



Short-Term Energy Outlook (STEO)

Forecast highlights

Global liquid fuels

- North Sea Brent crude oil spot prices averaged \$65 per barrel (b) in February, a decrease of \$4/b from the January level and the first month-over-month average decrease since June 2017. EIA forecasts Brent spot prices will average about \$62/b in both 2018 and 2019 compared with an average of \$54/b in 2017.
- EIA expects West Texas Intermediate (WTI) crude oil prices to average \$4/b lower than Brent prices in both 2018 and 2019. NYMEX WTI contract values for May 2018 delivery traded during the five-day period ending March 1, 2018, suggest a range of \$51/b to \$76/b encompasses the market expectation for June 2018 WTI prices at the 95% confidence level.
- EIA estimates that U.S. crude oil production averaged 10.3 million barrels per day (b/d) in February, up 230,000 b/d from the January level, when there were some well freeze-offs in the Permian and Bakken. EIA has reported that total U.S. crude oil production averaged 9.3 million b/d in 2017, ending the year with production of 9.9 million b/d in December. EIA projects that U.S. crude oil production will average 10.7 million b/d in 2018, which would mark the highest annual average U.S. crude oil production level, surpassing the previous record of 9.6 million b/d set in 1970. EIA forecasts that 2019 crude oil production will average 11.3 million b/d.
- EIA estimates that inventories of global petroleum and other liquid fuels declined by 0.6 million b/d in 2017. In this forecast, global inventories grow by about 0.4 million b/d in 2018 and by another 0.3 million b/d in 2019.

Natural gas

- EIA estimates that U.S. dry natural gas production averaged 73.6 billion cubic feet per day (Bcf/d) in 2017. EIA forecasts that natural gas production will average 81.7 Bcf/d in 2018, establishing a new record. That level would be 8.1 Bcf/d higher than the 2017 level and the highest annual average growth on record. EIA expects natural gas production will also increase in 2019, with forecast growth of 1.0 Bcf/d.
- In February, the U.S. benchmark Henry Hub natural gas spot price averaged \$2.66 per million British thermal units (MMBtu), down \$1.03/MMBtu from January. Winter

weather moderated in February after extremely cold temperatures in much of the country during the first half of January. U.S. heating degree days were an estimated 17% lower than the 10-year average for February, which contributed to lower consumption and prices.

- EIA expects natural gas prices to moderate in the coming months, based on a forecast of record natural gas production levels. EIA expects Henry Hub spot prices to average \$2.72/MMBtu in March and \$2.99/MMBtu for all of 2018. In 2019, EIA forecasts prices will average \$3.07/MMBtu. NYMEX contract values for June 2018 delivery that traded during the five-day period ending March 1, 2018, suggest that a range of \$2.16/MMBtu to \$3.49/MMBtu encompasses the market expectation for June Henry Hub natural gas prices at the 95% confidence level.

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 32% in 2017 to 34% in both 2018 and 2019. The forecast generation share from coal in both 2018 and 2019 averages 29%, down from 30% in 2017. The nuclear share of generation was 20% in 2017 and is forecast to average 20% in 2018 and 19% in 2019. Nonhydropower renewables provided slightly less than 10% of electricity generation in 2017 and are expected to provide 10% in 2018 and nearly 11% in 2019. The generation share of hydropower was over 7% in 2017 and is forecast to fall below 7% in both 2018 and 2019.
- EIA forecasts coal production to decline by almost 5% to 736 million short tons (MMst) in 2018 and then increase by 1% to 745 MMst in 2019. Lower expected global demand for U.S. coal exports (down 17% in 2018 and another 5% in 2019) and lower forecasts of coal use in the electric power sector (down 5% in 2018) contribute to the forecast of lower coal production.
- U.S. coal exports were 97 MMst in 2017, a 61% increase from the previous year, but they are expected to decrease in both 2018 and 2019. Exports of metallurgical coal, which are used in the steelmaking process, remain at 55 MMst in 2018 and decline to 54 MMst in 2019. Steam coal exports, which were an estimated 42 MMst in 2017, are expected to decline to 26 MMst and 23 MMst in 2018 and 2019, respectively.
- In 2017, EIA estimates that wind generated on average 697,000 megawatthours per day (MWh/d). EIA projects that generation from wind will rise to 722,000 MWh/d in 2018 and to 778,000 MWh/d in 2019. If factors such as precipitation and snowpack remain as forecast, conventional hydropower is projected to generate 747,000 MWh/d in 2019, [which would make it the first year that wind generation exceeds hydropower generation.](#)

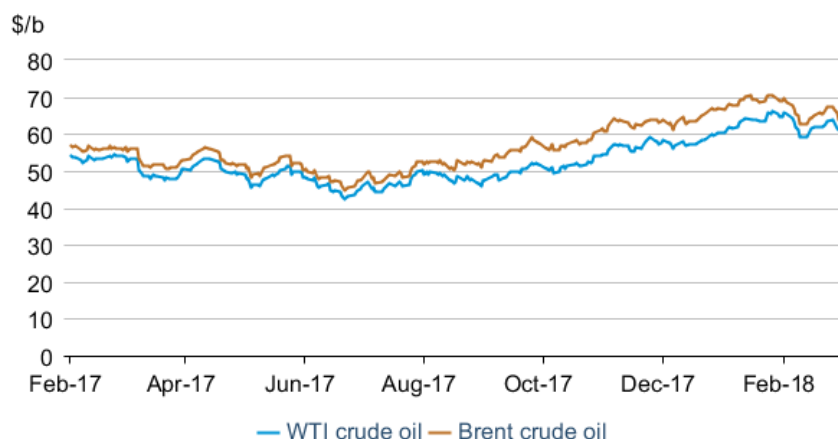
- Total solar electricity generation averaged an estimated 211,000 MWh/d in 2017. EIA projects that it will reach 246,000 MWh/d in 2018 and 294,000 MWh/d in 2019.
- After declining by 0.6% in 2017, EIA projects that energy-related carbon dioxide (CO₂) emissions will increase by 1.0% in 2018 and by another 0.8% in 2019. Energy-related CO₂ emissions are sensitive to changes in weather, economic growth, and energy prices.

Petroleum and natural gas markets review

Crude oil

Prices: The front-month futures price for North Sea Brent crude oil settled at \$63.83 per barrel (b) on March 1, a decrease of \$5.82/b since February 1. Front-month futures prices for West Texas Intermediate (WTI) crude oil for delivery at Cushing, Oklahoma, decreased \$4.81/b over the same period, settling at \$60.99/b on March 1 (**Figure 1**). February Brent and WTI monthly average spot prices were \$3.76/b and \$1.49/b lower than the January average spot prices, respectively.

Figure 1. Crude oil front-month futures prices



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

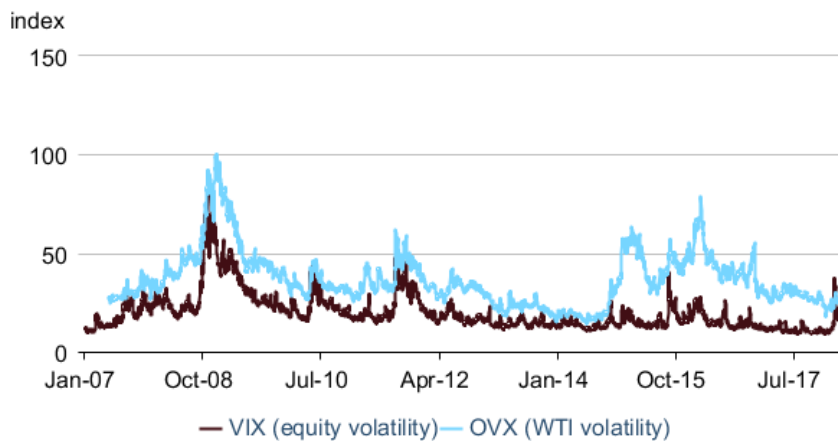
Crude oil prices declined in February after seven consecutive months of increases. Despite the recent price declines, most fundamental crude oil supply and demand indicators suggest global petroleum inventories are declining. EIA estimates that total commercial petroleum inventories in countries in the Organization for Economic Cooperation and Development (OECD) declined to 2.83 billion barrels in February 2018, a decrease of 211 million barrels since February 2017 and the largest annual decrease in inventories since 2003. Inventories are 40 million barrels (1.4%) higher than the five-year average level for February, the narrowest difference to five-year average levels since November 2014, suggesting an increasingly balanced market.

A significant increase in price volatility after prices started declining in equity and bond markets likely affected crude oil prices as well. The rolling 60-day [correlation between daily price](#)

changes of WTI crude oil and the S&P 500 index recently increased from near zero at the beginning of January to over 0.3 in late February. The VIX, a measure of implied volatility (the market’s expected range of near-term price changes) on S&P 500 index options, closed above the OVX, a measure of implied volatility on crude oil options prices, for four consecutive days in early February. Not only was this the first time since 2008 that the VIX closed above the OVX, but the VIX has only closed above the OVX four other times since the inception of the OVX in 2007 (**Figure 2**).

Under typical trading conditions, a single commodity would be expected to have higher volatility than an index whose underlying value consists of a basket of 500 large capitalization stocks, representing a variety of U.S. companies. Although the direct causes of increased equity market volatility remain uncertain, increased trading volume of inverse VIX [exchange-traded funds](#) (ETF) and exchange-traded notes, as well as direct selling of VIX futures contracts, could have contributed to the increase. A significant increase in volatility may have prompted the inverse VIX ETF to close positions. Several inverse VIX products have ceased trading, having lost more than 80% of their value in one day on the some of the highest trading volume in the many ETFs’ history. Both the VIX and the OVX have declined since their early February increases, but remain at higher levels than at the beginning of 2018.

Figure 2. Equity and crude oil volatility indices

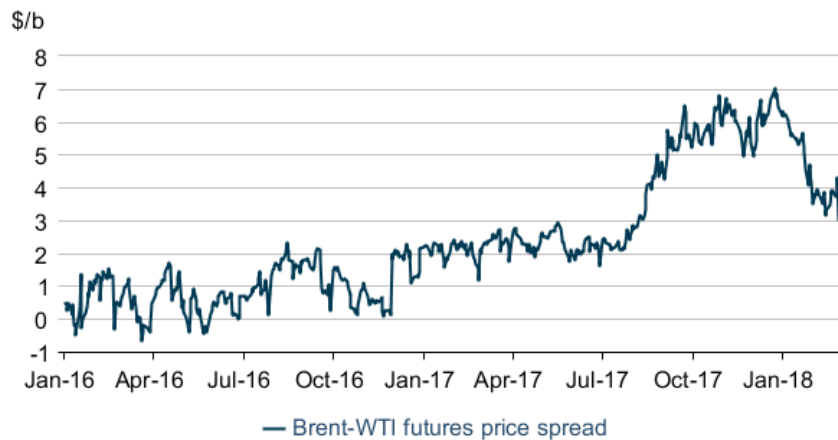


 Chicago Board of Options Exchange, as compiled by Bloomberg L.P.

The Brent-WTI price spread narrowed to its lowest level in more than six months, closing at \$3.03/b on March 1 (**Figure 3**). Several factors specific to the crude oil market in the U.S. midcontinent could be contributing to a narrowing spread. Crude oil stocks in Cushing, Oklahoma, the delivery point for the U.S. light sweet crude oil futures contract, continued to decrease in February. Stocks declined to less than 29 million barrels the week ending February 23, 2018, the [lowest level in more than three years](#), and they are [being drawn down](#) at the largest rolling 13-week rate since EIA began publishing Cushing stock levels in 2004. Recent trade press reports that the Keystone pipeline, which flows directly into Cushing, is still operating below nameplate capacity. Crude oil inputs to refineries in Petroleum Administration

for Defense District (PADD) 2 averaged 3.7 million barrels per day (b/d) for the [four weeks ending February 23, 2018](#), according to EIA's [Weekly Petroleum Supply Report](#), which would be an [all-time high for the month of February](#).

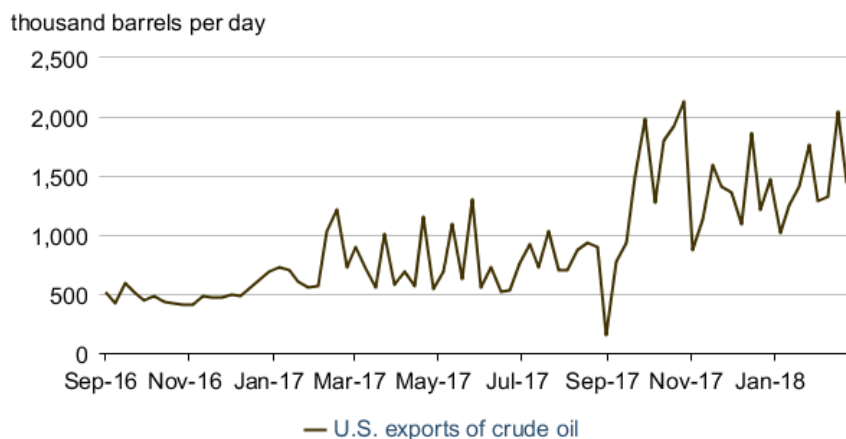
Figure 3. Brent-WTI futures price spread



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

In addition to high refinery demand in PADD 2, higher export demand could be contributing to near-term price support for U.S. light sweet crude oil. Weekly U.S. crude oil exports were more than 2 million b/d for the [week ending February 16, 2018](#), the second highest level since EIA began publishing [weekly export data](#) from U.S. Customs and Border Protection in 2016 (**Figure 4**). The Louisiana Offshore Oil Port (LOOP) is the largest crude oil import terminal in the United States, but recently the port began to test [loading crude oil for export](#). LOOP loaded a [Very Large Crude Carrier \(VLCC\)](#) on [February 18](#), which can hold approximately 2 million barrels of crude oil. Further infrastructure developments along the U.S. Gulf Coast (PADD 3) could allow more U.S. crude oil exports.

Figure 4. Weekly U.S. exports of crude oil



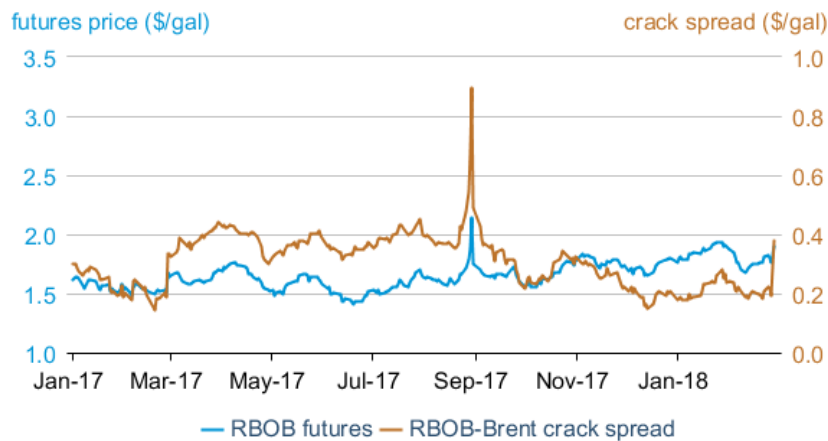
eia U.S. Energy Information Administration, Weekly Petroleum Status Report

Petroleum products

Gasoline prices: The 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 \$1.90 per gallon (gal) on March 1 (**Figure 5**), virtually unchanged since February 1. The RBOB-Brent crack spread (the difference between the price of RBOB and the price of Brent crude oil) increased by 14 cents/gal over the same period to settle at 38 cents/gal. The RBOB-Brent crack spread declined 5 cents/gal in February before the contract changed to summer grade gasoline on March 1, causing a significant one day increase in the crack spread.

Gasoline inventories, which typically decline between January and February, rose this year in all regions of the United States. [Total U.S. gasoline stocks](#) rose 6.3 million barrels between the weeks ending February 2 and February 23. Total U.S. gasoline stocks have declined between January and February on average by 5.8 million barrels over the past five years, according to EIA's *Petroleum Supply Monthly* (PSM).

Figure 5. Historical RBOB front-month futures prices and crack spread

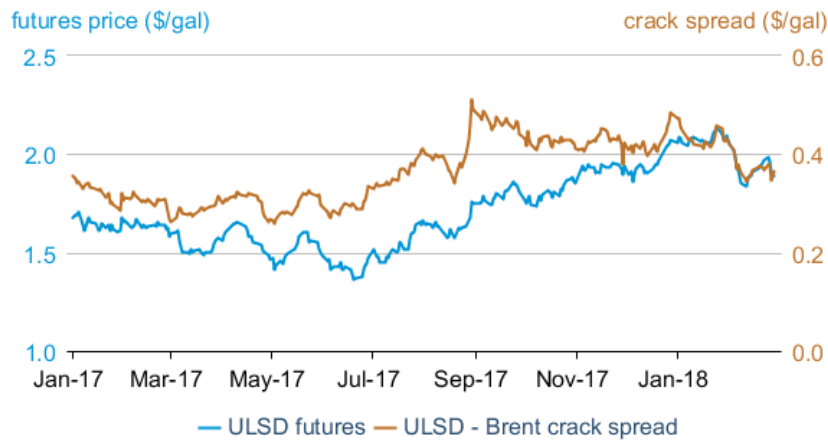


 CME Group, as compiled by Bloomberg L.P., RBOB=reformulated blendstock for oxygenate blending

Ultra-low sulfur diesel prices: The ultra-low sulfur diesel (ULSD) front-month futures price decreased 20 cents/gal from February 1 to settle at \$1.89/gal on March 1. The ULSD-Brent crack spread (the difference between the price of ULSD and the price of Brent crude oil) decreased by 7 cents/gal over the same period, settling at 37 cents/gal (**Figure 6**).

Similar to the movements seen in the gasoline market, distillate crack spreads fell in February, as distillate inventories rose counter-seasonally. In the Central Atlantic (PADD 1B), which includes the New York Harbor delivery point of the ULSD futures contract, [distillate inventories](#) rose 0.7 million barrels between the weeks ending February 2 and February 23. In comparison, [distillate inventories in PADD 1B](#) declined 2.7 million barrels on average between January and February in the past five years, according to the PSM. For much of February, the U.S. East Coast and the U.S. Northeast experienced [warmer-than-normal temperatures](#), which likely reduced demand for home heating.

Figure 6. Historical ULSD front-month futures price and crack spread

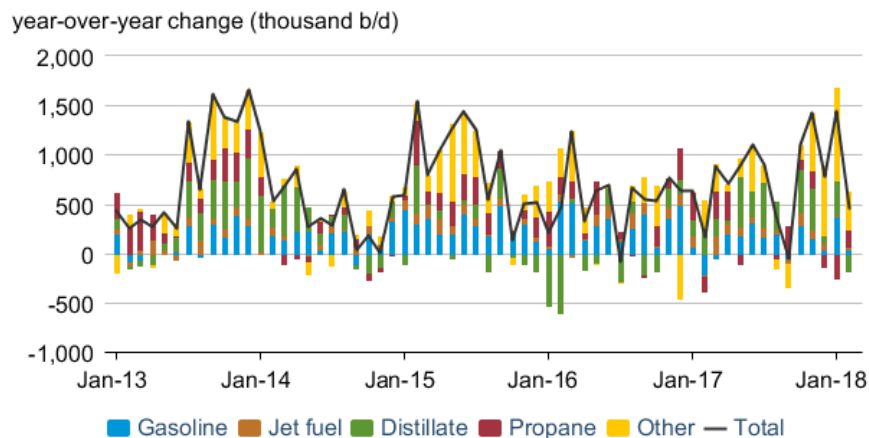


eia CME Group, as compiled by Bloomberg L.P., ULSD=ultra-low sulfur diesel

In recent months, year-over-year growth in total U.S. liquid fuels consumption and exports has accelerated to levels not seen since 2015. Since October 2017, year-over-year growth in total liquid fuels consumption and exports averaged 1.0 million b/d, with an increasing portion of the growth coming from [hydrocarbon gas liquids](#) (HGL), which includes propane and ethane (**Figure 7**).

