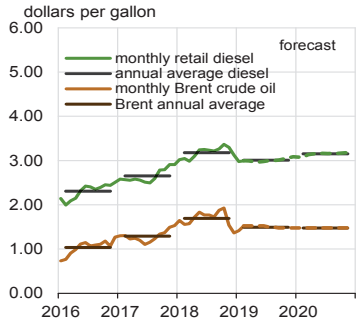


Source: Short-Term Energy Outlook, March 2019

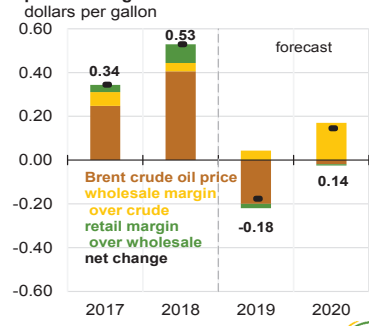
Components of annual gasoline price changes



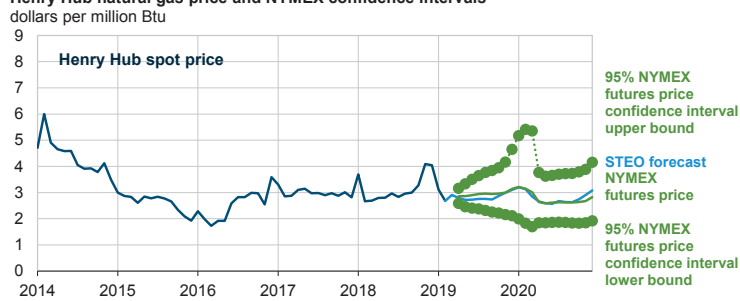
U.S. diesel and crude oil prices



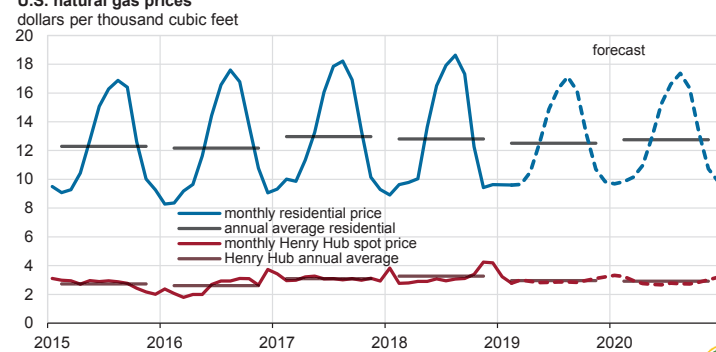
Components of annual diesel prices changes



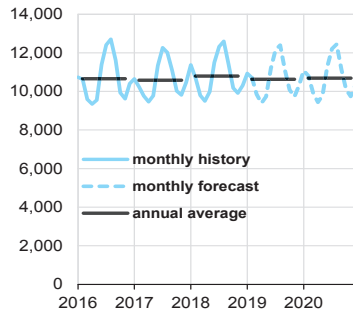
Henry Hub natural gas price and NYMEX confidence intervals



U.S. natural gas prices

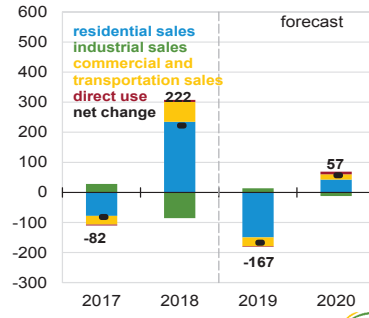


U.S. electricity consumption
million kilowatthours per day

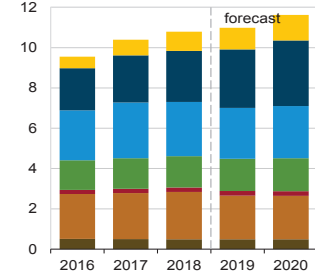


Source: Short-Term Energy Outlook, March 2019

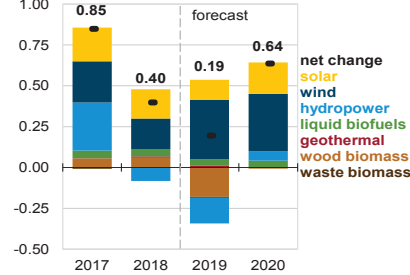
Components of annual change
million kilowatthours per day



U.S. renewable energy supply
quadrillion British thermal units



Components of annual change
quadrillion British thermal units

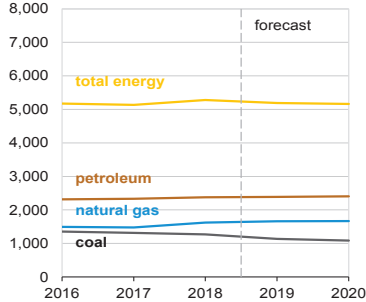


Note: Hydropower excludes pumped storage generation. Liquid biofuels include ethanol and biodiesel. Other biomass includes municipal waste from biogenic sources, landfill gas, and other non-wood waste.

Source: Short-Term Energy Outlook, March 2019

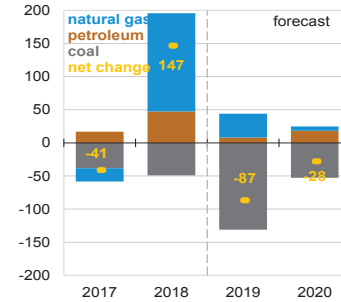


U.S. annual carbon emissions by source
million metric tons



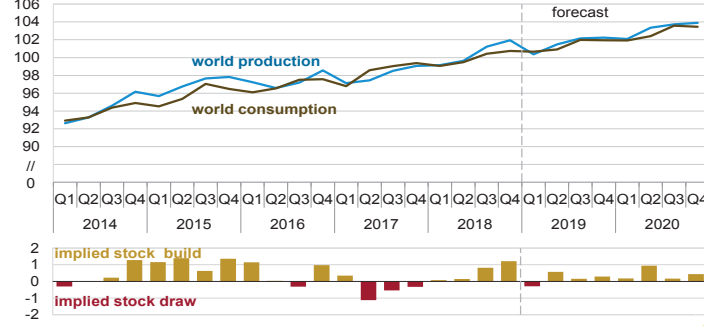
Source: Short-Term Energy Outlook, March 2019

Components of annual change
million metric tons



World liquid fuels production and consumption balance

million barrels per day

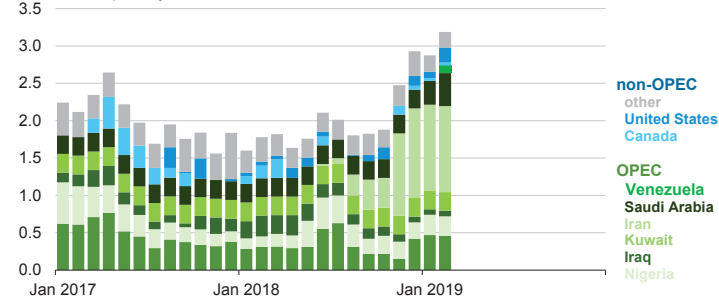


Source: Short-Term Energy Outlook, March 2019



Estimated unplanned liquid fuels production outages

million barrels per day

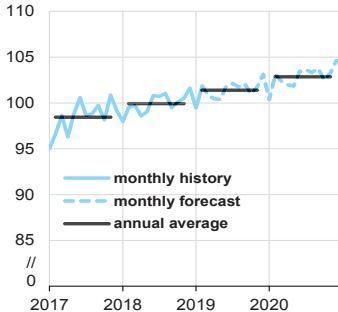


Source: Short-Term Energy Outlook, March 2019



World liquid fuels consumption

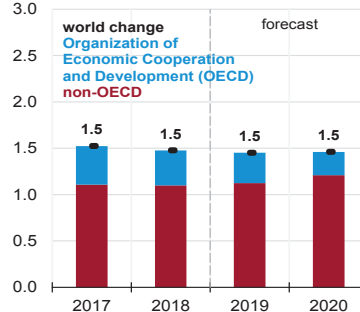
million barrels per day



Source: Short-Term Energy Outlook, March 2019

Components of annual change

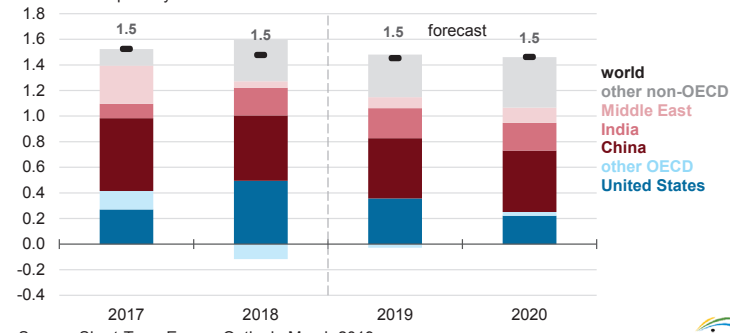
million barrels per day



Source: Short-Term Energy Outlook, March 2019



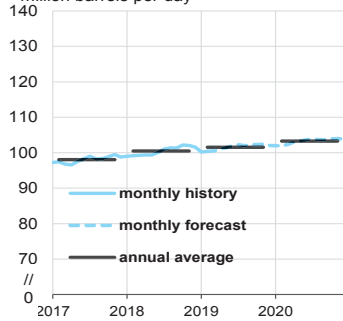
Annual change in world liquid fuels consumption
million barrels per day



Source: Short-Term Energy Outlook, March 2019

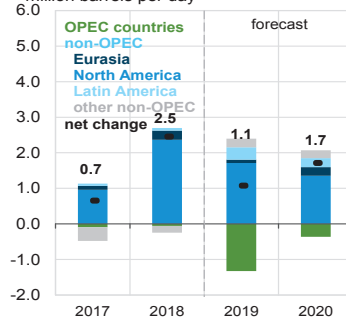


World crude oil and liquid fuels production
million barrels per day

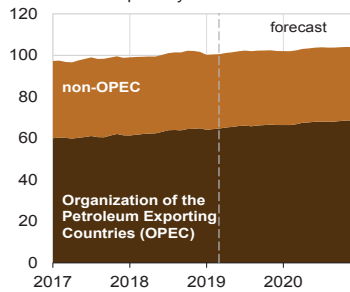


Source: Short-Term Energy Outlook, March 2019

Components of annual change
million barrels per day

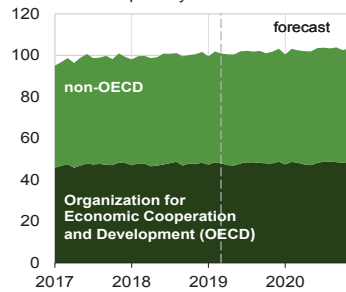


World liquid fuels production
million barrels per day

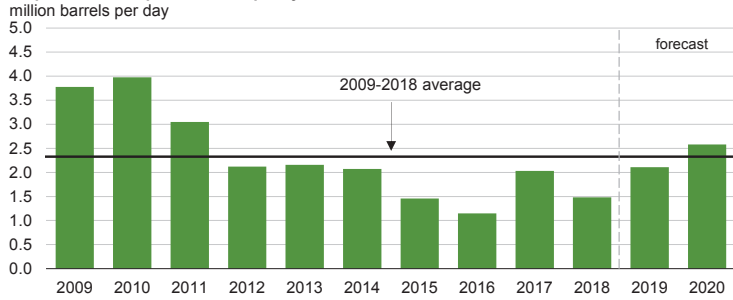


Source: Short-Term Energy Outlook, March 2019

World liquid fuels consumption
million barrels per day



**Organization of the Petroleum Exporting Countries (OPEC)
surplus crude oil production capacity**

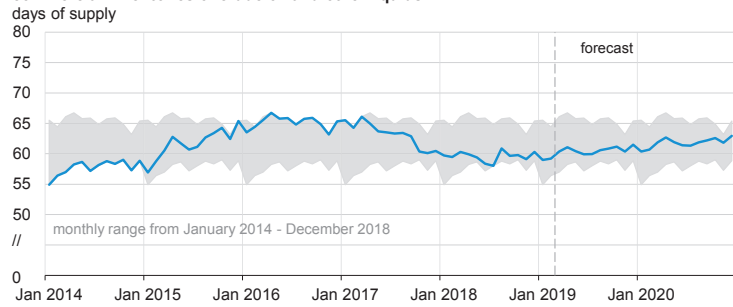


Note: Black line represents 2009-2018 average (2.3 million barrels per day).

Source: Short-Term Energy Outlook, March 2019



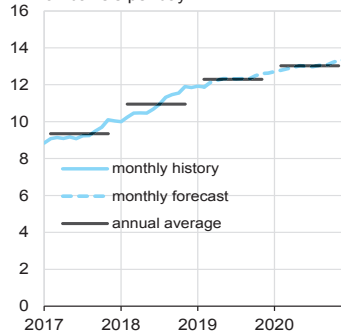
**Organization for Economic Cooperation and Development (OECD)
commercial inventories of crude oil and other liquids**



Source: Short-Term Energy Outlook, March 2019

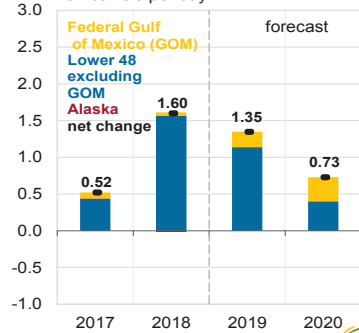


U.S. crude oil production

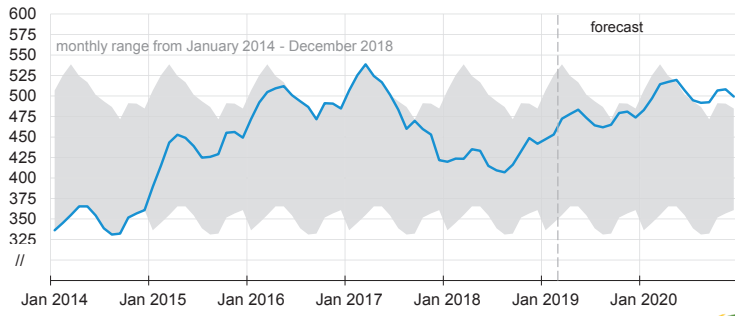


Source: Short-Term Energy Outlook, March 2019

Components of annual change



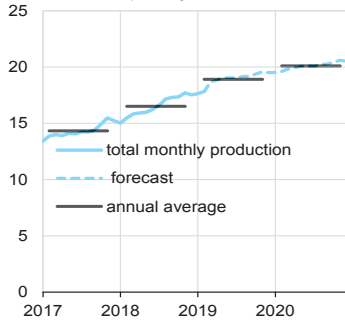
U.S. commercial crude oil inventories
million barrels



Source: Short-Term Energy Outlook, March 2019

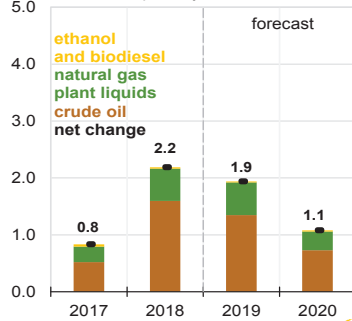


U.S. crude oil and liquid fuels production
million barrels per day

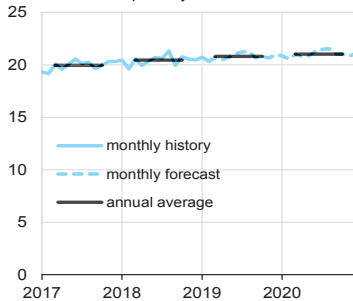


Source: Short-Term Energy Outlook, March 2019

Components of annual change
million barrels per day

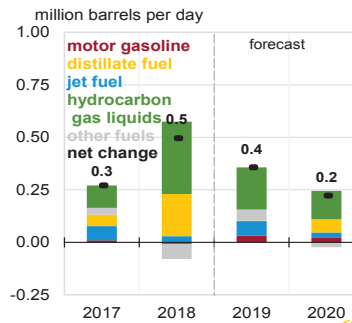


U.S. liquid fuels product supplied (consumption)
million barrels per day

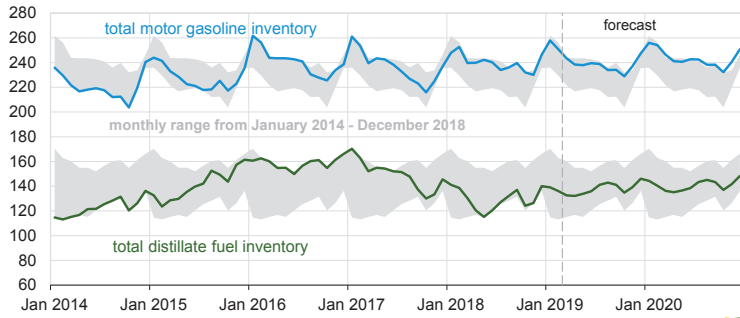


Source: Short-Term Energy Outlook, March 2019

Components of annual change
million barrels per day



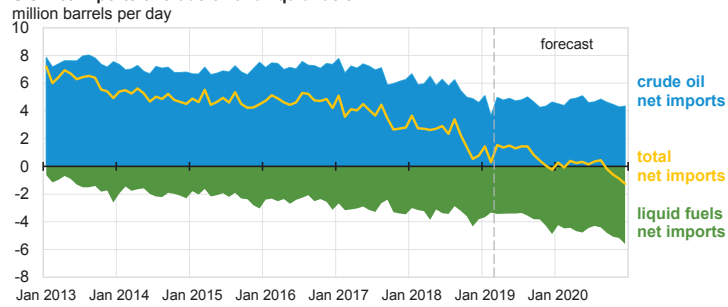
U.S. gasoline and distillate inventories
million barrels



Source: Short-Term Energy Outlook, March 2019



U.S. net imports of crude oil and liquid fuels

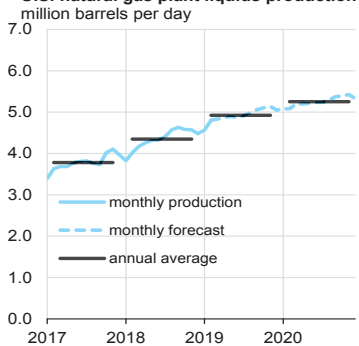


Note: Liquids fuels include: gasoline, distillate fuels, hydrocarbon gas liquids, jet fuel, residual fuel oil, unfinished oils, other hydrocarbons/oxygenates, and other oils.

Source: Short-Term Energy Outlook, March 2019

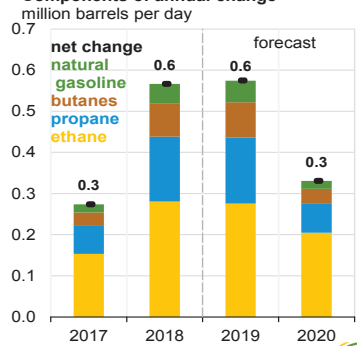


U.S. natural gas plant liquids production

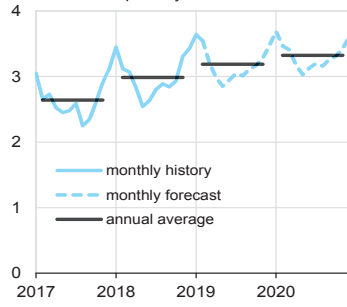


Source: Short-Term Energy Outlook, March 2019

Components of annual change

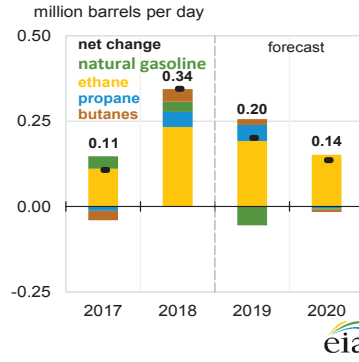


U.S. hydrocarbon gas liquids product supplied (consumption)
million barrels per day

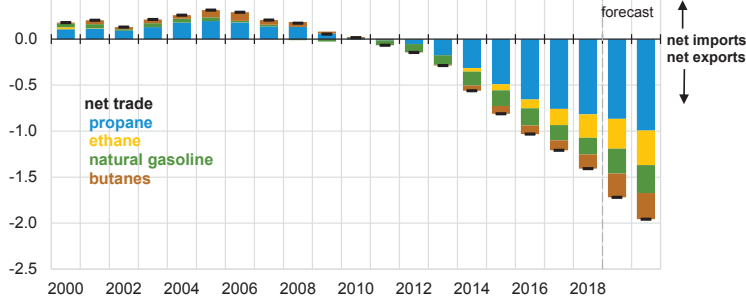


Source: Short-Term Energy Outlook, March 2019

Components of annual change



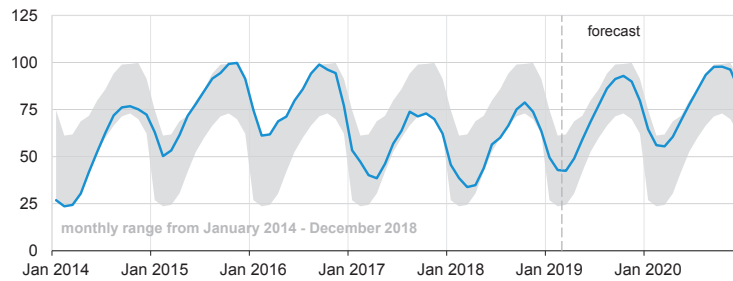
U.S. net trade of hydrocarbon gas liquids (HGL)
million barrels per day



Source: Short-Term Energy Outlook, March 2019



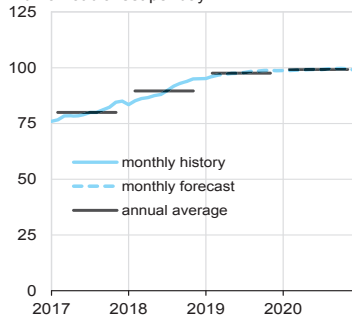
U.S. commercial propane inventories
million barrels



Source: Short-Term Energy Outlook, March 2019

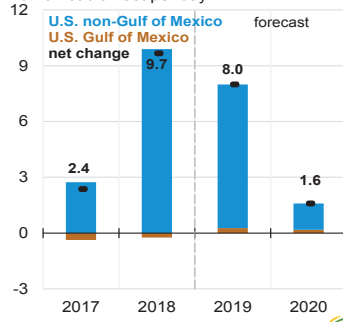


U.S. marketed natural gas production
billion cubic feet per day

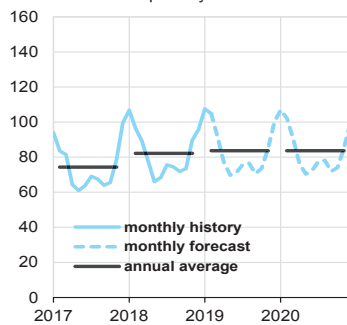


Source: Short-Term Energy Outlook, March 2019

Components of annual change
billion cubic feet per day

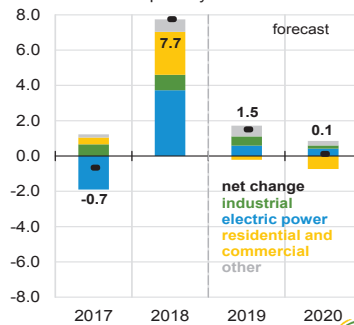


U.S. natural gas consumption
billion cubic feet per day

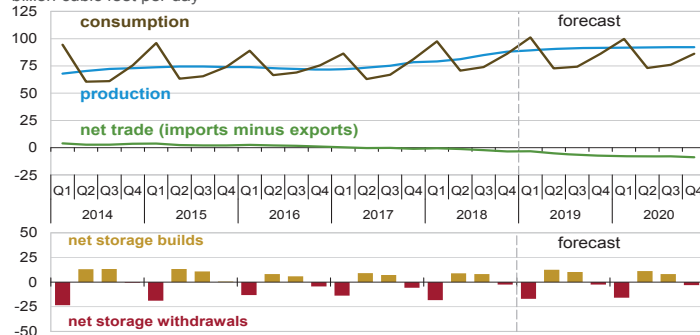


Source: Short-Term Energy Outlook, March 2019

Components of annual change
billion cubic feet per day



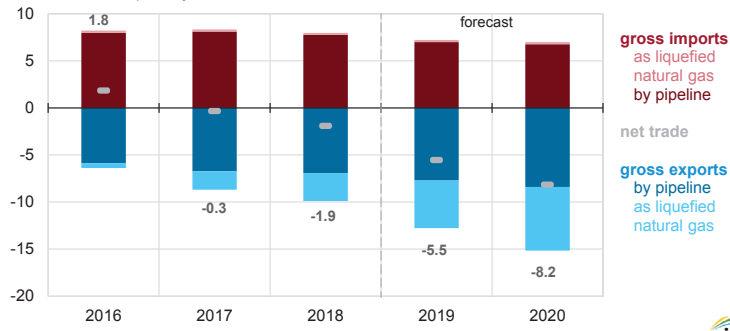
U.S. natural gas production, consumption, and net imports
billion cubic feet per day



Source: Short-Term Energy Outlook, March 2019



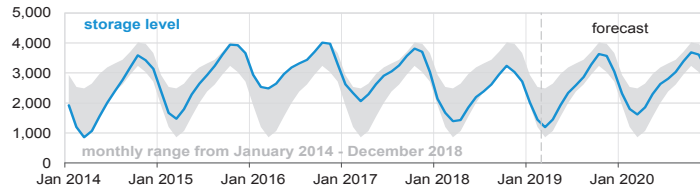
Annual natural gas trade
billion cubic feet per day



Source: Short-Term Energy Outlook, March 2019



U.S. working natural gas in storage
billion cubic feet



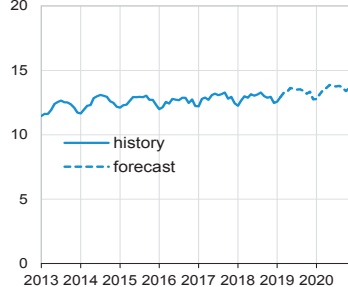
Percent deviation from 2014 - 2018 average



Source: Short-Term Energy Outlook, March 2019

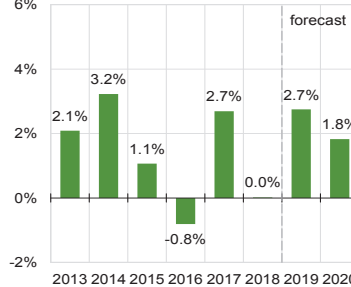


U.S. monthly residential electricity price
cents per kilowatthour

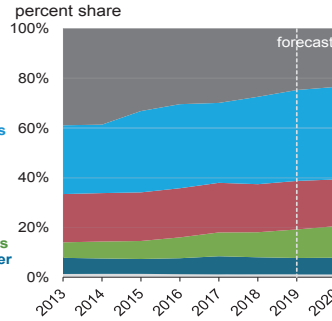
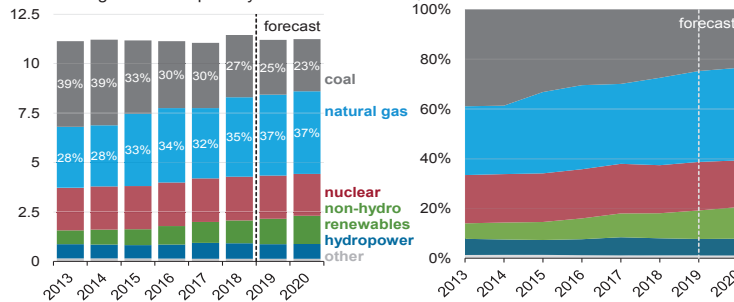


Source: Short-Term Energy Outlook, March 2019

Annual growth in residential electricity prices
percent



U.S. electricity generation by fuel, all sectors
million megawatthours per day

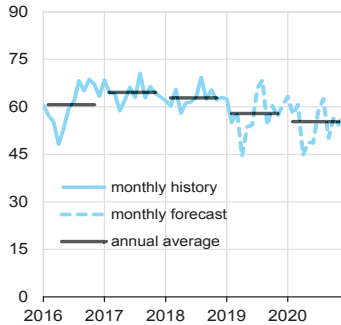


Note: Labels show percentage share of total generation provided by coal and natural gas.