EIA expects [U.S. liquid fuels consumption](#) to grow 0.47 million b/d (2.4%) in 2018, the highest growth rate since 2013. EIA projects that most of the consumption growth will come from natural gas-sourced products. HGL consumption is expected to account for 0.34 million b/d of total liquid fuels consumption growth. Ethane is expected to account for almost 65% of this HGL consumption growth, as [new domestic ethylene crackers](#) begin operating.

Figure 7. Total U.S. liquid fuels consumption plus exports growth

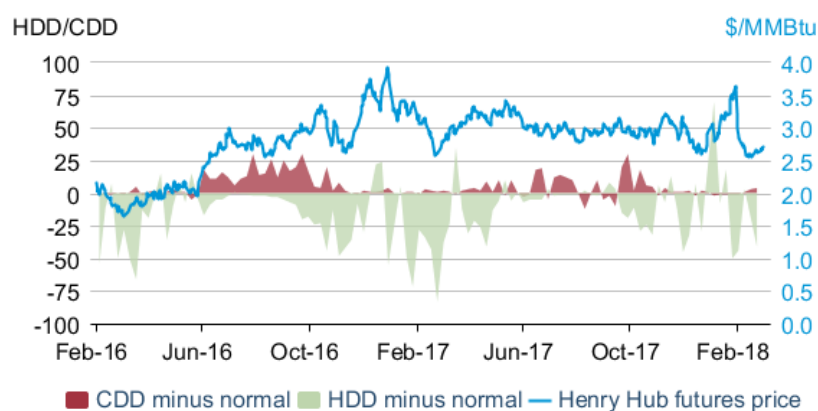


eia U.S. Energy Information Administration

Natural Gas

The front-month natural gas futures contract for delivery at Henry Hub settled at \$2.70/million British thermal units (MMBtu) on March 1, a decrease of 16 cents/MMBtu from February 1 **(Figure 8)**. Warmer weather in the second half of January and in February contributed to the fall in natural gas prices. U.S. population-weighted heating degree days (HDD) averaged 12% below normal for the four weeks ending February 22, which put downward pressure on natural gas prices throughout the month. The Henry Hub natural gas spot price averaged \$2.66/MMBtu in February, \$1.03/MMBtu lower than January.

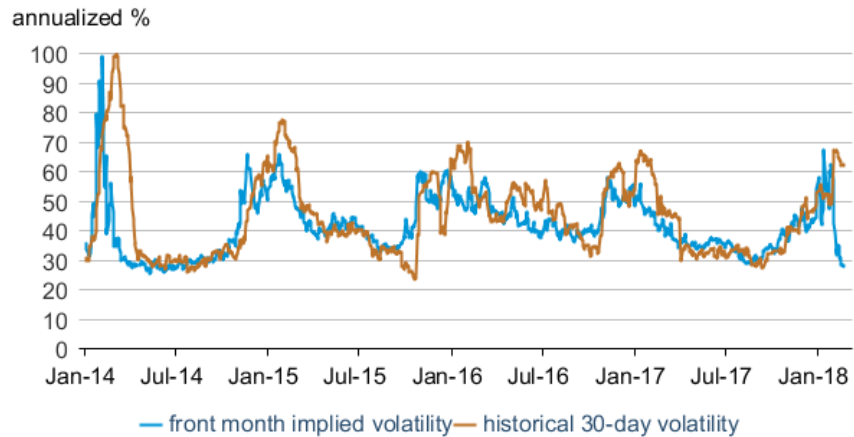
Figure 8. Natural gas front-month futures prices and actual minus historical average HDD and CDD



 CME Group and National Oceanic and Atmospheric Administration, as compiled by Bloomberg L.P.

The historical and implied volatilities of natural gas prices both increased in January, as typically happens each winter **(Figure 9)**. Historical volatility reached 67% on February 5, the highest level since January 2017, reflecting the price spikes at the beginning of January and significant price declines at the end of the month. Implied volatility, however, declined quickly at the end of January and fell to 26% on February 28, the lowest implied volatility since June 2014. Implied volatility represents the market's expectation about near-term price movements; as a result, the low natural gas price implied volatility may indicate that strong production growth will be sufficient to meet demand, despite inventories that are currently below their five-year average.

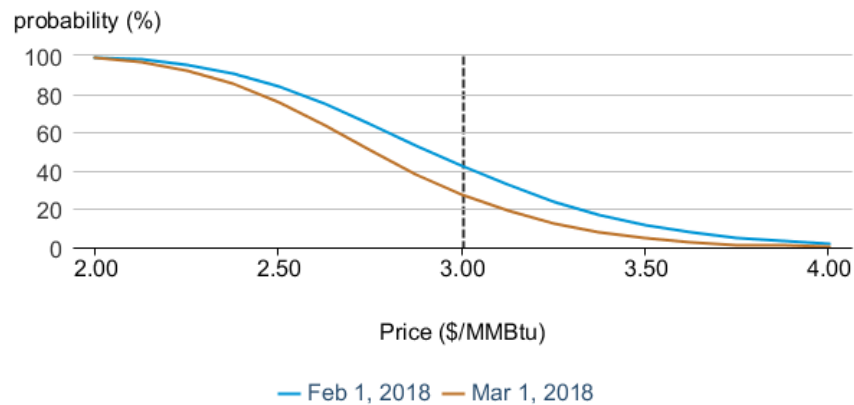
Figure 9. Natural gas historical and implied volatility



eia Bloomberg L.P.

Natural gas futures prices fell in the front-month contract, and substantial price decreases occurred in contracts several months into the future. These price declines significantly reduced the market-derived probability of the July 2018 Henry Hub futures contract expiring above \$3/MMBtu; the probabilities fell from 42% at the beginning of the month to 28% on March 1 (Figure 10). Natural gas inventory withdrawals for the four weeks ending February 23 were 53 billion cubic feet (9%) below the five-year average, which likely contributed to an improved supply outlook for the next several months.

Figure 10. Probability of the July 2018 Henry Hub contract expiring above specified price levels



eia U.S. Energy Information Administration, CME Group

Notable forecast changes

EIA forecasts U.S. hydrocarbon gas liquids consumption to average 2.94 million barrels per day (b/d) in 2018 and 3.19 million b/d in 2019, which are about 50,000 b/d and 60,000 b/d higher, respectively, than forecast in the February STEO. The March forecast incorporates higher-than-expected monthly ethane consumption data for November and December, which provide a higher starting point for expected growth from new [ethane-consuming petrochemical plants](#).

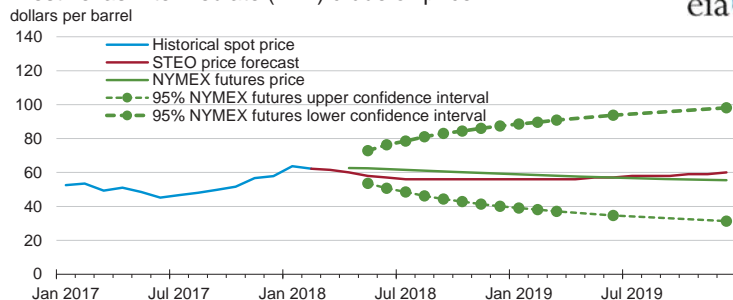
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Short-Term Energy Outlook

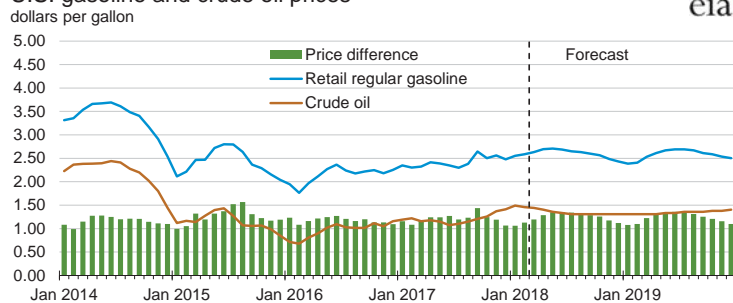
Chart Gallery for March 2018

West Texas Intermediate (WTI) crude oil price



Note: Confidence interval derived from options market information for the 5 trading days ending Mar 1, 2018. Intervals not calculated for months with sparse trading in near-the-money options contracts.
Source: Short-Term Energy Outlook, March 2018, and CME Group.

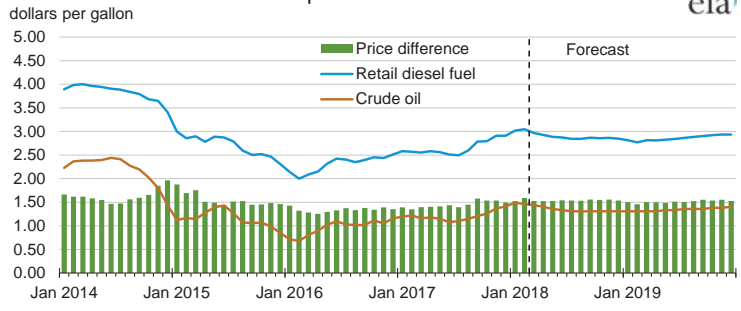
U.S. gasoline and crude oil prices



Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

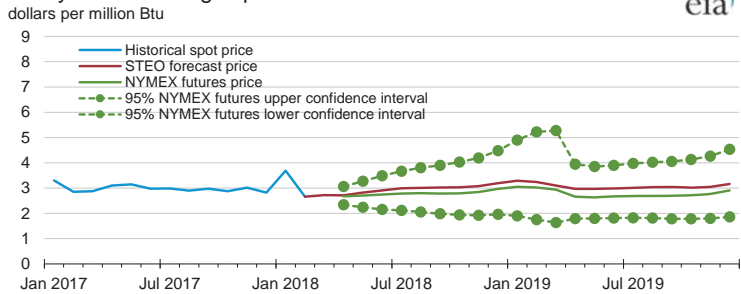
Source: Short-Term Energy Outlook, March 2018.

U.S. diesel fuel and crude oil prices



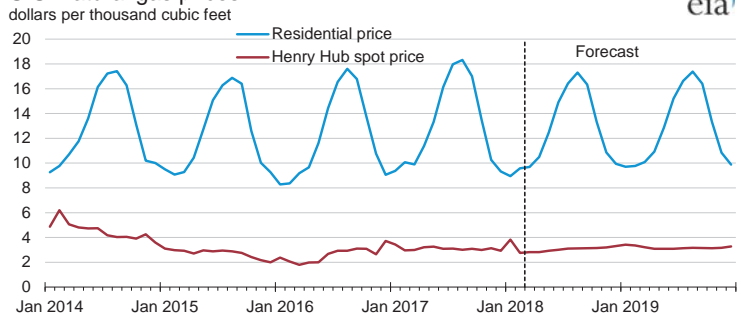
Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.
 Source: Short-Term Energy Outlook, March 2018.

Henry Hub natural gas price



Note: Confidence interval derived from options market information for the 5 trading days ending Mar 1, 2018. Intervals not calculated for months with sparse trading in near-the-money options contracts.
 Source: Short-Term Energy Outlook, March 2018, and CME Group.

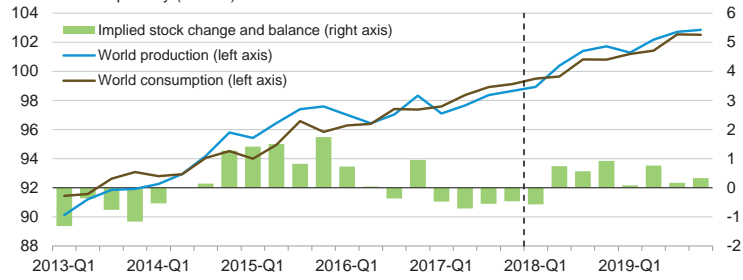
U.S. natural gas prices



Source: Short-Term Energy Outlook, March 2018, and Thomson Reuters.

World liquid fuels production and consumption balance

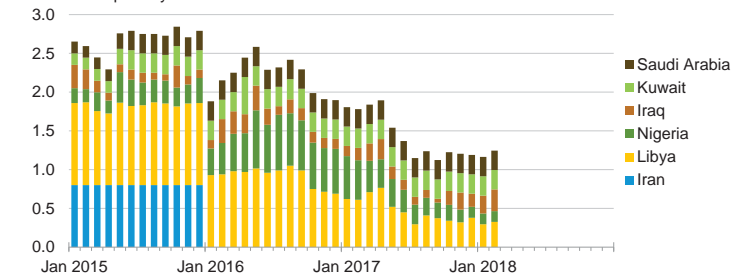
million barrels per day (MMb/d)



Source: Short-Term Energy Outlook, March 2018.

Estimated historical unplanned OPEC crude oil production outages

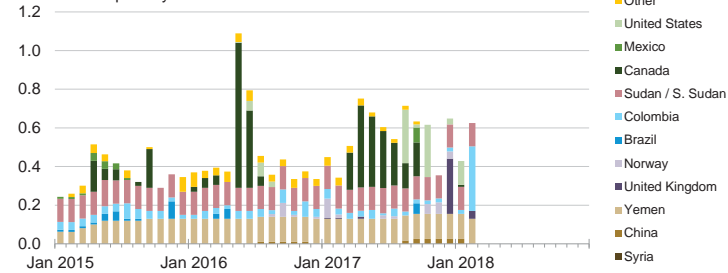
million barrels per day



Source: Short-Term Energy Outlook, March 2018.

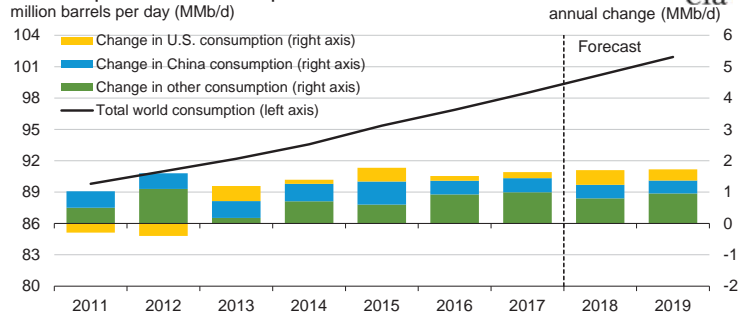
Estimated historical unplanned non-OPEC liquid fuels production outages

million barrels per day



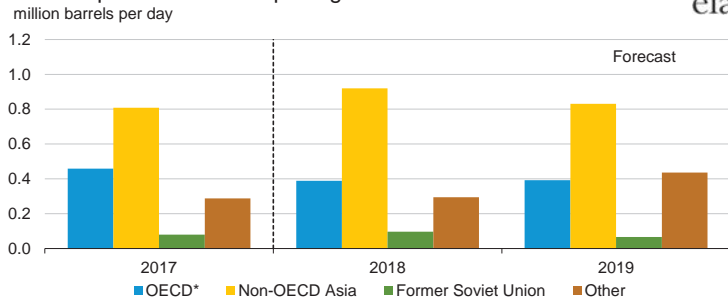
Source: Short-Term Energy Outlook, March 2018.

World liquid fuels consumption



Source: Short-Term Energy Outlook, March 2018.

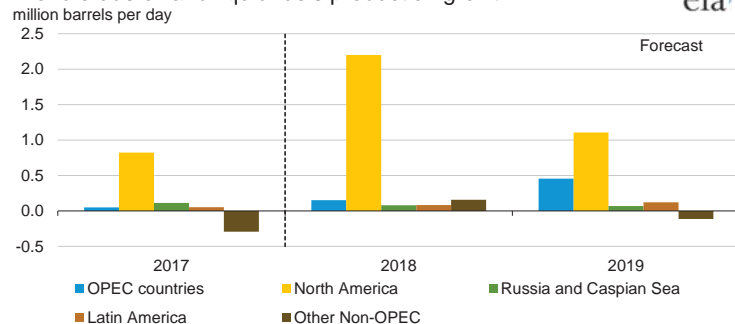
World liquid fuels consumption growth



* Countries belonging to the Organization for Economic Cooperation and Development

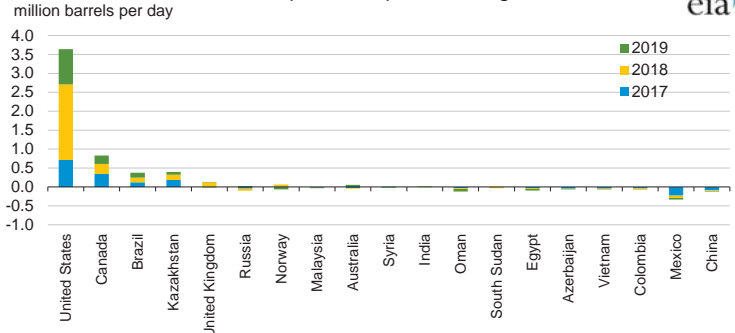
Source: Short-Term Energy Outlook, March 2018.

World crude oil and liquid fuels production growth



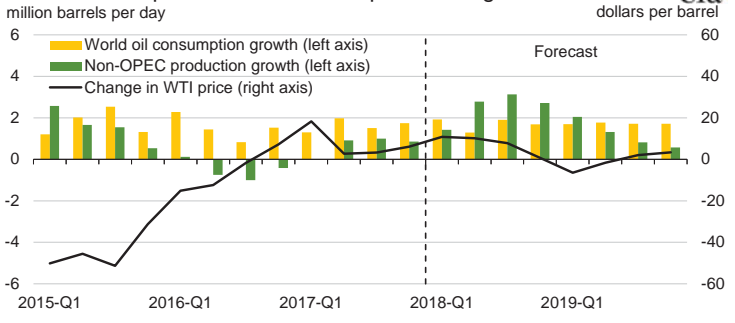
Source: Short-Term Energy Outlook, March 2018.

Non-OPEC crude oil and liquid fuels production growth



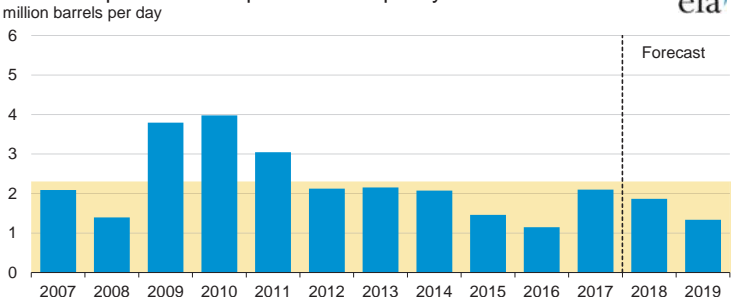
Source: Short-Term Energy Outlook, March 2018.

World consumption and non-OPEC production growth



Source: Short-Term Energy Outlook, March 2018.

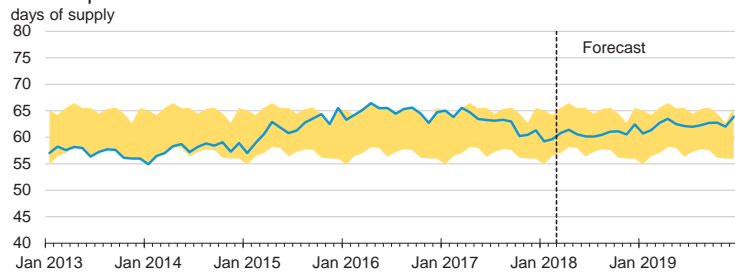
OPEC surplus crude oil production capacity



Note: Shaded area represents 2007-2017 average (2.3 million barrels per day).