Source: Short-Term Energy Outlook, March 2019

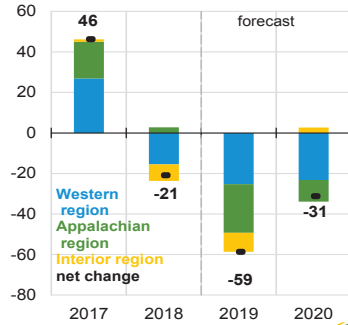


U.S. coal production
million short tons

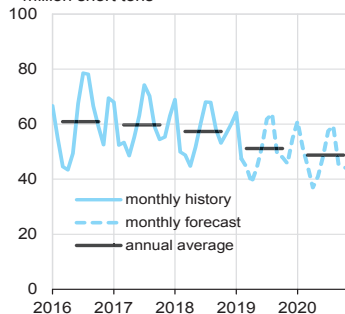


Source: Short-Term Energy Outlook, March 2019

Components of annual change
million short tons

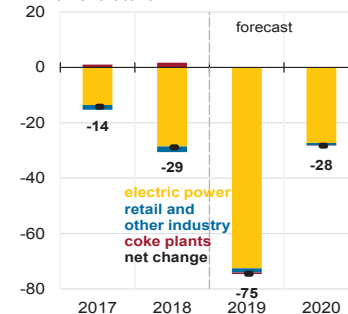


U.S. coal consumption
million short tons

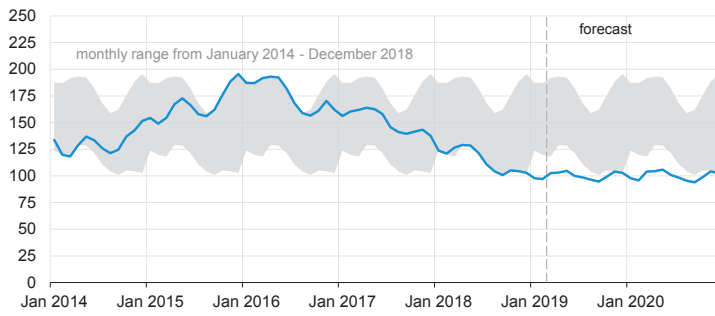


Source: Short-Term Energy Outlook, March 2019

Components of annual change
million short tons



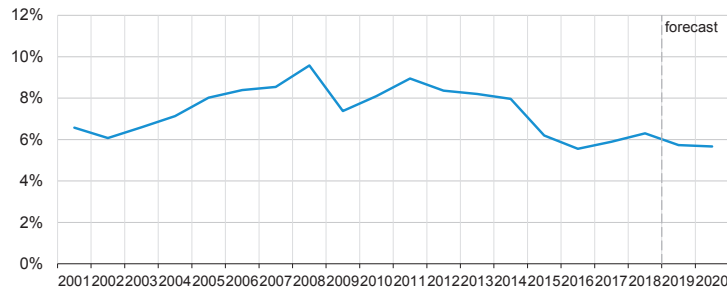
U.S. electric power coal inventories
million short tons



Source: Short-Term Energy Outlook, February 2019



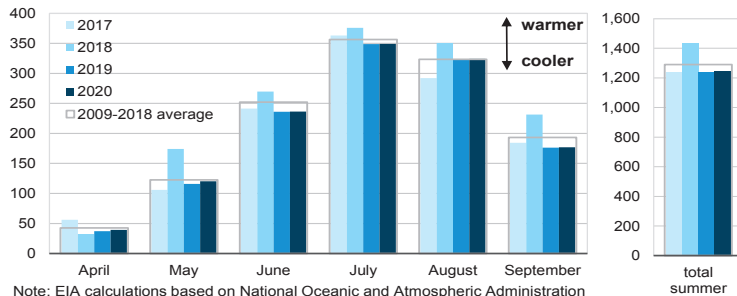
U.S. annual energy expenditures
share of gross domestic product



Source: Short-Term Energy Outlook, March 2019



U.S. summer cooling degree days
population-weighted

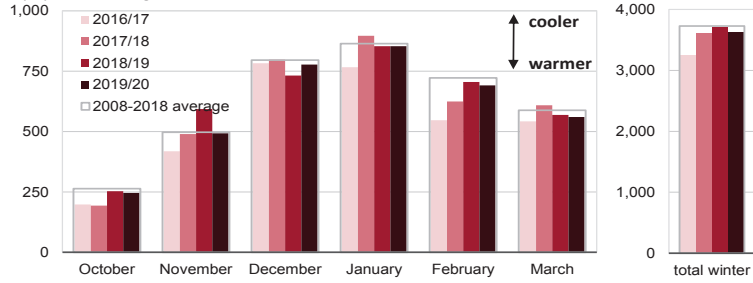


Note: EIA calculations based on National Oceanic and Atmospheric Administration (NOAA) data. Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, March 2019



U.S. winter heating degree days
population-weighted

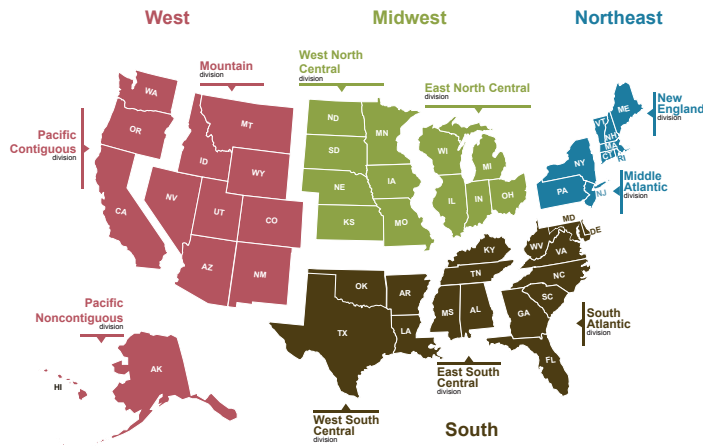


Note: EIA calculations based on National Oceanic and Atmospheric Administration (NOAA) data. Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, March 2019



U.S. Census regions and divisions



Source: U.S. Energy Information Administration, *Short-Term Energy Outlook*



Table 1. U.S. Energy Markets Summary

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Energy Supply															
Crude Oil Production (a) (million barrels per day)	10.23	10.54	11.24	11.77	<i>11.98</i>	<i>12.30</i>	<i>12.32</i>	<i>12.58</i>	<i>12.79</i>	<i>12.99</i>	<i>13.03</i>	<i>13.29</i>	10.95	<i>12.30</i>	<i>13.03</i>
Dry Natural Gas Production (billion cubic feet per day)	79.13	81.17	84.96	88.03	<i>89.34</i>	<i>90.52</i>	<i>91.29</i>	<i>91.75</i>	<i>91.74</i>	<i>92.00</i>	<i>92.22</i>	<i>92.13</i>	83.35	<i>90.73</i>	<i>92.02</i>
Coal Production (million short tons)	188	181	195	191	<i>176</i>	<i>152</i>	<i>188</i>	<i>178</i>	<i>181</i>	<i>142</i>	<i>171</i>	<i>169</i>	754	<i>695</i>	<i>664</i>
Energy Consumption															
Liquid Fuels (million barrels per day)	20.24	20.33	20.63	20.60	<i>20.60</i>	<i>20.75</i>	<i>21.07</i>	<i>20.81</i>	<i>20.82</i>	<i>20.97</i>	<i>21.36</i>	<i>20.97</i>	20.45	<i>20.81</i>	<i>21.03</i>
Natural Gas (billion cubic feet per day)	97.55	70.64	74.02	86.25	<i>101.20</i>	<i>72.71</i>	<i>74.37</i>	<i>86.24</i>	<i>99.69</i>	<i>73.02</i>	<i>75.95</i>		82.06	<i>83.57</i>	<i>83.68</i>
Coal (b) (million short tons)	168	157	194	170	<i>156</i>	<i>134</i>	<i>175</i>	<i>148</i>	<i>157</i>	<i>126</i>	<i>162</i>	<i>140</i>	688	<i>613</i>	<i>585</i>
Electricity (billion kilowatt hours per day)	10.61	10.32	12.13	10.13	<i>10.49</i>	<i>10.10</i>	<i>11.89</i>	<i>10.04</i>	<i>10.60</i>	<i>10.16</i>	<i>11.94</i>	<i>10.06</i>	10.80	<i>10.63</i>	<i>10.69</i>
Renewables (c) (quadrillion Btu)	2.92	3.10	2.72	2.76	<i>2.83</i>	<i>3.09</i>	<i>2.84</i>	<i>2.93</i>	<i>3.01</i>	<i>3.27</i>	<i>2.99</i>	<i>3.06</i>	11.49	<i>11.70</i>	<i>12.32</i>
Total Energy Consumption (d) (quadrillion Btu)	26.42	24.05	25.16	25.53	<i>26.20</i>	<i>23.59</i>	<i>24.78</i>	<i>25.19</i>	<i>26.52</i>	<i>23.64</i>	<i>24.86</i>	<i>25.13</i>	101.16	<i>99.76</i>	<i>100.15</i>
Energy Prices															
Crude Oil West Texas Intermediate Spot (dollars per barrel)	62.90	68.07	69.69	59.59	<i>53.75</i>	<i>55.31</i>	<i>57.34</i>	<i>58.00</i>	<i>58.00</i>	<i>58.00</i>	<i>58.00</i>	<i>58.00</i>	65.06	<i>56.13</i>	<i>58.00</i>
Natural Gas Henry Hub Spot (dollars per million Btu)	3.02	2.85	2.93	3.80	<i>2.90</i>	<i>2.75</i>	<i>2.75</i>	<i>2.99</i>	<i>3.06</i>	<i>2.61</i>	<i>2.65</i>	<i>2.91</i>	3.15	<i>2.85</i>	<i>2.81</i>
Coal (dollars per million Btu)	2.06	2.05	2.06	2.08	<i>2.11</i>	<i>2.12</i>	<i>2.10</i>	<i>2.10</i>	<i>2.12</i>	<i>2.13</i>	<i>2.11</i>	<i>2.11</i>	2.06	<i>2.11</i>	<i>2.12</i>
Macroeconomic															
Real Gross Domestic Product (billion chained 2012 dollars - SAAR)	18,324	18,512	18,665	18,779	<i>18,861</i>	<i>18,993</i>	<i>19,105</i>	<i>19,210</i>	<i>19,299</i>	<i>19,382</i>	<i>19,456</i>	<i>19,520</i>	18,570	<i>19,042</i>	<i>19,414</i>
Percent change from prior year	2.6	2.9	3.0	3.0	<i>2.9</i>	<i>2.6</i>	<i>2.4</i>	<i>2.3</i>	<i>2.3</i>	<i>2.0</i>	<i>1.8</i>	<i>1.6</i>	2.9	<i>2.5</i>	<i>2.0</i>
GDP Implicit Price Deflator (Index, 2012=100)	109.3	110.2	110.7	111.1	<i>111.7</i>	<i>112.1</i>	<i>112.7</i>	<i>113.3</i>	<i>114.0</i>	<i>114.7</i>	<i>115.3</i>	<i>116.0</i>	110.3	<i>112.5</i>	<i>115.0</i>
Percent change from prior year	2.0	2.4	2.3	2.1	<i>2.1</i>	<i>1.8</i>	<i>1.8</i>	<i>2.0</i>	<i>2.1</i>	<i>2.3</i>	<i>2.3</i>	<i>2.4</i>	2.2	<i>1.9</i>	<i>2.3</i>
Real Disposable Personal Income (billion chained 2012 dollars - SAAR)	14,220	14,282	14,365	14,471	<i>14,600</i>	<i>14,679</i>	<i>14,752</i>	<i>14,821</i>	<i>14,884</i>	<i>14,972</i>	<i>15,050</i>	<i>15,120</i>	14,334	<i>14,713</i>	<i>15,006</i>
Percent change from prior year	2.8	2.7	2.7	2.9	<i>2.7</i>	<i>2.8</i>	<i>2.7</i>	<i>2.4</i>	<i>1.9</i>	<i>2.0</i>	<i>2.0</i>	<i>2.0</i>	2.8	<i>2.6</i>	<i>2.0</i>
Manufacturing Production Index (Index, 2012=100)	104.1	104.8	105.9	106.6	<i>107.1</i>	<i>107.9</i>	<i>108.7</i>	<i>109.4</i>	<i>109.8</i>	<i>109.8</i>	<i>110.1</i>	<i>110.5</i>	105.4	<i>108.3</i>	<i>110.0</i>
Percent change from prior year	2.1	2.0	3.6	2.9	<i>2.9</i>	<i>3.0</i>	<i>2.6</i>	<i>2.6</i>	<i>2.5</i>	<i>1.7</i>	<i>1.3</i>	<i>1.0</i>	2.7	<i>2.8</i>	<i>1.6</i>
Weather															
U.S. Heating Degree-Days	2,130	523	48	1,578	<i>2,127</i>	<i>488</i>	<i>73</i>	<i>1,516</i>	<i>2,105</i>	<i>485</i>	<i>73</i>	<i>1,514</i>	4,279	<i>4,204</i>	<i>4,177</i>
U.S. Cooling Degree-Days	52	476	958	98	<i>47</i>	<i>389</i>	<i>849</i>	<i>91</i>	<i>43</i>	<i>396</i>	<i>850</i>	<i>91</i>	1,584	<i>1,376</i>	<i>1,380</i>

- = no data available

Prices are not adjusted for inflation.

(a) Includes lease condensate.

(b) Total consumption includes Independent Power Producer (IPP) consumption.

(c) Renewable energy includes minor components of non-marketed renewable energy that is neither bought nor sold, either directly or indirectly, as inputs to marketed energy.

EIA does not estimate or project end-use consumption of non-marketed renewable energy.

(d) The conversion from physical units to Btu is calculated using a subset of conversion factors used in the calculations of gross energy consumption in EIA's Monthly Energy Review. Consequently, the historical data may not precisely match those published in the MER or the Annual Energy Review (AER).

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.**Historical data:** Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109;*Petroleum Supply Annual*, DOE/EIA-0340/2; *Weekly Petroleum Status Report*, DOE/EIA-0208; *Petroleum Marketing Monthly*, DOE/EIA-0380; *Natural Gas Monthly*, DOE/EIA-0130;*Electric Power Monthly*, DOE/EIA-0226; *Quarterly Coal Report*, DOE/EIA-0121; and *International Petroleum Monthly*, DOE/EIA-0520.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model. U.S. macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Weather projections from National Oceanic and Atmospheric Administration.

Table 2. Energy Prices

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Crude Oil (dollars per barrel)															
West Texas Intermediate Spot Average	62.90	68.07	69.69	59.59	53.75	55.31	57.34	58.00	58.00	58.00	58.00	58.00	65.06	56.13	58.00
Brent Spot Average	66.84	74.53	75.02	68.29	62.41	64.00	62.69	62.00	62.00	62.00	62.00	62.00	71.19	62.78	62.00
U.S. Imported Average	58.08	64.67	66.20	56.36	52.98	55.35	55.37	53.72	52.56	52.56	52.56	52.56	61.56	54.39	52.56
U.S. Refiner Average Acquisition Cost	61.89	67.29	69.03	59.28	53.02	53.90	55.71	55.83	55.36	55.36	55.36	55.36	64.43	54.64	55.36
U.S. Liquid Fuels (cents per gallon)															
Refiner Prices for Resale															
Gasoline	186	213	213	178	163	181	186	171	177	190	184	169	198	175	180
Diesel Fuel	199	219	222	212	192	196	199	203	209	214	214	214	213	198	213
Heating Oil	193	205	214	201	188	186	190	196	204	203	205	206	200	190	204
Refiner Prices to End Users															
Jet Fuel	197	217	220	212	190	193	196	200	207	211	210	209	212	195	209
No. 6 Residual Fuel Oil (a)	149	162	176	175	136	132	137	125	112	110	111	111	166	133	111
Retail Prices Including Taxes															
Gasoline Regular Grade (b)	258	285	284	262	235	254	261	248	249	266	262	246	273	250	256
Gasoline All Grades (b)	270	294	292	271	244	265	273	260	261	278	275	259	282	261	268
On-highway Diesel Fuel	302	320	324	327	299	297	300	306	310	316	316	318	318	301	315
Heating Oil	287	299	325	316	292	279	279	290	303	295	294	302	301	288	301
Natural Gas															
Henry Hub Spot (dollars per thousand cubic feet)	3.13	2.96	3.04	3.94	3.01	2.85	2.85	3.10	3.17	2.71	2.75	3.02	3.27	2.95	2.91
Henry Hub Spot (dollars per million Btu)	3.02	2.85	2.93	3.80	2.90	2.75	2.75	2.99	3.06	2.61	2.65	2.91	3.15	2.85	2.81
U.S. Retail Prices (dollars per thousand cubic feet)															
Industrial Sector	4.44	3.83	3.73	4.71	4.57	3.84	3.75	4.23	4.56	3.72	3.63	4.13	4.20	4.12	4.04
Commercial Sector	7.64	8.07	8.77	7.60	7.81	8.10	8.46	7.76	7.75	8.14	8.44	7.69	7.81	7.91	7.87
Residential Sector	9.37	11.93	17.93	9.97	9.62	11.86	16.49	10.67	9.87	12.28	16.74	10.72	10.48	10.73	10.94
U.S. Electricity															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	2.06	2.05	2.06	2.08	2.11	2.12	2.10	2.10	2.12	2.13	2.11	2.11	2.06	2.11	2.12
Natural Gas	3.96	3.09	3.23	4.05	3.42	2.89	2.83	3.33	3.57	2.75	2.67	3.22	3.54	3.09	3.00
Residual Fuel Oil (c)	11.47	13.02	13.87	14.57	12.41	13.14	12.24	11.76	12.14	12.89	12.20	11.97	12.93	12.38	12.27
Distillate Fuel Oil	15.77	16.61	16.82	16.22	14.91	15.27	15.42	15.80	16.19	16.62	16.54	16.62	16.16	15.34	16.47
Retail Prices (cents per kilowatthour)															
Industrial Sector	6.81	6.87	7.22	6.82	6.75	6.91	7.27	6.85	6.78	6.99	7.36	6.94	6.93	6.95	7.02
Commercial Sector	10.54	10.60	10.89	10.55	10.53	10.58	10.87	10.54	10.54	10.50	10.82	10.58	10.66	10.64	10.62
Residential Sector	12.59	13.03	13.15	12.75	12.89	13.51	13.49	13.07	13.10	13.77	13.74	13.32	12.89	13.24	13.49

- = no data available

Prices are not adjusted for inflation.

(a) Average for all sulfur contents.

(b) Average self-service cash price.

(c) Includes fuel oils No. 4, No. 5, No. 6, and topped crude.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Prices exclude taxes unless otherwise noted.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Marketing Monthly*, DOE/EIA-0380;

Weekly Petroleum Status Report, DOE/EIA-0208; *Natural Gas Monthly*, DOE/EIA-0130; *Electric Power Monthly*, DOE/EIA-0226; and *Monthly Energy Review*, DOE/EIA-0035.

WTI and Brent crude oils, and Henry Hub natural gas spot prices from Reuter's News Service (<http://www.reuters.com>).

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3a. International Petroleum and Other Liquids Production, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Supply (million barrels per day) (a)															
OECD	29.14	29.27	30.40	31.00	30.99	31.67	31.81	32.48	32.84	33.26	33.37	34.02	29.96	31.74	33.37
U.S. (50 States)	16.77	17.39	18.40	18.91	19.21	19.75	19.90	20.31	20.53	20.94	21.08	21.42	17.87	19.79	20.99
Canada	5.32	5.10	5.32	5.31	4.97	5.13	5.20	5.25	5.33	5.32	5.37	5.42	5.26	5.14	5.36
Mexico	2.18	2.14	2.10	1.99	2.00	2.04	2.02	2.00	1.98	1.96	1.94	1.92	2.10	2.02	1.95
Other OECD	4.88	4.64	4.58	4.79	4.81	4.75	4.69	4.92	5.01	5.04	4.98	5.26	4.72	4.79	5.07
Non-OECD	70.01	70.36	70.84	70.94	69.38	69.81	70.34	69.77	69.26	70.09	70.38	69.88	70.54	69.83	69.90
OPEC	37.43	37.04	37.32	37.31	35.96	35.94	36.11	35.79	35.57	35.61	35.71	35.45	37.27	35.95	35.59
Crude Oil Portion	32.10	31.78	32.02	31.95	30.51	30.55	30.78	30.50	30.36	30.45	30.59	30.32	31.96	30.59	30.43
Other Liquids (b)	5.33	5.26	5.30	5.36	5.45	5.38	5.33	5.29	5.21	5.16	5.11	5.14	5.31	5.36	5.16
Eurasia	14.41	14.43	14.62	14.87	14.82	14.50	14.68	14.74	14.85	14.89	14.91	15.00	14.58	14.68	14.91
China	4.76	4.80	4.74	4.83	4.77	4.80	4.80	4.84	4.78	4.81	4.81	4.85	4.78	4.80	4.81
Other Non-OECD	13.41	14.09	14.16	13.93	13.84	14.58	14.76	14.40	14.06	14.79	14.95	14.58	13.90	14.39	14.60
Total World Supply	99.14	99.63	101.24	101.94	100.38	101.48	102.15	102.25	102.10	103.35	103.74	103.91	100.50	101.57	103.28
Non-OPEC Supply	61.72	62.59	63.92	64.63	64.42	65.54	66.04	66.46	66.53	67.74	68.04	68.45	63.23	65.62	67.69
Consumption (million barrels per day) (c)															
OECD	47.61	46.95	47.89	47.96	47.88	47.29	48.33	48.23	48.09	47.54	48.66	48.44	47.61	47.94	48.19
U.S. (50 States)	20.24	20.33	20.63	20.60	20.60	20.75	21.07	20.81	20.82	20.97	21.36	20.97	20.45	20.81	21.03
U.S. Territories	0.10	0.08	0.09	0.11	0.12	0.11	0.12	0.13	0.12	0.11	0.12	0.13	0.10	0.12	0.12
Canada	2.32	2.34	2.56	2.56	2.41	2.36	2.47	2.44	2.42	2.36	2.46	2.44	2.45	2.42	2.42
Europe	14.08	14.20	14.65	14.24	14.03	14.24	14.75	14.45	14.11	14.33	14.85	14.54	14.29	14.37	14.46
Japan	4.27	3.43	3.53	3.94	4.15	3.40	3.47	3.79	4.05	3.32	3.39	3.73	3.79	3.70	3.62
Other OECD	6.60	6.57	6.42	6.52	6.57	6.43	6.46	6.61	6.58	6.45	6.48	6.63	6.53	6.52	6.54
Non-OECD	51.46	52.53	52.53	52.77	52.79	53.62	53.66	53.72	53.83	54.87	54.92	55.02	52.33	53.45	54.66
Eurasia	4.78	4.83	5.11	4.98	4.80	4.87	5.24	5.09	4.90	4.97	5.36	5.20	4.93	5.00	5.11
Europe	0.75	0.74	0.76	0.76	0.75	0.75	0.77	0.77	0.76	0.76	0.78	0.78	0.75	0.76	0.77
China	13.80	14.00	13.73	13.95	14.28	14.47	14.20	14.41	14.76	14.95	14.67	14.90	13.87	14.34	14.82
Other Asia	13.48	13.72	13.32	13.67	13.99	14.09	13.69	14.01	14.33	14.49	14.07	14.41	13.55	13.94	14.32
Other Non-OECD	18.65	19.24	19.61	19.41	18.96	19.43	19.77	19.44	19.07	19.69	20.05	19.73	19.23	19.40	19.63
Total World Consumption	99.07	99.49	100.42	100.74	100.67	100.91	101.99	101.96	101.92	102.41	103.58	103.47	99.94	101.39	102.85
Total Crude Oil and Other Liquids Inventory Net Withdrawals (million barrels per day)															
U.S. (50 States)	0.36	-0.06	-0.70	0.22	0.02	-0.56	-0.28	0.27	-0.10	-0.39	-0.14	0.31	-0.05	-0.14	-0.08
Other OECD	-0.03	0.11	0.18	0.02	0.10	0.00	0.04	-0.19	-0.02	-0.18	-0.01	-0.25	0.07	-0.01	-0.12
Other Stock Draws and Balance	-0.41	-0.20	-0.30	-1.45	0.18	0.00	0.08	-0.37	-0.05	-0.37	-0.02	-0.50	-0.59	-0.03	-0.24
Total Stock Draw	-0.07	-0.14	-0.82	-1.21	0.29	-0.57	-0.16	-0.29	-0.18	-0.94	-0.17	-0.44	-0.56	-0.18	-0.43
End-of-period Commercial Crude Oil and Other Liquids Inventories (million barrels)															
U.S. Commercial Inventory	1,196	1,207	1,272	1,262	1,261	1,317	1,342	1,321	1,334	1,373	1,387	1,361	1,262	1,321	1,361
OECD Commercial Inventory	2,806	2,806	2,858	2,854	2,844	2,900	2,922	2,918	2,933	2,988	3,003	3,000	2,854	2,918	3,000

- = no data available

OECD = Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia, Finland,

France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal,

Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Congo (Brazzaville), Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Saudi Arabia, the United Arab Emirates, Venezuela.