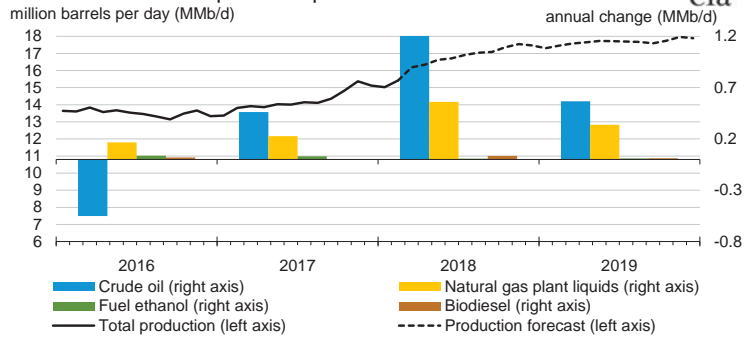
Source: Short-Term Energy Outlook, March 2018.

OECD commercial stocks of crude oil and other liquids



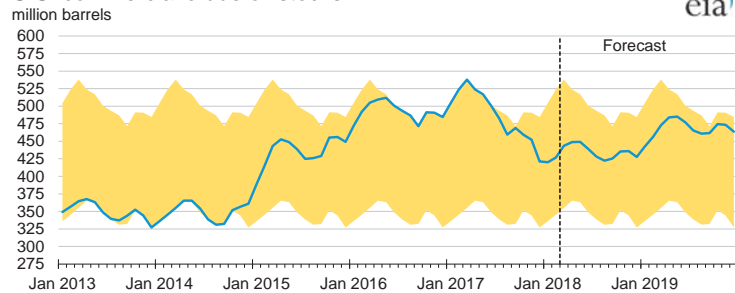
Note: Colored band around days of supply of crude oil and other liquids stocks represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.
Source: Short-Term Energy Outlook, March 2018.

U.S. crude oil and liquid fuels production



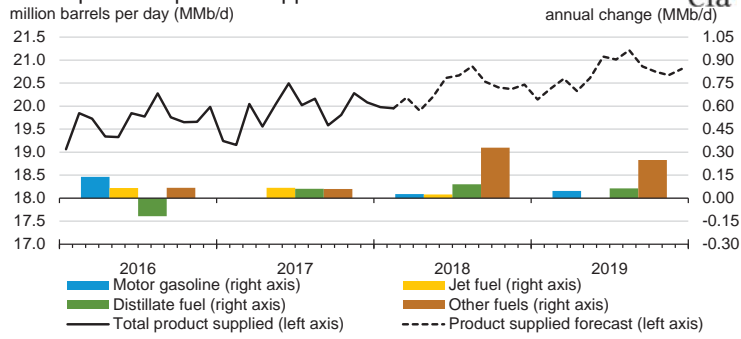
Source: Short-Term Energy Outlook, March 2018.

U.S. commercial crude oil stocks



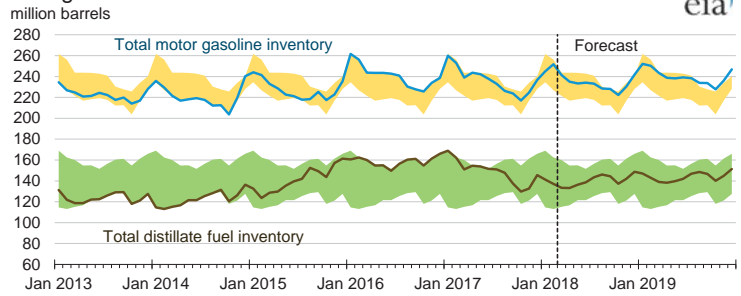
Note: Colored band around storage levels represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.
Source: Short-Term Energy Outlook, March 2018.

U.S. liquid fuels product supplied



Source: Short-Term Energy Outlook, March 2018.

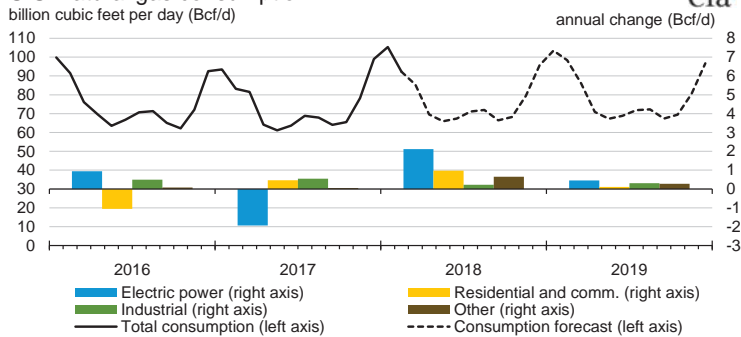
U.S. gasoline and distillate inventories



Note: Colored bands around storage levels represent the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

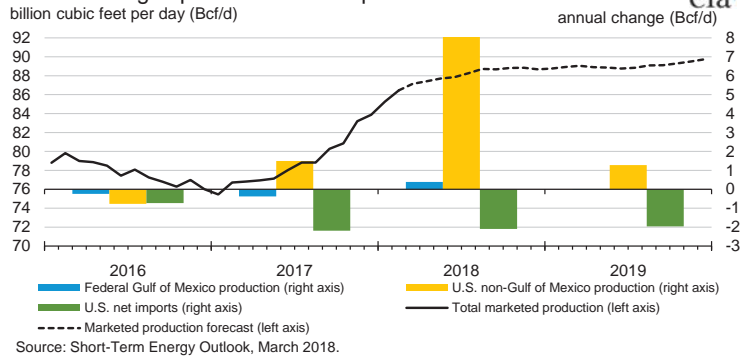
Source: Short-Term Energy Outlook, March 2018.

U.S. natural gas consumption

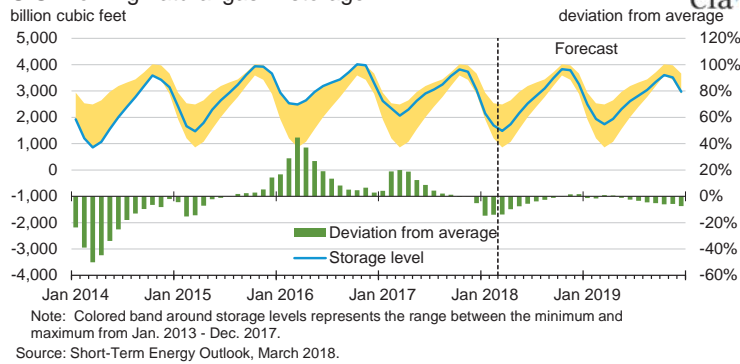


Source: Short-Term Energy Outlook, March 2018.

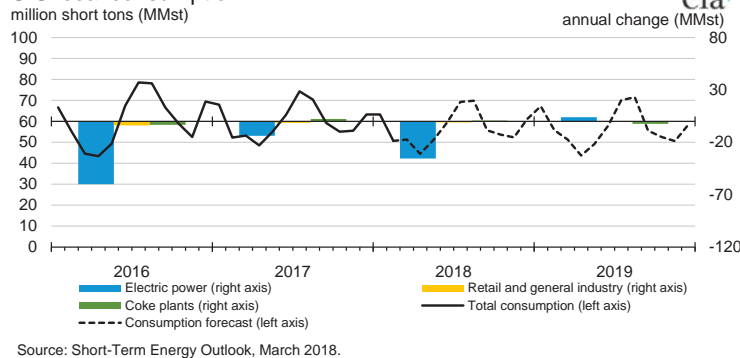
U.S. natural gas production and imports



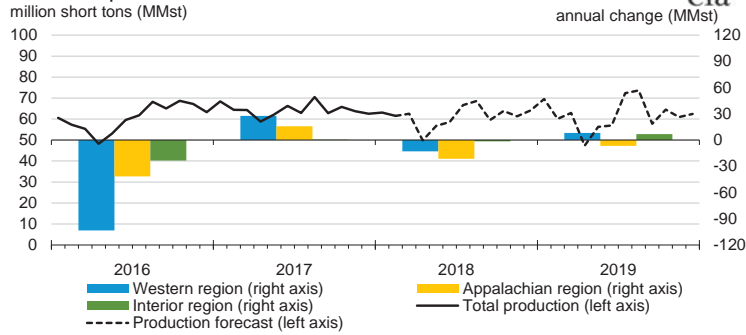
U.S. working natural gas in storage



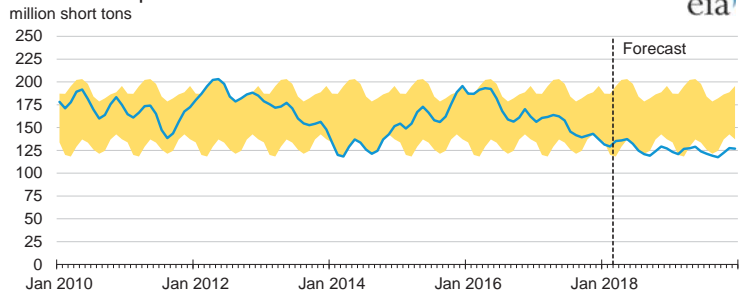
U.S. coal consumption



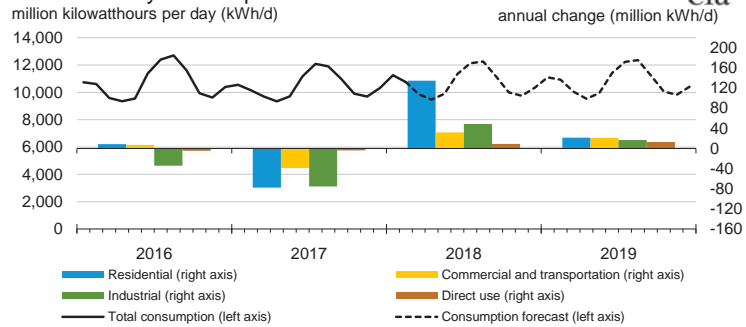
U.S. coal production



U.S. electric power coal stocks

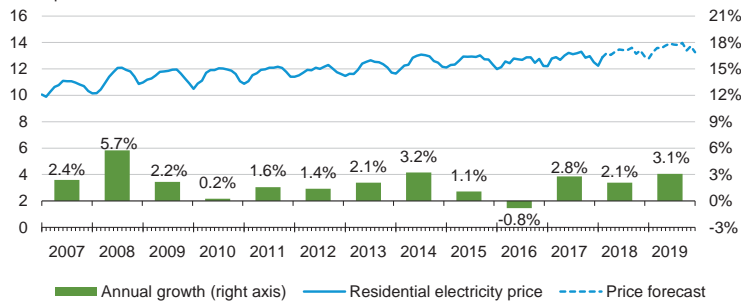


U.S. electricity consumption



U.S. residential electricity price

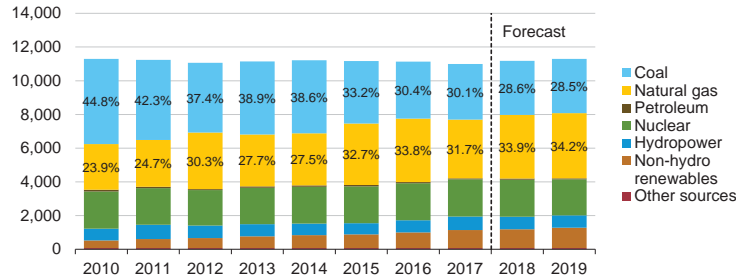
cents per kilowatthour



Source: Short-Term Energy Outlook, March 2018.

U.S. electricity generation by fuel, all sectors

thousand megawatthours per day

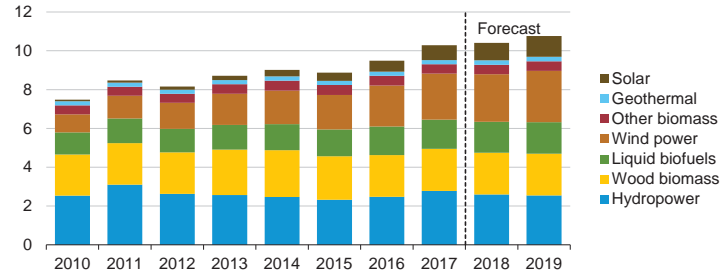


Note: Labels show percentage share of total generation provided by coal and natural gas.

Source: Short-Term Energy Outlook, March 2018.

U.S. renewable energy supply

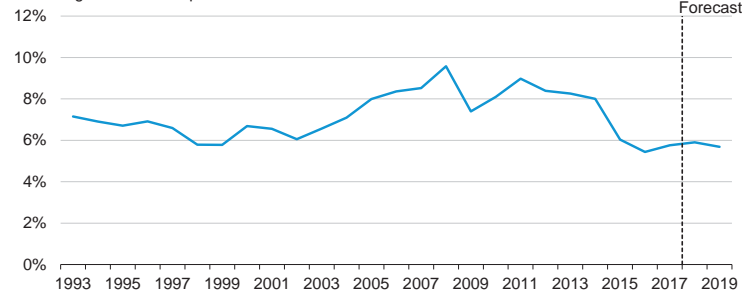
quadrillion British thermal units (Btu)



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.

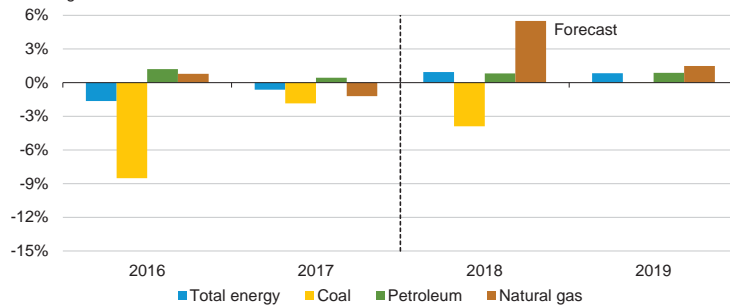
Source: Short-Term Energy Outlook, March 2018.

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



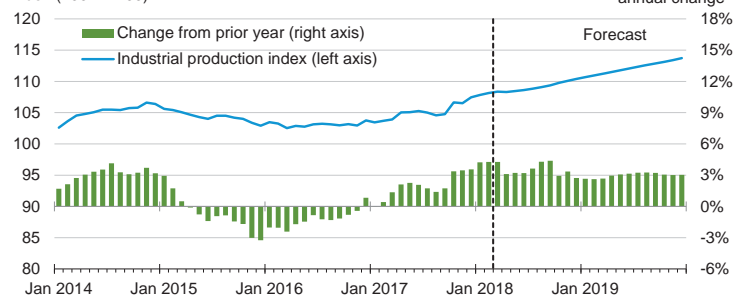
Source: Short-Term Energy Outlook, March 2018.

U.S. energy-related carbon dioxide emissions annual growth



Source: Short-Term Energy Outlook, March 2018.

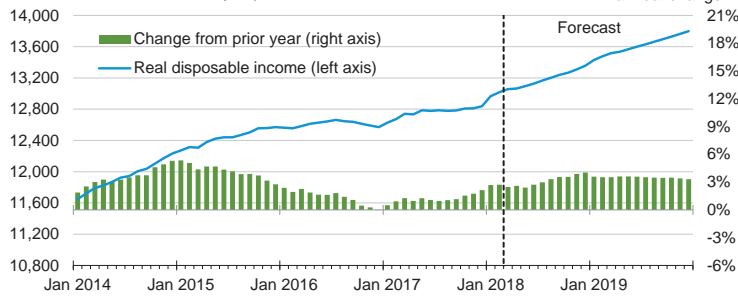
U.S. total industrial production index index (2007 = 100)



Source: Short-Term Energy Outlook, March 2018.

U.S. disposable income

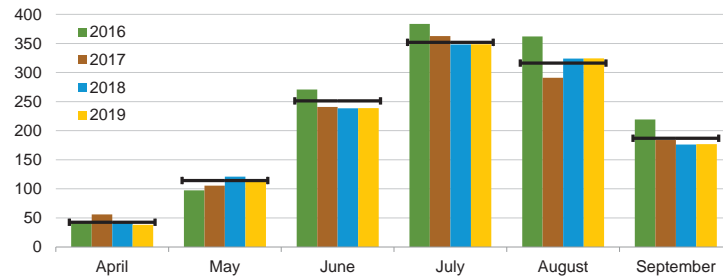
billion 2009 dollars, seasonally adjusted



Source: Short-Term Energy Outlook, March 2018.

U.S. summer cooling degree days

population-weighted

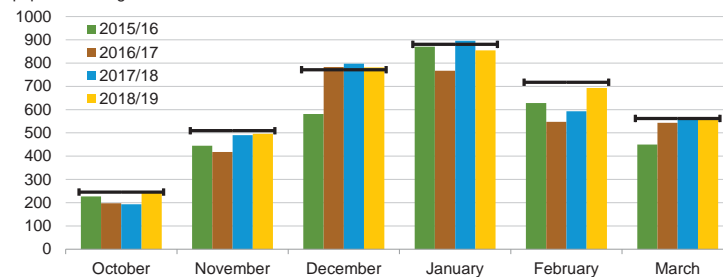


Note: EIA calculations based on from the National Oceanic and Atmospheric Administration data. Horizontal lines indicate each month's prior 10-year average (2008-2017). Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, March 2018.

U.S. winter heating degree days

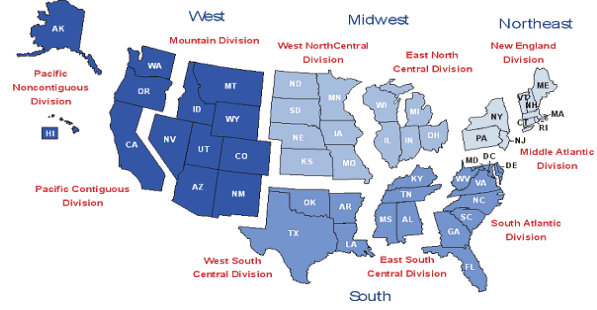
population-weighted



Note: EIA calculations based on National Oceanic and Atmospheric Administration (NOAA) data. Horizontal lines indicate each month's prior 10-year average (Oct 2007 - Mar 2017). Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, March 2018.

U.S. census regions and divisions



Source: Short-Term Energy Outlook, March 2018.

Table WF01. Average Consumer Prices and Expenditures for Heating Fuels During the Winter

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2018

Fuel / Region	Winter of							Forecast	
	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	% Change
Natural Gas									
Northeast									
Consumption (Mcf**)	80.7	66.5	76.1	84.1	84.7	67.8	72.5	75.5	4.1
Price (\$/mcf)	12.66	12.21	11.71	11.53	10.82	10.19	10.74	11.23	4.6
Expenditures (\$)	1,022	812	891	969	916	691	778	847	8.9
Midwest									
Consumption (Mcf)	80.3	65.4	77.6	88.1	83.1	67.7	68.9	76.9	11.7
Price (\$/mcf)	9.23	8.99	8.36	8.69	8.56	7.58	8.31	8.06	-3.0
Expenditures (\$)	740	587	648	766	711	513	573	620	8.3
South									
Consumption (Mcf)	49.3	40.8	46.5	52.1	50.5	40.7	38.6	44.9	16.4
Price (\$/mcf)	11.02	11.45	10.71	10.77	10.82	10.80	12.29	11.29	-8.1
Expenditures (\$)	543	468	498	561	546	440	474	507	6.9
West									
Consumption (Mcf)	49.4	49.1	48.6	46.4	41.5	45.9	46.8	44.0	-6.0
Price (\$/mcf)	9.67	9.35	9.13	9.96	10.72	9.93	10.69	10.51	-1.7
Expenditures (\$)	478	459	444	462	444	456	500	462	-7.6
U.S. Average									
Consumption (Mcf)	65.0	55.7	62.5	68.0	64.8	55.8	56.9	60.5	6.4
Price (\$/mcf)	10.46	10.25	9.72	9.97	9.91	9.30	10.12	9.87	-2.4
Expenditures (\$)	680	571	607	678	642	519	575	597	3.8
Heating Oil									
U.S. Average									
Consumption (gallons)	580.8	471.2	545.6	607.3	608.1	481.5	517.3	540.1	4.4
Price (\$/gallon)	3.38	3.73	3.87	3.88	3.04	2.06	2.41	2.77	14.9
Expenditures (\$)	1,966	1,757	2,114	2,353	1,849	992	1,247	1,495	19.9
Electricity									
Northeast									
Consumption (kWh***)	7,076	6,437	6,863	7,223	7,253	6,495	6,710	6,839	1.9
Price (\$/kwh)	0.154	0.154	0.152	0.163	0.168	0.164	0.164	0.167	1.9
Expenditures (\$)	1,091	993	1,046	1,177	1,219	1,066	1,102	1,145	3.9
Midwest									
Consumption (kWh)	8,733	7,898	8,588	9,169	8,857	8,031	8,096	8,558	5.7
Price (\$/kwh)	0.105	0.111	0.112	0.112	0.118	0.122	0.123	0.125	0.9
Expenditures (\$)	915	875	958	1,031	1,045	978	999	1,066	6.7
South									
Consumption (kWh)	8,221	7,467	7,974	8,381	8,281	7,461	7,315	7,792	6.5
Price (\$/kwh)	0.104	0.107	0.107	0.109	0.111	0.110	0.112	0.113	1.4
Expenditures (\$)	855	798	851	913	919	824	817	883	8.1
West									
Consumption (kWh)	7,217	7,192	7,151	6,982	6,602	6,955	7,027	6,812	-3.1
Price (\$/kwh)	0.112	0.115	0.119	0.123	0.127	0.130	0.132	0.136	3.3
Expenditures (\$)	809	825	848	861	836	903	925	927	0.1
U.S. Average									
Consumption (kWh)	7,843	7,252	7,671	7,981	7,801	7,242	7,227	7,519	4.0
Price (\$/kwh)	0.113	0.116	0.117	0.120	0.123	0.124	0.125	0.127	1.6
Expenditures (\$)	884	842	895	955	960	896	906	958	5.7

Table WF01. Average Consumer Prices and Expenditures for Heating Fuels During the Winter

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2018

Fuel / Region	Winter of							Forecast	
	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	% Change
Propane									
Northeast									
Consumption (gallons)	717.6	595.7	676.0	745.4	751.5	607.4	650.3	672.6	3.4
Price* (\$/gallon)	3.24	3.34	3.00	3.56	3.00	2.71	3.06	3.25	6.2
Expenditures (\$)	2,322	1,991	2,031	2,654	2,254	1,646	1,990	2,186	9.8
Midwest									
Consumption (gallons)	791.9	644.4	766.4	868.7	813.2	667.7	679.1	760.6	12.0
Price* (\$/gallon)	2.11	2.23	1.74	2.61	1.91	1.47	1.73	1.93	11.6
Expenditures (\$)	1,674	1,437	1,334	2,267	1,553	982	1,175	1,468	25.0
Number of households by primary space heating fuel (thousands)									
Northeast									
Natural gas	11,118	11,236	11,345	11,522	11,694	11,786	11,913	12,011	0.8
Heating oil	5,858	5,701	5,458	5,241	5,092	4,913	4,767	4,620	-3.1
Propane	744	761	813	845	855	888	899	901	0.2
Electricity	2,776	2,894	3,011	3,036	3,090	3,243	3,356	3,421	1.9
Wood	512	548	582	585	569	515	442	388	-12.1
Other/None	315	324	377	436	437	430	445	468	5.1
Midwest									
Natural gas	17,977	18,019	18,054	18,072	18,190	18,204	18,151	18,022	-0.7
Heating oil	419	393	360	336	319	301	283	263	-7.1
Propane	2,073	2,037	2,063	2,088	2,083	2,074	2,061	2,050	-0.5
Electricity	4,922	5,119	5,333	5,422	5,509	5,726	5,926	6,111	3.1
Wood	618	631	640	632	616	584	566	553	-2.3
Other/None	289	282	319	353	350	352	363	375	3.3
South									
Natural gas	13,657	13,636	13,681	13,793	13,907	13,954	14,029	14,013	-0.1
Heating oil	853	790	738	698	681	653	624	595	-4.6
Propane	2,098	2,024	1,982	1,943	1,923	1,900	1,875	1,831	-2.3
Electricity	26,555	27,283	27,857	28,230	28,817	29,521	30,111	30,619	1.7
Wood	599	609	612	616	592	547	545	569	4.4
Other/None	309	304	367	419	407	414	423	429	1.5
West									
Natural gas	15,020	15,021	15,009	15,059	15,213	15,317	15,432	15,456	0.2
Heating oil	279	261	247	234	225	220	212	202	-4.9
Propane	914	885	909	930	914	926	921	901	-2.3
Electricity	8,126	8,439	8,671	8,754	8,919	9,214	9,460	9,689	2.4
Wood	725	736	728	744	748	717	714	718	0.7
Other/None	850	829	903	1,015	1,074	1,082	1,097	1,156	5.4
U.S. Totals									
Natural gas	57,771	57,912	58,088	58,446	59,004	59,262	59,525	59,502	0.0
Heating oil	7,408	7,145	6,803	6,509	6,317	6,087	5,885	5,679	-3.5
Propane	5,829	5,707	5,766	5,806	5,776	5,787	5,756	5,683	-1.3
Electricity	42,380	43,734	44,873	45,442	46,335	47,704	48,854	49,841	2.0
Wood	2,454	2,524	2,563	2,576	2,526	2,362	2,266	2,229	-1.7
Other/None	1,763	1,739	1,965	2,222	2,269	2,278	2,328	2,428	4.3
Heating degree days									
Northeast	5,338	4,219	4,965	5,596	5,647	4,321	4,699	4,922	4.7
Midwest	5,774	4,485	5,544	6,451	6,002	4,688	4,792	5,493	14.6
South	2,629	2,020	2,428	2,784	2,689	2,013	1,881	2,291	21.8
West	3,259	3,231	3,182	2,990	2,567	2,955	3,043	2,797	-8.1
U.S. Average	3,939	3,225	3,721	4,110	3,881	3,202	3,257	3,534	8.5

Note: Winter covers the period October 1 through March 31. Fuel prices are nominal prices. Fuel consumption per household is based only on households that use that fuel as the primary space-heating fuel. Included in fuel consumption is consumption for water heating, appliances, and lighting (electricity). Per-household consumption based on an average of EIA 2005 and 2009 Residential Energy Consumption Surveys corrected for actual and projected heating degree days. Number of households using heating oil includes kerosene.

* Prices exclude taxes

** thousand cubic feet

*** kilowatthour

Table 1. U.S. Energy Markets Summary

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Energy Supply															
Crude Oil Production (a) (million barrels per day)	8.99	9.10	9.29	9.89	<i>10.25</i>	<i>10.58</i>	<i>10.79</i>	<i>11.17</i>	<i>11.30</i>	<i>11.30</i>	<i>11.14</i>	<i>11.34</i>	9.32	<i>10.70</i>	<i>11.27</i>
Dry Natural Gas Production (billion cubic feet per day)	71.28	72.09	74.01	76.95	<i>80.33</i>	<i>81.57</i>	<i>82.36</i>	<i>82.52</i>	<i>82.59</i>	<i>82.48</i>	<i>82.59</i>	<i>83.00</i>	73.60	<i>81.70</i>	<i>82.67</i>
Coal Production (million short tons)	197	187	196	192	<i>187</i>	<i>165</i>	<i>195</i>	<i>189</i>	<i>192</i>	<i>160</i>	<i>204</i>	<i>188</i>	772	<i>736</i>	<i>745</i>
Energy Consumption															
Liquid Fuels (million barrels per day)	19.49	20.03	19.92	20.05	<i>20.04</i>	<i>20.24</i>	<i>20.69</i>	<i>20.41</i>	<i>20.37</i>	<i>20.67</i>	<i>21.03</i>	<i>20.74</i>	19.88	<i>20.35</i>	<i>20.71</i>
Natural Gas (billion cubic feet per day)	86.15	62.96	66.97	80.93	<i>94.38</i>	<i>67.64</i>	<i>69.87</i>	<i>81.12</i>	<i>95.90</i>	<i>69.01</i>	<i>70.53</i>		74.22	<i>78.19</i>	<i>79.36</i>
Coal (b) (million short tons)	173	167	204	174	<i>165</i>	<i>155</i>	<i>195</i>	<i>167</i>	<i>174</i>	<i>151</i>	<i>197</i>	<i>162</i>	718	<i>682</i>	<i>684</i>
Electricity (billion kilowatt hours per day)	10.13	10.08	11.66	9.98	<i>10.62</i>	<i>10.24</i>	<i>11.86</i>	<i>10.03</i>	<i>10.69</i>	<i>10.30</i>	<i>11.96</i>	<i>10.10</i>	10.47	<i>10.69</i>	<i>10.76</i>
Renewables (c) (quadrillion Btu)	2.80	3.00	2.58	2.67	<i>2.76</i>	<i>2.96</i>	<i>2.71</i>	<i>2.72</i>	<i>2.79</i>	<i>3.08</i>	<i>2.82</i>	<i>2.84</i>	11.05	<i>11.15</i>	<i>11.52</i>
Total Energy Consumption (d) (quadrillion Btu)	25.12	23.28	24.44	24.99	<i>25.58</i>	<i>23.23</i>	<i>24.53</i>	<i>24.76</i>	<i>25.94</i>	<i>23.50</i>	<i>24.80</i>	<i>24.94</i>	97.83	<i>98.10</i>	<i>99.18</i>
Energy Prices															
Crude Oil West Texas Intermediate Spot (dollars per barrel)	51.64	48.15	48.16	55.27	<i>62.46</i>	<i>58.33</i>	<i>56.00</i>	<i>56.00</i>	<i>56.00</i>	<i>56.66</i>	<i>58.00</i>	<i>59.33</i>	50.79	<i>58.17</i>	<i>57.51</i>
Natural Gas Henry Hub Spot (dollars per million Btu)	3.01	3.08	2.95	2.90	<i>3.02</i>	<i>2.81</i>	<i>3.01</i>	<i>3.10</i>	<i>3.21</i>	<i>2.97</i>	<i>3.03</i>	<i>3.07</i>	2.99	<i>2.99</i>	<i>3.07</i>
Coal (dollars per million Btu)	2.08	2.12	2.07	2.04	<i>2.20</i>	<i>2.20</i>	<i>2.21</i>	<i>2.19</i>	<i>2.21</i>	<i>2.19</i>	<i>2.22</i>	<i>2.18</i>	2.08	<i>2.20</i>	<i>2.20</i>
Macroeconomic															
Real Gross Domestic Product (billion chained 2009 dollars - SAAR)	16,903	17,031	17,164	17,272	<i>17,369</i>	<i>17,489</i>	<i>17,605</i>	<i>17,723</i>	<i>17,836</i>	<i>17,951</i>	<i>18,056</i>	<i>18,157</i>	17,093	<i>17,546</i>	<i>18,000</i>
Percent change from prior year	2.0	2.2	2.3	2.5	<i>2.8</i>	<i>2.7</i>	<i>2.6</i>	<i>2.6</i>	<i>2.7</i>	<i>2.6</i>	<i>2.6</i>	<i>2.5</i>	2.3	<i>2.7</i>	<i>2.6</i>
GDP Implicit Price Deflator (Index, 2009=100)	112.8	113.0	113.6	114.3	<i>115.1</i>	<i>115.8</i>	<i>116.5</i>	<i>117.3</i>	<i>118.0</i>	<i>118.8</i>	<i>119.5</i>	<i>120.2</i>	113.4	<i>116.2</i>	<i>119.1</i>
Percent change from prior year	2.0	1.6	1.8	1.9	<i>2.0</i>	<i>2.5</i>	<i>2.5</i>	<i>2.6</i>	<i>2.5</i>	<i>2.5</i>	<i>2.6</i>	<i>2.5</i>	1.8	<i>2.4</i>	<i>2.5</i>
Real Disposable Personal Income (billion chained 2009 dollars - SAAR)	12,680	12,766	12,783	12,819	<i>13,013</i>	<i>13,095</i>	<i>13,202</i>	<i>13,311</i>	<i>13,475</i>	<i>13,568</i>	<i>13,663</i>	<i>13,762</i>	12,762	<i>13,155</i>	<i>13,617</i>
Percent change from prior year	0.9	1.1	1.1	1.8	<i>2.6</i>	<i>2.6</i>	<i>3.3</i>	<i>3.8</i>	<i>3.5</i>	<i>3.6</i>	<i>3.5</i>	<i>3.4</i>	1.2	<i>3.1</i>	<i>3.5</i>
Manufacturing Production Index (Index, 2012=100)	103.7	104.5	104.0	105.9	<i>106.5</i>	<i>106.9</i>	<i>107.5</i>	<i>108.6</i>	<i>109.5</i>	<i>110.3</i>	<i>110.9</i>	<i>111.6</i>	104.5	<i>107.4</i>	<i>110.6</i>
Percent change from prior year	0.8	1.8	1.3	2.7	<i>2.7</i>	<i>2.3</i>	<i>3.4</i>	<i>2.6</i>	<i>2.9</i>	<i>3.2</i>	<i>3.2</i>	<i>2.7</i>	1.7	<i>2.7</i>	<i>3.0</i>
Weather															
U.S. Heating Degree-Days	1,858	428	65	1,481	<i>2,054</i>	<i>490</i>	<i>75</i>	<i>1,526</i>	<i>2,114</i>	<i>499</i>	<i>75</i>	<i>1,524</i>	3,831	<i>4,145</i>	<i>4,212</i>
U.S. Cooling Degree-Days	70	402	838	114	<i>51</i>	<i>401</i>	<i>848</i>	<i>91</i>	<i>43</i>	<i>392</i>	<i>850</i>	<i>92</i>	1,424	<i>1,392</i>	<i>1,376</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Crude Oil (dollars per barrel)															
West Texas Intermediate Spot Average	51.64	48.15	48.16	55.27	<i>62.46</i>	<i>58.33</i>	<i>56.00</i>	<i>56.00</i>	<i>56.00</i>	<i>56.66</i>	<i>58.00</i>	<i>59.33</i>	50.79	<i>58.17</i>	<i>57.51</i>
Brent Spot Average	53.57	49.59	52.09	61.42	<i>66.30</i>	<i>62.33</i>	<i>60.00</i>	<i>60.00</i>	<i>60.00</i>	<i>60.66</i>	<i>62.00</i>	<i>63.33</i>	54.15	<i>62.13</i>	<i>61.51</i>
U.S. Imported Average	47.94	46.12	47.49	55.24	<i>59.00</i>	<i>54.85</i>	<i>52.50</i>	<i>52.50</i>	<i>52.50</i>	<i>53.17</i>	<i>54.50</i>	<i>55.83</i>	48.99	<i>54.84</i>	<i>53.98</i>
U.S. Refiner Average Acquisition Cost	49.91	47.66	48.32	56.67	<i>61.48</i>	<i>57.31</i>	<i>55.00</i>	<i>55.00</i>	<i>55.00</i>	<i>55.68</i>	<i>57.00</i>	<i>58.34</i>	50.65	<i>57.15</i>	<i>56.52</i>
U.S. Liquid Fuels (cents per gallon)															
Refiner Prices for Resale															
Gasoline	163	165	172	175	<i>187</i>	<i>192</i>	<i>184</i>	<i>171</i>	<i>170</i>	<i>188</i>	<i>187</i>	<i>176</i>	169	<i>184</i>	<i>181</i>
Diesel Fuel	162	155	169	190	<i>203</i>	<i>194</i>	<i>191</i>	<i>190</i>	<i>186</i>	<i>189</i>	<i>195</i>	<i>198</i>	169	<i>194</i>	<i>192</i>
Heating Oil	154	144	154	179	<i>200</i>	<i>184</i>	<i>181</i>	<i>182</i>	<i>182</i>	<i>177</i>	<i>188</i>	<i>190</i>	160	<i>189</i>	<i>180</i>
Refiner Prices to End Users															
Jet Fuel	158	150	162	181	<i>199</i>	<i>188</i>	<i>185</i>	<i>184</i>	<i>184</i>	<i>184</i>	<i>191</i>	<i>194</i>	163	<i>189</i>	<i>188</i>
No. 6 Residual Fuel Oil (a)	128	120	124	140	<i>151</i>	<i>142</i>	<i>137</i>	<i>136</i>	<i>137</i>	<i>136</i>	<i>140</i>	<i>143</i>	129	<i>142</i>	<i>139</i>
Retail Prices Including Taxes															
Gasoline Regular Grade (b)	233	238	244	251	<i>259</i>	<i>270</i>	<i>263</i>	<i>249</i>	<i>245</i>	<i>266</i>	<i>266</i>	<i>254</i>	242	<i>260</i>	<i>258</i>
Gasoline All Grades (b)	244	250	255	263	<i>271</i>	<i>281</i>	<i>274</i>	<i>261</i>	<i>256</i>	<i>277</i>	<i>278</i>	<i>267</i>	253	<i>272</i>	<i>270</i>
On-highway Diesel Fuel	257	255	263	287	<i>301</i>	<i>289</i>	<i>285</i>	<i>286</i>	<i>280</i>	<i>283</i>	<i>288</i>	<i>293</i>	265	<i>290</i>	<i>286</i>
Heating Oil	247	238	234	265	<i>285</i>	<i>275</i>	<i>272</i>	<i>278</i>	<i>284</i>	<i>272</i>	<i>275</i>	<i>285</i>	251	<i>280</i>	<i>282</i>
Natural Gas															
Henry Hub Spot (dollars per thousand cubic feet)	3.12	3.19	3.06	3.01	<i>3.13</i>	<i>2.92</i>	<i>3.12</i>	<i>3.22</i>	<i>3.33</i>	<i>3.08</i>	<i>3.14</i>	<i>3.19</i>	3.10	<i>3.10</i>	<i>3.19</i>
Henry Hub Spot (dollars per million Btu)	3.01	3.08	2.95	2.90	<i>3.02</i>	<i>2.81</i>	<i>3.01</i>	<i>3.10</i>	<i>3.21</i>	<i>2.97</i>	<i>3.03</i>	<i>3.07</i>	2.99	<i>2.99</i>	<i>3.07</i>
U.S. Retail Prices (dollars per thousand cubic feet)															
Industrial Sector	4.50	4.11	3.89	4.00	<i>4.46</i>	<i>3.80</i>	<i>3.97</i>	<i>4.36</i>	<i>4.69</i>	<i>4.02</i>	<i>4.02</i>	<i>4.36</i>	4.14	<i>4.17</i>	<i>4.29</i>
Commercial Sector	7.71	8.33	8.68	7.56	<i>7.62</i>	<i>8.01</i>	<i>8.58</i>	<i>7.93</i>	<i>7.85</i>	<i>8.31</i>	<i>8.70</i>	<i>7.96</i>	7.87	<i>7.88</i>	<i>8.05</i>
Residential Sector	9.73	13.00	17.74	10.19	<i>9.34</i>	<i>11.97</i>	<i>16.68</i>	<i>10.74</i>	<i>9.83</i>	<i>12.35</i>	<i>16.79</i>	<i>10.70</i>	10.92	<i>10.66</i>	<i>10.94</i>
U.S. Electricity															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	2.08	2.12	2.07	2.04	<i>2.20</i>	<i>2.20</i>	<i>2.21</i>	<i>2.19</i>	<i>2.21</i>	<i>2.19</i>	<i>2.22</i>	<i>2.18</i>	2.08	<i>2.20</i>	<i>2.20</i>
Natural Gas	3.69	3.38	3.19	3.39	<i>3.82</i>	<i>3.10</i>	<i>3.26</i>	<i>3.57</i>	<i>3.82</i>	<i>3.21</i>	<i>3.28</i>	<i>3.51</i>	3.39	<i>3.41</i>	<i>3.43</i>
Residual Fuel Oil (c)	11.16	10.60	10.03	10.95	<i>12.26</i>	<i>12.73</i>	<i>11.63</i>	<i>11.25</i>	<i>11.49</i>	<i>12.14</i>	<i>11.68</i>	<i>11.64</i>	10.68	<i>12.00</i>	<i>11.71</i>
Distillate Fuel Oil	12.74	12.23	13.13	14.72	<i>16.06</i>	<i>15.16</i>	<i>14.81</i>	<i>14.83</i>	<i>14.60</i>	<i>14.73</i>	<i>15.07</i>	<i>15.39</i>	13.32	<i>15.47</i>	<i>14.93</i>
Retail Prices (cents per kilowatthour)															
Industrial Sector	6.64	6.89	7.27	6.79	<i>6.81</i>	<i>7.03</i>	<i>7.50</i>	<i>7.02</i>	<i>6.86</i>	<i>7.11</i>	<i>7.60</i>	<i>7.10</i>	6.91	<i>7.10</i>	<i>7.18</i>
Commercial Sector	10.39	10.68	11.03	10.56	<i>10.49</i>	<i>10.85</i>	<i>11.31</i>	<i>10.87</i>	<i>10.68</i>	<i>10.93</i>	<i>11.31</i>	<i>10.92</i>	10.68	<i>10.90</i>	<i>10.97</i>
Residential Sector	12.59	12.99	13.19	12.75	<i>12.71</i>	<i>13.29</i>	<i>13.48</i>	<i>13.15</i>	<i>13.18</i>	<i>13.77</i>	<i>13.87</i>	<i>13.44</i>	12.90	<i>13.17</i>	<i>13.57</i>