(a) Supply includes production of crude oil (including lease condensates), natural gas plant liquids, biofuels, other liquids, and refinery processing gains.

(b) Includes lease condensate, natural gas plant liquids, other liquids, and refinery processing gain. Includes other unaccounted-for liquids.

 (c) Consumption of petroleum by the OECD countries is synonymous with "petroleum product supplied," defined in the glossary of the EIA *Petroleum Supply Monthly*.

DOE/EIA-0109. Consumption of petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel and loss, and bunkering.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3b. Non-OPEC Petroleum and Other Liquids Supply (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
North America	24.26	24.63	25.82	26.21	<i>26.18</i>	<i>26.92</i>	<i>27.12</i>	<i>27.56</i>	<i>27.84</i>	<i>28.22</i>	<i>28.38</i>	<i>28.76</i>	25.24	<i>26.95</i>	<i>28.30</i>
Canada	5.32	5.10	5.32	5.31	<i>4.97</i>	<i>5.13</i>	<i>5.20</i>	<i>5.25</i>	<i>5.33</i>	<i>5.32</i>	<i>5.37</i>	<i>5.42</i>	5.26	<i>5.14</i>	<i>5.36</i>
Mexico	2.18	2.14	2.10	1.99	<i>2.00</i>	<i>2.04</i>	<i>2.02</i>	<i>2.00</i>	<i>1.98</i>	<i>1.96</i>	<i>1.94</i>	<i>1.92</i>	2.10	<i>2.02</i>	<i>1.95</i>
United States	16.77	17.39	18.40	18.91	<i>19.21</i>	<i>19.75</i>	<i>19.90</i>	<i>20.31</i>	<i>20.53</i>	<i>20.94</i>	<i>21.08</i>	<i>21.42</i>	17.87	<i>19.79</i>	<i>20.99</i>
Central and South America	4.89	5.64	5.72	5.41	<i>5.18</i>	<i>5.94</i>	<i>6.14</i>	<i>5.80</i>	<i>5.44</i>	<i>6.20</i>	<i>6.40</i>	<i>6.05</i>	5.42	<i>5.77</i>	<i>6.02</i>
Argentina	0.67	0.69	0.68	0.71	<i>0.66</i>	<i>0.68</i>	<i>0.68</i>	<i>0.70</i>	<i>0.67</i>	<i>0.69</i>	<i>0.69</i>	<i>0.71</i>	0.69	<i>0.68</i>	<i>0.69</i>
Brazil	2.95	3.64	3.75	3.39	<i>3.24</i>	<i>3.95</i>	<i>4.19</i>	<i>3.79</i>	<i>3.50</i>	<i>4.22</i>	<i>4.44</i>	<i>4.04</i>	3.43	<i>3.80</i>	<i>4.05</i>
Colombia	0.86	0.89	0.89	0.91	<i>0.89</i>	<i>0.89</i>	<i>0.88</i>	<i>0.90</i>	<i>0.88</i>	<i>0.88</i>	<i>0.88</i>	<i>0.90</i>	0.89	<i>0.89</i>	<i>0.88</i>
Other Central and S. America	0.41	0.42	0.40	0.41	<i>0.40</i>	<i>0.41</i>	<i>0.39</i>	<i>0.41</i>	<i>0.39</i>	<i>0.41</i>	<i>0.39</i>	<i>0.40</i>	0.41	<i>0.40</i>	<i>0.40</i>
Europe	4.36	4.14	4.05	4.26	<i>4.32</i>	<i>4.24</i>	<i>4.15</i>	<i>4.36</i>	<i>4.43</i>	<i>4.44</i>	<i>4.38</i>	<i>4.66</i>	4.20	<i>4.27</i>	<i>4.48</i>
Norway	1.97	1.80	1.81	1.87	<i>1.83</i>	<i>1.75</i>	<i>1.76</i>	<i>1.80</i>	<i>1.86</i>	<i>1.88</i>	<i>1.95</i>	<i>2.13</i>	1.86	<i>1.79</i>	<i>1.96</i>
United Kingdom	1.13	1.10	1.01	1.14	<i>1.25</i>	<i>1.26</i>	<i>1.17</i>	<i>1.30</i>	<i>1.32</i>	<i>1.32</i>	<i>1.19</i>	<i>1.28</i>	1.10	<i>1.25</i>	<i>1.28</i>
Eurasia	14.41	14.43	14.62	14.87	<i>14.82</i>	<i>14.50</i>	<i>14.68</i>	<i>14.74</i>	<i>14.85</i>	<i>14.89</i>	<i>14.91</i>	<i>15.00</i>	14.58	<i>14.68</i>	<i>14.91</i>
Azerbaijan	0.82	0.81	0.79	0.79	<i>0.79</i>	<i>0.79</i>	<i>0.78</i>	<i>0.76</i>	<i>0.77</i>	<i>0.77</i>	<i>0.75</i>	<i>0.73</i>	0.80	<i>0.78</i>	<i>0.76</i>
Kazakhstan	1.98	1.96	1.90	2.00	<i>2.07</i>	<i>1.87</i>	<i>2.07</i>	<i>2.15</i>	<i>2.16</i>	<i>2.05</i>	<i>2.06</i>	<i>2.14</i>	1.96	<i>2.04</i>	<i>2.10</i>
Russia	11.19	11.23	11.49	11.64	<i>11.54</i>	<i>11.42</i>	<i>11.41</i>	<i>11.42</i>	<i>11.53</i>	<i>11.68</i>	<i>11.71</i>	<i>11.74</i>	11.39	<i>11.45</i>	<i>11.67</i>
Turkmenistan	0.27	0.28	0.28	0.28	<i>0.25</i>	<i>0.25</i>	<i>0.25</i>	<i>0.25</i>	<i>0.24</i>	<i>0.24</i>	<i>0.24</i>	<i>0.24</i>	0.28	<i>0.25</i>	<i>0.24</i>
Other Eurasia	0.16	0.15	0.15	0.16	<i>0.16</i>	<i>0.16</i>	<i>0.16</i>	<i>0.16</i>	<i>0.15</i>	<i>0.15</i>	<i>0.15</i>	<i>0.15</i>	0.16	<i>0.16</i>	<i>0.15</i>
Middle East	3.02	3.03	3.04	3.05	<i>3.13</i>	<i>3.13</i>	<i>3.13</i>	<i>3.13</i>	<i>3.18</i>	<i>3.18</i>	<i>3.19</i>	<i>3.19</i>	3.03	<i>3.13</i>	<i>3.19</i>
Oman	0.98	0.98	0.99	1.00	<i>0.99</i>	<i>0.99</i>	<i>1.00</i>	<i>1.00</i>	<i>1.00</i>	<i>1.00</i>	<i>1.01</i>	<i>1.01</i>	0.99	<i>1.00</i>	<i>1.01</i>
Qatar	1.94	1.94	1.95	1.94	<i>2.00</i>	<i>2.00</i>	<i>2.00</i>	<i>2.00</i>	<i>2.06</i>	<i>2.06</i>	<i>2.06</i>	<i>2.06</i>	1.94	<i>2.00</i>	<i>2.06</i>
Asia and Oceania	9.27	9.21	9.15	9.29	<i>9.26</i>	<i>9.29</i>	<i>9.28</i>	<i>9.33</i>	<i>9.29</i>	<i>9.31</i>	<i>9.28</i>	<i>9.29</i>	9.23	<i>9.29</i>	<i>9.29</i>
Australia	0.37	0.35	0.38	0.41	<i>0.43</i>	<i>0.45</i>	<i>0.48</i>	<i>0.50</i>	<i>0.52</i>	<i>0.54</i>	<i>0.54</i>	<i>0.54</i>	0.38	<i>0.47</i>	<i>0.54</i>
China	4.76	4.80	4.74	4.83	<i>4.77</i>	<i>4.80</i>	<i>4.80</i>	<i>4.84</i>	<i>4.78</i>	<i>4.81</i>	<i>4.81</i>	<i>4.85</i>	4.78	<i>4.80</i>	<i>4.81</i>
India	1.01	1.01	0.99	0.98	<i>0.98</i>	<i>0.98</i>	<i>0.96</i>	<i>0.96</i>	<i>0.99</i>	<i>0.98</i>	<i>0.97</i>	<i>0.97</i>	1.00	<i>0.97</i>	<i>0.98</i>
Indonesia	0.89	0.89	0.88	0.88	<i>0.88</i>	<i>0.87</i>	<i>0.85</i>	<i>0.84</i>	<i>0.83</i>	<i>0.82</i>	<i>0.80</i>	<i>0.79</i>	0.89	<i>0.86</i>	<i>0.81</i>
Malaysia	0.78	0.76	0.74	0.75	<i>0.75</i>	<i>0.74</i>	<i>0.73</i>	<i>0.72</i>	<i>0.72</i>	<i>0.71</i>	<i>0.70</i>	<i>0.69</i>	0.76	<i>0.73</i>	<i>0.71</i>
Vietnam	0.27	0.25	0.25	0.25	<i>0.24</i>	<i>0.24</i>	<i>0.24</i>	<i>0.25</i>	<i>0.24</i>	<i>0.24</i>	<i>0.24</i>	<i>0.24</i>	0.25	<i>0.24</i>	<i>0.24</i>
Africa	1.51	1.50	1.53	1.54	<i>1.52</i>	<i>1.54</i>	<i>1.54</i>	<i>1.54</i>	<i>1.50</i>	<i>1.50</i>	<i>1.50</i>	<i>1.50</i>	1.52	<i>1.53</i>	<i>1.50</i>
Egypt	0.66	0.66	0.67	0.66	<i>0.61</i>	<i>0.61</i>	<i>0.61</i>	<i>0.61</i>	<i>0.59</i>	<i>0.59</i>	<i>0.59</i>	<i>0.59</i>	0.66	<i>0.61</i>	<i>0.59</i>
South Sudan	0.12	0.12	0.12	0.14	<i>0.17</i>	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	0.13	<i>0.18</i>	<i>0.18</i>
Total non-OPEC liquids	61.72	62.59	63.92	64.63	<i>64.42</i>	<i>65.54</i>	<i>66.04</i>	<i>66.46</i>	<i>66.53</i>	<i>67.74</i>	<i>68.04</i>	<i>68.45</i>	63.23	<i>65.62</i>	<i>67.69</i>
OPEC non-crude liquids	5.33	5.26	5.30	5.36	<i>5.45</i>	<i>5.38</i>	<i>5.33</i>	<i>5.29</i>	<i>5.21</i>	<i>5.16</i>	<i>5.11</i>	<i>5.14</i>	5.31	<i>5.36</i>	<i>5.16</i>
Non-OPEC + OPEC non-crude	67.05	67.85	69.22	69.99	<i>69.86</i>	<i>70.93</i>	<i>71.37</i>	<i>71.75</i>	<i>71.74</i>	<i>72.90</i>	<i>73.15</i>	<i>73.59</i>	68.54	<i>70.98</i>	<i>72.85</i>
Unplanned non-OPEC Production Outages	0.53	0.40	0.30	0.44	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	0.42	<i>n/a</i>	<i>n/a</i>

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Congo (Brazzaville), Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Saudi Arabia, the United Arab Emirates, Venezuela.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Supply includes production of crude oil (including lease condensates), natural gas plant liquids, biofuels, other liquids, and refinery processing gains.

Not all countries are shown in each region and sum of reported country volumes may not equal regional volumes.

Historical data: Latest data available from Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3c. OPEC Crude Oil (excluding condensates) Supply (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Crude Oil															
Algeria	1.02	1.02	1.03	1.00	-	-	-	-	-	-	-	-	1.02	-	-
Angola	1.59	1.56	1.56	1.57	-	-	-	-	-	-	-	-	1.57	-	-
Congo (Brazzaville)	0.34	0.35	0.33	0.32	-	-	-	-	-	-	-	-	0.34	-	-
Ecuador	0.51	0.52	0.52	0.52	-	-	-	-	-	-	-	-	0.52	-	-
Equatorial Guinea	0.14	0.13	0.14	0.12	-	-	-	-	-	-	-	-	0.13	-	-
Gabon	0.20	0.20	0.19	0.19	-	-	-	-	-	-	-	-	0.20	-	-
Iran	3.83	3.80	3.55	2.90	-	-	-	-	-	-	-	-	3.52	-	-
Iraq	4.46	4.50	4.66	4.77	-	-	-	-	-	-	-	-	4.60	-	-
Kuwait	2.71	2.71	2.80	2.80	-	-	-	-	-	-	-	-	2.76	-	-
Libya	1.00	0.92	0.91	1.04	-	-	-	-	-	-	-	-	0.96	-	-
Nigeria	1.72	1.53	1.55	1.61	-	-	-	-	-	-	-	-	1.60	-	-
Saudi Arabia	10.10	10.20	10.47	10.74	-	-	-	-	-	-	-	-	10.38	-	-
United Arab Emirates	2.88	2.86	2.94	3.11	-	-	-	-	-	-	-	-	2.95	-	-
Venezuela	1.60	1.49	1.36	1.27	-	-	-	-	-	-	-	-	1.43	-	-
OPEC Total	32.10	31.78	32.02	31.95	30.51	30.55	30.78	30.50	30.36	30.45	30.59	30.32	31.96	30.59	30.43
Other Liquids (a)	5.33	5.26	5.30	5.36	5.45	5.38	5.33	5.29	5.21	5.16	5.11	5.14	5.31	5.36	5.16
Total OPEC Supply	37.43	37.04	37.32	37.31	35.96	35.94	36.11	35.79	35.57	35.61	35.71	35.45	37.27	35.95	35.59
Crude Oil Production Capacity															
Africa	6.00	5.70	5.72	5.85	5.61	5.87	5.91	5.95	6.01	6.06	6.11	6.15	5.82	5.84	6.08
Middle East	25.84	25.85	25.76	25.29	25.46	25.43	25.43	25.43	25.87	25.91	25.92	25.93	25.68	25.43	25.91
South America	2.11	2.01	1.89	1.79	1.64	1.48	1.34	1.25	1.16	1.07	0.98	0.89	1.95	1.42	1.02
OPEC Total	33.95	33.56	33.36	32.93	32.71	32.78	32.67	32.62	33.04	33.03	33.00	32.96	33.45	32.70	33.01
Surplus Crude Oil Production Capacity															
Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Middle East	1.86	1.78	1.34	0.97	2.19	2.23	1.89	2.13	2.68	2.58	2.41	2.65	1.48	2.11	2.58
South America	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OPEC Total	1.86	1.78	1.34	0.97	2.19	2.23	1.89	2.13	2.68	2.58	2.41	2.65	1.48	2.11	2.58
Unplanned OPEC Production Outages	1.21	1.43	1.59	1.99	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.56	n/a	n/a

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Congo (Brazzaville), Equatorial Guinea, Gabon, Libya, and Nigeria (Africa); Ecuador and Venezuela (South America); Iran, Iraq, Kuwait, Saudi Arabia, and the United Arab Emirates (Middle East).

(a) Includes lease condensate, natural gas plant liquids, other liquids, and refinery processing gain. Includes other unaccounted-for liquids.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3d. World Petroleum and Other Liquids Consumption (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				2018	2019	2020
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
North America	24.56	24.71	25.17	25.14	<i>24.99</i>	<i>25.11</i>	<i>25.53</i>	<i>25.27</i>	<i>25.21</i>	<i>25.35</i>	<i>25.83</i>	<i>25.44</i>	24.90	<i>25.22</i>	<i>25.46</i>
Canada	2.32	2.34	2.56	2.56	<i>2.41</i>	<i>2.36</i>	<i>2.47</i>	<i>2.44</i>	<i>2.42</i>	<i>2.36</i>	<i>2.46</i>	<i>2.44</i>	2.45	<i>2.42</i>	<i>2.42</i>
Mexico	1.99	2.02	1.97	1.97	<i>1.96</i>	<i>1.98</i>	<i>1.98</i>	<i>2.01</i>	<i>1.97</i>	<i>2.00</i>	<i>2.00</i>	<i>2.01</i>	1.99	<i>1.98</i>	<i>1.99</i>
United States	20.24	20.33	20.63	20.60	<i>20.60</i>	<i>20.75</i>	<i>21.07</i>	<i>20.81</i>	<i>20.82</i>	<i>20.97</i>	<i>21.36</i>	<i>20.97</i>	20.45	<i>20.81</i>	<i>21.03</i>
Central and South America	6.72	6.76	6.94	6.95	<i>6.72</i>	<i>6.83</i>	<i>6.95</i>	<i>6.94</i>	<i>6.73</i>	<i>6.87</i>	<i>7.00</i>	<i>7.02</i>	6.84	<i>6.86</i>	<i>6.91</i>
Brazil	2.98	2.95	3.11	3.11	<i>3.02</i>	<i>3.07</i>	<i>3.15</i>	<i>3.14</i>	<i>3.05</i>	<i>3.12</i>	<i>3.21</i>	<i>3.21</i>	3.04	<i>3.10</i>	<i>3.15</i>
Europe	14.83	14.94	15.41	15.00	<i>14.78</i>	<i>15.00</i>	<i>15.52</i>	<i>15.22</i>	<i>14.88</i>	<i>15.10</i>	<i>15.63</i>	<i>15.33</i>	15.05	<i>15.13</i>	<i>15.23</i>
Eurasia	4.78	4.83	5.11	4.98	<i>4.80</i>	<i>4.87</i>	<i>5.24</i>	<i>5.09</i>	<i>4.90</i>	<i>4.97</i>	<i>5.36</i>	<i>5.20</i>	4.93	<i>5.00</i>	<i>5.11</i>
Russia	3.63	3.70	3.91	3.78	<i>3.64</i>	<i>3.73</i>	<i>4.04</i>	<i>3.88</i>	<i>3.73</i>	<i>3.83</i>	<i>4.14</i>	<i>3.99</i>	3.75	<i>3.82</i>	<i>3.92</i>
Middle East	8.24	8.79	9.07	8.68	<i>8.50</i>	<i>8.83</i>	<i>9.15</i>	<i>8.64</i>	<i>8.52</i>	<i>8.98</i>	<i>9.31</i>	<i>8.80</i>	8.70	<i>8.78</i>	<i>8.90</i>
Asia and Oceania	35.59	35.10	34.46	35.54	<i>36.46</i>	<i>35.84</i>	<i>35.24</i>	<i>36.26</i>	<i>37.18</i>	<i>36.63</i>	<i>36.02</i>	<i>37.08</i>	35.17	<i>35.95</i>	<i>36.73</i>
China	13.80	14.00	13.73	13.95	<i>14.28</i>	<i>14.47</i>	<i>14.20</i>	<i>14.41</i>	<i>14.76</i>	<i>14.95</i>	<i>14.67</i>	<i>14.90</i>	13.87	<i>14.34</i>	<i>14.82</i>
Japan	4.27	3.43	3.53	3.94	<i>4.15</i>	<i>3.40</i>	<i>3.47</i>	<i>3.79</i>	<i>4.05</i>	<i>3.32</i>	<i>3.39</i>	<i>3.73</i>	3.79	<i>3.70</i>	<i>3.62</i>
India	4.73	4.89	4.57	4.89	<i>5.09</i>	<i>5.10</i>	<i>4.76</i>	<i>5.06</i>	<i>5.27</i>	<i>5.34</i>	<i>4.98</i>	<i>5.30</i>	4.77	<i>5.01</i>	<i>5.22</i>
Africa	4.34	4.35	4.26	4.45	<i>4.42</i>	<i>4.43</i>	<i>4.36</i>	<i>4.53</i>	<i>4.50</i>	<i>4.50</i>	<i>4.43</i>	<i>4.61</i>	4.35	<i>4.43</i>	<i>4.51</i>
Total OECD Liquid Fuels Consumption	47.61	46.95	47.89	47.96	<i>47.88</i>	<i>47.29</i>	<i>48.33</i>	<i>48.23</i>	<i>48.09</i>	<i>47.54</i>	<i>48.66</i>	<i>48.44</i>	47.61	<i>47.94</i>	<i>48.19</i>
Total non-OECD Liquid Fuels Consumption	51.46	52.53	52.53	52.77	<i>52.79</i>	<i>53.62</i>	<i>53.66</i>	<i>53.72</i>	<i>53.83</i>	<i>54.87</i>	<i>54.92</i>	<i>55.02</i>	52.33	<i>53.45</i>	<i>54.66</i>
Total World Liquid Fuels Consumption	99.07	99.49	100.42	100.74	<i>100.67</i>	<i>100.91</i>	<i>101.99</i>	<i>101.96</i>	<i>101.92</i>	<i>102.41</i>	<i>103.58</i>	<i>103.47</i>	99.94	<i>101.39</i>	<i>102.85</i>
Oil-weighted Real Gross Domestic Product (a)															
World Index, 2015 Q1 = 100	109.2	109.9	110.5	111.3	<i>112.0</i>	<i>112.6</i>	<i>113.3</i>	<i>113.9</i>	<i>114.4</i>	<i>116.1</i>	<i>116.9</i>	<i>117.9</i>	110.2	<i>113.0</i>	<i>116.3</i>
Percent change from prior year	3.3	3.2	3.0	2.9	<i>2.6</i>	<i>2.4</i>	<i>2.5</i>	<i>2.3</i>	<i>2.1</i>	<i>3.1</i>	<i>3.1</i>	<i>3.5</i>	3.1	<i>2.5</i>	<i>3.0</i>
OECD Index, 2015 Q1 = 100	106.5	107.1	107.5	108.1	<i>108.7</i>	<i>109.1</i>	<i>109.6</i>	<i>110.1</i>	<i>109.8</i>	<i>111.4</i>	<i>111.8</i>	<i>112.3</i>	107.3	<i>109.4</i>	<i>111.3</i>
Percent change from prior year	2.5	2.5	2.3	2.2	<i>2.1</i>	<i>1.9</i>	<i>1.9</i>	<i>1.8</i>	<i>1.0</i>	<i>2.1</i>	<i>2.0</i>	<i>2.0</i>	2.4	<i>1.9</i>	<i>1.8</i>
Non-OECD Index, 2015 Q1 = 100	111.7	112.6	113.4	114.4	<i>115.2</i>	<i>116.0</i>	<i>116.9</i>	<i>117.6</i>	<i>118.8</i>	<i>120.7</i>	<i>121.9</i>	<i>123.3</i>	113.0	<i>116.4</i>	<i>121.2</i>
Percent change from prior year	4.0	3.9	3.6	3.6	<i>3.1</i>	<i>3.0</i>	<i>3.1</i>	<i>2.8</i>	<i>3.2</i>	<i>4.1</i>	<i>4.2</i>	<i>4.8</i>	3.8	<i>3.0</i>	<i>4.1</i>
Real U.S. Dollar Exchange Rate (a)															
Index, 2015 Q1 = 100	100.74	102.76	105.55	106.35	<i>105.13</i>	<i>104.64</i>	<i>103.90</i>	<i>103.25</i>	<i>102.57</i>	<i>102.09</i>	<i>101.44</i>	<i>100.88</i>	103.85	<i>104.23</i>	<i>101.74</i>
Percent change from prior year	-4.0	-0.7	3.5	3.8	<i>4.4</i>	<i>1.8</i>	<i>-1.6</i>	<i>-2.9</i>	<i>-2.4</i>	<i>-2.4</i>	<i>-2.4</i>	<i>-2.3</i>	0.6	<i>0.4</i>	<i>-2.4</i>