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million barrels per day) (a)															
OECD	27.11	26.92	27.08	28.05	28.65	29.53	29.92	30.64	30.64	30.83	30.69	31.12	27.29	29.69	30.82
U.S. (50 States)	15.00	15.32	15.48	16.44	16.69	17.41	17.84	18.28	18.27	18.54	18.47	18.69	15.56	17.56	18.49
Canada	5.05	4.71	4.99	4.99	4.99	5.17	5.28	5.38	5.39	5.39	5.43	5.47	4.94	5.20	5.42
Mexico	2.35	2.34	2.19	2.16	2.21	2.20	2.19	2.18	2.17	2.16	2.15	2.14	2.26	2.20	2.15
Other OECD	4.70	4.55	4.42	4.46	4.75	4.75	4.62	4.80	4.81	4.74	4.64	4.82	4.53	4.73	4.75
Non-OECD	69.99	70.74	71.28	70.61	70.28	70.86	71.47	71.09	70.64	71.35	72.02	71.73	70.66	70.93	71.44
OPEC	38.84	39.32	39.68	39.29	39.25	39.27	39.58	39.64	39.56	39.74	40.08	40.19	39.28	39.44	39.89
Crude Oil Portion	32.08	32.32	32.89	32.48	32.35	32.32	32.60	32.62	32.50	32.62	32.89	32.92	32.44	32.47	32.73
Other Liquids (b)	6.77	7.00	6.79	6.81	6.90	6.94	6.98	7.02	7.05	7.12	7.19	7.27	6.84	6.96	7.16
Eurasia	14.43	14.31	14.23	14.33	14.44	14.42	14.41	14.38	14.48	14.43	14.48	14.50	14.32	14.42	14.47
China	4.82	4.83	4.74	4.75	4.76	4.75	4.75	4.79	4.72	4.74	4.74	4.77	4.78	4.76	4.74
Other Non-OECD	11.90	12.29	12.63	12.24	11.83	12.42	12.73	12.27	11.88	12.45	12.72	12.26	12.27	12.32	12.33
Total World Supply	97.10	97.66	98.36	98.65	98.93	100.39	101.39	101.72	101.28	102.18	102.71	102.85	97.95	100.62	102.26
Non-OPEC Supply	58.26	58.34	58.68	59.37	59.68	61.12	61.81	62.08	61.73	62.44	62.63	62.66	58.67	61.18	62.37
Consumption (million barrels per day) (c)															
OECD	46.79	46.90	47.44	47.66	47.38	46.85	48.08	48.05	47.78	47.29	48.46	48.39	47.20	47.59	47.99
U.S. (50 States)	19.49	20.03	19.92	20.05	20.04	20.24	20.69	20.41	20.37	20.67	21.03	20.74	19.88	20.35	20.71
U.S. Territories	0.15	0.15	0.13	0.09	0.09	0.10	0.12	0.13	0.15	0.15	0.15	0.15	0.13	0.11	0.15
Canada	2.35	2.34	2.50	2.50	2.37	2.31	2.42	2.41	2.37	2.31	2.42	2.41	2.42	2.38	2.38
Europe	13.95	14.31	14.74	14.31	14.01	14.29	14.74	14.45	14.04	14.25	14.76	14.45	14.33	14.37	14.38
Japan	4.33	3.64	3.69	4.10	4.29	3.46	3.57	3.93	4.21	3.41	3.54	3.90	3.94	3.81	3.76
Other OECD	6.52	6.44	6.46	6.62	6.57	6.46	6.53	6.72	6.63	6.50	6.56	6.75	6.51	6.57	6.61
Non-OECD	50.79	51.46	51.47	51.46	52.12	52.80	52.74	52.75	53.42	54.13	54.08	54.13	51.30	52.61	53.94
Eurasia	4.76	4.75	5.02	4.89	4.80	4.84	5.11	4.99	4.85	4.90	5.17	5.05	4.86	4.94	4.99
Europe	0.69	0.70	0.72	0.72	0.71	0.71	0.73	0.73	0.72	0.72	0.74	0.74	0.70	0.72	0.73
China	13.48	13.29	13.01	13.27	13.98	13.74	13.40	13.64	14.42	14.15	13.80	14.04	13.26	13.69	14.10
Other Asia	12.99	13.31	13.03	13.36	13.63	13.82	13.45	13.76	14.06	14.24	13.85	14.18	13.17	13.66	14.08
Other Non-OECD	18.86	19.42	19.71	19.21	19.01	19.69	20.05	19.62	19.37	20.12	20.51	20.12	19.30	19.60	20.03
Total World Consumption	97.58	98.37	98.92	99.12	99.50	99.65	100.82	100.80	101.20	101.42	102.54	102.52	98.50	100.20	101.92
Total Crude Oil and Other Liquids Inventory Net Withdrawals (million barrels per day)															
U.S. (50 States)	0.00	0.22	0.34	0.91	0.14	-0.50	-0.17	0.40	-0.26	-0.49	-0.10	0.35	0.37	-0.03	-0.12
Other OECD	-0.49	0.02	0.28	0.25	0.15	-0.08	-0.14	-0.46	0.06	-0.09	-0.02	-0.23	0.02	-0.13	-0.07
Other Stock Draws and Balance	0.96	0.47	-0.06	-0.70	0.28	-0.16	-0.26	-0.87	0.11	-0.18	-0.05	-0.46	0.16	-0.26	-0.14
Total Stock Draw	0.48	0.71	0.55	0.46	0.57	-0.74	-0.57	-0.93	-0.08	-0.76	-0.17	-0.33	0.55	-0.42	-0.34
End-of-period Commercial Crude Oil and Other Liquids Inventories (million barrels)															
U.S. Commercial Inventory	1,338	1,330	1,305	1,232	1,218	1,266	1,284	1,251	1,278	1,327	1,340	1,309	1,232	1,251	1,309
OECD Commercial Inventory	3,011	3,000	2,954	2,859	2,831	2,886	2,916	2,925	2,947	3,004	3,019	3,009	2,859	2,925	3,009

- = 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, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, 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 *Retroroleum 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
North America	22.41	22.37	22.67	23.59	<i>23.90</i>	<i>24.78</i>	<i>25.31</i>	<i>25.84</i>	<i>25.83</i>	<i>26.09</i>	<i>26.05</i>	<i>26.30</i>	22.76	<i>24.96</i>	<i>26.07</i>
Canada	5.05	4.71	4.99	4.99	<i>4.99</i>	<i>5.17</i>	<i>5.28</i>	<i>5.38</i>	<i>5.39</i>	<i>5.39</i>	<i>5.43</i>	<i>5.47</i>	4.94	<i>5.20</i>	<i>5.42</i>
Mexico	2.35	2.34	2.19	2.16	<i>2.21</i>	<i>2.20</i>	<i>2.19</i>	<i>2.18</i>	<i>2.17</i>	<i>2.16</i>	<i>2.15</i>	<i>2.14</i>	2.26	<i>2.20</i>	<i>2.15</i>
United States	15.00	15.32	15.48	16.44	<i>16.69</i>	<i>17.41</i>	<i>17.84</i>	<i>18.28</i>	<i>18.27</i>	<i>18.54</i>	<i>18.47</i>	<i>18.69</i>	15.56	<i>17.56</i>	<i>18.49</i>
Central and South America	4.91	5.40	5.71	5.30	<i>4.91</i>	<i>5.51</i>	<i>5.83</i>	<i>5.41</i>	<i>5.02</i>	<i>5.63</i>	<i>5.95</i>	<i>5.54</i>	5.33	<i>5.42</i>	<i>5.54</i>
Argentina	0.67	0.67	0.68	0.69	<i>0.66</i>	<i>0.66</i>	<i>0.67</i>	<i>0.68</i>	<i>0.65</i>	<i>0.65</i>	<i>0.66</i>	<i>0.67</i>	0.68	<i>0.67</i>	<i>0.66</i>
Brazil	2.95	3.44	3.73	3.32	<i>3.07</i>	<i>3.55</i>	<i>3.86</i>	<i>3.44</i>	<i>3.19</i>	<i>3.69</i>	<i>3.99</i>	<i>3.58</i>	3.36	<i>3.48</i>	<i>3.61</i>
Colombia	0.87	0.88	0.88	0.87	<i>0.76</i>	<i>0.88</i>	<i>0.88</i>	<i>0.87</i>	<i>0.75</i>	<i>0.87</i>	<i>0.87</i>	<i>0.86</i>	0.88	<i>0.84</i>	<i>0.84</i>
Other Central and S. America	0.42	0.42	0.42	0.42	<i>0.42</i>	<i>0.42</i>	<i>0.42</i>	<i>0.43</i>	<i>0.43</i>	<i>0.42</i>	<i>0.43</i>	<i>0.44</i>	0.42	<i>0.42</i>	<i>0.43</i>
Europe	4.22	4.05	3.91	3.96	<i>4.25</i>	<i>4.25</i>	<i>4.11</i>	<i>4.27</i>	<i>4.26</i>	<i>4.17</i>	<i>4.05</i>	<i>4.23</i>	4.04	<i>4.22</i>	<i>4.18</i>
Norway	2.09	2.01	1.90	1.93	<i>2.05</i>	<i>2.03</i>	<i>2.04</i>	<i>2.07</i>	<i>2.05</i>	<i>1.98</i>	<i>1.96</i>	<i>2.03</i>	1.98	<i>2.05</i>	<i>2.00</i>
United Kingdom	1.10	1.07	1.00	1.02	<i>1.19</i>	<i>1.22</i>	<i>1.07</i>	<i>1.20</i>	<i>1.20</i>	<i>1.20</i>	<i>1.11</i>	<i>1.21</i>	1.05	<i>1.17</i>	<i>1.18</i>
Eurasia	14.43	14.31	14.23	14.33	<i>14.44</i>	<i>14.42</i>	<i>14.41</i>	<i>14.38</i>	<i>14.48</i>	<i>14.43</i>	<i>14.48</i>	<i>14.50</i>	14.32	<i>14.42</i>	<i>14.47</i>
Azerbaijan	0.79	0.80	0.79	0.81	<i>0.82</i>	<i>0.81</i>	<i>0.79</i>	<i>0.77</i>	<i>0.79</i>	<i>0.79</i>	<i>0.77</i>	<i>0.76</i>	0.80	<i>0.80</i>	<i>0.78</i>
Kazakhstan	1.87	1.87	1.86	1.92	<i>1.99</i>	<i>1.99</i>	<i>2.03</i>	<i>2.07</i>	<i>2.10</i>	<i>2.04</i>	<i>2.09</i>	<i>2.13</i>	1.88	<i>2.02</i>	<i>2.09</i>
Russia	11.32	11.18	11.14	11.15	<i>11.18</i>	<i>11.16</i>	<i>11.13</i>	<i>11.08</i>	<i>11.15</i>	<i>11.16</i>	<i>11.17</i>	<i>11.16</i>	11.20	<i>11.14</i>	<i>11.16</i>
Turkmenistan	0.28	0.28	0.29	0.29	<i>0.29</i>	<i>0.29</i>	<i>0.29</i>	<i>0.29</i>	<i>0.28</i>	<i>0.28</i>	<i>0.28</i>	<i>0.28</i>	0.28	<i>0.29</i>	<i>0.28</i>
Other Eurasia	0.16	0.17	0.16	0.16	<i>0.18</i>	<i>0.18</i>	<i>0.18</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.16</i>	0.16	<i>0.17</i>	<i>0.17</i>
Middle East	1.07	1.07	1.07	1.09	<i>1.11</i>	<i>1.09</i>	<i>1.07</i>	<i>1.05</i>	<i>1.05</i>	<i>1.03</i>	<i>1.02</i>	<i>1.00</i>	1.07	<i>1.08</i>	<i>1.03</i>
Oman	0.98	0.98	0.98	0.99	<i>0.99</i>	<i>0.97</i>	<i>0.95</i>	<i>0.94</i>	<i>0.92</i>	<i>0.90</i>	<i>0.88</i>	<i>0.87</i>	0.98	<i>0.96</i>	<i>0.89</i>
Asia and Oceania	9.35	9.28	9.19	9.20	<i>9.25</i>	<i>9.24</i>	<i>9.23</i>	<i>9.27</i>	<i>9.25</i>	<i>9.26</i>	<i>9.25</i>	<i>9.25</i>	9.25	<i>9.25</i>	<i>9.25</i>
Australia	0.35	0.36	0.37	0.35	<i>0.34</i>	<i>0.34</i>	<i>0.34</i>	<i>0.35</i>	<i>0.37</i>	<i>0.39</i>	<i>0.40</i>	<i>0.41</i>	0.36	<i>0.34</i>	<i>0.39</i>
China	4.82	4.83	4.74	4.75	<i>4.76</i>	<i>4.75</i>	<i>4.75</i>	<i>4.79</i>	<i>4.72</i>	<i>4.74</i>	<i>4.74</i>	<i>4.77</i>	4.78	<i>4.76</i>	<i>4.74</i>
India	1.01	1.00	1.00	0.99	<i>0.99</i>	<i>1.00</i>	<i>0.99</i>	<i>0.98</i>	<i>1.00</i>	<i>1.00</i>	<i>1.00</i>	<i>0.99</i>	1.00	<i>0.99</i>	<i>1.00</i>
Indonesia	0.93	0.91	0.91	0.90	<i>0.91</i>	<i>0.91</i>	<i>0.90</i>	<i>0.91</i>	<i>0.90</i>	<i>0.89</i>	<i>0.88</i>	<i>0.87</i>	0.91	<i>0.91</i>	<i>0.89</i>
Malaysia	0.74	0.72	0.71	0.72	<i>0.73</i>	<i>0.73</i>	<i>0.72</i>	<i>0.71</i>	<i>0.72</i>	<i>0.71</i>	<i>0.70</i>	<i>0.69</i>	0.72	<i>0.72</i>	<i>0.71</i>
Vietnam	0.29	0.29	0.28	0.27	<i>0.27</i>	<i>0.27</i>	<i>0.27</i>	<i>0.26</i>	<i>0.26</i>	<i>0.25</i>	<i>0.25</i>	<i>0.24</i>	0.28	<i>0.27</i>	<i>0.25</i>
Africa	1.86	1.86	1.91	1.90	<i>1.83</i>	<i>1.85</i>	<i>1.85</i>	<i>1.85</i>	<i>1.83</i>	<i>1.83</i>	<i>1.83</i>	<i>1.83</i>	1.88	<i>1.85</i>	<i>1.83</i>
Egypt	0.64	0.65	0.66	0.66	<i>0.63</i>	<i>0.63</i>	<i>0.63</i>	<i>0.63</i>	<i>0.58</i>	<i>0.58</i>	<i>0.58</i>	<i>0.58</i>	0.65	<i>0.63</i>	<i>0.58</i>
South Sudan	0.15	0.15	0.15	0.15	<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>	0.15	<i>0.12</i>	<i>0.12</i>
Total non-OPEC liquids	58.26	58.34	58.68	59.37	<i>59.68</i>	<i>61.12</i>	<i>61.81</i>	<i>62.08</i>	<i>61.73</i>	<i>62.44</i>	<i>62.63</i>	<i>62.66</i>	58.67	<i>61.18</i>	<i>62.37</i>
OPEC non-crude liquids	6.77	7.00	6.79	6.81	<i>6.90</i>	<i>6.94</i>	<i>6.98</i>	<i>7.02</i>	<i>7.05</i>	<i>7.12</i>	<i>7.19</i>	<i>7.27</i>	6.84	<i>6.96</i>	<i>7.16</i>
Non-OPEC + OPEC non-crude	65.03	65.34	65.47	66.17	<i>66.58</i>	<i>68.07</i>	<i>68.79</i>	<i>69.10</i>	<i>68.78</i>	<i>69.56</i>	<i>69.82</i>	<i>69.93</i>	65.51	<i>68.14</i>	<i>69.53</i>
Unplanned non-OPEC Production Outages	0.43	0.68	0.63	0.54	<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>	0.57	<i>n/a</i>	<i>n/a</i>

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Crude Oil															
Algeria	1.04	1.03	1.03	1.00	-	-	-	-	-	-	-	-	1.03	-	-
Angola	1.64	1.66	1.66	1.63	-	-	-	-	-	-	-	-	1.65	-	-
Ecuador	0.53	0.53	0.54	0.53	-	-	-	-	-	-	-	-	0.53	-	-
Equatorial Guinea	0.14	0.14	0.13	0.13	-	-	-	-	-	-	-	-	0.13	-	-
Gabon	0.19	0.20	0.20	0.20	-	-	-	-	-	-	-	-	0.20	-	-
Iran	3.80	3.81	3.83	3.84	-	-	-	-	-	-	-	-	3.82	-	-
Iraq	4.46	4.44	4.50	4.36	-	-	-	-	-	-	-	-	4.44	-	-
Kuwait	2.74	2.71	2.72	2.72	-	-	-	-	-	-	-	-	2.72	-	-
Libya	0.65	0.72	0.94	0.95	-	-	-	-	-	-	-	-	0.82	-	-
Nigeria	1.38	1.49	1.68	1.72	-	-	-	-	-	-	-	-	1.57	-	-
Qatar	0.62	0.61	0.61	0.60	-	-	-	-	-	-	-	-	0.61	-	-
Saudi Arabia	9.98	10.09	10.18	10.11	-	-	-	-	-	-	-	-	10.09	-	-
United Arab Emirates	2.92	2.90	2.92	2.90	-	-	-	-	-	-	-	-	2.91	-	-
Venezuela	1.99	1.97	1.95	1.78	-	-	-	-	-	-	-	-	1.92	-	-
OPEC Total	32.08	32.32	32.89	32.48	32.35	32.32	32.60	32.62	32.50	32.62	32.89	32.92	32.44	32.47	32.73
Other Liquids (a)	6.77	7.00	6.79	6.81	6.90	6.94	6.98	7.02	7.05	7.12	7.19	7.27	6.84	6.96	7.16
Total OPEC Supply	38.84	39.32	39.68	39.29	39.25	39.27	39.58	39.64	39.56	39.74	40.08	40.19	39.28	39.44	39.89
Crude Oil Production Capacity															
Africa	5.04	5.24	5.64	5.64	5.67	5.57	5.55	5.54	5.51	5.53	5.56	5.63	5.39	5.58	5.56
Middle East	26.70	26.69	26.71	26.64	26.59	26.69	26.69	26.68	26.45	26.54	26.67	26.71	26.69	26.67	26.59
South America	2.53	2.51	2.49	2.32	2.15	2.12	2.09	2.04	1.99	1.95	1.90	1.85	2.46	2.10	1.92
OPEC Total	34.27	34.44	34.84	34.60	34.41	34.38	34.33	34.26	33.95	34.02	34.13	34.19	34.54	34.34	34.07
Surplus Crude Oil Production Capacity															
Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.01
Middle East	2.19	2.13	1.95	2.11	2.06	2.05	1.73	1.64	1.43	1.38	1.24	1.27	2.09	1.87	1.33
South America	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OPEC Total	2.19	2.13	1.95	2.12	2.06	2.05	1.73	1.64	1.45	1.40	1.24	1.27	2.10	1.87	1.34
Unplanned OPEC Production Outages	1.81	1.60	1.17	1.21	<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>	1.45	<i>n/a</i>	<i>n/a</i>

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Equatorial Guinea, Gabon, Libya, and Nigeria (Africa); Ecuador and Venezuela (South America); Iran, Iraq, Kuwait, Qatar, 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 2018

	2017				2018				2019				2017	2018	2019
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
North America	23.81	24.36	24.33	24.50	<i>24.34</i>	<i>24.50</i>	<i>25.07</i>	<i>24.81</i>	<i>24.67</i>	<i>24.92</i>	<i>25.38</i>	<i>25.11</i>	24.25	<i>24.68</i>	<i>25.02</i>
Canada	2.35	2.34	2.50	2.50	<i>2.37</i>	<i>2.31</i>	<i>2.42</i>	<i>2.41</i>	<i>2.37</i>	<i>2.31</i>	<i>2.42</i>	<i>2.41</i>	2.42	<i>2.38</i>	<i>2.38</i>
Mexico	1.96	1.98	1.90	1.94	<i>1.91</i>	<i>1.94</i>	<i>1.94</i>	<i>1.98</i>	<i>1.91</i>	<i>1.92</i>	<i>1.92</i>	<i>1.95</i>	1.94	<i>1.94</i>	<i>1.92</i>
United States	19.49	20.03	19.92	20.05	<i>20.04</i>	<i>20.24</i>	<i>20.69</i>	<i>20.41</i>	<i>20.37</i>	<i>20.67</i>	<i>21.03</i>	<i>20.74</i>	19.88	<i>20.35</i>	<i>20.71</i>
Central and South America	6.98	7.04	7.12	7.07	<i>6.86</i>	<i>7.03</i>	<i>7.15</i>	<i>7.17</i>	<i>7.02</i>	<i>7.20</i>	<i>7.33</i>	<i>7.34</i>	7.05	<i>7.05</i>	<i>7.22</i>
Brazil	3.02	3.01	3.09	3.10	<i>3.00</i>	<i>3.08</i>	<i>3.17</i>	<i>3.19</i>	<i>3.11</i>	<i>3.20</i>	<i>3.30</i>	<i>3.34</i>	3.06	<i>3.11</i>	<i>3.24</i>
Europe	14.64	15.01	15.46	15.02	<i>14.72</i>	<i>15.00</i>	<i>15.47</i>	<i>15.18</i>	<i>14.76</i>	<i>14.97</i>	<i>15.50</i>	<i>15.19</i>	15.03	<i>15.09</i>	<i>15.11</i>
Eurasia	4.76	4.75	5.02	4.89	<i>4.80</i>	<i>4.84</i>	<i>5.11</i>	<i>4.99</i>	<i>4.85</i>	<i>4.90</i>	<i>5.17</i>	<i>5.05</i>	4.86	<i>4.94</i>	<i>4.99</i>
Russia	3.61	3.62	3.82	3.69	<i>3.61</i>	<i>3.68</i>	<i>3.89</i>	<i>3.76</i>	<i>3.66</i>	<i>3.73</i>	<i>3.94</i>	<i>3.81</i>	3.68	<i>3.73</i>	<i>3.78</i>
Middle East	8.21	8.74	9.07	8.46	<i>8.33</i>	<i>8.88</i>	<i>9.22</i>	<i>8.62</i>	<i>8.48</i>	<i>9.04</i>	<i>9.40</i>	<i>8.79</i>	8.62	<i>8.76</i>	<i>8.93</i>
Asia and Oceania	34.83	34.17	33.73	34.85	<i>36.01</i>	<i>34.96</i>	<i>34.43</i>	<i>35.52</i>	<i>36.85</i>	<i>35.80</i>	<i>35.24</i>	<i>36.35</i>	34.39	<i>35.23</i>	<i>36.06</i>
China	13.48	13.29	13.01	13.27	<i>13.98</i>	<i>13.74</i>	<i>13.40</i>	<i>13.64</i>	<i>14.42</i>	<i>14.15</i>	<i>13.80</i>	<i>14.04</i>	13.26	<i>13.69</i>	<i>14.10</i>
Japan	4.33	3.64	3.69	4.10	<i>4.29</i>	<i>3.46</i>	<i>3.57</i>	<i>3.93</i>	<i>4.21</i>	<i>3.41</i>	<i>3.54</i>	<i>3.90</i>	3.94	<i>3.81</i>	<i>3.76</i>
India	4.40	4.64	4.42	4.75	<i>4.83</i>	<i>4.93</i>	<i>4.63</i>	<i>4.92</i>	<i>5.12</i>	<i>5.20</i>	<i>4.87</i>	<i>5.18</i>	4.55	<i>4.83</i>	<i>5.09</i>
Africa	4.34	4.30	4.19	4.31	<i>4.45</i>	<i>4.43</i>	<i>4.34</i>	<i>4.51</i>	<i>4.56</i>	<i>4.57</i>	<i>4.50</i>	<i>4.68</i>	4.28	<i>4.43</i>	<i>4.58</i>
Total OECD Liquid Fuels Consumption	46.79	46.90	47.44	47.66	<i>47.38</i>	<i>46.85</i>	<i>48.08</i>	<i>48.05</i>	<i>47.78</i>	<i>47.29</i>	<i>48.46</i>	<i>48.39</i>	47.20	<i>47.59</i>	<i>47.99</i>
Total non-OECD Liquid Fuels Consumption	50.79	51.46	51.47	51.46	<i>52.12</i>	<i>52.80</i>	<i>52.74</i>	<i>52.75</i>	<i>53.42</i>	<i>54.13</i>	<i>54.08</i>	<i>54.13</i>	51.30	<i>52.61</i>	<i>53.94</i>
Total World Liquid Fuels Consumption	97.58	98.37	98.92	99.12	<i>99.50</i>	<i>99.65</i>	<i>100.82</i>	<i>100.80</i>	<i>101.20</i>	<i>101.42</i>	<i>102.54</i>	<i>102.52</i>	98.50	<i>100.20</i>	<i>101.92</i>
Oil-weighted Real Gross Domestic Product (a)															
World Index, 2015 Q1 = 100	105.6	106.5	107.3	108.2	<i>109.3</i>	<i>110.1</i>	<i>110.9</i>	<i>111.9</i>	<i>112.9</i>	<i>113.7</i>	<i>114.5</i>	<i>115.4</i>	106.9	<i>110.5</i>	<i>114.2</i>
Percent change from prior year	3.6	2.9	3.1	3.1	<i>3.4</i>	<i>3.4</i>	<i>3.4</i>	<i>3.4</i>	<i>3.4</i>	<i>3.3</i>	<i>3.3</i>	<i>3.1</i>	3.2	<i>3.4</i>	<i>3.3</i>
OECD Index, 2015 Q1 = 100	103.8	104.5	105.1	105.7	<i>106.6</i>	<i>107.1</i>	<i>107.7</i>	<i>108.4</i>	<i>109.1</i>	<i>109.5</i>	<i>110.0</i>	<i>110.4</i>	104.8	<i>107.4</i>	<i>109.8</i>
Percent change from prior year	3.0	2.1	2.4	2.3	<i>2.6</i>	<i>2.5</i>	<i>2.5</i>	<i>2.5</i>	<i>2.4</i>	<i>2.3</i>	<i>2.1</i>	<i>1.8</i>	2.4	<i>2.5</i>	<i>2.2</i>
Non-OECD Index, 2015 Q1 = 100	107.3	108.4	109.4	110.6	<i>111.9</i>	<i>112.9</i>	<i>114.1</i>	<i>115.3</i>	<i>116.6</i>	<i>117.8</i>	<i>119.0</i>	<i>120.3</i>	108.9	<i>113.5</i>	<i>118.4</i>
Percent change from prior year	4.2	3.6	3.8	3.8	<i>4.2</i>	<i>4.2</i>	<i>4.2</i>	<i>4.3</i>	<i>4.3</i>	<i>4.3</i>	<i>4.4</i>	<i>4.3</i>	3.8	<i>4.2</i>	<i>4.3</i>
Real U.S. Dollar Exchange Rate (a)															
Index, 2015 Q1 = 100	104.91	103.23	101.36	101.70	<i>99.66</i>	<i>98.80</i>	<i>98.36</i>	<i>98.00</i>	<i>97.86</i>	<i>97.86</i>	<i>97.85</i>	<i>97.74</i>	102.80	<i>98.71</i>	<i>97.83</i>
Percent change from prior year	-0.7	0.2	-1.4	-3.0	<i>-5.0</i>	<i>-4.3</i>	<i>-3.0</i>	<i>-3.6</i>	<i>-1.8</i>	<i>-1.0</i>	<i>-0.5</i>	<i>-0.3</i>	-1.2	<i>-4.0</i>	<i>-0.9</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million barrels per day)															
Crude Oil Supply															
Domestic Production (a)	8.99	9.10	9.29	9.89	10.25	10.58	10.79	11.17	11.30	11.30	11.14	11.34	9.32	10.70	11.27
Alaska	0.52	0.50	0.45	0.51	0.51	0.48	0.43	0.49	0.51	0.49	0.44	0.50	0.49	0.48	0.48
Federal Gulf of Mexico (b)	1.73	1.62	1.68	1.56	1.72	1.75	1.66	1.76	1.84	1.85	1.73	1.84	1.65	1.72	1.81
Lower 48 States (excl GOM)	6.74	6.98	7.16	7.82	8.03	8.35	8.70	8.92	8.95	8.96	8.97	9.00	7.18	8.50	8.97
Crude Oil Net Imports (c)	7.24	7.24	6.63	6.08	6.34	6.41	5.99	5.10	5.26	5.82	5.63	5.09	6.79	5.96	5.45
SPR Net Withdrawals	0.04	0.14	0.06	0.12	-0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.02	0.09	0.02	0.04
Commercial Inventory Net Withdrawals	-0.59	0.41	0.34	0.52	-0.25	0.05	0.15	-0.02	-0.50	-0.05	0.17	-0.02	0.17	-0.02	-0.10
Crude Oil Adjustment (d)	0.23	0.24	0.28	0.12	0.05	0.19	0.21	0.15	0.19	0.19	0.21	0.15	0.22	0.15	0.19
Total Crude Oil Input to Refineries	15.91	17.13	16.60	16.72	16.38	17.25	17.17	16.44	16.29	17.30	17.20	16.57	16.59	16.81	16.84
Other Supply															
Refinery Processing Gain	1.09	1.13	1.07	1.12	1.08	1.12	1.13	1.11	1.07	1.12	1.13	1.11	1.10	1.11	1.11
Natural Gas Plant Liquids Production	3.54	3.70	3.72	3.99	3.95	4.25	4.45	4.53	4.46	4.63	4.70	4.74	3.74	4.30	4.63
Renewables and Oxygenate Production (e)	1.17	1.16	1.19	1.23	1.17	1.21	1.22	1.23	1.19	1.23	1.25	1.25	1.19	1.21	1.23
Fuel Ethanol Production	1.04	1.01	1.02	1.06	1.03	1.04	1.05	1.04	1.04	1.05	1.06	1.05	1.03	1.04	1.05
Petroleum Products Adjustment (f)	0.21	0.22	0.21	0.22	0.23	0.25	0.25	0.24	0.24	0.26	0.26	0.25	0.22	0.24	0.25
Product Net Imports (c)	-2.96	-2.99	-2.80	-3.49	-3.18	-3.27	-3.19	-3.52	-3.08	-3.38	-3.19	-3.54	-3.06	-3.29	-3.30
Hydrocarbon Gas Liquids	-1.20	-1.18	-1.16	-1.29	-1.27	-1.34	-1.39	-1.62	-1.34	-1.46	-1.46	-1.63	-1.21	-1.41	-1.48
Unfinished Oils	0.37	0.34	0.38	0.38	0.31	0.37	0.40	0.32	0.37	0.38	0.41	0.32	0.37	0.35	0.37
Other HC/Oxygenates	-0.13	-0.09	-0.09	-0.13	-0.11	-0.10	-0.08	-0.09	-0.12	-0.09	-0.08	-0.08	-0.11	-0.09	-0.09
Motor Gasoline Blend Comp.	0.43	0.68	0.64	0.36	0.24	0.63	0.49	0.43	0.48	0.66	0.49	0.45	0.53	0.45	0.52
Finished Motor Gasoline	-0.66	-0.62	-0.63	-0.94	-0.71	-0.73	-0.56	-0.77	-0.85	-0.73	-0.53	-0.78	-0.71	-0.69	-0.72
Jet Fuel	-0.04	-0.07	-0.01	0.02	0.00	0.01	0.02	-0.01	-0.02	0.00	0.02	-0.02	-0.02	0.00	-0.01
Distillate Fuel Oil	-1.01	-1.36	-1.32	-1.22	-0.93	-1.34	-1.37	-1.09	-0.99	-1.34	-1.33	-1.07	-1.23	-1.18	-1.18
Residual Fuel Oil	-0.10	-0.11	-0.12	-0.09	-0.05	-0.13	-0.10	-0.11	-0.07	-0.14	-0.10	-0.12	-0.10	-0.10	-0.11
Other Oils (g)	-0.61	-0.60	-0.50	-0.59	-0.65	-0.65	-0.60	-0.57	-0.56	-0.66	-0.60	-0.60	-0.57	-0.62	-0.60
Product Inventory Net Withdrawals	0.56	-0.33	-0.07	0.27	0.41	-0.57	-0.34	0.38	0.20	-0.49	-0.31	0.36	0.11	-0.03	-0.06
Total Supply	19.52	20.03	19.92	20.05	20.04	20.24	20.69	20.41	20.37	20.67	21.03	20.74	19.88	20.35	20.71
Consumption (million barrels per day)															
Hydrocarbon Gas Liquids	2.79	2.45	2.33	2.81	3.07	2.67	2.88	3.14	3.36	3.01	3.09	3.30	2.60	2.94	3.19
Unfinished Oils	0.02	0.02	-0.01	-0.04	0.00	-0.03	-0.03	0.01	0.00	-0.03	-0.03	0.01	0.00	-0.01	-0.01
Motor Gasoline	8.95	9.54	9.56	9.23	8.98	9.53	9.61	9.26	9.00	9.57	9.66	9.34	9.32	9.35	9.39
Fuel Ethanol blended into Motor Gasoline	0.90	0.96	0.96	0.95	0.94	0.98	0.98	0.96	0.93	0.99	0.99	0.96	0.94	0.96	0.97
Jet Fuel	1.60	1.68	1.71	1.73	1.66	1.72	1.78	1.67	1.60	1.74	1.80	1.69	1.68	1.71	1.71
Distillate Fuel Oil	3.95	3.91	3.87	4.02	4.09	4.00	3.95	4.07	4.16	4.05	4.02	4.14	3.94	4.03	4.09
Residual Fuel Oil	0.37	0.37	0.30	0.39	0.33	0.31	0.32	0.30	0.36	0.31	0.32	0.30	0.36	0.32	0.32
Other Oils (g)	1.83	2.06	2.15	1.91	1.90	2.03	2.18	1.98	1.90	2.03	2.17	1.98	1.99	2.02	2.02
Total Consumption	19.49	20.03	19.92	20.05	20.04	20.24	20.69	20.41	20.37	20.67	21.03	20.74	19.88	20.35	20.71
Total Petroleum and Other Liquids Net Imports	4.28	4.25	3.83	2.59	3.16	3.14	2.81	1.58	2.17	2.44	2.44	1.54	3.73	2.67	2.15
End-of-period Inventories (million barrels)															
Commercial Inventory															
Crude Oil (excluding SPR)	537.9	500.4	469.1	421.1	443.5	439.0	425.3	427.5	473.0	477.1	461.7	463.5	421.1	427.5	463.5
Hydrocarbon Gas Liquids	148.1	190.6	229.7	190.9	145.9	200.7	240.6	192.7	162.9	211.3	247.9	203.2	190.9	192.7	203.2
Unfinished Oils	89.3	88.7	89.2	86.3	90.9	89.0	86.4	79.9	90.3	88.3	86.7	80.0	86.3	79.9	80.0
Other HC/Oxygenates	32.6	29.3	28.3	30.1	30.2	29.2	28.5	29.2	30.9	29.9	29.2	29.8	30.1	29.2	29.8
Total Motor Gasoline	239.0	237.9	223.8	236.7	241.4	234.0	228.1	241.9	243.4	239.2	233.7	246.9	236.7	241.9	246.9
Finished Motor Gasoline	21.7	22.5	21.8	24.6	25.3	23.5	24.0	27.3	25.0	23.9	24.6	25.4	24.6	27.3	25.4
Motor Gasoline Blend Comp.	217.2	215.5	202.0	212.1	216.1	210.5	204.1	214.6	218.4	215.3	209.1	221.5	212.1	214.6	221.5
Jet Fuel	42.3	41.0	43.3	41.2	42.2	43.1	44.1	41.6	41.5	43.0	44.6	42.5	41.2	41.6	42.5
Distillate Fuel Oil	151.1	151.6	137.5	145.6	133.4	138.5	144.4	148.7	139.0	141.9	146.7	151.4	145.6	148.7	151.4
Residual Fuel Oil	40.8	35.2	35.9	29.4	34.0	36.8	36.8	37.6	39.7	40.3	39.1	39.3	29.4	37.6	39.3
Other Oils (g)	56.6	55.2	47.9	50.9	56.6	55.2	49.3	51.5	57.1	55.7	49.9	52.1	50.9	51.5	52.1
Total Commercial Inventory	1,338	1,330	1,305	1,232	1,218	1,266	1,284	1,251	1,278	1,327	1,340	1,309	1,232	1,251	1,309
Crude Oil in SPR	692	679	674	663	664	662	660	656	652	648	644	642	663	656	642