- = no data available

OECD = Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

(a) Weighted geometric mean of real indices for various countries with weights equal to each country's share of world oil consumption in the base period. Exchange rate is measured in foreign currency per U.S. dollar. GDP and exchange rate data are from Oxford Economics, and oil consumption data are from EIA.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4a. U.S. Petroleum and Other Liquids Supply, Consumption, and Inventories
U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Supply (million barrels per day)															
Crude Oil Supply															
Domestic Production (a)	10.23	10.54	11.24	11.77	11.98	12.30	12.32	12.58	12.79	12.99	13.03	13.29	10.95	12.30	13.03
Alaska	0.51	0.48	0.43	0.49	0.50	0.49	0.45	0.49	0.52	0.50	0.46	0.49	0.48	0.49	0.49
Federal Gulf of Mexico (b)	1.67	1.58	1.85	1.82	1.85	1.97	1.89	2.03	2.20	2.27	2.21	2.38	1.73	1.94	2.27
Lower 48 States (excl GOM)	8.05	8.47	8.96	9.45	9.62	9.83	9.98	10.05	10.08	10.22	10.36	10.42	8.74	9.87	10.27
Crude Oil Net Imports (c)	6.18	6.19	5.84	4.82	4.60	4.80	4.82	4.41	4.58	4.87	4.71	4.37	5.75	4.66	4.63
SPR Net Withdrawals	-0.03	0.06	0.00	0.12	0.00	0.05	0.00	0.04	0.04	0.04	0.01	0.03	0.04	0.02	0.03
Commercial Inventory Net Withdrawals	-0.02	0.09	-0.01	-0.28	-0.34	-0.01	0.09	-0.10	-0.44	0.08	0.15	-0.07	-0.06	-0.09	-0.07
Crude Oil Adjustment (d)	0.05	0.26	0.25	0.57	0.26	0.19	0.21	0.15	0.19	0.19	0.21	0.15	0.28	0.20	0.19
Total Crude Oil Input to Refineries	16.41	17.14	17.32	16.99	16.50	17.33	17.44	17.08	17.16	18.17	18.11	17.77	16.97	17.09	17.80
Other Supply															
Refinery Processing Gain	1.11	1.12	1.17	1.16	1.11	1.12	1.14	1.18	1.19	1.25	1.26	1.27	1.14	1.14	1.24
Natural Gas Plant Liquids Production	4.01	4.30	4.54	4.54	4.73	4.88	4.98	5.10	5.12	5.22	5.30	5.38	4.35	4.92	5.25
Renewables and Oxygenate Production (e)	1.21	1.22	1.25	1.22	1.17	1.22	1.23	1.23	1.20	1.24	1.25	1.24	1.23	1.21	1.23
Fuel Ethanol Production	1.05	1.04	1.06	1.04	1.03	1.05	1.04	1.04	1.04	1.06	1.05	1.04	1.05	1.04	1.05
Petroleum Products Adjustment (f)	0.21	0.21	0.21	0.22	0.22	0.23	0.22	0.23	0.22	0.24	0.24	0.24	0.21	0.22	0.23
Product Net Imports (c)	-3.13	-3.44	-3.17	-3.91	-3.48	-3.41	-3.57	-4.34	-4.38	-4.63	-4.50	-5.28	-3.41	-3.70	-4.70
Hydrocarbon Gas Liquids	-1.22	-1.53	-1.49	-1.38	-1.53	-1.70	-1.71	-1.93	-1.89	-1.92	-1.92	-2.09	-1.41	-1.72	-1.96
Unfinished Oils	0.39	0.32	0.35	0.28	0.32	0.42	0.44	0.36	0.50	0.61	0.61	0.53	0.33	0.39	0.56
Other HC/Oxygenates	-0.18	-0.15	-0.13	-0.15	-0.14	-0.12	-0.12	-0.10	-0.13	-0.12	-0.12	-0.12	-0.15	-0.12	-0.12
Motor Gasoline Blend Comp.	0.50	0.78	0.66	0.37	0.32	0.67	0.49	0.45	0.43	0.67	0.50	0.45	0.58	0.48	0.51
Finished Motor Gasoline	-0.94	-0.71	-0.72	-1.00	-0.74	-0.61	-0.61	-1.01	-1.03	-0.91	-0.76	-1.25	-0.84	-0.74	-0.99
Jet Fuel	-0.10	-0.10	-0.06	-0.13	-0.05	-0.01	-0.03	-0.02	-0.03	-0.08	-0.09	-0.07	-0.10	-0.03	-0.07
Distillate Fuel Oil	-0.87	-1.30	-1.14	-1.19	-1.02	-1.33	-1.36	-1.28	-1.43	-1.94	-1.88	-1.78	-1.13	-1.25	-1.76
Residual Fuel Oil	-0.10	-0.14	-0.10	-0.09	-0.04	-0.07	-0.06	-0.08	-0.07	-0.12	-0.08	-0.10	-0.11	-0.06	-0.09
Other Oils (g)	-0.62	-0.61	-0.53	-0.61	-0.61	-0.65	-0.62	-0.72	-0.74	-0.82	-0.77	-0.83	-0.59	-0.65	-0.79
Product Inventory Net Withdrawals	0.41	-0.21	-0.69	0.38	0.36	-0.60	-0.37	0.33	0.30	-0.51	-0.31	0.35	-0.03	-0.07	-0.04
Total Supply	20.23	20.33	20.63	20.60	20.60	20.75	21.07	20.81	20.82	20.97	21.36	20.97	20.45	20.81	21.03
Consumption (million barrels per day)															
Hydrocarbon Gas Liquids	3.22	2.67	2.85	3.22	3.46	2.93	3.06	3.31	3.52	3.11	3.21	3.45	2.99	3.19	3.32
Unfinished Oils	0.13	-0.04	-0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Motor Gasoline	9.01	9.51	9.51	9.25	9.06	9.58	9.55	9.21	9.05	9.60	9.64	9.19	9.32	9.35	9.37
Fuel Ethanol blended into Motor Gasoline	0.91	0.94	0.96	0.94	0.92	0.97	0.97	0.94	0.92	0.98	0.98	0.94	0.94	0.95	0.95
Jet Fuel	1.64	1.73	1.78	1.70	1.70	1.79	1.83	1.80	1.74	1.81	1.85	1.83	1.71	1.78	1.81
Distillate Fuel Oil	4.18	4.13	4.05	4.18	4.15	4.10	4.09	4.21	4.29	4.12	4.15	4.23	4.13	4.14	4.20
Residual Fuel Oil	0.28	0.32	0.34	0.34	0.31	0.33	0.35	0.31	0.32	0.30	0.32	0.29	0.32	0.33	0.31
Other Oils (g)	1.78	2.01	2.22	1.91	1.92	2.03	2.20	1.97	1.89	2.04	2.18	1.99	1.98	2.03	2.03
Total Consumption	20.24	20.33	20.63	20.60	20.60	20.75	21.07	20.81	20.82	20.97	21.36	20.97	20.45	20.81	21.03
Total Petroleum and Other Liquids Net Imports	3.05	2.75	2.67	0.91	1.12	1.39	1.24	0.08	0.20	0.24	0.21	-0.91	2.34	0.95	-0.07
End-of-period Inventories (million barrels)															
Commercial Inventory															
Crude Oil (excluding SPR)	423.4	414.8	416.1	441.8	472.3	473.2	465.0	473.8	514.3	506.6	492.5	499.4	441.8	473.8	499.4
Hydrocarbon Gas Liquids	139.3	180.8	224.8	188.5	154.6	209.0	249.9	206.7	170.3	220.0	258.0	213.9	188.5	206.7	213.9
Unfinished Oils	98.3	92.6	92.0	85.9	91.4	89.9	88.1	81.6	92.1	91.3	88.3	82.0	85.9	81.6	82.0
Other HC/Oxygenates	30.5	28.8	30.5	31.4	32.2	31.2	30.5	31.1	32.9	31.8	31.1	31.7	31.4	31.1	31.7
Total Motor Gasoline	239.6	240.3	239.7	246.3	243.4	239.5	234.1	247.5	246.3	242.6	238.2	250.8	246.3	247.5	250.8
Finished Motor Gasoline	23.1	24.7	24.8	25.7	25.2	24.1	24.9	25.5	25.1	24.0	25.1	25.3	25.7	25.5	25.3
Motor Gasoline Blend Comp.	216.5	215.6	214.9	220.5	218.2	215.4	209.3	221.9	221.1	218.6	213.1	225.5	220.5	221.9	225.5
Jet Fuel	40.4	40.8	46.9	41.6	41.4	42.8	44.4	42.3	42.2	43.6	44.9	42.9	41.6	42.3	42.9
Distillate Fuel Oil	130.4	120.4	137.1	140.0	132.5	135.8	141.1	146.0	136.2	138.4	143.3	148.3	140.0	146.0	148.3
Residual Fuel Oil	35.0	30.0	28.6	28.3	30.2	34.2	34.6	35.6	37.7	37.8	36.0	35.7	28.3	35.6	35.7
Other Oils (g)	59.3	58.8	56.1	58.7	62.7	60.9	54.8	56.7	61.9	60.4	54.4	56.4	58.7	56.7	56.4
Total Commercial Inventory	1,196	1,207	1,272	1,262	1,261	1,317	1,342	1,321	1,334	1,373	1,387	1,361	1,262	1,321	1,361
Crude Oil in SPR	665	660	660	649	649	645	645	641	638	634	633	630	649	641	630

- = no data available

(a) Includes lease condensate.

(b) Crude oil production from U.S. Federal leases in the Gulf of Mexico (GOM).

(c) Net imports equals gross imports minus gross exports.

(d) Crude oil adjustment balances supply and consumption and was previously referred to as "Unaccounted for Crude Oil."

(e) Renewables and oxygenate production includes pentanes plus, oxygenates (excluding fuel ethanol), and renewable fuels.

(f) Petroleum products adjustment includes hydrogen/oxygenates/renewables/other hydrocarbons, motor gasoline blend components, and finished motor gasoline.

(g) "Other Oils" includes aviation gasoline blend components, finished aviation gasoline, kerosene, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt and road oil, still gas, and miscellaneous products.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

SPR: Strategic Petroleum Reserve

HC: Hydrocarbons

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340/2; and *Weekly Petroleum Status Report*, DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4b. U.S. Hydrocarbon Gas Liquids (HGL) and Petroleum Refinery Balances (million barrels per day, except inventories and utilization factor)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
HGL Production															
Natural Gas Processing Plants															
Ethane	1.59	1.70	1.76	1.77	1.93	1.95	1.98	2.06	2.14	2.16	2.18	2.26	1.71	1.98	2.19
Propane	1.29	1.37	1.44	1.47	1.49	1.55	1.58	1.61	1.59	1.62	1.64	1.65	1.39	1.55	1.63
Butanes	0.69	0.74	0.78	0.79	0.80	0.83	0.85	0.86	0.85	0.86	0.88	0.88	0.75	0.83	0.87
Natural Gasoline (Pentanes Plus)	0.44	0.50	0.55	0.51	0.52	0.55	0.58	0.57	0.54	0.57	0.60	0.58	0.50	0.55	0.57
Refinery and Blender Net Production															
Ethane/Ethylene	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Propane	0.30	0.31	0.31	0.29	0.28	0.30	0.29	0.30	0.29	0.31	0.30	0.30	0.30	0.29	0.30
Propylene (refinery-grade)	0.28	0.29	0.29	0.31	0.28	0.28	0.28	0.29	0.28	0.29	0.29	0.29	0.29	0.28	0.29
Butanes/Butylenes	-0.11	0.24	0.19	-0.20	-0.08	0.26	0.19	-0.20	-0.08	0.26	0.19	-0.20	0.03	0.04	0.04
Renewable Fuels and Oxygenate Plant Net Production															
Natural Gasoline (Pentanes Plus)	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
HGL Net Imports															
Ethane	-0.22	-0.29	-0.26	-0.25	-0.32	-0.32	-0.32	-0.34	-0.37	-0.37	-0.37	-0.40	-0.26	-0.32	-0.38
Propane/Propylene	-0.72	-0.81	-0.87	-0.86	-0.70	-0.86	-0.85	-1.05	-0.94	-0.96	-0.95	-1.11	-0.82	-0.87	-0.99
Butanes/Butylenes	-0.10	-0.20	-0.19	-0.13	-0.26	-0.27	-0.25	-0.25	-0.29	-0.29	-0.28	-0.27	-0.15	-0.26	-0.28
Natural Gasoline (Pentanes Plus)	-0.18	-0.23	-0.17	-0.14	-0.25	-0.26	-0.29	-0.28	-0.29	-0.30	-0.32	-0.31	-0.18	-0.27	-0.30
HGL Refinery and Blender Net Inputs															
Butanes/Butylenes	0.45	0.30	0.32	0.55	0.41	0.30	0.33	0.51	0.42	0.31	0.34	0.52	0.41	0.39	0.40
Natural Gasoline (Pentanes Plus)	0.15	0.16	0.18	0.17	0.17	0.18	0.18	0.18	0.16	0.17	0.18	0.17	0.17	0.18	0.17
HGL Consumption															
Ethane/Ethylene	1.44	1.45	1.51	1.50	1.61	1.61	1.69	1.75	1.76	1.78	1.84	1.89	1.47	1.67	1.82
Propane	1.16	0.60	0.65	1.01	1.27	0.67	0.75	0.96	1.18	0.69	0.75	0.96	0.86	0.91	0.89
Propylene (refinery-grade)	0.32	0.31	0.31	0.29	0.29	0.31	0.30	0.29	0.30	0.32	0.31	0.30	0.30	0.30	0.31
Butanes/Butylenes	0.20	0.21	0.21	0.25	0.21	0.27	0.25	0.22	0.19	0.26	0.25	0.22	0.22	0.24	0.23
Natural Gasoline (Pentanes Plus)	0.10	0.09	0.16	0.18	0.09	0.07	0.07	0.08	0.08	0.06	0.07	0.08	0.13	0.08	0.07
HGL Inventories (million barrels)															
Ethane	51.41	47.90	46.07	50.15	49.31	52.28	50.39	49.95	48.27	51.35	49.47	49.02	48.87	50.48	49.53
Propane	33.83	56.51	75.16	63.67	42.42	68.55	91.26	79.70	55.47	77.66	97.65	85.65	63.67	79.70	85.65
Propylene (refinery-grade)	3.82	3.64	3.86	6.93	8.53	8.65	8.65	9.77	9.97	9.67	9.79	10.59	6.93	9.77	10.59
Butanes/Butylenes	32.02	55.37	78.52	47.44	33.63	57.30	75.74	45.11	33.32	56.99	75.43	44.81	47.44	45.11	44.81
Natural Gasoline (Pentanes Plus)	19.36	18.59	20.34	20.84	19.78	22.23	23.81	23.67	22.24	24.34	25.67	25.40	20.84	23.67	25.40
Refinery and Blender Net Inputs															
Crude Oil	16.41	17.14	17.32	16.99	16.50	17.33	17.44	17.08	17.16	18.17	18.11	17.77	16.97	17.09	17.80
Hydrocarbon Gas Liquids	0.61	0.47	0.50	0.72	0.58	0.48	0.52	0.69	0.58	0.48	0.52	0.70	0.57	0.57	0.57
Other Hydrocarbons/Oxygenates	1.16	1.23	1.22	1.20	1.20	1.27	1.26	1.27	1.22	1.30	1.30	1.27	1.20	1.25	1.27
Unfinished Oils	0.12	0.42	0.45	0.34	0.26	0.44	0.46	0.43	0.39	0.62	0.65	0.59	0.33	0.40	0.56
Motor Gasoline Blend Components	0.34	0.70	0.58	0.26	0.47	0.84	0.66	0.49	0.57	0.84	0.66	0.49	0.47	0.61	0.64
Aviation Gasoline Blend Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Refinery and Blender Net Inputs	18.63	19.96	20.08	19.51	19.00	20.35	20.34	19.97	19.92	21.41	21.24	20.82	19.55	19.92	20.85
Refinery Processing Gain															
.....	1.11	1.12	1.17	1.16	1.11	1.12	1.14	1.18	1.19	1.25	1.26	1.27	1.14	1.14	1.24
Refinery and Blender Net Production															
Hydrocarbon Gas Liquids	0.48	0.84	0.80	0.41	0.48	0.85	0.76	0.39	0.50	0.87	0.78	0.40	0.63	0.62	0.63
Finished Motor Gasoline	9.79	10.14	10.11	10.19	9.89	10.29	10.25	10.38	10.18	10.61	10.49	10.58	10.06	10.20	10.46
Jet Fuel	1.72	1.83	1.90	1.77	1.75	1.82	1.88	1.80	1.76	1.90	1.96	1.87	1.81	1.81	1.87
Distillate Fuel	4.81	5.25	5.29	5.32	5.04	5.40	5.43	5.46	5.58	6.02	6.01	6.00	5.17	5.33	5.90
Residual Fuel	0.44	0.40	0.42	0.43	0.37	0.45	0.41	0.40	0.41	0.42	0.38	0.38	0.42	0.41	0.40
Other Oils (a)	2.49	2.61	2.72	2.55	2.58	2.67	2.75	2.72	2.69	2.84	2.89	2.84	2.59	2.68	2.82
Total Refinery and Blender Net Production	19.74	21.08	21.25	20.67	20.11	21.47	21.48	21.15	21.11	22.66	22.50	22.09	20.69	21.05	22.09
Refinery Distillation Inputs															
.....	16.76	17.50	17.69	17.33	16.72	17.44	17.62	17.26	17.16	18.06	18.09	17.76	17.32	17.26	17.77
Refinery Operable Distillation Capacity															
.....	18.57	18.60	18.60	18.60	18.60	18.60	18.61	18.62	18.62	18.62	18.62	18.65	18.59	18.61	18.63
Refinery Distillation Utilization Factor															
.....	0.90	0.94	0.95	0.93	0.90	0.94	0.95	0.93	0.92	0.97	0.97	0.95	0.93	0.93	0.95

- = no data available

(a) "Other Oils" includes aviation gasoline blend components, finished aviation gasoline, kerosene, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt and road oil, still gas, and miscellaneous products.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109;

Petroleum Supply Annual, DOE/EIA-0340/2; *Weekly Petroleum Status Report*, DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4c. U.S. Regional Motor Gasoline Prices and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Prices (cents per gallon)															
Refiner Wholesale Price	186	213	213	178	<i>163</i>	<i>181</i>	<i>186</i>	<i>171</i>	<i>177</i>	<i>190</i>	<i>184</i>	<i>169</i>	198	<i>175</i>	<i>180</i>
Gasoline Regular Grade Retail Prices Including Taxes															
PADD 1	255	279	278	257	<i>232</i>	<i>248</i>	<i>256</i>	<i>247</i>	<i>246</i>	<i>258</i>	<i>257</i>	<i>246</i>	268	<i>246</i>	<i>252</i>
PADD 2	246	274	276	245	<i>221</i>	<i>246</i>	<i>253</i>	<i>239</i>	<i>242</i>	<i>257</i>	<i>254</i>	<i>238</i>	261	<i>240</i>	<i>248</i>
PADD 3	230	261	258	231	<i>206</i>	<i>230</i>	<i>235</i>	<i>221</i>	<i>226</i>	<i>240</i>	<i>234</i>	<i>219</i>	245	<i>223</i>	<i>230</i>
PADD 4	247	288	297	281	<i>228</i>	<i>247</i>	<i>262</i>	<i>246</i>	<i>234</i>	<i>258</i>	<i>264</i>	<i>244</i>	279	<i>246</i>	<i>250</i>
PADD 5	312	342	335	333	<i>295</i>	<i>306</i>	<i>310</i>	<i>288</i>	<i>290</i>	<i>319</i>	<i>314</i>	<i>287</i>	330	<i>300</i>	<i>303</i>
U.S. Average	258	285	284	262	<i>235</i>	<i>254</i>	<i>261</i>	<i>248</i>	<i>249</i>	<i>266</i>	<i>262</i>	<i>246</i>	273	<i>250</i>	<i>256</i>
Gasoline All Grades Including Taxes	270	294	292	271	<i>244</i>	<i>265</i>	<i>273</i>	<i>260</i>	<i>261</i>	<i>278</i>	<i>275</i>	<i>259</i>	282	<i>261</i>	<i>268</i>
End-of-period Inventories (million barrels)															
Total Gasoline Inventories															
PADD 1	58.4	66.5	70.2	62.9	<i>63.7</i>	<i>66.9</i>	<i>64.1</i>	<i>68.0</i>	<i>67.2</i>	<i>68.1</i>	<i>65.4</i>	<i>69.0</i>	62.9	<i>68.0</i>	<i>69.0</i>
PADD 2	57.3	53.5	53.1	56.1	<i>55.7</i>	<i>53.3</i>	<i>51.7</i>	<i>53.7</i>	<i>56.5</i>	<i>53.9</i>	<i>52.4</i>	<i>54.3</i>	56.1	<i>53.7</i>	<i>54.3</i>
PADD 3	84.2	82.3	80.5	90.6	<i>85.5</i>	<i>82.8</i>	<i>82.3</i>	<i>86.1</i>	<i>84.6</i>	<i>84.0</i>	<i>83.9</i>	<i>87.7</i>	90.6	<i>86.1</i>	<i>87.7</i>
PADD 4	7.7	7.3	7.0	7.3	<i>7.5</i>	<i>7.6</i>	<i>7.4</i>	<i>7.8</i>	<i>7.6</i>	<i>7.7</i>	<i>7.6</i>	<i>8.0</i>	7.3	<i>7.8</i>	<i>8.0</i>
PADD 5	32.0	30.7	28.8	29.4	<i>31.0</i>	<i>28.9</i>	<i>28.7</i>	<i>31.8</i>	<i>30.4</i>	<i>28.8</i>	<i>28.9</i>	<i>31.8</i>	29.4	<i>31.8</i>	<i>31.8</i>
U.S. Total	239.6	240.3	239.7	246.3	<i>243.4</i>	<i>239.5</i>	<i>234.1</i>	<i>247.5</i>	<i>246.3</i>	<i>242.6</i>	<i>238.2</i>	<i>250.8</i>	246.3	<i>247.5</i>	<i>250.8</i>
Finished Gasoline Inventories															
U.S. Total	23.1	24.7	24.8	25.7	<i>25.2</i>	<i>24.1</i>	<i>24.9</i>	<i>25.5</i>	<i>25.1</i>	<i>24.0</i>	<i>25.1</i>	<i>25.3</i>	25.7	<i>25.5</i>	<i>25.3</i>
Gasoline Blending Components Inventories															
U.S. Total	216.5	215.6	214.9	220.5	<i>218.2</i>	<i>215.4</i>	<i>209.3</i>	<i>221.9</i>	<i>221.1</i>	<i>218.6</i>	<i>213.1</i>	<i>225.5</i>	220.5	<i>221.9</i>	<i>225.5</i>

- = no data available

Prices are not adjusted for inflation.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Regions refer to Petroleum Administration for Defense Districts (PADD).

 See "Petroleum for Administration Defense District" in EIA's Energy Glossary (<http://www.eia.doe.gov/glossary/index.html>) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports *Petroleum Marketing Monthly*, DOE/EIA-0380;

Petroleum Supply Monthly, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340/2; and *Weekly Petroleum Status Report*, DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 5a. U.S. Natural Gas Supply, Consumption, and Inventories
U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Supply (billion cubic feet per day)															
Total Marketed Production	84.93	87.39	91.50	94.61	<i>96.03</i>	<i>97.34</i>	<i>98.21</i>	<i>98.76</i>	<i>98.80</i>	<i>99.13</i>	<i>99.43</i>	<i>99.38</i>	89.64	<i>97.59</i>	<i>99.19</i>
Alaska	1.00	0.92	0.86	0.96	<i>1.00</i>	<i>0.86</i>	<i>0.78</i>	<i>0.95</i>	<i>1.01</i>	<i>0.87</i>	<i>0.79</i>	<i>0.95</i>	0.94	<i>0.90</i>	<i>0.91</i>
Federal GOM (a)	2.57	2.48	2.86	2.76	<i>2.91</i>	<i>2.94</i>	<i>2.90</i>	<i>2.97</i>	<i>3.05</i>	<i>3.10</i>	<i>3.09</i>	<i>3.18</i>	2.67	<i>2.93</i>	<i>3.11</i>
Lower 48 States (excl GOM)	81.37	83.98	87.79	90.89	<i>92.12</i>	<i>93.53</i>	<i>94.52</i>	<i>94.85</i>	<i>94.74</i>	<i>95.16</i>	<i>95.55</i>	<i>95.25</i>	86.04	<i>93.76</i>	<i>95.17</i>
Total Dry Gas Production	79.13	81.17	84.96	88.03	<i>89.34</i>	<i>90.52</i>	<i>91.29</i>	<i>91.75</i>	<i>91.74</i>	<i>92.00</i>	<i>92.22</i>	<i>92.13</i>	83.35	<i>90.73</i>	<i>92.02</i>
LNG Gross Imports	0.33	0.10	0.15	0.23	<i>0.34</i>	<i>0.17</i>	<i>0.17</i>	<i>0.21</i>	<i>0.32</i>	<i>0.18</i>	<i>0.18</i>	<i>0.20</i>	0.20	<i>0.22</i>	<i>0.22</i>
LNG Gross Exports	2.64	2.79	2.95	3.49	<i>3.85</i>	<i>4.27</i>	<i>5.55</i>	<i>6.52</i>	<i>7.01</i>	<i>6.16</i>	<i>6.47</i>	<i>7.38</i>	2.97	<i>5.05</i>	<i>6.76</i>
Pipeline Gross Imports	8.76	7.63	7.50	7.22	<i>8.43</i>	<i>6.40</i>	<i>6.10</i>	<i>7.10</i>	<i>8.24</i>	<i>6.13</i>	<i>6.13</i>	<i>6.62</i>	7.77	<i>7.00</i>	<i>6.78</i>
Pipeline Gross Exports	7.02	6.15	7.04	7.43	<i>8.18</i>	<i>7.47</i>	<i>7.26</i>	<i>7.96</i>	<i>9.46</i>	<i>8.14</i>	<i>7.74</i>	<i>8.26</i>	6.91	<i>7.72</i>	<i>8.40</i>
Supplemental Gaseous Fuels	0.21	0.17	0.19	0.18	<i>0.20</i>	<i>0.20</i>	<i>0.20</i>	<i>0.20</i>	<i>0.20</i>	<i>0.21</i>	<i>0.21</i>	<i>0.21</i>	0.19	<i>0.20</i>	<i>0.21</i>
Net Inventory Withdrawals	18.31	-8.86	-8.22	2.55	<i>16.90</i>	<i>-12.54</i>	<i>-10.29</i>	<i>2.46</i>	<i>15.76</i>	<i>-11.14</i>	<i>-8.19</i>	<i>3.06</i>	0.88	<i>-0.93</i>	<i>-0.14</i>
Total Supply	97.09	71.27	74.59	87.29	<i>103.19</i>	<i>73.02</i>	<i>74.65</i>	<i>87.25</i>	<i>99.79</i>	<i>73.07</i>	<i>76.34</i>	<i>86.57</i>	82.51	<i>84.45</i>	<i>83.93</i>
Balancing Item (b)	0.46	-0.62	-0.57	-1.04	<i>-1.99</i>	<i>-0.30</i>	<i>-0.28</i>	<i>-1.00</i>	<i>-0.11</i>	<i>-0.05</i>	<i>-0.39</i>	<i>-0.45</i>	-0.45	<i>-0.89</i>	<i>-0.25</i>
Total Primary Supply	97.55	70.64	74.02	86.25	<i>101.20</i>	<i>72.71</i>	<i>74.37</i>	<i>86.24</i>	<i>99.69</i>	<i>73.02</i>	<i>75.95</i>	<i>86.11</i>	82.06	<i>83.57</i>	<i>83.68</i>
Consumption (billion cubic feet per day)															
Residential	25.75	7.97	3.44	17.62	<i>26.59</i>	<i>7.97</i>	<i>3.60</i>	<i>16.32</i>	<i>25.66</i>	<i>7.78</i>	<i>3.49</i>	<i>15.88</i>	13.64	<i>13.57</i>	<i>13.18</i>
Commercial	15.34	6.60	4.58	11.76	<i>15.36</i>	<i>6.75</i>	<i>4.64</i>	<i>11.01</i>	<i>14.88</i>	<i>6.33</i>	<i>4.59</i>	<i>10.46</i>	9.55	<i>9.42</i>	<i>9.06</i>
Industrial	24.27	21.78	21.23	23.35	<i>24.66</i>	<i>22.07</i>	<i>21.45</i>	<i>24.54</i>	<i>24.98</i>	<i>22.31</i>	<i>21.56</i>	<i>24.60</i>	22.65	<i>23.17</i>	<i>23.36</i>
Electric Power (c)	24.91	27.62	37.78	26.04	<i>26.66</i>	<i>28.56</i>	<i>37.11</i>	<i>26.39</i>	<i>25.81</i>	<i>28.94</i>	<i>38.54</i>	<i>27.08</i>	29.11	<i>29.70</i>	<i>30.11</i>
Lease and Plant Fuel	4.55	4.68	4.90	5.07	<i>5.15</i>	<i>5.22</i>	<i>5.26</i>	<i>5.29</i>	<i>5.29</i>	<i>5.31</i>	<i>5.33</i>	<i>5.33</i>	4.80	<i>5.23</i>	<i>5.31</i>
Pipeline and Distribution Use	2.60	1.88	1.97	2.30	<i>2.66</i>	<i>2.02</i>	<i>2.19</i>	<i>2.56</i>	<i>2.93</i>	<i>2.21</i>	<i>2.31</i>	<i>2.64</i>	2.18	<i>2.36</i>	<i>2.53</i>
Vehicle Use	0.12	0.12	0.12	0.12	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	<i>0.12</i>	0.12	<i>0.12</i>	<i>0.12</i>
Total Consumption	97.55	70.64	74.02	86.25	<i>101.20</i>	<i>72.71</i>	<i>74.37</i>	<i>86.24</i>	<i>99.69</i>	<i>73.02</i>	<i>75.95</i>	<i>86.11</i>	82.06	<i>83.57</i>	<i>83.68</i>
End-of-period Inventories (billion cubic feet)															
Working Gas Inventory	1,391	2,196	2,951	2,713	<i>1,192</i>	<i>2,333</i>	<i>3,280</i>	<i>3,053</i>	<i>1,619</i>	<i>2,633</i>	<i>3,386</i>	<i>3,105</i>	2,713	<i>3,053</i>	<i>3,105</i>
East Region (d)	229	465	778	659	<i>207</i>	<i>568</i>	<i>897</i>	<i>800</i>	<i>309</i>	<i>612</i>	<i>871</i>	<i>788</i>	659	<i>800</i>	<i>788</i>
Midwest Region (d)	261	459	846	777	<i>244</i>	<i>542</i>	<i>939</i>	<i>806</i>	<i>281</i>	<i>549</i>	<i>882</i>	<i>762</i>	777	<i>806</i>	<i>762</i>
South Central Region (d)	614	846	846	880	<i>532</i>	<i>888</i>	<i>1,008</i>	<i>1,048</i>	<i>736</i>	<i>1,022</i>	<i>1,110</i>	<i>1,103</i>	880	<i>1,048</i>	<i>1,103</i>
Mountain Region (d)	87	140	179	145	<i>65</i>	<i>112</i>	<i>164</i>	<i>141</i>	<i>101</i>	<i>148</i>	<i>190</i>	<i>155</i>	145	<i>141</i>	<i>155</i>
Pacific Region (d)	169	253	263	214	<i>111</i>	<i>190</i>	<i>240</i>	<i>227</i>	<i>159</i>	<i>270</i>	<i>301</i>	<i>264</i>	214	<i>227</i>	<i>264</i>
Alaska	31	33	38	37	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	37	<i>33</i>	<i>33</i>

- = no data available

(a) Marketed production from U.S. Federal leases in the Gulf of Mexico.

(b) The balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

(c) Natural gas used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

(d) For a list of States in each inventory region refer to *Weekly Natural Gas Storage Report, Notes and Definitions* (<http://ir.eia.gov/ngs/notes.html>).

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

LNG: liquefied natural gas.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Natural Gas Monthly*, DOE/EIA-0130; and *Electric Power Monthly*, DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 5b. U.S. Regional Natural Gas Prices (dollars per thousand cubic feet)
 U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Wholesale/Spot															
Henry Hub Spot Price	3.13	2.96	3.04	3.94	<i>3.01</i>	<i>2.85</i>	<i>2.85</i>	<i>3.10</i>	<i>3.17</i>	<i>2.71</i>	<i>2.75</i>	<i>3.02</i>	3.27	<i>2.95</i>	<i>2.91</i>
Residential Retail															
New England	14.38	16.60	19.08	14.42	<i>13.69</i>	<i>13.88</i>	<i>17.02</i>	<i>13.56</i>	<i>13.12</i>	<i>13.91</i>	<i>16.97</i>	<i>13.43</i>	15.00	<i>13.89</i>	<i>13.58</i>
Middle Atlantic	10.17	11.92	18.30	11.39	<i>10.20</i>	<i>11.74</i>	<i>16.52</i>	<i>11.42</i>	<i>10.54</i>	<i>12.32</i>	<i>16.65</i>	<i>11.22</i>	11.30	<i>11.21</i>	<i>11.43</i>
E. N. Central	7.20	9.77	18.40	8.02	<i>7.79</i>	<i>10.56</i>	<i>16.38</i>	<i>8.78</i>	<i>7.96</i>	<i>10.74</i>	<i>16.38</i>	<i>8.69</i>	8.42	<i>8.99</i>	<i>9.11</i>
W. N. Central	8.15	10.48	18.55	9.06	<i>8.75</i>	<i>11.61</i>	<i>17.50</i>	<i>9.50</i>	<i>8.63</i>	<i>11.39</i>	<i>17.07</i>	<i>9.29</i>	9.29	<i>9.85</i>	<i>9.73</i>
S. Atlantic	11.07	15.63	24.90	12.47	<i>11.78</i>	<i>16.14</i>	<i>22.41</i>	<i>13.21</i>	<i>11.76</i>	<i>16.55</i>	<i>22.51</i>	<i>13.03</i>	12.98	<i>13.69</i>	<i>13.57</i>
E. S. Central	9.61	12.70	21.52	10.55	<i>9.92</i>	<i>14.04</i>	<i>20.29</i>	<i>12.98</i>	<i>10.74</i>	<i>15.31</i>	<i>21.41</i>	<i>13.72</i>	10.89	<i>11.96</i>	<i>12.82</i>
W. S. Central	9.27	14.25	22.03	10.19	<i>8.40</i>	<i>13.27</i>	<i>19.92</i>	<i>12.06</i>	<i>9.03</i>	<i>14.55</i>	<i>20.62</i>	<i>12.42</i>	10.98	<i>11.08</i>	<i>11.72</i>
Mountain	8.22	10.38	14.03	7.69	<i>7.92</i>	<i>9.33</i>	<i>13.26</i>	<i>8.78</i>	<i>8.66</i>	<i>10.01</i>	<i>13.64</i>	<i>9.00</i>	8.74	<i>8.83</i>	<i>9.38</i>
Pacific	11.62	12.02	12.88	11.75	<i>12.76</i>	<i>12.33</i>	<i>12.41</i>	<i>11.29</i>	<i>12.43</i>	<i>12.69</i>	<i>12.98</i>	<i>11.86</i>	11.87	<i>12.18</i>	<i>12.36</i>
U.S. Average	9.37	11.93	17.93	9.97	<i>9.62</i>	<i>11.86</i>	<i>16.49</i>	<i>10.67</i>	<i>9.87</i>	<i>12.28</i>	<i>16.74</i>	<i>10.72</i>	10.48	<i>10.73</i>	<i>10.94</i>
Commercial Retail															
New England	11.05	11.73	10.85	10.56	<i>10.81</i>	<i>10.49</i>	<i>10.01</i>	<i>9.56</i>	<i>9.60</i>	<i>9.47</i>	<i>9.36</i>	<i>9.37</i>	10.99	<i>10.31</i>	<i>9.49</i>
Middle Atlantic	8.13	7.67	7.47	7.82	<i>7.97</i>	<i>7.60</i>	<i>6.96</i>	<i>7.58</i>	<i>7.81</i>	<i>7.62</i>	<i>6.99</i>	<i>7.53</i>	7.88	<i>7.67</i>	<i>7.59</i>
E. N. Central	6.19	6.95	9.01	6.54	<i>6.67</i>	<i>7.53</i>	<i>8.85</i>	<i>6.88</i>	<i>6.67</i>	<i>7.59</i>	<i>8.82</i>	<i>6.79</i>	6.62	<i>7.02</i>	<i>7.01</i>
W. N. Central	6.96	7.13	8.92	7.11	<i>7.39</i>	<i>7.80</i>	<i>8.80</i>	<i>7.22</i>	<i>7.44</i>	<i>7.70</i>	<i>8.65</i>	<i>7.10</i>	7.17	<i>7.51</i>	<i>7.47</i>
S. Atlantic	8.29	9.35	9.73	8.70	<i>8.78</i>	<i>9.30</i>	<i>9.80</i>	<i>9.10</i>	<i>9.08</i>	<i>9.81</i>	<i>10.00</i>	<i>9.00</i>	8.75	<i>9.10</i>	<i>9.29</i>
E. S. Central	8.62	9.32	10.51	8.82	<i>9.02</i>	<i>9.71</i>	<i>10.04</i>	<i>8.92</i>	<i>8.50</i>	<i>9.37</i>	<i>9.72</i>	<i>8.67</i>	8.98	<i>9.22</i>	<i>8.82</i>
W. S. Central	7.21	7.90	8.55	6.99	<i>7.28</i>	<i>7.55</i>	<i>8.11</i>	<i>7.53</i>	<i>7.20</i>	<i>7.51</i>	<i>7.95</i>	<i>7.37</i>	7.44	<i>7.52</i>	<i>7.41</i>
Mountain	7.00	7.48	7.92	6.25	<i>6.75</i>	<i>7.05</i>	<i>7.98</i>	<i>7.04</i>	<i>7.29</i>	<i>7.53</i>	<i>8.20</i>	<i>7.12</i>	6.91	<i>7.02</i>	<i>7.38</i>
Pacific	8.90	8.58	9.11	8.68	<i>8.90</i>	<i>8.59</i>	<i>8.68</i>	<i>8.33</i>	<i>8.61</i>	<i>8.67</i>	<i>8.87</i>	<i>8.52</i>	8.80	<i>8.63</i>	<i>8.63</i>
U.S. Average	7.64	8.07	8.77	7.60	<i>7.81</i>	<i>8.10</i>	<i>8.46</i>	<i>7.76</i>	<i>7.75</i>	<i>8.14</i>	<i>8.44</i>	<i>7.69</i>	7.81	<i>7.91</i>	<i>7.87</i>
Industrial Retail															
New England	8.95	8.62	6.49	7.91	<i>8.60</i>	<i>7.45</i>	<i>6.92</i>	<i>8.12</i>	<i>8.73</i>	<i>7.92</i>	<i>7.10</i>	<i>8.01</i>	8.17	<i>7.93</i>	<i>8.08</i>
Middle Atlantic	8.33	8.07	7.73	7.84	<i>8.35</i>	<i>7.36</i>	<i>7.25</i>	<i>7.49</i>	<i>7.93</i>	<i>7.24</i>	<i>7.14</i>	<i>7.38</i>	8.09	<i>7.83</i>	<i>7.59</i>
E. N. Central	5.69	5.02	5.20	5.74	<i>6.52</i>	<i>6.01</i>	<i>5.77</i>	<i>5.69</i>	<i>6.26</i>	<i>5.76</i>	<i>5.56</i>	<i>5.59</i>	5.53	<i>6.09</i>	<i>5.89</i>
W. N. Central	5.05	4.23	4.21	5.05	<i>5.46</i>	<i>4.61</i>	<i>4.40</i>	<i>5.01</i>	<i>5.50</i>	<i>4.48</i>	<i>4.20</i>	<i>4.92</i>	4.69	<i>4.93</i>	<i>4.84</i>
S. Atlantic	5.34	4.67	4.68	5.42	<i>5.49</i>	<i>4.67</i>	<i>4.68</i>	<i>5.16</i>	<i>5.51</i>	<i>4.70</i>	<i>4.59</i>	<i>5.03</i>	5.06	<i>5.02</i>	<i>4.99</i>
E. S. Central	4.93	4.21	4.14	4.90	<i>4.93</i>	<i>4.22</i>	<i>4.21</i>	<i>4.77</i>	<i>5.02</i>	<i>4.35</i>	<i>4.23</i>	<i>4.76</i>	4.59	<i>4.56</i>	<i>4.62</i>
W. S. Central	3.32	3.09	3.12	4.02	<i>3.42</i>	<i>3.09</i>	<i>3.12</i>	<i>3.31</i>	<i>3.40</i>	<i>2.87</i>	<i>2.96</i>	<i>3.18</i>	3.38	<i>3.24</i>	<i>3.11</i>
Mountain	5.43	5.36	4.72	4.79	<i>5.30</i>	<i>5.41</i>	<i>5.83</i>	<i>5.95</i>	<i>6.09</i>	<i>5.64</i>	<i>5.71</i>	<i>5.71</i>	5.09	<i>5.60</i>	<i>5.82</i>
Pacific	6.97	6.03	6.72	6.65	<i>7.28</i>	<i>6.25</i>	<i>6.24</i>	<i>6.34</i>	<i>6.91</i>	<i>6.31</i>	<i>6.35</i>	<i>6.44</i>	6.61	<i>6.56</i>	<i>6.52</i>
U.S. Average	4.44	3.83	3.73	4.71	<i>4.57</i>	<i>3.84</i>	<i>3.75</i>	<i>4.23</i>	<i>4.56</i>	<i>3.72</i>	<i>3.63</i>	<i>4.13</i>	4.20	<i>4.12</i>	<i>4.04</i>

- = no data available

Prices are not adjusted for inflation.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (<http://www.eia.doe.gov/glossary/index.html>) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the *Natural Gas Monthly*, DOE/EIA-0130.

Natural gas Henry Hub spot price from Reuter's News Service (<http://www.reuters.com>).

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 6. U.S. Coal Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Supply (million short tons)															
Production	187.6	180.8	194.7	190.6	176.2	152.4	188.4	178.0	181.4	142.1	171.3	168.7	753.7	694.9	663.7
Appalachia	50.0	51.6	49.0	50.7	48.2	37.3	46.7	45.1	44.6	39.2	41.8	40.9	201.2	177.3	166.5
Interior	34.0	34.6	34.7	33.9	32.3	28.5	33.9	32.9	35.2	27.1	33.5	34.6	137.1	127.7	130.4
Western	103.7	94.6	111.0	106.0	95.6	86.6	107.8	100.0	101.7	75.9	96.0	93.2	415.3	390.0	366.8
Primary Inventory Withdrawals	-2.8	2.3	1.1	-0.7	0.3	0.5	0.7	-1.9	-0.2	0.8	2.3	-2.9	-0.1	-0.4	0.0
Imports	1.4	1.5	1.4	1.6	1.7	1.5	1.6	1.5	1.2	1.3	1.5	1.4	6.0	6.2	5.4
Exports	27.2	30.9	29.1	28.5	29.1	24.6	23.6	23.5	26.8	22.9	21.9	21.8	115.6	100.7	93.3
Metallurgical Coal	14.9	16.9	14.5	15.2	14.3	12.4	12.6	12.5	13.5	11.8	12.0	11.9	61.5	51.9	49.2
Steam Coal	12.3	13.9	14.5	13.3	14.7	12.2	10.9	11.0	13.3	11.1	9.8	9.9	54.1	48.8	44.1
Total Primary Supply	159.0	153.7	168.1	163.1	149.1	129.7	167.1	154.1	155.7	121.3	153.3	145.5	644.0	600.1	575.8
Secondary Inventory Withdrawals	11.7	4.9	20.4	-1.9	0.4	2.3	5.1	-7.9	-1.0	2.7	6.8	-8.2	35.1	-0.2	0.3
Waste Coal (a)	2.8	2.3	2.6	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	10.1	9.3	9.2
Total Supply	173.5	160.9	191.2	163.6	151.8	134.4	174.6	148.5	156.9	126.3	162.4	139.6	689.2	609.2	585.2
Consumption (million short tons)															
Coke Plants	4.2	4.6	4.7	5.7	4.2	4.6	4.7	5.3	4.1	3.9	4.7	5.9	19.3	18.7	18.6
Electric Power Sector (b)	154.8	144.2	181.6	155.9	143.9	122.2	162.4	135.5	145.0	115.0	150.4	126.3	636.5	563.9	536.7
Retail and Other Industry	8.5	7.9	7.7	8.1	8.0	7.6	7.5	7.7	7.9	7.4	7.2	7.4	32.2	30.8	29.9
Residential and Commercial	0.4	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	1.0	0.7	0.7
Other Industrial	8.2	7.7	7.5	7.9	7.8	7.5	7.3	7.4	7.7	7.3	7.1	7.2	31.3	30.0	29.2
Total Consumption	167.6	156.6	194.1	169.7	156.0	134.4	174.6	148.5	156.9	126.3	162.4	139.6	688.0	613.4	585.2
Discrepancy (c)	5.9	4.2	-2.9	-6.1	-4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	-4.2	0.0
End-of-period Inventories (million short tons)															
Primary Inventories (d)	26.8	24.5	23.4	24.1	23.7	23.3	22.6	24.5	24.7	23.9	21.6	24.5	24.1	24.5	24.5
Secondary Inventories	131.2	126.3	105.9	107.8	107.5	105.2	100.0	108.0	109.0	106.3	99.5	107.7	107.8	108.0	107.7
Electric Power Sector	126.6	121.6	100.8	102.8	102.7	100.0	94.7	102.7	104.0	101.0	94.0	102.4	102.8	102.7	102.4
Retail and General Industry	2.9	2.9	3.0	2.9	3.2	3.1	3.2	3.0	3.3	3.3	3.3	3.2	2.9	3.0	3.2
Coke Plants	1.5	1.6	1.8	1.9	1.4	1.9	2.0	2.0	1.5	1.8	2.0	2.0	1.9	2.0	2.0
Coal Market Indicators															
Coal Miner Productivity (Tons per hour)	6.10	6.10	6.10	6.10	6.02	6.02	6.02	6.02	6.01	6.01	6.01	6.01	6.10	6.02	6.01
Total Raw Steel Production (Million short tons per day)	0.251	0.253	0.263	0.270	0.280	0.285	0.273	0.244	0.303	0.300	0.276	0.237	0.259	0.270	0.279
Cost of Coal to Electric Utilities (Dollars per million Btu)	2.06	2.05	2.06	2.08	2.11	2.12	2.10	2.10	2.12	2.13	2.11	2.11	2.06	2.11	2.12

- = no data available

(a) Waste coal includes waste coal and coal slurry reprocessed into briquettes.

(b) Coal used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

(c) The discrepancy reflects an unaccounted-for shipper and receiver reporting difference, assumed to be zero in the forecast period.

(d) Primary stocks are held at the mines and distribution points.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.**Historical data:** Latest data available from Energy Information Administration databases supporting the following reports: *Quarterly Coal Report*, DOE/EIA-0121; and *Electric Power Monthly*, DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7a. U.S. Electricity Industry Overview

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Electricity Supply (billion kilowatthours per day)															
Electricity Generation	11.13	11.14	12.80	10.71	<i>10.99</i>	<i>10.77</i>	<i>12.45</i>	<i>10.58</i>	<i>11.03</i>	<i>10.83</i>	<i>12.50</i>	<i>10.60</i>	11.45	<i>11.20</i>	<i>11.24</i>
Electric Power Sector (a)	10.69	10.71	12.35	10.27	<i>10.55</i>	<i>10.34</i>	<i>12.01</i>	<i>10.15</i>	<i>10.59</i>	<i>10.39</i>	<i>12.04</i>	<i>10.16</i>	11.01	<i>10.77</i>	<i>10.80</i>
Comm. and Indus. Sectors (b)	0.43	0.43	0.45	0.44	<i>0.44</i>	<i>0.43</i>	<i>0.44</i>	<i>0.43</i>	<i>0.45</i>	<i>0.44</i>	<i>0.45</i>	<i>0.44</i>	0.44	<i>0.44</i>	<i>0.45</i>
Net Imports	0.14	0.15	0.17	0.13	<i>0.15</i>	<i>0.15</i>	<i>0.17</i>	<i>0.13</i>	<i>0.15</i>	<i>0.15</i>	<i>0.17</i>	<i>0.13</i>	0.15	<i>0.15</i>	<i>0.15</i>
Total Supply	11.27	11.29	12.96	10.84	<i>11.14</i>	<i>10.92</i>	<i>12.63</i>	<i>10.72</i>	<i>11.18</i>	<i>10.98</i>	<i>12.67</i>	<i>10.74</i>	11.59	<i>11.35</i>	<i>11.39</i>
Losses and Unaccounted for (c)	0.66	0.97	0.84	0.71	<i>0.65</i>	<i>0.82</i>	<i>0.73</i>	<i>0.67</i>	<i>0.58</i>	<i>0.82</i>	<i>0.74</i>	<i>0.67</i>	0.79	<i>0.72</i>	<i>0.70</i>
Electricity Consumption (billion kilowatthours per day unless noted)															
Retail Sales	10.23	9.95	11.73	9.75	<i>10.10</i>	<i>9.73</i>	<i>11.50</i>	<i>9.67</i>	<i>10.21</i>	<i>9.77</i>	<i>11.54</i>	<i>9.67</i>	10.42	<i>10.25</i>	<i>10.30</i>
Residential Sector	4.10	3.60	4.72	3.62	<i>3.99</i>	<i>3.41</i>	<i>4.52</i>	<i>3.53</i>	<i>4.07</i>	<i>3.44</i>	<i>4.56</i>	<i>3.55</i>	4.01	<i>3.86</i>	<i>3.91</i>
Commercial Sector	3.61	3.70	4.21	3.57	<i>3.59</i>	<i>3.66</i>	<i>4.16</i>	<i>3.56</i>	<i>3.61</i>	<i>3.69</i>	<i>4.17</i>	<i>3.57</i>	3.77	<i>3.74</i>	<i>3.76</i>
Industrial Sector	2.50	2.62	2.78	2.55	<i>2.50</i>	<i>2.64</i>	<i>2.80</i>	<i>2.56</i>	<i>2.51</i>	<i>2.63</i>	<i>2.78</i>	<i>2.53</i>	2.61	<i>2.62</i>	<i>2.61</i>
Transportation Sector	0.02	0.02	0.02	0.02	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	0.02	<i>0.02</i>	<i>0.02</i>
Direct Use (d)	0.38	0.38	0.40	0.38	<i>0.39</i>	<i>0.38</i>	<i>0.39</i>	<i>0.38</i>	<i>0.39</i>	<i>0.39</i>	<i>0.40</i>	<i>0.39</i>	0.39	<i>0.38</i>	<i>0.39</i>
Total Consumption	10.61	10.32	12.13	10.13	<i>10.49</i>	<i>10.10</i>	<i>11.89</i>	<i>10.04</i>	<i>10.60</i>	<i>10.16</i>	<i>11.94</i>	<i>10.06</i>	10.80	<i>10.63</i>	<i>10.69</i>
Average residential electricity usage per customer (kWh)	2,754	2,446	3,240	2,480	<i>2,674</i>	<i>2,285</i>	<i>3,068</i>	<i>2,392</i>	<i>2,699</i>	<i>2,282</i>	<i>3,059</i>	<i>2,383</i>	10,920	<i>10,419</i>	<i>10,423</i>
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	2.06	2.05	2.06	2.08	<i>2.11</i>	<i>2.12</i>	<i>2.10</i>	<i>2.10</i>	<i>2.12</i>	<i>2.13</i>	<i>2.11</i>	<i>2.11</i>	2.06	<i>2.11</i>	<i>2.12</i>
Natural Gas	3.96	3.09	3.23	4.05	<i>3.42</i>	<i>2.89</i>	<i>2.83</i>	<i>3.33</i>	<i>3.57</i>	<i>2.75</i>	<i>2.67</i>	<i>3.22</i>	3.54	<i>3.09</i>	<i>3.00</i>
Residual Fuel Oil	11.47	13.02	13.87	14.57	<i>12.41</i>	<i>13.14</i>	<i>12.24</i>	<i>11.76</i>	<i>12.14</i>	<i>12.89</i>	<i>12.20</i>	<i>11.97</i>	12.93	<i>12.38</i>	<i>12.27</i>
Distillate Fuel Oil	15.77	16.61	16.82	16.22	<i>14.91</i>	<i>15.27</i>	<i>15.42</i>	<i>15.80</i>	<i>16.19</i>	<i>16.62</i>	<i>16.54</i>	<i>16.62</i>	16.16	<i>15.34</i>	<i>16.47</i>
Retail Prices (cents per kilowatthour)															
Residential Sector	12.59	13.03	13.15	12.75	<i>12.89</i>	<i>13.51</i>	<i>13.49</i>	<i>13.07</i>	<i>13.10</i>	<i>13.77</i>	<i>13.74</i>	<i>13.32</i>	12.89	<i>13.24</i>	<i>13.49</i>
Commercial Sector	10.54	10.60	10.89	10.55	<i>10.53</i>	<i>10.58</i>	<i>10.87</i>	<i>10.54</i>	<i>10.54</i>	<i>10.50</i>	<i>10.82</i>	<i>10.58</i>	10.66	<i>10.64</i>	<i>10.62</i>
Industrial Sector	6.81	6.87	7.22	6.82	<i>6.75</i>	<i>6.91</i>	<i>7.27</i>	<i>6.85</i>	<i>6.78</i>	<i>6.99</i>	<i>7.36</i>	<i>6.94</i>	6.93	<i>6.95</i>	<i>7.02</i>

- = no data available. kWh = kilowatthours. Btu = British thermal units.