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
HGL Production															
Natural Gas Processing Plants															
Ethane	1.33	1.39	1.34	1.56	1.56	1.66	1.77	1.86	1.87	1.94	1.96	2.00	1.41	1.71	1.94
Propane	1.16	1.21	1.23	1.28	1.27	1.35	1.40	1.41	1.38	1.41	1.43	1.44	1.22	1.36	1.41
Butanes	0.63	0.65	0.67	0.69	0.68	0.74	0.76	0.75	0.74	0.76	0.77	0.77	0.66	0.73	0.76
Natural Gasoline (Pentanes Plus)	0.41	0.45	0.48	0.46	0.44	0.50	0.53	0.51	0.48	0.52	0.54	0.52	0.45	0.49	0.51
Refinery and Blender Net Production															
Ethane/Ethylene	0.00	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	0.29	0.32	0.30	0.32	0.31	0.33	0.33	0.31	0.31	0.33	0.33	0.32	0.31	0.32	0.32
Propylene (refinery-grade)	0.27	0.29	0.27	0.30	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.28	0.29	0.28	0.28
Butanes/Butylenes	-0.09	0.27	0.16	-0.22	-0.09	0.26	0.18	-0.19	-0.07	0.26	0.18	-0.18	0.03	0.04	0.05
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	-0.15	-0.16	-0.20	-0.21	-0.28	-0.28	-0.29	-0.30	-0.31	-0.30	-0.31	-0.32	-0.18	-0.29	-0.31
Propane/Propylene	-0.79	-0.71	-0.68	-0.83	-0.66	-0.71	-0.73	-0.96	-0.68	-0.81	-0.79	-0.94	-0.75	-0.77	-0.81
Butanes/Butylenes	-0.09	-0.12	-0.11	-0.11	-0.14	-0.14	-0.15	-0.15	-0.12	-0.12	-0.12	-0.13	-0.11	-0.15	-0.12
Natural Gasoline (Pentanes Plus)	-0.18	-0.18	-0.16	-0.14	-0.20	-0.21	-0.22	-0.21	-0.23	-0.23	-0.24	-0.24	-0.16	-0.21	-0.23
HGL Refinery and Blender Net Inputs															
Butanes/Butylenes	0.43	0.30	0.33	0.50	0.42	0.32	0.34	0.50	0.42	0.32	0.35	0.50	0.39	0.39	0.40
Natural Gasoline (Pentanes Plus)	0.16	0.18	0.18	0.19	0.17	0.17	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.17	0.18
HGL Consumption															
Ethane/Ethylene	1.19	1.23	1.13	1.33	1.32	1.36	1.50	1.58	1.59	1.63	1.66	1.70	1.22	1.44	1.65
Propane	1.05	0.60	0.67	0.85	1.17	0.67	0.73	0.93	1.14	0.68	0.74	0.94	0.79	0.87	0.88
Propylene (refinery-grade)	0.34	0.31	0.28	0.32	0.31	0.31	0.30	0.29	0.31	0.31	0.30	0.29	0.31	0.30	0.30
Butanes/Butylenes	0.12	0.23	0.18	0.16	0.21	0.28	0.27	0.25	0.25	0.32	0.31	0.29	0.17	0.25	0.29
Natural Gasoline (Pentanes Plus)	0.10	0.08	0.08	0.15	0.06	0.07	0.08	0.09	0.07	0.07	0.08	0.08	0.10	0.07	0.07
HGL Inventories (million barrels)															
Ethane	49.65	51.89	51.77	57.73	52.64	54.97	53.89	53.56	49.50	50.95	50.33	50.02	52.78	53.77	50.20
Propane	40.23	57.06	71.59	62.37	37.48	62.93	85.48	68.71	53.85	75.12	94.16	81.05	62.37	68.71	81.05
Propylene (refinery-grade)	3.75	4.01	5.21	4.82	3.96	4.56	4.57	4.81	3.55	3.85	3.95	4.61	4.82	4.81	4.61
Butanes/Butylenes	31.68	57.24	76.10	47.95	31.68	55.77	72.10	41.61	31.54	55.63	71.96	41.47	47.95	41.61	41.47
Natural Gasoline (Pentanes Plus)	21.49	20.55	23.40	20.14	19.79	22.34	24.84	25.43	24.49	25.79	27.59	27.57	20.14	25.43	27.57
Refinery and Blender Net Inputs															
Crude Oil	15.91	17.13	16.60	16.72	16.38	17.25	17.17	16.44	16.29	17.30	17.20	16.57	16.59	16.81	16.84
Hydrocarbon Gas Liquids	0.58	0.48	0.51	0.69	0.59	0.49	0.52	0.68	0.59	0.50	0.52	0.68	0.57	0.57	0.57
Other Hydrocarbons/Oxygenates	1.16	1.24	1.22	1.21	1.20	1.29	1.32	1.30	1.21	1.32	1.35	1.32	1.21	1.27	1.30
Unfinished Oils	0.25	0.33	0.38	0.45	0.25	0.43	0.45	0.38	0.25	0.43	0.45	0.38	0.36	0.38	0.38
Motor Gasoline Blend Components	0.39	0.65	0.67	0.22	0.28	0.81	0.65	0.47	0.57	0.84	0.66	0.49	0.49	0.55	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	18.30	19.83	19.38	19.30	18.69	20.27	20.11	19.27	18.91	20.38	20.18	19.45	19.21	19.59	19.73
Refinery Processing Gain															
.....	1.09	1.13	1.07	1.12	1.08	1.12	1.13	1.11	1.07	1.12	1.13	1.11	1.10	1.11	1.11
Refinery and Blender Net Production															
Hydrocarbon Gas Liquids	0.48	0.89	0.73	0.40	0.50	0.89	0.79	0.41	0.51	0.89	0.79	0.42	0.63	0.65	0.65
Finished Motor Gasoline	9.57	10.10	10.04	10.13	9.74	10.34	10.24	10.19	9.92	10.41	10.27	10.27	9.96	10.13	10.22
Jet Fuel	1.63	1.74	1.75	1.69	1.67	1.72	1.77	1.65	1.62	1.75	1.80	1.69	1.70	1.70	1.71
Distillate Fuel	4.75	5.18	4.94	5.25	4.80	5.30	5.30	5.13	4.95	5.33	5.32	5.17	5.03	5.14	5.20
Residual Fuel	0.46	0.41	0.43	0.41	0.44	0.47	0.43	0.41	0.45	0.46	0.41	0.41	0.43	0.44	0.43
Other Oils (a)	2.50	2.64	2.56	2.53	2.61	2.67	2.71	2.58	2.53	2.67	2.71	2.60	2.56	2.64	2.63
Total Refinery and Blender Net Production	19.40	20.97	20.46	20.41	19.77	21.39	21.24	20.38	19.98	21.50	21.31	20.56	20.31	20.70	20.84
Refinery Distillation Inputs															
.....	16.23	17.42	16.90	17.00	16.68	17.37	17.39	16.69	16.52	17.42	17.41	16.81	16.89	17.03	17.04
Refinery Operable Distillation Capacity															
.....	18.62	18.58	18.55	18.52	18.55	18.59	18.59	18.59	18.60	18.60	18.63	18.64	18.57	18.58	18.61
Refinery Distillation Utilization Factor															
.....	0.87	0.94	0.91	0.92	0.90	0.93	0.94	0.90	0.89	0.94	0.93	0.90	0.91	0.92	0.92

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Prices (cents per gallon)															
Refiner Wholesale Price	163	165	172	175	<i>187</i>	<i>192</i>	<i>184</i>	<i>171</i>	<i>170</i>	<i>188</i>	<i>187</i>	<i>176</i>	169	<i>184</i>	<i>181</i>
Gasoline Regular Grade Retail Prices Including Taxes															
PADD 1	231	233	241	249	<i>259</i>	<i>267</i>	<i>259</i>	<i>250</i>	<i>247</i>	<i>263</i>	<i>263</i>	<i>256</i>	239	<i>259</i>	<i>257</i>
PADD 2	223	228	232	242	<i>247</i>	<i>260</i>	<i>255</i>	<i>240</i>	<i>235</i>	<i>259</i>	<i>259</i>	<i>246</i>	231	<i>250</i>	<i>250</i>
PADD 3	210	216	222	225	<i>232</i>	<i>242</i>	<i>233</i>	<i>221</i>	<i>219</i>	<i>238</i>	<i>236</i>	<i>226</i>	218	<i>232</i>	<i>230</i>
PADD 4	227	239	245	252	<i>248</i>	<i>259</i>	<i>261</i>	<i>246</i>	<i>228</i>	<i>254</i>	<i>264</i>	<i>250</i>	241	<i>254</i>	<i>249</i>
PADD 5	276	289	290	299	<i>309</i>	<i>320</i>	<i>312</i>	<i>292</i>	<i>283</i>	<i>313</i>	<i>312</i>	<i>293</i>	288	<i>308</i>	<i>301</i>
U.S. Average	233	238	244	251	<i>259</i>	<i>270</i>	<i>263</i>	<i>249</i>	<i>245</i>	<i>266</i>	<i>266</i>	<i>254</i>	242	<i>260</i>	<i>258</i>
Gasoline All Grades Including Taxes	244	250	255	263	<i>271</i>	<i>281</i>	<i>274</i>	<i>261</i>	<i>256</i>	<i>277</i>	<i>278</i>	<i>267</i>	253	<i>272</i>	<i>270</i>
End-of-period Inventories (million barrels)															
Total Gasoline Inventories															
PADD 1	65.3	67.2	58.8	60.6	<i>63.8</i>	<i>65.7</i>	<i>62.4</i>	<i>65.4</i>	<i>67.0</i>	<i>67.4</i>	<i>63.8</i>	<i>67.2</i>	60.6	<i>65.4</i>	<i>67.2</i>
PADD 2	57.0	53.6	50.4	52.2	<i>55.8</i>	<i>51.4</i>	<i>49.7</i>	<i>52.1</i>	<i>54.9</i>	<i>52.4</i>	<i>51.0</i>	<i>53.4</i>	52.2	<i>52.1</i>	<i>53.4</i>
PADD 3	79.1	82.4	78.5	83.2	<i>83.2</i>	<i>81.0</i>	<i>80.6</i>	<i>84.9</i>	<i>83.6</i>	<i>83.3</i>	<i>83.2</i>	<i>86.7</i>	83.2	<i>84.9</i>	<i>86.7</i>
PADD 4	7.9	7.0	6.9	7.6	<i>7.7</i>	<i>7.5</i>	<i>7.3</i>	<i>7.9</i>	<i>7.7</i>	<i>7.7</i>	<i>7.5</i>	<i>8.0</i>	7.6	<i>7.9</i>	<i>8.0</i>
PADD 5	29.7	27.7	29.2	33.1	<i>30.9</i>	<i>28.5</i>	<i>28.0</i>	<i>31.5</i>	<i>30.3</i>	<i>28.4</i>	<i>28.2</i>	<i>31.7</i>	33.1	<i>31.5</i>	<i>31.7</i>
U.S. Total	239.0	237.9	223.8	236.7	<i>241.4</i>	<i>234.0</i>	<i>228.1</i>	<i>241.9</i>	<i>243.4</i>	<i>239.2</i>	<i>233.7</i>	<i>246.9</i>	236.7	<i>241.9</i>	<i>246.9</i>
Finished Gasoline Inventories															
U.S. Total	21.7	22.5	21.8	24.6	<i>25.3</i>	<i>23.5</i>	<i>24.0</i>	<i>27.3</i>	<i>25.0</i>	<i>23.9</i>	<i>24.6</i>	<i>25.4</i>	24.6	<i>27.3</i>	<i>25.4</i>
Gasoline Blending Components Inventories															
U.S. Total	217.2	215.5	202.0	212.1	<i>216.1</i>	<i>210.5</i>	<i>204.1</i>	<i>214.6</i>	<i>218.4</i>	<i>215.3</i>	<i>209.1</i>	<i>221.5</i>	212.1	<i>214.6</i>	<i>221.5</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (billion cubic feet per day)															
Total Marketed Production	76.32	77.36	79.30	82.64	<i>86.28</i>	<i>87.66</i>	<i>88.55</i>	<i>88.78</i>	<i>88.91</i>	<i>88.84</i>	<i>89.01</i>	<i>89.51</i>	78.92	<i>87.83</i>	<i>89.07</i>
Alaska	1.01	0.97	0.82	0.98	<i>1.00</i>	<i>0.85</i>	<i>0.77</i>	<i>0.93</i>	<i>1.01</i>	<i>0.86</i>	<i>0.78</i>	<i>0.94</i>	0.94	<i>0.89</i>	<i>0.90</i>
Federal GOM (a)	3.26	2.99	2.91	2.50	<i>3.45</i>	<i>3.33</i>	<i>3.21</i>	<i>3.22</i>	<i>3.45</i>	<i>3.28</i>	<i>3.16</i>	<i>3.17</i>	2.91	<i>3.30</i>	<i>3.27</i>
Lower 48 States (excl GOM)	72.05	73.40	75.56	79.17	<i>81.82</i>	<i>83.48</i>	<i>84.57</i>	<i>84.63</i>	<i>84.45</i>	<i>84.70</i>	<i>85.07</i>	<i>85.40</i>	75.06	<i>83.63</i>	<i>84.91</i>
Total Dry Gas Production	71.28	72.09	74.01	76.95	<i>80.33</i>	<i>81.57</i>	<i>82.36</i>	<i>82.52</i>	<i>82.59</i>	<i>82.48</i>	<i>82.59</i>	<i>83.00</i>	73.60	<i>81.70</i>	<i>82.67</i>
LNG Gross Imports	0.29	0.18	0.17	0.21	<i>0.29</i>	<i>0.17</i>	<i>0.18</i>	<i>0.26</i>	<i>0.32</i>	<i>0.17</i>	<i>0.17</i>	<i>0.21</i>	0.21	<i>0.23</i>	<i>0.22</i>
LNG Gross Exports	1.63	1.80	1.67	2.64	<i>2.57</i>	<i>2.78</i>	<i>3.00</i>	<i>3.44</i>	<i>4.00</i>	<i>4.22</i>	<i>5.14</i>	<i>5.94</i>	1.94	<i>2.95</i>	<i>4.83</i>
Pipeline Gross Imports	8.89	7.76	7.74	8.07	<i>8.49</i>	<i>7.60</i>	<i>7.57</i>	<i>7.64</i>	<i>8.71</i>	<i>8.08</i>	<i>7.97</i>	<i>8.27</i>	8.11	<i>7.82</i>	<i>8.26</i>
Pipeline Gross Exports	7.24	6.49	6.43	6.81	<i>8.24</i>	<i>7.25</i>	<i>7.16</i>	<i>7.51</i>	<i>9.00</i>	<i>7.86</i>	<i>7.65</i>	<i>7.69</i>	6.74	<i>7.54</i>	<i>8.05</i>
Supplemental Gaseous Fuels	0.16	0.13	0.16	0.16	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	<i>0.17</i>	0.15	<i>0.17</i>	<i>0.17</i>
Net Inventory Withdrawals	13.72	-9.02	-7.19	5.72	<i>17.31</i>	<i>-11.48</i>	<i>-10.45</i>	<i>2.49</i>	<i>16.93</i>	<i>-9.64</i>	<i>-7.98</i>	<i>4.08</i>	0.76	<i>-0.60</i>	<i>0.79</i>
Total Supply	85.47	62.84	66.79	81.68	<i>95.77</i>	<i>67.99</i>	<i>69.67</i>	<i>82.13</i>	<i>95.72</i>	<i>69.18</i>	<i>70.13</i>	<i>82.11</i>	74.16	<i>78.83</i>	<i>79.22</i>
Balancing Item (b)	0.68	0.12	0.18	-0.75	<i>-1.39</i>	<i>-0.35</i>	<i>0.20</i>	<i>-1.02</i>	<i>0.17</i>	<i>-0.18</i>	<i>0.40</i>	<i>0.13</i>	0.05	<i>-0.64</i>	<i>0.14</i>
Total Primary Supply	86.15	62.96	66.97	80.93	<i>94.38</i>	<i>67.64</i>	<i>69.87</i>	<i>81.12</i>	<i>95.90</i>	<i>69.01</i>	<i>70.53</i>	<i>82.25</i>	74.22	<i>78.19</i>	<i>79.36</i>
Consumption (billion cubic feet per day)															
Residential	22.17	6.65	3.55	16.25	<i>24.91</i>	<i>7.26</i>	<i>3.56</i>	<i>15.65</i>	<i>25.37</i>	<i>7.39</i>	<i>3.57</i>	<i>15.44</i>	12.12	<i>12.79</i>	<i>12.89</i>
Commercial	13.50	5.83	4.55	11.01	<i>14.57</i>	<i>6.07</i>	<i>4.58</i>	<i>10.87</i>	<i>14.69</i>	<i>6.11</i>	<i>4.55</i>	<i>10.80</i>	8.70	<i>9.00</i>	<i>9.02</i>
Industrial	22.96	20.45	20.34	22.85	<i>23.51</i>	<i>20.83</i>	<i>20.61</i>	<i>22.59</i>	<i>23.68</i>	<i>21.27</i>	<i>21.04</i>	<i>22.79</i>	21.65	<i>21.88</i>	<i>22.19</i>
Electric Power (c)	20.95	24.00	32.28	24.03	<i>24.07</i>	<i>26.70</i>	<i>34.22</i>	<i>24.78</i>	<i>24.50</i>	<i>27.22</i>	<i>34.21</i>	<i>25.66</i>	25.34	<i>27.46</i>	<i>27.92</i>
Lease and Plant Fuel	4.26	4.32	4.43	4.61	<i>4.82</i>	<i>4.89</i>	<i>4.94</i>	<i>4.96</i>	<i>4.96</i>	<i>4.96</i>	<i>4.97</i>	<i>5.00</i>	4.41	<i>4.90</i>	<i>4.97</i>
Pipeline and Distribution Use	2.19	1.60	1.70	2.05	<i>2.39</i>	<i>1.77</i>	<i>1.84</i>	<i>2.15</i>	<i>2.56</i>	<i>1.94</i>	<i>2.07</i>	<i>2.42</i>	1.88	<i>2.04</i>	<i>2.25</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>0.13</i>	<i>0.13</i>	<i>0.13</i>	<i>0.13</i>	0.12	<i>0.12</i>	<i>0.13</i>
Total Consumption	86.15	62.96	66.97	80.93	<i>94.38</i>	<i>67.64</i>	<i>69.87</i>	<i>81.12</i>	<i>95.90</i>	<i>69.01</i>	<i>70.53</i>	<i>82.25</i>	74.22	<i>78.19</i>	<i>79.36</i>
End-of-period Inventories (billion cubic feet)															
Working Gas Inventory	2,063	2,908	3,568	3,039	<i>1,481</i>	<i>2,526</i>	<i>3,487</i>	<i>3,258</i>	<i>1,735</i>	<i>2,612</i>	<i>3,346</i>	<i>2,971</i>	3,039	<i>3,258</i>	<i>2,971</i>
East Region (d)	260	563	866	710	<i>258</i>	<i>562</i>	<i>874</i>	<i>765</i>	<i>263</i>	<i>540</i>	<i>795</i>	<i>659</i>	710	<i>765</i>	<i>659</i>
Midwest Region (d)	478	702	994	834	<i>301</i>	<i>584</i>	<i>981</i>	<i>874</i>	<i>340</i>	<i>585</i>	<i>927</i>	<i>804</i>	834	<i>874</i>	<i>804</i>
South Central Region (d)	938	1,139	1,137	1,017	<i>624</i>	<i>932</i>	<i>1,089</i>	<i>1,125</i>	<i>774</i>	<i>985</i>	<i>1,051</i>	<i>1,011</i>	1,017	<i>1,125</i>	<i>1,011</i>
Mountain Region (d)	142	184	218	178	<i>79</i>	<i>125</i>	<i>187</i>	<i>178</i>	<i>123</i>	<i>163</i>	<i>202</i>	<i>167</i>	178	<i>178</i>	<i>167</i>
Pacific Region (d)	219	288	314	264	<i>187</i>	<i>291</i>	<i>323</i>	<i>284</i>	<i>202</i>	<i>306</i>	<i>338</i>	<i>297</i>	264	<i>284</i>	<i>297</i>
Alaska	27	32	39	36	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>	36	<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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Wholesale/Spot															
Henry Hub Spot Price	3.12	3.19	3.06	3.01	3.13	2.92	3.12	3.22	3.33	3.08	3.14	3.19	3.10	3.10	3.19
Residential Retail															
New England	12.85	14.08	18.12	13.57	13.03	13.79	17.13	13.66	13.15	14.02	17.19	13.56	13.60	13.59	13.67
Middle Atlantic	9.92	12.18	17.11	11.33	10.09	11.83	16.59	11.23	10.28	12.04	16.53	10.84	11.17	11.12	11.14
E. N. Central	7.77	11.52	17.80	7.81	7.43	10.52	16.47	8.96	8.09	10.98	16.65	8.95	8.86	8.80	9.27
W. N. Central	8.32	11.85	18.79	9.56	8.79	11.58	17.56	9.65	8.78	11.70	17.67	9.90	9.80	9.94	10.07
S. Atlantic	12.28	20.04	26.87	13.20	11.28	16.19	22.50	13.17	11.55	16.27	22.48	12.88	14.63	13.29	13.30
E. S. Central	10.53	15.83	20.82	11.32	9.47	13.92	19.89	12.66	10.37	14.74	20.72	13.05	12.05	11.44	12.30
W. S. Central	10.33	16.49	22.10	13.09	8.29	13.53	20.06	12.07	8.98	14.27	20.38	11.93	13.18	10.99	11.53
Mountain	8.21	10.17	13.91	8.76	8.79	9.92	13.60	9.09	8.94	10.27	13.94	9.29	9.14	9.47	9.67
Pacific	12.02	12.64	12.90	11.30	12.02	12.01	12.94	11.72	12.54	12.63	12.93	11.77	12.01	12.03	12.36
U.S. Average	9.73	13.00	17.74	10.19	9.34	11.97	16.68	10.74	9.83	12.35	16.79	10.70	10.92	10.66	10.94
Commercial Retail															
New England	9.55	9.97	10.61	9.53	10.13	10.26	10.22	9.87	10.04	10.22	10.27	10.22	9.71	10.09	10.14
Middle Atlantic	7.66	7.42	6.82	7.37	7.64	7.42	6.95	7.60	7.79	7.63	7.06	7.57	7.43	7.50	7.61
E. N. Central	6.63	7.90	8.98	6.21	6.23	7.33	8.88	7.04	6.79	7.79	9.10	7.09	6.84	6.82	7.20
W. N. Central	6.96	7.80	9.11	7.04	7.42	7.74	8.92	7.37	7.57	7.95	9.03	7.43	7.28	7.58	7.70
S. Atlantic	8.88	9.97	9.54	8.91	8.65	9.22	9.91	9.12	8.91	9.62	9.91	8.86	9.15	9.05	9.14
E. S. Central	9.05	10.28	10.76	9.30	8.62	9.56	10.09	9.08	8.64	9.59	10.12	9.09	9.53	9.07	9.09
W. S. Central	7.63	8.20	8.86	8.18	7.37	7.42	8.35	7.82	7.38	7.78	8.35	7.76	8.09	7.64	7.71
Mountain	6.88	7.37	8.27	7.21	7.70	7.82	8.52	7.43	7.60	7.83	8.54	7.45	7.22	7.73	7.70
Pacific	9.09	9.06	9.08	8.54	8.67	8.24	8.77	8.55	8.77	8.83	9.13	8.77	8.92	8.56	8.84
U.S. Average	7.71	8.33	8.68	7.56	7.62	8.01	8.58	7.93	7.85	8.31	8.70	7.96	7.87	7.88	8.05
Industrial Retail															
New England	7.81	7.04	6.39	7.05	7.85	7.33	6.99	8.17	8.57	7.74	7.05	7.96	7.19	7.67	7.96
Middle Atlantic	7.69	7.59	7.62	7.18	8.03	7.28	7.33	7.63	8.04	7.41	7.42	7.64	7.53	7.72	7.75
E. N. Central	5.86	5.96	5.59	5.30	6.20	5.87	5.96	5.92	6.50	6.16	6.10	6.04	5.66	6.04	6.26
W. N. Central	5.00	4.28	4.24	4.68	5.37	4.56	4.56	5.16	5.64	4.81	4.66	5.23	4.59	4.96	5.14
S. Atlantic	5.35	5.00	4.88	4.93	5.34	4.66	4.91	5.27	5.55	4.92	4.89	5.19	5.05	5.06	5.16
E. S. Central	5.06	4.59	4.40	4.56	4.79	4.26	4.44	4.90	5.09	4.57	4.52	4.87	4.67	4.61	4.78
W. S. Central	3.42	3.42	3.30	3.14	3.39	3.09	3.36	3.47	3.56	3.26	3.40	3.46	3.32	3.33	3.42
Mountain	5.31	5.36	5.61	5.50	5.69	5.56	6.05	6.12	6.20	5.84	6.04	6.06	5.43	5.85	6.05
Pacific	7.31	6.71	6.32	6.35	6.80	6.24	6.54	6.72	7.13	6.53	6.66	6.72	6.71	6.59	6.78
U.S. Average	4.50	4.11	3.89	4.00	4.46	3.80	3.97	4.36	4.69	4.02	4.02	4.36	4.14	4.17	4.29