Prices are not adjusted for inflation.

(a) Generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities and independent power producers.

(b) Generation supplied by CHP and electricity-only plants operated by businesses in the commercial and industrial sectors, primarily for onsite use.

(c) Includes transmission and distribution losses, data collection time-frame differences, and estimation error.

 (d) Direct Use represents commercial and industrial facility use of onsite net electricity generation; and electrical sales or transfers to adjacent or collocated facilities for which revenue information is not available. See Table 7.6 of the EIA *Monthly Energy Review*.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226; and *Electric Power Annual*, DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7b. U.S. Regional Electricity Retail Sales (Million Kilowatthours per Day)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Residential Sector															
New England	140	111	153	120	139	110	140	118	140	111	140	118	131	127	128
Middle Atlantic	394	323	453	338	390	314	417	330	394	314	417	330	377	362	364
E. N. Central	552	480	603	482	545	441	571	471	545	442	572	473	530	507	508
W. N. Central	327	274	318	272	328	244	314	266	323	248	319	270	297	288	290
S. Atlantic	1,040	920	1,184	939	980	874	1,145	894	1,028	880	1,154	900	1,021	973	991
E. S. Central	368	301	396	307	336	276	381	290	358	276	382	291	343	321	327
W. S. Central	608	582	803	534	579	540	781	526	587	552	793	533	632	607	617
Mountain	239	263	360	235	248	257	351	237	248	261	356	240	274	274	276
Pacific contiguous	422	339	439	376	433	339	411	381	429	340	413	383	394	391	392
AK and HI	14	12	13	13	14	12	12	13	14	12	12	13	13	13	13
Total	4,103	3,604	4,722	3,616	3,992	3,406	4,524	3,526	4,067	3,439	4,560	3,552	4,012	3,863	3,905
Commercial Sector															
New England	141	136	159	136	141	137	154	135	139	133	148	128	143	142	137
Middle Atlantic	431	412	479	410	430	406	461	406	428	403	459	405	433	426	423
E. N. Central	499	501	556	484	498	487	545	482	497	487	544	481	510	503	502
W. N. Central	282	282	307	272	283	274	309	273	284	276	311	274	286	285	286
S. Atlantic	811	862	975	819	800	851	959	808	804	852	959	808	867	855	856
E. S. Central	242	253	296	240	238	246	292	238	243	248	293	238	258	253	256
W. S. Central	501	549	637	517	503	555	652	529	520	578	673	541	551	560	578
Mountain	248	269	309	252	249	266	307	255	251	268	308	256	270	269	271
Pacific contiguous	434	424	472	423	431	426	462	424	431	426	462	424	439	436	436
AK and HI	16	15	16	16	16	15	16	15	16	15	15	15	16	15	15
Total	3,606	3,704	4,206	3,567	3,588	3,662	4,156	3,564	3,612	3,686	4,173	3,569	3,772	3,743	3,761
Industrial Sector															
New England	42	43	47	44	40	42	45	42	39	41	44	42	44	43	42
Middle Atlantic	196	194	214	195	199	196	216	197	199	195	214	195	200	202	201
E. N. Central	499	517	530	493	503	522	533	493	500	516	525	484	510	513	506
W. N. Central	232	242	257	239	237	248	263	244	242	252	266	246	242	248	251
S. Atlantic	366	388	404	370	362	384	400	365	355	376	389	353	382	378	368
E. S. Central	257	261	286	261	253	259	284	258	249	253	276	251	266	263	257
W. S. Central	467	500	520	486	467	509	531	493	476	515	536	497	493	500	506
Mountain	209	229	251	219	210	232	258	225	214	235	259	226	227	231	234
Pacific contiguous	216	231	258	226	217	232	258	226	217	233	258	226	233	233	234
AK and HI	13	13	14	14	13	13	14	14	13	13	14	14	13	13	13
Total	2,498	2,618	2,781	2,545	2,501	2,638	2,801	2,556	2,506	2,629	2,782	2,533	2,611	2,625	2,613
Total All Sectors (a)															
New England	325	292	361	301	322	291	340	296	320	287	334	290	320	312	308
Middle Atlantic	1,033	939	1,157	954	1,029	925	1,104	942	1,032	923	1,100	939	1,021	1,000	998
E. N. Central	1,552	1,500	1,691	1,461	1,548	1,451	1,650	1,448	1,545	1,447	1,643	1,439	1,551	1,524	1,518
W. N. Central	841	798	882	782	849	766	887	783	849	776	896	791	826	821	828
S. Atlantic	2,220	2,173	2,567	2,131	2,145	2,113	2,507	2,070	2,192	2,112	2,506	2,065	2,273	2,209	2,219
E. S. Central	867	815	979	808	827	780	956	786	850	778	952	779	867	838	840
W. S. Central	1,577	1,632	1,961	1,537	1,550	1,604	1,965	1,548	1,583	1,646	2,003	1,571	1,677	1,667	1,701
Mountain	697	762	920	706	708	756	916	717	713	764	924	723	772	775	781
Pacific contiguous	1,075	996	1,172	1,028	1,083	999	1,134	1,033	1,079	1,002	1,136	1,036	1,068	1,062	1,063
AK and HI	42	41	42	42	42	40	42	42	42	40	42	42	42	42	42
Total	10,229	9,947	11,731	9,749	10,102	9,725	11,501	9,666	10,205	9,774	11,535	9,674	10,416	10,251	10,299

- = no data available

(a) Total retail sales to all sectors includes residential, commercial, industrial, and transportation sector sales.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Retail Sales represents total retail electricity sales by electric utilities and power marketers.

Regions refer to U.S. Census divisions.

 See "Census division" in EIA's Energy Glossary (<http://www.eia.doe.gov/glossary/index.html>) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226; and *Electric Power Annual*, DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7c. U.S. Regional Retail Electricity Prices (Cents per Kilowatthour)
 U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Residential Sector															
New England	20.56	20.58	20.38	20.64	21.79	21.71	21.74	21.51	22.36	22.25	22.34	22.18	20.53	21.69	22.29
Middle Atlantic	15.62	16.21	16.34	15.79	15.74	16.53	16.72	16.04	15.98	16.82	17.05	16.36	16.00	16.26	16.56
E. N. Central	12.94	13.48	13.09	13.18	13.22	14.08	13.65	13.67	13.65	14.51	14.07	14.09	13.16	13.63	14.06
W. N. Central	10.91	12.63	13.10	11.38	11.05	13.24	13.51	11.74	11.39	13.56	13.84	12.02	12.00	12.35	12.67
S. Atlantic	11.65	11.90	11.82	11.62	11.80	12.20	12.14	11.94	11.92	12.37	12.30	12.10	11.75	12.02	12.17
E. S. Central	10.86	11.40	11.16	11.17	11.19	11.94	11.59	11.56	11.29	12.13	11.80	11.84	11.13	11.55	11.74
W. S. Central	10.53	11.01	10.97	10.83	10.74	11.32	11.11	10.82	10.69	11.31	11.18	10.91	10.85	11.01	11.03
Mountain	11.58	12.25	12.25	11.76	11.72	12.53	12.54	12.03	11.99	12.82	12.83	12.30	12.00	12.24	12.53
Pacific	14.88	15.28	17.06	14.77	15.35	15.82	17.50	15.16	15.83	16.54	17.99	15.43	15.55	15.98	16.46
U.S. Average	12.59	13.03	13.15	12.75	12.89	13.51	13.49	13.07	13.10	13.77	13.74	13.32	12.89	13.24	13.49
Commercial Sector															
New England	16.58	15.91	16.19	16.44	16.41	14.96	15.39	15.61	16.04	14.25	14.78	15.31	16.28	15.59	15.09
Middle Atlantic	12.09	12.22	13.16	12.08	11.93	12.05	13.01	12.07	11.81	11.91	12.97	12.19	12.42	12.29	12.24
E. N. Central	10.09	10.14	10.08	10.11	10.14	10.35	10.31	10.32	10.25	10.46	10.44	10.48	10.11	10.28	10.41
W. N. Central	9.17	10.03	10.38	9.23	9.18	10.26	10.62	9.51	9.34	10.45	10.88	9.81	9.72	9.91	10.14
S. Atlantic	9.61	9.30	9.18	9.41	9.93	9.53	9.33	9.52	10.17	9.58	9.32	9.56	9.36	9.56	9.64
E. S. Central	10.51	10.49	10.34	10.54	10.08	10.34	10.37	10.65	9.88	10.22	10.36	10.78	10.46	10.36	10.31
W. S. Central	8.37	8.17	8.12	7.94	7.56	7.37	7.49	7.55	7.08	6.86	7.14	7.45	8.15	7.49	7.13
Mountain	9.27	9.89	10.01	9.36	8.98	9.72	9.96	9.36	8.97	9.71	9.98	9.42	9.66	9.53	9.55
Pacific	12.90	14.02	15.81	14.10	13.68	14.65	16.41	14.22	14.16	14.97	16.63	14.21	14.25	14.78	15.03
U.S. Average	10.54	10.60	10.89	10.55	10.53	10.58	10.87	10.54	10.54	10.50	10.82	10.58	10.66	10.64	10.62
Industrial Sector															
New England	13.46	12.60	12.83	12.98	14.12	13.19	13.23	13.23	14.77	13.58	13.49	13.40	12.96	13.43	13.79
Middle Atlantic	7.26	6.82	6.86	6.80	6.84	6.64	6.74	6.65	6.72	6.53	6.70	6.63	6.93	6.72	6.65
E. N. Central	7.10	6.96	6.99	7.00	6.94	6.93	7.00	7.04	6.99	7.01	7.08	7.12	7.01	6.98	7.05
W. N. Central	7.05	7.38	7.99	6.92	7.26	7.55	8.15	7.05	7.39	7.69	8.29	7.17	7.35	7.52	7.65
S. Atlantic	6.54	6.40	6.60	6.39	6.47	6.52	6.68	6.43	6.48	6.59	6.76	6.52	6.48	6.53	6.59
E. S. Central	5.74	5.92	5.88	5.88	5.79	6.11	6.02	5.99	5.91	6.27	6.16	6.13	5.86	5.98	6.12
W. S. Central	5.41	5.41	5.65	5.26	5.03	5.24	5.51	5.16	4.86	5.17	5.50	5.21	5.44	5.24	5.19
Mountain	6.10	6.47	6.93	6.05	6.19	6.65	7.13	6.22	6.38	6.85	7.33	6.39	6.41	6.57	6.76
Pacific	8.63	9.53	11.17	9.88	8.94	9.65	11.30	9.97	9.09	9.76	11.39	10.04	9.87	10.03	10.13
U.S. Average	6.81	6.87	7.22	6.82	6.75	6.91	7.27	6.85	6.78	6.99	7.36	6.94	6.93	6.95	7.02
All Sectors (a)															
New England	17.86	17.15	17.50	17.58	18.41	17.23	17.68	17.58	18.63	17.24	17.76	17.80	17.53	17.74	17.87
Middle Atlantic	12.50	12.47	13.23	12.30	12.38	12.41	13.18	12.32	12.41	12.43	13.29	12.49	12.65	12.59	12.68
E. N. Central	10.14	10.11	10.18	10.08	10.20	10.25	10.40	10.29	10.39	10.47	10.63	10.53	10.13	10.29	10.51
W. N. Central	9.26	10.12	10.67	9.28	9.38	10.33	10.91	9.50	9.56	10.55	11.17	9.75	9.85	10.05	10.27
S. Atlantic	10.06	9.88	9.99	9.85	10.20	10.09	10.19	10.02	10.39	10.21	10.29	10.14	9.95	10.13	10.26
E. S. Central	9.24	9.36	9.37	9.27	9.24	9.50	9.56	9.45	9.31	9.61	9.72	9.68	9.31	9.44	9.58
W. S. Central	8.33	8.34	8.64	8.10	8.02	8.03	8.39	7.90	7.75	7.82	8.30	7.92	8.37	8.10	7.97
Mountain	9.12	9.68	10.05	9.13	9.11	9.74	10.15	9.26	9.24	9.89	10.34	9.43	9.54	9.61	9.77
Pacific	12.81	13.40	15.25	13.41	13.41	13.87	15.63	13.63	13.79	14.27	15.92	13.74	13.77	14.17	14.46
U.S. Average	10.45	10.50	10.93	10.39	10.54	10.61	11.02	10.49	10.64	10.70	11.14	10.63	10.58	10.68	10.79

- = no data available

Prices are not adjusted for inflation.

(a) Volume-weighted average of retail prices to residential, commercial, industrial, and transportation sectors.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (<http://www.eia.doe.gov/glossary/index.html>) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226; and *Electric Power Annual*, DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7d. U.S. Regional Electricity Generation, All Sectors (Thousand megawatthours per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
United States															
Coal	3,127	2,859	3,559	3,014	<i>2,853</i>	<i>2,414</i>	<i>3,175</i>	<i>2,631</i>	<i>2,893</i>	<i>2,277</i>	<i>2,932</i>	<i>2,441</i>	3,141	<i>2,769</i>	<i>2,636</i>
Natural Gas	3,455	3,806	5,135	3,677	<i>3,728</i>	<i>3,926</i>	<i>5,015</i>	<i>3,699</i>	<i>3,648</i>	<i>4,011</i>	<i>5,246</i>	<i>3,826</i>	4,022	<i>4,094</i>	<i>4,185</i>
Petroleum (a)	102	53	62	53	<i>73</i>	<i>57</i>	<i>64</i>	<i>55</i>	<i>72</i>	<i>57</i>	<i>64</i>	<i>57</i>	67	<i>62</i>	<i>62</i>
Other Gases	34	32	36	31	<i>35</i>	<i>33</i>	<i>36</i>	<i>31</i>	<i>35</i>	<i>33</i>	<i>36</i>	<i>31</i>	33	<i>34</i>	<i>34</i>
Nuclear	2,294	2,155	2,277	2,120	<i>2,260</i>	<i>2,090</i>	<i>2,264</i>	<i>2,128</i>	<i>2,180</i>	<i>2,023</i>	<i>2,180</i>	<i>2,061</i>	2,211	<i>2,185</i>	<i>2,111</i>
Renewable Energy Sources:	2,093	2,212	1,718	1,794	<i>2,020</i>	<i>2,228</i>	<i>1,881</i>	<i>2,018</i>	<i>2,184</i>	<i>2,408</i>	<i>2,021</i>	<i>2,164</i>	1,953	<i>2,036</i>	<i>2,194</i>
Conventional Hydropower	856	944	697	703	<i>749</i>	<i>845</i>	<i>730</i>	<i>681</i>	<i>766</i>	<i>870</i>	<i>742</i>	<i>689</i>	799	<i>751</i>	<i>766</i>
Wind	869	822	582	744	<i>900</i>	<i>920</i>	<i>681</i>	<i>946</i>	<i>1,016</i>	<i>1,033</i>	<i>757</i>	<i>1,047</i>	753	<i>861</i>	<i>963</i>
Wood Biomass	119	112	115	108	<i>114</i>	<i>113</i>	<i>122</i>	<i>115</i>	<i>119</i>	<i>115</i>	<i>123</i>	<i>117</i>	113	<i>116</i>	<i>118</i>
Waste Biomass	61	58	57	58	<i>57</i>	<i>58</i>	<i>58</i>	<i>58</i>	<i>57</i>	<i>58</i>	<i>58</i>	<i>58</i>	59	<i>58</i>	<i>58</i>
Geothermal	46	44	46	47	<i>47</i>	<i>45</i>	<i>45</i>	<i>46</i>	<i>46</i>	<i>45</i>	<i>45</i>	<i>47</i>	46	<i>46</i>	<i>46</i>
Solar	141	232	222	134	<i>153</i>	<i>246</i>	<i>244</i>	<i>171</i>	<i>180</i>	<i>287</i>	<i>296</i>	<i>206</i>	182	<i>204</i>	<i>242</i>
Pumped Storage Hydropower	-15	-13	-22	-15	<i>-13</i>	<i>-12</i>	<i>-18</i>	<i>-14</i>	<i>-14</i>	<i>-12</i>	<i>-18</i>	<i>-14</i>	-16	<i>-14</i>	<i>-14</i>
Other Nonrenewable Fuels (b)	36	35	32	36	<i>35</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>35</i>	<i>36</i>	<i>36</i>	<i>36</i>	35	<i>36</i>	<i>36</i>
Total Generation	11,127	11,141	12,796	10,710	<i>10,989</i>	<i>10,770</i>	<i>12,453</i>	<i>10,585</i>	<i>11,033</i>	<i>10,832</i>	<i>12,497</i>	<i>10,601</i>	11,446	<i>11,201</i>	<i>11,243</i>
Northeast Census Region															
Coal	149	120	132	115	<i>108</i>	<i>44</i>	<i>72</i>	<i>109</i>	<i>158</i>	<i>52</i>	<i>58</i>	<i>84</i>	129	<i>83</i>	<i>88</i>
Natural Gas	500	527	783	562	<i>571</i>	<i>619</i>	<i>770</i>	<i>597</i>	<i>568</i>	<i>646</i>	<i>816</i>	<i>630</i>	594	<i>640</i>	<i>665</i>
Petroleum (a)	32	3	3	2	<i>12</i>	<i>2</i>	<i>4</i>	<i>4</i>	<i>10</i>	<i>2</i>	<i>4</i>	<i>5</i>	10	<i>5</i>	<i>5</i>
Other Gases	2	1	2	2	<i>2</i>	<i>1</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>2</i>	2	<i>2</i>	<i>2</i>
Nuclear	552	507	525	497	<i>530</i>	<i>474</i>	<i>505</i>	<i>461</i>	<i>473</i>	<i>429</i>	<i>459</i>	<i>435</i>	520	<i>493</i>	<i>449</i>
Hydropower (c)	108	114	106	121	<i>115</i>	<i>112</i>	<i>107</i>	<i>106</i>	<i>104</i>	<i>106</i>	<i>102</i>	<i>103</i>	112	<i>110</i>	<i>104</i>
Other Renewables (d)	80	76	71	72	<i>82</i>	<i>76</i>	<i>70</i>	<i>83</i>	<i>87</i>	<i>79</i>	<i>73</i>	<i>87</i>	75	<i>78</i>	<i>81</i>
Other Nonrenewable Fuels (b)	11	10	11	11	<i>11</i>	<i>11</i>	<i>12</i>	<i>12</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>12</i>	11	<i>11</i>	<i>11</i>
Total Generation	1,435	1,359	1,634	1,381	<i>1,432</i>	<i>1,340</i>	<i>1,542</i>	<i>1,374</i>	<i>1,412</i>	<i>1,328</i>	<i>1,526</i>	<i>1,357</i>	1,452	<i>1,422</i>	<i>1,406</i>
South Census Region															
Coal	1,262	1,260	1,529	1,213	<i>1,132</i>	<i>998</i>	<i>1,362</i>	<i>1,012</i>	<i>1,151</i>	<i>939</i>	<i>1,245</i>	<i>924</i>	1,316	<i>1,126</i>	<i>1,065</i>
Natural Gas	2,049	2,345	2,932	2,081	<i>2,067</i>	<i>2,398</i>	<i>2,901</i>	<i>2,110</i>	<i>2,093</i>	<i>2,457</i>	<i>3,021</i>	<i>2,183</i>	2,353	<i>2,371</i>	<i>2,439</i>
Petroleum (a)	39	21	26	20	<i>28</i>	<i>24</i>	<i>28</i>	<i>22</i>	<i>30</i>	<i>25</i>	<i>28</i>	<i>22</i>	26	<i>26</i>	<i>26</i>
Other Gases	13	12	14	12	<i>13</i>	<i>12</i>	<i>13</i>	<i>12</i>	<i>13</i>	<i>12</i>	<i>13</i>	<i>12</i>	13	<i>13</i>	<i>12</i>
Nuclear	1,008	952	1,010	936	<i>1,005</i>	<i>944</i>	<i>1,029</i>	<i>975</i>	<i>998</i>	<i>937</i>	<i>1,018</i>	<i>965</i>	976	<i>988</i>	<i>980</i>
Hydropower (c)	114	127	112	165	<i>123</i>	<i>125</i>	<i>113</i>	<i>143</i>	<i>110</i>	<i>118</i>	<i>107</i>	<i>139</i>	130	<i>126</i>	<i>119</i>
Other Renewables (d)	451	494	375	402	<i>474</i>	<i>524</i>	<i>435</i>	<i>490</i>	<i>534</i>	<i>595</i>	<i>499</i>	<i>546</i>	430	<i>481</i>	<i>543</i>
Other Nonrenewable Fuels (b)	16	16	11	15	<i>15</i>	<i>15</i>	<i>15</i>	<i>15</i>	<i>15</i>	<i>15</i>	<i>14</i>	<i>15</i>	15	<i>15</i>	<i>15</i>
Total Generation	4,952	5,227	6,008	4,844	<i>4,858</i>	<i>5,041</i>	<i>5,894</i>	<i>4,778</i>	<i>4,943</i>	<i>5,097</i>	<i>5,945</i>	<i>4,805</i>	5,260	<i>5,145</i>	<i>5,198</i>
Midwest Census Region															
Coal	1,303	1,140	1,386	1,188	<i>1,215</i>	<i>1,009</i>	<i>1,262</i>	<i>1,030</i>	<i>1,161</i>	<i>949</i>	<i>1,209</i>	<i>993</i>	1,255	<i>1,129</i>	<i>1,078</i>
Natural Gas	403	441	549	389	<i>431</i>	<i>401</i>	<i>562</i>	<i>386</i>	<i>425</i>	<i>421</i>	<i>599</i>	<i>395</i>	446	<i>445</i>	<i>460</i>
Petroleum (a)	10	7	9	8	<i>10</i>	<i>9</i>	<i>10</i>	<i>8</i>	<i>10</i>	<i>9</i>	<i>10</i>	<i>8</i>	8	<i>9</i>	<i>9</i>
Other Gases	13	12	14	12	<i>13</i>	<i>12</i>	<i>14</i>	<i>12</i>	<i>14</i>	<i>13</i>	<i>15</i>	<i>12</i>	13	<i>13</i>	<i>13</i>
Nuclear	571	539	569	535	<i>559</i>	<i>517</i>	<i>562</i>	<i>532</i>	<i>546</i>	<i>505</i>	<i>536</i>	<i>503</i>	553	<i>543</i>	<i>522</i>
Hydropower (c)	57	58	36	40	<i>61</i>	<i>58</i>	<i>38</i>	<i>35</i>	<i>55</i>	<i>55</i>	<i>36</i>	<i>34</i>	48	<i>48</i>	<i>45</i>
Other Renewables (d)	367	303	234	320	<i>399</i>	<i>373</i>	<i>274</i>	<i>442</i>	<i>466</i>	<i>435</i>	<i>317</i>	<i>501</i>	306	<i>372</i>	<i>430</i>
Other Nonrenewable Fuels (b)	4	3	4	4	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	4	<i>4</i>	<i>4</i>
Total Generation	2,727	2,505	2,802	2,495	<i>2,691</i>	<i>2,383</i>	<i>2,726</i>	<i>2,449</i>	<i>2,680</i>	<i>2,390</i>	<i>2,726</i>	<i>2,450</i>	2,632	<i>2,562</i>	<i>2,562</i>
West Census Region															
Coal	413	339	512	497	<i>397</i>	<i>363</i>	<i>480</i>	<i>480</i>	<i>423</i>	<i>337</i>	<i>419</i>	<i>441</i>	441	<i>430</i>	<i>405</i>
Natural Gas	503	493	870	644	<i>658</i>	<i>508</i>	<i>782</i>	<i>606</i>	<i>562</i>	<i>487</i>	<i>809</i>	<i>618</i>	629	<i>639</i>	<i>620</i>
Petroleum (a)	21	21	24	24	<i>22</i>	<i>21</i>	<i>22</i>	<i>22</i>	<i>22</i>	<i>21</i>	<i>23</i>	<i>23</i>	23	<i>22</i>	<i>22</i>
Other Gases	7	7	7	6	<i>7</i>	<i>7</i>	<i>6</i>	<i>6</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>6</i>	6	<i>6</i>	<i>6</i>
Nuclear	164	158	173	152	<i>166</i>	<i>155</i>	<i>168</i>	<i>159</i>	<i>163</i>	<i>153</i>	<i>166</i>	<i>158</i>	162	<i>162</i>	<i>160</i>
Hydropower (c)	562	632	420	363	<i>436</i>	<i>537</i>	<i>454</i>	<i>383</i>	<i>484</i>	<i>578</i>	<i>478</i>	<i>399</i>	493	<i>453</i>	<i>484</i>
Other Renewables (d)	338	395	340	297	<i>315</i>	<i>410</i>	<i>372</i>	<i>321</i>	<i>332</i>	<i>429</i>	<i>392</i>	<i>341</i>	343	<i>355</i>	<i>373</i>
Other Nonrenewable Fuels (b)	6	6	6	6	<i>5</i>	<i>6</i>	<i>6</i>	<i>6</i>	<i>5</i>	<i>6</i>	<i>6</i>	<i>6</i>	6	<i>6</i>	<i>6</i>
Total Generation	2,013	2,050	2,352	1,990	<i>2,007</i>	<i>2,006</i>	<i>2,290</i>	<i>1,984</i>	<i>1,998</i>	<i>2,018</i>	<i>2,300</i>	<i>1,990</i>	2,102	<i>2,072</i>	<i>2,077</i>

(a) Residual fuel oil, distillate fuel oil, petroleum coke, and other petroleum liquids.

(b) Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, nonrenewable waste, and miscellaneous technologies.

(c) Conventional hydroelectric and pumped storage generation.

(d) Wind, biomass, geothermal, and solar generation.

Notes: Data reflect generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities, independent power producers, and the commercial and industrial sectors. The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from U.S. Energy Information Administration *Electric Power Monthly* and *Electric Power Annual*.

Projections: EIA Regional Short-Term Energy Model.

Table 7e. U.S. Regional Fuel Consumption for Electricity Generation, All Sectors

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Fuel Consumption for Electricity Generation, All Sectors															
United States															
Coal (thousand st/d)	1,717	1,583	1,972	1,693	1,595	1,338	1,760	1,467	1,587	1,259	1,629	1,367	1,742	1,540	1,461
Natural Gas (million cf/d)	25,476	28,253	38,432	26,691	27,275	29,234	37,766	27,063	26,520	29,685	39,260	27,800	29,740	30,354	30,831
Petroleum (thousand b/d)	180	96	111	94	130	102	115	100	130	102	116	103	120	112	113
Residual Fuel Oil	51	27	31	26	39	24	28	25	36	25	29	28	33	29	30
Distillate Fuel Oil	71	26	22	24	30	24	24	27	34	24	24	27	36	26	27
Petroleum Coke (a)	48	40	54	40	55	50	58	44	55	50	58	44	45	52	52
Other Petroleum Liquids (b)	9	4	5	5	5	3	4	4	5	3	4	4	6	4	4
Northeast Census Region															
Coal (thousand st/d)	77	63	69	60	57	23	38	57	82	27	31	45	67	44	46
Natural Gas (million cf/d)	3,815	3,894	5,824	4,051	4,261	4,645	5,894	4,424	4,217	4,827	6,208	4,636	4,400	4,809	4,974
Petroleum (thousand b/d)	53	6	6	4	21	4	7	6	18	4	7	8	17	9	9
South Census Region															
Coal (thousand st/d)	659	670	821	658	593	528	724	544	601	497	665	498	702	597	565
Natural Gas (million cf/d)	14,737	17,259	21,766	15,053	14,891	17,718	21,616	15,291	14,964	18,018	22,348	15,693	17,217	17,392	17,762
Petroleum (thousand b/d)	72	39	48	37	53	45	51	41	56	46	51	41	49	48	48
Midwest Census Region															
Coal (thousand st/d)	743	654	793	693	717	580	723	590	659	541	692	568	721	652	615
Natural Gas (million cf/d)	3,135	3,415	4,307	2,910	3,227	3,050	4,394	2,883	3,170	3,182	4,650	2,926	3,443	3,390	3,484
Petroleum (thousand b/d)	19	15	17	14	19	18	20	16	19	17	20	16	16	18	18
West Census Region															
Coal (thousand st/d)	239	195	290	281	228	207	274	277	245	193	242	256	252	247	234
Natural Gas (million cf/d)	3,789	3,685	6,535	4,678	4,896	3,821	5,862	4,465	4,169	3,659	6,055	4,544	4,679	4,763	4,611
Petroleum (thousand b/d)	36	36	40	39	37	35	37	37	37	35	38	38	38	36	37
End-of-period U.S. Fuel Inventories Held by Electric Power Sector															
Coal (million short tons)	126.6	121.6	100.8	102.8	102.7	100.0	94.7	102.7	104.0	101.0	94.0	102.4	102.8	102.7	102.4
Residual Fuel Oil (mmb)	10.1	9.9	8.4	8.6	9.2	9.8	10.1	10.8	10.6	10.5	10.4	10.8	8.6	10.8	10.8
Distillate Fuel Oil (mmb)	15.1	14.9	14.4	14.9	15.2	15.3	15.3	15.7	15.8	15.7	15.6	15.9	14.9	15.7	15.9
Petroleum Coke (mmb)	3.6	2.9	2.9	2.7	2.7	2.8	2.9	2.9	2.9	3.0	3.1	3.1	2.7	2.9	3.1

(a) Petroleum coke consumption converted from short tons to barrels by multiplying by five.

(b) Other petroleum liquids include jet fuel, kerosene, and waste oil.

Notes: Data reflect generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities, independent power producers, and the commercial and industrial sectors. Data include fuel consumed only for generation of electricity. Values do not include consumption by CHP plants for useful thermal output.

The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Physical Units: st/d = short tons per day; b/d = barrels per day; cf/d = cubic feet per day; mmb = million barrels.

Historical data: Latest data available from U.S. Energy Information Administration *Electric Power Monthly* and *Electric Power Annual*.

Projections: EIA Regional Short-Term Energy Model.

Table 8a. U.S. Renewable Energy Consumption (Quadrillion Btu)
 U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Electric Power Sector															
Geothermal	0.038	0.037	0.039	0.039	<i>0.039</i>	<i>0.038</i>	<i>0.038</i>	<i>0.039</i>	<i>0.038</i>	<i>0.038</i>	<i>0.038</i>	<i>0.040</i>	0.154	<i>0.154</i>	<i>0.155</i>
Hydroelectric Power (a)	0.706	0.787	0.587	0.592	<i>0.618</i>	<i>0.706</i>	<i>0.617</i>	<i>0.574</i>	<i>0.639</i>	<i>0.727</i>	<i>0.626</i>	<i>0.581</i>	2.673	<i>2.516</i>	<i>2.574</i>
Solar (b)	0.116	0.193	0.186	0.113	<i>0.126</i>	<i>0.205</i>	<i>0.205</i>	<i>0.143</i>	<i>0.149</i>	<i>0.239</i>	<i>0.248</i>	<i>0.173</i>	0.608	<i>0.679</i>	<i>0.809</i>
Waste Biomass (c)	0.073	0.070	0.067	0.069	<i>0.066</i>	<i>0.068</i>	<i>0.070</i>	<i>0.070</i>	<i>0.067</i>	<i>0.069</i>	<i>0.070</i>	<i>0.070</i>	0.280	<i>0.274</i>	<i>0.276</i>
Wood Biomass	0.057	0.052	0.055	0.051	<i>0.052</i>	<i>0.053</i>	<i>0.066</i>	<i>0.061</i>	<i>0.061</i>	<i>0.056</i>	<i>0.069</i>	<i>0.062</i>	0.215	<i>0.232</i>	<i>0.248</i>
Wind	0.722	0.689	0.494	0.631	<i>0.747</i>	<i>0.772</i>	<i>0.578</i>	<i>0.803</i>	<i>0.853</i>	<i>0.867</i>	<i>0.643</i>	<i>0.888</i>	2.536	<i>2.900</i>	<i>3.250</i>
Subtotal	1.712	1.830	1.428	1.496	<i>1.648</i>	<i>1.843</i>	<i>1.575</i>	<i>1.689</i>	<i>1.807</i>	<i>1.995</i>	<i>1.695</i>	<i>1.814</i>	6.466	<i>6.755</i>	<i>7.310</i>
Industrial Sector															
Biofuel Losses and Co-products (d)	0.202	0.204	0.211	0.210	<i>0.203</i>	<i>0.206</i>	<i>0.206</i>	<i>0.206</i>	<i>0.204</i>	<i>0.207</i>	<i>0.208</i>	<i>0.206</i>	0.827	<i>0.821</i>	<i>0.825</i>
Geothermal	0.001	0.001	0.001	0.001	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	<i>0.001</i>	0.004	<i>0.004</i>	<i>0.004</i>
Hydroelectric Power (a)	0.003	0.003	0.003	0.003	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	0.013	<i>0.013</i>	<i>0.013</i>
Solar (b)	0.005	0.007	0.008	0.005	<i>0.006</i>	<i>0.008</i>	<i>0.009</i>	<i>0.006</i>	<i>0.007</i>	<i>0.010</i>	<i>0.010</i>	<i>0.007</i>	0.025	<i>0.029</i>	<i>0.034</i>
Waste Biomass (c)	0.044	0.041	0.039	0.044	<i>0.042</i>	<i>0.041</i>	<i>0.041</i>	<i>0.043</i>	<i>0.043</i>	<i>0.041</i>	<i>0.041</i>	<i>0.043</i>	0.168	<i>0.167</i>	<i>0.168</i>
Wood Biomass	0.381	0.382	0.389	0.384	<i>0.362</i>	<i>0.350</i>	<i>0.358</i>	<i>0.360</i>	<i>0.348</i>	<i>0.345</i>	<i>0.356</i>	<i>0.358</i>	1.535	<i>1.430</i>	<i>1.407</i>
Subtotal	0.636	0.635	0.647	0.647	<i>0.617</i>	<i>0.606</i>	<i>0.614</i>	<i>0.618</i>	<i>0.603</i>	<i>0.603</i>	<i>0.614</i>	<i>0.616</i>	2.565	<i>2.454</i>	<i>2.436</i>
Commercial Sector															
Geothermal	0.005	0.005	0.005	0.005	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	<i>0.005</i>	0.020	<i>0.020</i>	<i>0.020</i>
Solar (b)	0.019	0.029	0.029	0.020	<i>0.023</i>	<i>0.034</i>	<i>0.035</i>	<i>0.025</i>	<i>0.029</i>	<i>0.041</i>	<i>0.042</i>	<i>0.030</i>	0.096	<i>0.116</i>	<i>0.142</i>
Waste Biomass (c)	0.011	0.011	0.010	0.012	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	<i>0.011</i>	0.044	<i>0.044</i>	<i>0.044</i>
Wood Biomass	0.021	0.021	0.021	0.021	<i>0.021</i>	<i>0.021</i>	<i>0.022</i>	<i>0.021</i>	<i>0.021</i>	<i>0.021</i>	<i>0.022</i>	<i>0.021</i>	0.084	<i>0.084</i>	<i>0.084</i>
Subtotal	0.063	0.072	0.072	0.064	<i>0.066</i>	<i>0.078</i>	<i>0.079</i>	<i>0.069</i>	<i>0.073</i>	<i>0.085</i>	<i>0.087</i>	<i>0.074</i>	0.272	<i>0.292</i>	<i>0.318</i>
Residential Sector															
Geothermal	0.010	0.010	0.010	0.011	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	<i>0.013</i>	0.041	<i>0.053</i>	<i>0.053</i>
Solar (e)	0.043	0.066	0.066	0.046	<i>0.048</i>	<i>0.075</i>	<i>0.076</i>	<i>0.053</i>	<i>0.055</i>	<i>0.084</i>	<i>0.085</i>	<i>0.059</i>	0.221	<i>0.252</i>	<i>0.284</i>
Wood Biomass	0.128	0.129	0.130	0.121	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	0.508	<i>0.420</i>	<i>0.420</i>
Subtotal	0.180	0.205	0.207	0.178	<i>0.167</i>	<i>0.193</i>	<i>0.194</i>	<i>0.171</i>	<i>0.174</i>	<i>0.202</i>	<i>0.203</i>	<i>0.177</i>	0.770	<i>0.724</i>	<i>0.757</i>
Transportation Sector															
Biomass-based Diesel (f)	0.054	0.068	0.071	0.072	<i>0.059</i>	<i>0.078</i>	<i>0.083</i>	<i>0.096</i>	<i>0.072</i>	<i>0.085</i>	<i>0.089</i>	<i>0.094</i>	0.265	<i>0.316</i>	<i>0.341</i>
Ethanol (f)	0.273	0.286	0.294	0.290	<i>0.275</i>	<i>0.296</i>	<i>0.297</i>	<i>0.289</i>	<i>0.278</i>	<i>0.297</i>	<i>0.300</i>	<i>0.288</i>	1.143	<i>1.157</i>	<i>1.162</i>
Subtotal	0.327	0.354	0.365	0.359	<i>0.334</i>	<i>0.373</i>	<i>0.380</i>	<i>0.385</i>	<i>0.350</i>	<i>0.382</i>	<i>0.389</i>	<i>0.382</i>	1.405	<i>1.473</i>	<i>1.504</i>
All Sectors Total															
Biomass-based Diesel (f)	0.054	0.068	0.071	0.072	<i>0.059</i>	<i>0.078</i>	<i>0.083</i>	<i>0.096</i>	<i>0.072</i>	<i>0.085</i>	<i>0.089</i>	<i>0.094</i>	0.265	<i>0.316</i>	<i>0.341</i>
Biofuel Losses and Co-products (d)	0.202	0.204	0.211	0.210	<i>0.203</i>	<i>0.206</i>	<i>0.206</i>	<i>0.206</i>	<i>0.204</i>	<i>0.207</i>	<i>0.208</i>	<i>0.206</i>	0.827	<i>0.821</i>	<i>0.825</i>
Ethanol (f)	0.283	0.297	0.305	0.300	<i>0.285</i>	<i>0.307</i>	<i>0.308</i>	<i>0.300</i>	<i>0.288</i>	<i>0.308</i>	<i>0.311</i>	<i>0.299</i>	1.185	<i>1.200</i>	<i>1.207</i>
Geothermal	0.054	0.053	0.055	0.056	<i>0.058</i>	<i>0.057</i>	<i>0.057</i>	<i>0.058</i>	<i>0.058</i>	<i>0.057</i>	<i>0.058</i>	<i>0.059</i>	0.218	<i>0.231</i>	<i>0.231</i>
Hydroelectric Power (a)	0.710	0.791	0.590	0.596	<i>0.622</i>	<i>0.710</i>	<i>0.620</i>	<i>0.578</i>	<i>0.643</i>	<i>0.731</i>	<i>0.630</i>	<i>0.585</i>	2.688	<i>2.531</i>	<i>2.589</i>
Solar (b)(e)	0.183	0.295	0.288	0.187	<i>0.203</i>	<i>0.322</i>	<i>0.324</i>	<i>0.227</i>	<i>0.240</i>	<i>0.374</i>	<i>0.385</i>	<i>0.269</i>	0.953	<i>1.075</i>	<i>1.268</i>
Waste Biomass (c)	0.128	0.122	0.117	0.125	<i>0.120</i>	<i>0.120</i>	<i>0.122</i>	<i>0.124</i>	<i>0.121</i>	<i>0.121</i>	<i>0.122</i>	<i>0.123</i>	0.493	<i>0.486</i>	<i>0.488</i>
Wood Biomass	0.588	0.585	0.596	0.578	<i>0.540</i>	<i>0.529</i>	<i>0.551</i>	<i>0.547</i>	<i>0.535</i>	<i>0.527</i>	<i>0.551</i>	<i>0.546</i>	2.346	<i>2.167</i>	<i>2.159</i>
Wind	0.722	0.689	0.494	0.631	<i>0.747</i>	<i>0.772</i>	<i>0.578</i>	<i>0.803</i>	<i>0.853</i>	<i>0.867</i>	<i>0.643</i>	<i>0.888</i>	2.536	<i>2.900</i>	<i>3.250</i>
Total Consumption	2.919	3.097	2.719	2.757	<i>2.832</i>	<i>3.092</i>	<i>2.841</i>	<i>2.932</i>	<i>3.007</i>	<i>3.267</i>	<i>2.988</i>	<i>3.062</i>	11.492	<i>11.698</i>	<i>12.325</i>

- = no data available

(a) Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

(b) Solar consumption in the electric power, commercial, and industrial sectors includes energy produced from large scale (>1 MW) solar thermal and photovoltaic generators and small-scale (<1 MW) distributed solar photovoltaic systems.

(c) Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

(d) Losses and co-products from the production of fuel ethanol and biomass-based diesel

(e) Solar consumption in the residential sector includes energy from small-scale (<1 MW) solar photovoltaic systems. Also includes solar heating consumption in all sectors.

(f) Fuel ethanol and biomass-based diesel consumption in the transportation sector includes production, stock change, and imports less exports. Some biomass-based diesel may be consumed in the residential sector in heating oil.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226 and *Renewable Energy Annual*, DOE/EIA-0603; *Petroleum Supply Monthly*, DOE/EIA-0109.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 8b. U.S. Renewable Electricity Generation and Capacity
 U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Renewable Energy Electric Generating Capacity (megawatts, end of period)															
Electric Power Sector (a)															
Biomass	7,254	7,226	7,223	7,167	<i>7,324</i>	<i>7,352</i>	<i>7,352</i>	<i>7,352</i>	<i>7,352</i>	<i>7,353</i>	<i>7,395</i>	<i>7,395</i>	7,167	<i>7,352</i>	<i>7,395</i>
Waste	4,212	4,184	4,181	4,180	<i>4,178</i>	<i>4,206</i>	<i>4,206</i>	<i>4,206</i>	<i>4,206</i>	<i>4,207</i>	<i>4,207</i>	<i>4,207</i>	4,180	<i>4,206</i>	<i>4,207</i>
Wood	3,042	3,042	3,042	2,987	<i>3,146</i>	<i>3,146</i>	<i>3,146</i>	<i>3,146</i>	<i>3,146</i>	<i>3,146</i>	<i>3,188</i>	<i>3,188</i>	2,987	<i>3,146</i>	<i>3,188</i>
Conventional Hydroelectric	79,447	79,416	79,416	79,536	<i>79,563</i>	<i>79,599</i>	<i>79,506</i>	<i>79,525</i>	<i>79,620</i>	<i>79,636</i>	<i>79,758</i>	<i>79,764</i>	79,536	<i>79,525</i>	<i>79,764</i>
Geothermal	2,499	2,499	2,499	2,504	<i>2,512</i>	<i>2,512</i>	<i>2,512</i>	<i>2,512</i>	<i>2,512</i>	<i>2,512</i>	<i>2,602</i>	<i>2,627</i>	2,504	<i>2,512</i>	<i>2,627</i>
Large-Scale Solar (b)	27,985	28,829	29,341	31,557	<i>32,638</i>	<i>33,683</i>	<i>34,015</i>	<i>36,656</i>	<i>37,331</i>	<i>40,683</i>	<i>41,037</i>	<i>43,145</i>	31,557	<i>36,656</i>	<i>43,145</i>
Wind	88,620	88,744	89,753	94,199	<i>96,789</i>	<i>98,450</i>	<i>100,301</i>	<i>105,057</i>	<i>107,020</i>	<i>108,025</i>	<i>108,859</i>	<i>114,125</i>	94,199	<i>105,057</i>	<i>114,125</i>
Other Sectors (c)															
Biomass	6,651	6,640	6,640	6,641	<i>6,649</i>	<i>6,624</i>	<i>6,626</i>	<i>6,640</i>	<i>6,640</i>	<i>6,640</i>	<i>6,640</i>	<i>6,640</i>	6,641	<i>6,640</i>	<i>6,640</i>
Waste	873	873	873	873	<i>873</i>	<i>873</i>	<i>875</i>	<i>889</i>	<i>889</i>	<i>889</i>	<i>889</i>	<i>889</i>	873	<i>889</i>	<i>889</i>
Wood	5,778	5,767	5,767	5,768	<i>5,776</i>	<i>5,751</i>	<i>5,751</i>	<i>5,751</i>	<i>5,751</i>	<i>5,751</i>	<i>5,751</i>	<i>5,751</i>	5,768	<i>5,751</i>	<i>5,751</i>
Conventional Hydroelectric	357	357	357	357	<i>364</i>	<i>364</i>	<i>364</i>	<i>364</i>	<i>364</i>	<i>362</i>	<i>362</i>	<i>362</i>	357	<i>364</i>	<i>362</i>
Large-Scale Solar (b)	354	361	369	374	<i>377</i>	<i>381</i>	<i>381</i>	<i>381</i>	<i>381</i>	<i>383</i>	<i>383</i>	<i>383</i>	374	<i>381</i>	<i>383</i>
Small-Scale Solar (d)	17,048	17,887	18,712	19,521	<i>20,354</i>	<i>21,206</i>	<i>22,087</i>	<i>22,998</i>	<i>23,941</i>	<i>24,918</i>	<i>25,927</i>	<i>26,970</i>	19,521	<i>22,998</i>	<i>26,970</i>
Residential Sector	10,155	10,660	11,179	11,664	<i>12,126</i>	<i>12,589</i>	<i>13,063</i>	<i>13,548</i>	<i>14,045</i>	<i>14,553</i>	<i>15,073</i>	<i>15,603</i>	11,664	<i>13,548</i>	<i>15,603</i>
Commercial Sector	5,501	5,778	6,026	6,286	<i>6,595</i>	<i>6,921</i>	<i>7,263</i>	<i>7,623</i>	<i>8,000</i>	<i>8,397</i>	<i>8,814</i>	<i>9,252</i>	6,286	<i>7,623</i>	<i>9,252</i>
Industrial Sector	1,391	1,449	1,507	1,571	<i>1,633</i>	<i>1,696</i>	<i>1,761</i>	<i>1,828</i>	<i>1,897</i>	<i>1,967</i>	<i>2,040</i>	<i>2,115</i>	1,571	<i>1,828</i>	<i>2,115</i>
Wind	113	110	116	116	<i>116</i>	<i>116</i>	<i>116</i>	<i>116</i>	<i>116</i>	<i>116</i>	<i>116</i>	<i>116</i>	116	<i>116</i>	<i>116</i>
Renewable Electricity Generation (thousand megawatthours per day)															
Electric Power Sector (a)															
Biomass	92	85	86	82	<i>83</i>	<i>85</i>	<i>94</i>	<i>89</i>	<i>89</i>	<i>87</i>	<i>96</i>	<i>90</i>	86	<i>88</i>	<i>91</i>
Waste	52	49	48	49	<i>48</i>	<i>49</i>	<i>50</i>	<i>49</i>	<i>48</i>	<i>49</i>	<i>50</i>	<i>49</i>	50	<i>49</i>	<i>49</i>
Wood	40	35	37	33	<i>35</i>	<i>36</i>	<i>44</i>	<i>40</i>	<i>41</i>	<i>38</i>	<i>46</i>	<i>41</i>	37	<i>39</i>	<i>42</i>
Conventional Hydroelectric	852	939	692	698	<i>744</i>	<i>841</i>	<i>726</i>	<i>676</i>	<i>761</i>	<i>865</i>	<i>738</i>	<i>684</i>	795	<i>747</i>	<i>762</i>
Geothermal	46	44	46	46	<i>47</i>	<i>45</i>	<i>45</i>	<i>46</i>	<i>46</i>	<i>45</i>	<i>45</i>	<i>47</i>	46	<i>46</i>	<i>46</i>
Large-Scale Solar (b)	140	230	219	133	<i>151</i>	<i>244</i>	<i>241</i>	<i>169</i>	<i>177</i>	<i>284</i>	<i>292</i>	<i>203</i>	180	<i>201</i>	<i>239</i>
Wind	868	821	581	743	<i>899</i>	<i>919</i>	<i>680</i>	<i>945</i>	<i>1,015</i>	<i>1,032</i>	<i>756</i>	<i>1,046</i>	752	<i>861</i>	<i>962</i>
Other Sectors (c)															
Biomass	87	86	86	84	<i>87</i>	<i>86</i>	<i>86</i>	<i>84</i>	<i>87</i>	<i>86</i>	<i>86</i>	<i>84</i>	86	<i>86</i>	<i>86</i>
Waste	78	77	77	75	<i>78</i>	<i>77</i>	<i>77</i>	<i>75</i>	<i>78</i>	<i>77</i>	<i>77</i>	<i>75</i>	77	<i>77</i>	<i>77</i>
Wood	9	9	8	9	<i>9</i>	<i>9</i>	<i>8</i>	<i>9</i>	<i>9</i>	<i>9</i>	<i>8</i>	<i>9</i>	9	<i>9</i>	<i>9</i>
Conventional Hydroelectric	5	5	4	5	<i>5</i>	<i>5</i>	<i>4</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>4</i>	<i>5</i>	5	<i>5</i>	<i>5</i>
Large-Scale Solar (b)	1	3	3	1	<i>2</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>3</i>	2	<i>3</i>	<i>3</i>
Small-Scale Solar (d)	64	97	96	66	<i>76</i>	<i>114</i>	<i>115</i>	<i>80</i>	<i>91</i>	<i>135</i>	<i>135</i>	<i>94</i>	81	<i>96</i>	<i>114</i>
Residential Sector	37	57	56	38	<i>44</i>	<i>66</i>	<i>67</i>	<i>46</i>	<i>51</i>	<i>77</i>	<i>77</i>	<i>53</i>	47	<i>56</i>	<i>65</i>
Commercial Sector	22	32	32	22	<i>26</i>	<i>38</i>	<i>38</i>	<i>27</i>	<i>32</i>	<i>46</i>	<i>46</i>	<i>32</i>	27	<i>32</i>	<i>39</i>
Industrial Sector	6	8	9	6	<i>7</i>	<i>10</i>	<i>10</i>	<i>7</i>	<i>8</i>	<i>11</i>	<i>12</i>	<i>8</i>	7	<i>8</i>	<i>10</i>
Wind	1	1	1	1	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	1	<i>1</i>	<i>1</i>

-- = no data available

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

(a) Power plants larger than or equal to one megawatt in size that are operated by electric utilities or independent power producers.

(b) Solar thermal and photovoltaic generating units at power plants larger than or equal to one megawatt.

(c) Businesses or individual households not primarily engaged in electric power production for sale to the public, whose generating capacity is at least one megawatt (except for small-scale solar photovoltaic data, which consists of systems smaller than one megawatt).

(d) Solar photovoltaic systems smaller than one megawatt, as measured in alternating current.

Historical data: Latest data available from EIA databases supporting the Electric Power Monthly, DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA-860M database, EIA-826 Solar PV database, and EIA Regional Short-Term Energy Model.

Table 9a. U.S. Macroeconomic Indicators and CO2 Emissions

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Macroeconomic															
Real Gross Domestic Product (billion chained 2012 dollars - SAAR)	18,324	18,512	18,665	18,779	<i>18,861</i>	<i>18,993</i>	<i>19,105</i>	<i>19,210</i>	<i>19,299</i>	<i>19,382</i>	<i>19,456</i>	<i>19,520</i>	18,570	<i>19,042</i>	<i>19,414</i>
Real Personal Consumption Expend. (billion chained 2012 dollars - SAAR)	12,723	12,842	12,953	13,075	<i>13,131</i>	<i>13,211</i>	<i>13,309</i>	<i>13,402</i>	<i>13,484</i>	<i>13,556</i>	<i>13,633</i>	<i>13,697</i>	12,898	<i>13,263</i>	<i>13,592</i>
Real Private Fixed Investment (billion chained 2012 dollars - SAAR)	3,271	3,322	3,332	3,354	<i>3,367</i>	<i>3,398</i>	<i>3,423</i>	<i>3,458</i>	<i>3,488</i>	<i>3,511</i>	<i>3,538</i>	<i>3,559</i>	3,320	<i>3,412</i>	<i>3,524</i>
Business Inventory Change (billion chained 2012 dollars - SAAR)	36	-10	93	77	<i>77</i>	<i>86</i>	<i>88</i>	<i>83</i>	<i>80</i>	<i>76</i>	<i>63</i>	<i>55</i>	49	<i>83</i>	<i>68</i>
Real Government Expenditures (billion chained 2012 dollars - SAAR)	3,152	3,172	3,192	3,219	<i>3,235</i>	<i>3,254</i>	<i>3,259</i>	<i>3,263</i>	<i>3,271</i>	<i>3,286</i>	<i>3,285</i>	<i>3,286</i>	3,184	<i>3,253</i>	<i>3,282</i>
Real Exports of Goods & Services (billion chained 2012 dollars - SAAR)	2,518	2,574	2,542	2,562	<i>2,597</i>	<i>2,627</i>	<i>2,663</i>	<i>2,700</i>	<i>2,734</i>	<i>2,765</i>	<i>2,793</i>	<i>2,817</i>	2,549	<i>2,647</i>	<i>2,777</i>
Real Imports of Goods & Services (billion chained 2012 dollars - SAAR)	3,420	3,415	3,492	3,562	<i>3,606</i>	<i>3,645</i>	<i>3,702</i>	<i>3,766</i>	<i>3,837</i>	<i>3,897</i>	<i>3,947</i>	<i>3,990</i>	3,472	<i>3,680</i>	<i>3,918</i>
Real Disposable Personal Income (billion chained 2012 dollars - SAAR)	14,220	14,282	14,365	14,471	<i>14,600</i>	<i>14,679</i>	<i>14,752</i>	<i>14,821</i>	<i>14,884</i>	<i>14,972</i>	<i>15,050</i>	<i>15,120</i>	14,334	<i>14,713</i>	<i>15,006</i>
Non-Farm Employment (millions)	148.0	148.7	149.4	150.1	<i>150.8</i>	<i>151.4</i>	<i>151.9</i>	<i>152.4</i>	<i>152.7</i>	<i>153.2</i>	<i>153.2</i>	<i>153.3</i>	149.1	<i>151.6</i>	<i>153.1</i>
Civilian Unemployment Rate (percent)	4.1	3.9	3.8	3.8	<i>3.9</i>	<i>3.6</i>	<i>3.5</i>	<i>3.5</i>	<i>3.5</i>	<i>3.5</i>	<i>3.6</i>	<i>3.6</i>	3.9	<i>3.6</i>	<i>3.5</i>
Housing Starts (millions - SAAR)	1.32	1.26	1.23	1.24	<i>1.25</i>	<i>1.27</i>	<i>1.31</i>	<i>1.35</i>	<i>1.37</i>	<i>1.39</i>	<i>1.41</i>	<i>1.41</i>	1.26	<i>1.29</i>	<i>1.40</i>
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	105.9	107.3	108.6	109.8	<i>110.1</i>	<i>110.9</i>	<i>111.4</i>	<i>112.0</i>	<i>112.3</i>	<i>112.4</i>	<i>112.7</i>	<i>113.1</i>	107.9	<i>111.1</i>	<i>112.6</i>
Manufacturing	104.1	104.8	105.9	106.6	<i>107.1</i>	<i>107.9</i>	<i>108.7</i>	<i>109.4</i>	<i>109.8</i>	<i>109.8</i>	<i>110.1</i>	<i>110.5</i>	105.4	<i>108.3</i>	<i>110.0</i>
Food	114.1	114.8	115.7	114.0	<i>114.7</i>	<i>115.6</i>	<i>116.3</i>	<i>116.8</i>	<i>117.3</i>	<i>117.7</i>	<i>118.2</i>	<i>118.6</i>	114.6	<i>115.9</i>	<i>118.0</i>
Paper	96.0	96.1	96.2	96.1	<i>95.7</i>	<i>95.4</i>	<i>95.4</i>	<i>95.3</i>	<i>94.9</i>	<i>94.5</i>	<i>94.1</i>	<i>93.9</i>	96.1	<i>95.5</i>	<i>94.4</i>
Petroleum and Coal Products	106.6	107.5	107.7	108.0	<i>110.2</i>	<i>109.7</i>	<i>110.1</i>	<i>110.5</i>	<i>110.7</i>	<i>110.9</i>	<i>111.1</i>	<i>111.3</i>	107.4	<i>110.1</i>	<i>111.0</i>
Chemicals	96.7	98.9	100.1	100.7	<i>101.3</i>	<i>102.5</i>	<i>103.4</i>	<i>104.3</i>	<i>104.9</i>	<i>105.6</i>	<i>106.3</i>	<i>107.0</i>	99.1	<i>102.9</i>	<i>106.0</i>
Nonmetallic Mineral Products	119.2	120.8	119.4	119.6	<i>119.8</i>	<i>119.5</i>	<i>119.9</i>	<i>120.3</i>	<i>120.8</i>	<i>121.3</i>	<i>121.7</i>	<i>122.1</i>	119.7	<i>119.9</i>	<i>121.5</i>
Primary Metals	96.1	96.4	96.7	100.5	<i>102.4</i>	<i>104.2</i>	<i>105.1</i>	<i>104.7</i>	<i>103.3</i>	<i>101.4</i>	<i>98.9</i>	<i>96.3</i>	97.4	<i>104.1</i>	<i>100.0</i>
Coal-weighted Manufacturing (a)	103.5	104.8	105.2	106.0	<i>107.0</i>	<i>107.7</i>	<i>108.3</i>	<i>108.6</i>	<i>108.4</i>	<i>108.0</i>	<i>107.6</i>	<i>107.2</i>	104.9	<i>107.9</i>	<i>107.8</i>
Distillate-weighted Manufacturing (a)	111.1	111.7	112.0	112.1	<i>112.8</i>	<i>113.0</i>	<i>113.6</i>	<i>114.0</i>	<i>114.2</i>	<i>114.2</i>	<i>114.3</i>	<i>114.3</i>	111.7	<i>113.3</i>	<i>114.2</i>
Electricity-weighted Manufacturing (a)	104.1	105.2	106.1	106.9	<i>107.7</i>	<i>108.5</i>	<i>109.3</i>	<i>109.7</i>	<i>109.8</i>	<i>109.6</i>	<i>109.4</i>	<i>109.3</i>	105.6	<i>108.8</i>	<i>109.5</i>
Natural Gas-weighted Manufacturing (a) ...	103.8	105.6	106.5	107.1	<i>108.0</i>	<i>108.9</i>	<i>109.7</i>	<i>110.2</i>	<i>110.3</i>	<i>110.4</i>	<i>110.6</i>	<i>110.7</i>	105.7	<i>109.2</i>	<i>110.5</i>
Price Indexes															
Consumer Price Index (all urban consumers) (index, 1982-1984=1.00)	2.49	2.51	2.52	2.53	<i>2.53</i>	<i>2.55</i>	<i>2.56</i>	<i>2.57</i>	<i>2.59</i>	<i>2.60</i>	<i>2.61</i>	<i>2.62</i>	2.51	<i>2.55</i>	<i>2.61</i>
Producer Price Index: All Commodities (index, 1982=1.00)	2.00	2.01	2.03	2.03	<i>2.01</i>	<i>2.01</i>	<i>2.01</i>	<i>2.02</i>	<i>2.03</i>	<i>2.02</i>	<i>2.02</i>	<i>2.03</i>	2.02	<i>2.01</i>	<i>2.03</i>
Producer Price Index: Petroleum (index, 1982=1.00)	1.98	2.22	2.26	2.10	<i>1.81</i>	<i>1.89</i>	<i>1.94</i>	<i>1.85</i>	<i>1.85</i>	<i>1.93</i>	<i>1.91</i>	<i>1.83</i>	2.14	<i>1.87</i>	<i>1.88</i>
GDP Implicit Price Deflator (index, 2012=100)	109.3	110.2	110.7	111.1	<i>111.7</i>	<i>112.1</i>	<i>112.7</i>	<i>113.3</i>	<i>114.0</i>	<i>114.7</i>	<i>115.3</i>	<i>116.0</i>	110.3	<i>112.5</i>	<i>115.0</i>
Miscellaneous															
Vehicle Miles Traveled (b) (million miles/day)	8,232	9,225	9,080	8,849	<i>8,414</i>	<i>9,373</i>	<i>9,221</i>	<i>8,957</i>	<i>8,504</i>	<i>9,513</i>	<i>9,378</i>	<i>9,041</i>	8,849	<i>8,993</i>	<i>9,109</i>
Air Travel Capacity (Available ton-miles/day, thousands)	603	664	667	641	<i>623</i>	<i>657</i>	<i>665</i>	<i>641</i>	<i>621</i>	<i>655</i>	<i>664</i>	<i>642</i>	644	<i>646</i>	<i>646</i>
Aircraft Utilization (Revenue ton-miles/day, thousands)	368	414	418	400	<i>384</i>	<i>418</i>	<i>423</i>	<i>403</i>	<i>383</i>	<i>418</i>	<i>425</i>	<i>405</i>	400	<i>407</i>	<i>408</i>
Airline Ticket Price Index (index, 1982-1984=100)	262.8	277.9	259.7	264.0	<i>284.6</i>	<i>327.6</i>	<i>323.1</i>	<i>325.9</i>	<i>323.2</i>	<i>354.3</i>	<i>341.6</i>	<i>340.5</i>	266.1	<i>315.3</i>	<i>339.9</i>
Raw Steel Production (million short tons per day)	0.251	0.253	0.263	0.270	<i>0.280</i>	<i>0.285</i>	<i>0.273</i>	<i>0.244</i>	<i>0.303</i>	<i>0.300</i>	<i>0.276</i>	<i>0.237</i>	0.259	<i>0.270</i>	<i>0.279</i>
Carbon Dioxide (CO2) Emissions (million metric tons)															
Petroleum	578	591	601	607	<i>581</i>	<i>595</i>	<i>606</i>	<i>604</i>	<i>591</i>	<i>596</i>	<i>611</i>	<i>606</i>	2,377	<i>2,385</i>	<i>2,404</i>
Natural Gas	478	349	370	425	<i>496</i>	<i>359</i>	<i>372</i>	<i>431</i>	<i>494</i>	<i>361</i>	<i>380</i>	<i>430</i>	1,622	<i>1,658</i>	<i>1,665</i>
Coal	308	288	356	314	<i>288</i>	<i>248</i>	<i>322</i>	<i>277</i>	<i>289</i>	<i>233</i>	<i>300</i>	<i>261</i>	1,267	<i>1,136</i>	<i>1,083</i>
Total Energy (c)	1,366	1,232	1,330	1,350	<i>1,367</i>	<i>1,205</i>	<i>1,303</i>	<i>1,315</i>	<i>1,377</i>	<i>1,193</i>	<i>1,293</i>	<i>1,300</i>	5,278	<i>5,191</i>	<i>5,163</i>

- = no data available

SAAR = Seasonally-adjusted annual rate

 (a) Fuel share weights of individual sector indices based on EIA *Manufacturing Energy Consumption Survey* .

(b) Total highway travel includes gasoline and diesel fuel vehicles.

(c) Includes electric power sector use of geothermal energy and non-biomass waste.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from U.S. Department of Commerce, Bureau of Economic Analysis; Federal Reserve System, Statistical release G17; Federal Highway Administration; and Federal Aviation Administration. Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model. U.S. macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Table 9b. U.S. Regional Macroeconomic Data

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Real Gross State Product (Billion \$2009)															
New England	971	980	988	992	996	1,001	1,006	1,011	1,015	1,019	1,022	1,025	983	1,003	1,020
Middle Atlantic	2,735	2,759	2,776	2,794	2,802	2,817	2,831	2,844	2,854	2,865	2,873	2,880	2,766	2,823	2,868
E. N. Central	2,480	2,504	2,523	2,535	2,543	2,556	2,569	2,579	2,586	2,590	2,595	2,598	2,510	2,562	2,592
W. N. Central	1,145	1,159	1,167	1,172	1,176	1,182	1,189	1,194	1,199	1,203	1,207	1,210	1,161	1,185	1,205
S. Atlantic	3,263	3,295	3,322	3,343	3,359	3,385	3,407	3,426	3,445	3,462	3,477	3,493	3,306	3,394	3,469
E. S. Central	815	823	829	833	836	842	847	851	854	857	860	862	825	844	858
W. S. Central	2,214	2,246	2,271	2,289	2,303	2,320	2,335	2,352	2,368	2,383	2,396	2,406	2,255	2,327	2,388
Mountain	1,197	1,210	1,222	1,230	1,238	1,249	1,258	1,266	1,273	1,281	1,289	1,295	1,215	1,253	1,285
Pacific	3,536	3,569	3,601	3,624	3,643	3,674	3,699	3,722	3,741	3,757	3,773	3,786	3,583	3,684	3,764
Industrial Output, Manufacturing (Index, Year 2012=100)															
New England	98.9	99.3	100.5	100.2	100.5	101.2	101.7	102.0	102.2	102.2	102.4	102.7	99.8	101.3	102.4
Middle Atlantic	98.1	98.4	99.2	99.2	99.5	100.1	100.7	101.2	101.5	101.6	101.8	102.0	98.7	100.4	101.7
E. N. Central	106.5	107.1	108.1	108.3	108.8	109.7	110.4	111.3	111.5	111.2	111.2	111.3	107.5	110.0	111.3
W. N. Central	104.0	104.6	105.9	106.6	107.0	107.7	108.5	109.3	109.8	109.8	110.2	110.6	105.3	108.1	110.1
S. Atlantic	107.8	108.7	109.9	110.3	110.7	111.5	112.3	112.9	113.2	113.3	113.6	113.9	109.2	111.8	113.5
E. S. Central	108.9	109.0	110.5	111.7	112.2	113.2	114.1	114.9	115.4	115.4	115.6	115.9	110.0	113.6	115.6
W. S. Central	97.5	99.0	100.0	101.1	101.8	102.7	103.6	104.3	104.8	105.0	105.5	105.9	99.4	103.1	105.3
Mountain	111.6	113.0	115.0	116.7	117.3	118.3	119.2	120.1	120.6	120.9	121.4	121.9	114.1	118.7	121.2
Pacific	103.6	103.7	104.0	105.5	105.9	106.7	107.4	108.0	108.4	108.5	109.0	109.4	104.2	107.0	108.8
Real Personal Income (Billion \$2009)															
New England	858	856	862	867	874	878	882	886	890	895	898	902	861	880	896
Middle Atlantic	2,217	2,227	2,239	2,250	2,268	2,279	2,289	2,298	2,307	2,317	2,326	2,333	2,233	2,284	2,321
E. N. Central	2,342	2,342	2,355	2,371	2,393	2,405	2,416	2,428	2,438	2,450	2,459	2,466	2,352	2,410	2,453
W. N. Central	1,082	1,091	1,095	1,106	1,117	1,124	1,131	1,138	1,144	1,152	1,158	1,163	1,094	1,128	1,154
S. Atlantic	3,080	3,088	3,108	3,131	3,161	3,183	3,205	3,225	3,244	3,268	3,288	3,308	3,101	3,193	3,277
E. S. Central	861	864	869	874	882	887	891	896	900	905	909	912	867	889	907
W. S. Central	1,876	1,885	1,897	1,913	1,934	1,947	1,958	1,970	1,982	1,997	2,009	2,019	1,893	1,952	2,002
Mountain	1,102	1,105	1,114	1,123	1,135	1,143	1,151	1,159	1,166	1,176	1,184	1,191	1,111	1,147	1,179
Pacific	2,670	2,689	2,709	2,729	2,754	2,770	2,786	2,801	2,815	2,833	2,850	2,864	2,700	2,778	2,840
Households (Thousands)															
New England	5,914	5,926	5,944	5,956	5,967	5,977	5,988	5,998	6,007	6,019	6,027	6,035	5,956	5,998	6,035
Middle Atlantic	16,210	16,249	16,300	16,332	16,359	16,379	16,405	16,431	16,457	16,486	16,505	16,525	16,332	16,431	16,525
E. N. Central	19,003	19,037	19,090	19,123	19,153	19,179	19,211	19,243	19,274	19,317	19,348	19,379	19,123	19,243	19,379
W. N. Central	8,604	8,627	8,658	8,681	8,703	8,723	8,746	8,767	8,789	8,813	8,832	8,851	8,681	8,767	8,851
S. Atlantic	25,469	25,561	25,679	25,774	25,868	25,958	26,052	26,144	26,237	26,337	26,422	26,507	25,774	26,144	26,507
E. S. Central	7,626	7,641	7,665	7,683	7,701	7,719	7,738	7,757	7,775	7,795	7,811	7,828	7,683	7,757	7,828
W. S. Central	14,686	14,731	14,794	14,845	14,895	14,945	14,998	15,051	15,106	15,164	15,215	15,267	14,845	15,051	15,267
Mountain	9,244	9,292	9,349	9,395	9,439	9,480	9,523	9,564	9,605	9,649	9,687	9,726	9,395	9,564	9,726
Pacific	18,859	18,903	18,967	19,012	19,059	19,105	19,157	19,210	19,264	19,322	19,371	19,422	19,012	19,210	19,422
Total Non-farm Employment (Millions)															
New England	7.4	7.5	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.6	7.6
Middle Atlantic	19.7	19.8	19.8	19.9	20.0	20.0	20.1	20.1	20.1	20.2	20.2	20.1	19.8	20.1	20.2
E. N. Central	22.1	22.2	22.3	22.3	22.4	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.2	22.5	22.6
W. N. Central	10.7	10.7	10.8	10.8	10.8	10.9	10.9	10.9	11.0	11.0	11.0	11.0	10.8	10.9	11.0
S. Atlantic	28.4	28.6	28.7	28.9	29.0	29.2	29.3	29.4	29.5	29.6	29.6	29.7	28.7	29.2	29.6
E. S. Central	8.1	8.2	8.2	8.2	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4
W. S. Central	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.0	18.1	18.1	18.2	17.5	17.8	18.1
Mountain	10.7	10.8	10.9	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.3	11.3	10.8	11.1	11.3
Pacific	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	24.0	24.1	24.1	24.2	23.4	23.9	24.1

- = no data available

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Regions refer to U.S. Census divisions.

 See "Census division" in EIA's Energy Glossary (<http://www.eia.doe.gov/glossary/index.html>) for a list of States in each region.

Historical data: Latest data available from U.S. Department of Commerce, Bureau of Economic Analysis; Federal Reserve System, Statistical release G17.

Minor discrepancies with published historical data are due to independent rounding.

Projections: Macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Table 9c. U.S. Regional Weather Data

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Heating Degree Days															
New England	3,056	912	70	2,306	3,129	853	127	2,134	3,169	884	127	2,134	6,343	6,242	6,314
Middle Atlantic	2,935	753	36	2,050	2,886	691	79	1,956	2,929	705	79	1,956	5,774	5,612	5,669
E. N. Central	3,212	826	60	2,337	3,191	744	125	2,210	3,134	726	125	2,210	6,436	6,269	6,195
W. N. Central	3,420	828	121	2,600	3,490	715	160	2,414	3,218	694	160	2,415	6,968	6,779	6,487
South Atlantic	1,444	219	2	970	1,298	194	13	965	1,411	196	13	963	2,634	2,470	2,583
E. S. Central	1,816	326	3	1,339	1,658	257	19	1,285	1,801	245	19	1,286	3,484	3,220	3,351
W. S. Central	1,193	142	3	912	1,175	94	4	791	1,151	81	4	791	2,249	2,065	2,027
Mountain	2,121	598	123	1,953	2,353	707	144	1,830	2,196	692	144	1,829	4,796	5,035	4,861
Pacific	1,445	542	84	1,099	1,592	558	85	1,208	1,488	565	85	1,209	3,170	3,443	3,347
U.S. Average	2,130	523	48	1,578	2,127	488	73	1,516	2,105	485	73	1,514	4,279	4,204	4,177
Heating Degree Days, Prior 10-year Average															
New England	3,172	817	119	2,121	3,166	820	111	2,122	3,143	819	104	2,113	6,229	6,220	6,179
Middle Atlantic	2,947	646	81	1,949	2,956	650	76	1,941	2,938	649	70	1,933	5,623	5,622	5,591
E. N. Central	3,209	692	116	2,210	3,196	697	112	2,198	3,184	696	108	2,191	6,228	6,204	6,179
W. N. Central	3,264	705	144	2,379	3,255	702	140	2,380	3,271	697	137	2,366	6,492	6,477	6,471
South Atlantic	1,476	177	12	974	1,480	177	11	964	1,455	176	11	956	2,639	2,632	2,598
E. S. Central	1,868	217	18	1,301	1,862	222	17	1,292	1,844	221	17	1,279	3,404	3,393	3,361
W. S. Central	1,181	80	4	801	1,183	85	4	807	1,195	84	3	788	2,066	2,079	2,070
Mountain	2,194	737	144	1,841	2,164	714	139	1,855	2,185	710	137	1,830	4,916	4,872	4,862
Pacific	1,465	592	84	1,182	1,444	582	83	1,174	1,447	579	84	1,163	3,322	3,283	3,273
U.S. Average	2,160	478	71	1,524	2,150	475	68	1,518	2,141	473	66	1,504	4,233	4,212	4,184
Cooling Degree Days															
New England	0	79	578	0	0	87	419	2	0	85	419	2	657	508	506
Middle Atlantic	0	176	708	4	0	152	538	5	0	151	538	5	888	695	694
E. N. Central	0	332	638	4	0	207	527	7	0	214	527	7	973	742	749
W. N. Central	2	440	686	6	3	255	660	11	3	263	660	11	1,134	929	938
South Atlantic	137	725	1,266	280	143	645	1,151	222	121	646	1,152	223	2,408	2,161	2,142
E. S. Central	37	650	1,161	82	27	497	1,039	66	28	508	1,039	66	1,930	1,630	1,641
W. S. Central	126	1,003	1,561	165	88	826	1,504	201	88	854	1,504	201	2,856	2,619	2,647
Mountain	21	509	1,001	51	12	417	931	75	18	422	932	75	1,583	1,435	1,447
Pacific	31	181	721	72	27	171	588	58	27	171	588	58	1,006	845	844
U.S. Average	52	476	958	98	47	389	849	91	43	396	850	91	1,584	1,376	1,380
Cooling Degree Days, Prior 10-year Average															
New England	0	81	433	1	0	79	455	1	0	84	465	1	515	535	551
Middle Atlantic	0	166	566	5	0	165	589	6	0	171	600	6	738	760	777
E. N. Central	3	228	533	7	3	242	548	7	3	244	566	8	771	800	820
W. N. Central	7	277	659	11	7	298	669	11	7	299	690	12	953	985	1,008
South Atlantic	119	675	1,161	227	120	684	1,180	239	126	685	1,187	239	2,182	2,223	2,236
E. S. Central	34	539	1,031	63	36	554	1,049	67	36	551	1,064	70	1,667	1,707	1,722
W. S. Central	100	887	1,532	204	103	897	1,552	205	101	892	1,556	210	2,722	2,758	2,761
Mountain	24	426	923	84	25	438	933	81	24	440	934	83	1,457	1,477	1,481
Pacific	30	185	621	78	31	185	631	76	31	186	624	77	914	923	918
U.S. Average	45	408	856	94	46	417	873	97	47	419	882	98	1,403	1,433	1,446

- = no data available

Notes: Regional degree days for each period are calculated by EIA as contemporaneous period population-weighted averages of state degree day data published by the National Oceanic and Atmospheric Administration (NOAA).

See *Change in Regional and U.S. Degree-Day Calculations* (http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf) for more information.

The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Regions refer to U.S. Census divisions. See "Census division" in EIA's Energy Glossary (<http://www.eia.gov/tools/glossary/>) for a list of states in each region.

Historical data: Latest data available from U.S. Department of Commerce, National Oceanic and Atmospheric Association (NOAA).

Projections: Based on forecasts by the NOAA Climate Prediction Center (<http://www.cpc.ncep.noaa.gov/pacdir/DDdir/NHOME3.shtml>).