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million short tons)															
Production	197.0	187.1	196.2	192.0	<i>187.1</i>	<i>165.2</i>	<i>194.7</i>	<i>189.2</i>	<i>192.5</i>	<i>160.5</i>	<i>203.7</i>	<i>187.9</i>	772.3	736.3	744.6
Appalachia	50.7	51.2	46.3	47.7	<i>49.3</i>	<i>43.7</i>	<i>41.1</i>	<i>40.3</i>	<i>45.8</i>	<i>40.6</i>	<i>41.6</i>	<i>39.9</i>	196.0	174.5	167.9
Interior	38.5	36.4	34.9	34.8	<i>34.7</i>	<i>31.1</i>	<i>38.3</i>	<i>39.1</i>	<i>41.9</i>	<i>30.8</i>	<i>39.0</i>	<i>38.3</i>	144.6	143.1	149.9
Western	107.8	99.4	115.0	109.5	<i>103.1</i>	<i>90.4</i>	<i>115.3</i>	<i>109.8</i>	<i>104.8</i>	<i>89.1</i>	<i>123.1</i>	<i>109.8</i>	431.7	418.7	426.8
Primary Inventory Withdrawals	0.1	1.8	1.4	1.0	<i>-2.5</i>	<i>2.5</i>	<i>1.4</i>	<i>-0.1</i>	<i>-3.6</i>	<i>1.9</i>	<i>1.6</i>	<i>-2.5</i>	4.3	1.2	-2.6
Imports	1.9	2.2	2.3	1.4	<i>0.9</i>	<i>2.1</i>	<i>2.9</i>	<i>2.6</i>	<i>1.4</i>	<i>2.3</i>	<i>2.9</i>	<i>2.6</i>	7.8	8.5	9.3
Exports	22.3	21.8	24.6	28.2	<i>22.8</i>	<i>19.7</i>	<i>19.3</i>	<i>18.9</i>	<i>19.3</i>	<i>18.5</i>	<i>19.7</i>	<i>19.5</i>	97.0	80.6	76.9
Metallurgical Coal	12.2	13.5	14.8	14.8	<i>13.8</i>	<i>13.7</i>	<i>13.8</i>	<i>13.7</i>	<i>13.7</i>	<i>13.3</i>	<i>13.6</i>	<i>13.3</i>	55.3	54.9	53.8
Steam Coal	10.1	8.3	9.8	13.4	<i>8.9</i>	<i>6.0</i>	<i>5.6</i>	<i>5.2</i>	<i>5.6</i>	<i>5.3</i>	<i>6.1</i>	<i>6.2</i>	41.7	25.7	23.1
Total Primary Supply	176.8	169.2	175.3	166.1	<i>162.8</i>	<i>150.2</i>	<i>179.6</i>	<i>172.9</i>	<i>171.1</i>	<i>146.1</i>	<i>188.6</i>	<i>168.6</i>	687.4	665.4	674.3
Secondary Inventory Withdrawals	1.0	3.7	18.2	2.8	<i>2.3</i>	<i>2.6</i>	<i>12.8</i>	<i>-8.0</i>	<i>0.9</i>	<i>2.3</i>	<i>6.2</i>	<i>-9.3</i>	25.7	9.7	0.1
Waste Coal (a)	2.5	1.8	2.3	2.5	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	<i>2.4</i>	9.2	9.6	9.6
Total Supply	180.3	174.7	195.8	171.5	<i>167.4</i>	<i>155.1</i>	<i>194.8</i>	<i>167.3</i>	<i>174.4</i>	<i>150.7</i>	<i>197.2</i>	<i>161.7</i>	722.3	684.7	684.0
Consumption (million short tons)															
Coke Plants	4.2	4.3	4.5	5.7	<i>4.8</i>	<i>4.3</i>	<i>4.9</i>	<i>5.7</i>	<i>4.0</i>	<i>3.6</i>	<i>4.3</i>	<i>5.3</i>	18.8	19.6	17.2
Electric Power Sector (b)	160.3	154.2	190.6	159.6	<i>151.6</i>	<i>142.7</i>	<i>181.8</i>	<i>153.2</i>	<i>161.6</i>	<i>139.0</i>	<i>184.7</i>	<i>147.9</i>	664.7	629.3	633.2
Retail and Other Industry	8.9	8.3	8.8	8.6	<i>8.9</i>	<i>8.1</i>	<i>8.2</i>	<i>8.4</i>	<i>8.8</i>	<i>8.2</i>	<i>8.2</i>	<i>8.4</i>	34.6	33.6	33.6
Residential and Commercial	0.4	0.2	0.2	0.2	<i>0.3</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.2</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	1.0	0.7	0.5
Other Industrial	8.5	8.1	8.6	8.4	<i>8.6</i>	<i>8.0</i>	<i>8.0</i>	<i>8.3</i>	<i>8.6</i>	<i>8.1</i>	<i>8.1</i>	<i>8.3</i>	33.6	32.9	33.1
Total Consumption	173.5	166.8	203.9	173.9	<i>165.2</i>	<i>155.1</i>	<i>194.8</i>	<i>167.3</i>	<i>174.4</i>	<i>150.7</i>	<i>197.2</i>	<i>161.7</i>	718.1	682.5	684.0
Discrepancy (c)	6.8	7.9	-8.1	-2.4	<i>2.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	4.2	2.2	0.0
End-of-period Inventories (million short tons)															
Primary Inventories (d)	25.2	23.4	22.0	21.0	<i>23.6</i>	<i>21.1</i>	<i>19.7</i>	<i>19.8</i>	<i>23.4</i>	<i>21.5</i>	<i>19.9</i>	<i>22.4</i>	21.0	19.8	22.4
Secondary Inventories	166.7	163.0	144.9	142.0	<i>139.8</i>	<i>137.2</i>	<i>124.3</i>	<i>132.3</i>	<i>131.4</i>	<i>129.1</i>	<i>122.9</i>	<i>132.2</i>	142.0	132.3	132.2
Electric Power Sector	161.7	157.8	139.4	137.2	<i>135.2</i>	<i>132.2</i>	<i>119.2</i>	<i>127.2</i>	<i>126.6</i>	<i>123.9</i>	<i>117.5</i>	<i>126.8</i>	137.2	127.2	126.8
Retail and General Industry	3.2	3.3	3.5	2.9	<i>3.0</i>	<i>3.0</i>	<i>3.1</i>	<i>3.0</i>	<i>3.2</i>	<i>3.2</i>	<i>3.4</i>	<i>3.3</i>	2.9	3.0	3.3
Coke Plants	1.4	1.6	1.7	1.8	<i>1.4</i>	<i>1.8</i>	<i>1.9</i>	<i>1.9</i>	<i>1.4</i>	<i>1.8</i>	<i>1.8</i>	<i>1.9</i>	1.8	1.9	1.9
Coal Market Indicators															
Coal Miner Productivity															
(Tons per hour)	6.19	6.19	6.19	6.19	<i>6.10</i>	<i>6.10</i>	<i>6.10</i>	<i>6.10</i>	<i>6.02</i>	<i>6.02</i>	<i>6.02</i>	<i>6.02</i>	6.19	6.10	6.02
Total Raw Steel Production															
(Million short tons per day)	0.248	0.247	0.250	0.245	<i>0.254</i>	<i>0.260</i>	<i>0.241</i>	<i>0.208</i>	<i>0.263</i>	<i>0.262</i>	<i>0.240</i>	<i>0.205</i>	0.248	0.240	0.243
Cost of Coal to Electric Utilities															
(Dollars per million Btu)	2.08	2.12	2.07	2.04	<i>2.20</i>	<i>2.20</i>	<i>2.21</i>	<i>2.19</i>	<i>2.21</i>	<i>2.19</i>	<i>2.22</i>	<i>2.18</i>	2.08	2.20	2.20

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Electricity Supply (billion kilowatthours per day)															
Electricity Generation	10.58	10.69	12.15	10.57	<i>10.89</i>	<i>10.87</i>	<i>12.38</i>	<i>10.54</i>	<i>11.11</i>	<i>10.96</i>	<i>12.50</i>	<i>10.63</i>	11.00	<i>11.17</i>	<i>11.30</i>
Electric Power Sector (a)	10.15	10.27	11.71	10.14	<i>10.46</i>	<i>10.44</i>	<i>11.93</i>	<i>10.11</i>	<i>10.66</i>	<i>10.52</i>	<i>12.03</i>	<i>10.18</i>	10.57	<i>10.74</i>	<i>10.85</i>
Comm. and Indus. Sectors (b)	0.43	0.42	0.44	0.42	<i>0.43</i>	<i>0.43</i>	<i>0.46</i>	<i>0.44</i>	<i>0.45</i>	<i>0.45</i>	<i>0.47</i>	<i>0.45</i>	0.43	<i>0.44</i>	<i>0.45</i>
Net Imports	0.15	0.15	0.17	0.13	<i>0.17</i>	<i>0.19</i>	<i>0.20</i>	<i>0.16</i>	<i>0.16</i>	<i>0.17</i>	<i>0.19</i>	<i>0.15</i>	0.15	<i>0.18</i>	<i>0.17</i>
Total Supply	10.73	10.84	12.32	10.70	<i>11.06</i>	<i>11.06</i>	<i>12.59</i>	<i>10.70</i>	<i>11.27</i>	<i>11.13</i>	<i>12.69</i>	<i>10.78</i>	11.15	<i>11.35</i>	<i>11.47</i>
Losses and Unaccounted for (c)	0.59	0.76	0.66	0.72	<i>0.44</i>	<i>0.82</i>	<i>0.72</i>	<i>0.67</i>	<i>0.59</i>	<i>0.83</i>	<i>0.73</i>	<i>0.67</i>	0.68	<i>0.66</i>	<i>0.71</i>
Electricity Consumption (billion kilowatthours per day unless noted)															
Retail Sales	9.75	9.70	11.28	9.60	<i>10.24</i>	<i>9.86</i>	<i>11.46</i>	<i>9.65</i>	<i>10.29</i>	<i>9.90</i>	<i>11.54</i>	<i>9.71</i>	10.09	<i>10.30</i>	<i>10.36</i>
Residential Sector	3.71	3.43	4.46	3.51	<i>4.04</i>	<i>3.52</i>	<i>4.56</i>	<i>3.52</i>	<i>4.06</i>	<i>3.53</i>	<i>4.60</i>	<i>3.55</i>	3.78	<i>3.91</i>	<i>3.93</i>
Commercial Sector	3.51	3.64	4.08	3.55	<i>3.57</i>	<i>3.67</i>	<i>4.12</i>	<i>3.56</i>	<i>3.58</i>	<i>3.69</i>	<i>4.15</i>	<i>3.58</i>	3.70	<i>3.73</i>	<i>3.75</i>
Industrial Sector	2.50	2.62	2.72	2.53	<i>2.61</i>	<i>2.65</i>	<i>2.76</i>	<i>2.55</i>	<i>2.63</i>	<i>2.67</i>	<i>2.78</i>	<i>2.56</i>	2.59	<i>2.64</i>	<i>2.66</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	0.37	0.38	0.37	<i>0.38</i>	<i>0.38</i>	<i>0.40</i>	<i>0.38</i>	<i>0.39</i>	<i>0.39</i>	<i>0.42</i>	<i>0.40</i>	0.38	<i>0.39</i>	<i>0.40</i>
Total Consumption	10.13	10.08	11.66	9.98	<i>10.62</i>	<i>10.24</i>	<i>11.86</i>	<i>10.03</i>	<i>10.69</i>	<i>10.30</i>	<i>11.96</i>	<i>10.10</i>	10.47	<i>10.69</i>	<i>10.76</i>
Average residential electricity usage per customer (kWh)	2,532	2,365	3,109	2,446	<i>2,681</i>	<i>2,399</i>	<i>3,143</i>	<i>2,427</i>	<i>2,700</i>	<i>2,373</i>	<i>3,125</i>	<i>2,415</i>	10,453	<i>10,650</i>	<i>10,612</i>
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	2.08	2.12	2.07	2.04	<i>2.20</i>	<i>2.20</i>	<i>2.21</i>	<i>2.19</i>	<i>2.21</i>	<i>2.19</i>	<i>2.22</i>	<i>2.18</i>	2.08	<i>2.20</i>	<i>2.20</i>
Natural Gas	3.69	3.38	3.19	3.39	<i>3.82</i>	<i>3.10</i>	<i>3.26</i>	<i>3.57</i>	<i>3.82</i>	<i>3.21</i>	<i>3.28</i>	<i>3.51</i>	3.39	<i>3.41</i>	<i>3.43</i>
Residual Fuel Oil	11.16	10.60	10.03	10.95	<i>12.26</i>	<i>12.73</i>	<i>11.63</i>	<i>11.25</i>	<i>11.49</i>	<i>12.14</i>	<i>11.68</i>	<i>11.64</i>	10.68	<i>12.00</i>	<i>11.71</i>
Distillate Fuel Oil	12.74	12.23	13.13	14.72	<i>16.06</i>	<i>15.16</i>	<i>14.81</i>	<i>14.83</i>	<i>14.60</i>	<i>14.73</i>	<i>15.07</i>	<i>15.39</i>	13.32	<i>15.47</i>	<i>14.93</i>
Retail Prices (cents per kilowatthour)															
Residential Sector	12.59	12.99	13.19	12.75	<i>12.71</i>	<i>13.29</i>	<i>13.48</i>	<i>13.15</i>	<i>13.18</i>	<i>13.77</i>	<i>13.87</i>	<i>13.44</i>	12.90	<i>13.17</i>	<i>13.57</i>
Commercial Sector	10.39	10.68	11.03	10.56	<i>10.49</i>	<i>10.85</i>	<i>11.31</i>	<i>10.87</i>	<i>10.68</i>	<i>10.93</i>	<i>11.31</i>	<i>10.92</i>	10.68	<i>10.90</i>	<i>10.97</i>
Industrial Sector	6.64	6.89	7.27	6.79	<i>6.81</i>	<i>7.03</i>	<i>7.50</i>	<i>7.02</i>	<i>6.86</i>	<i>7.11</i>	<i>7.60</i>	<i>7.10</i>	6.91	<i>7.10</i>	<i>7.18</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	142	119	143	126	142	121	149	126	142	121	149	126	133	135	135
Middle Atlantic	368	307	403	327	391	312	414	322	392	312	414	322	351	360	360
E. N. Central	507	435	545	475	552	444	566	467	547	443	567	468	491	507	506
W. N. Central	298	246	303	261	335	256	319	263	329	258	323	268	277	293	294
S. Atlantic	891	891	1,131	889	1,025	911	1,149	889	1,040	913	1,157	896	951	993	1,001
E. S. Central	305	277	368	288	350	291	386	291	351	291	388	292	310	330	331
W. S. Central	501	536	760	516	575	567	792	528	558	568	804	537	579	616	617
Mountain	245	259	347	232	245	259	351	234	252	262	356	238	271	272	277
Pacific contiguous	439	346	447	381	416	349	424	389	433	349	426	391	404	394	400
AK and HI	14	12	12	13	13	12	12	13	13	12	12	13	13	13	13
Total	3,712	3,428	4,458	3,507	4,042	3,521	4,562	3,523	4,059	3,528	4,596	3,552	3,778	3,912	3,934
Commercial Sector															
New England	155	150	168	149	142	147	166	147	141	146	164	144	156	151	149
Middle Atlantic	423	404	462	412	427	403	464	409	426	402	462	408	425	426	424
E. N. Central	489	486	537	482	495	489	545	481	497	490	546	482	498	502	504
W. N. Central	272	270	302	269	278	272	307	271	279	274	310	273	278	282	284
S. Atlantic	785	853	941	807	803	855	946	806	805	856	949	807	847	853	855
E. S. Central	225	241	275	229	234	245	280	229	236	247	284	231	243	247	250
W. S. Central	471	522	598	501	498	545	619	513	507	559	637	524	523	544	557
Mountain	246	265	301	249	245	265	304	251	248	267	307	253	265	266	269
Pacific contiguous	431	431	480	438	432	430	469	437	431	431	470	438	445	442	443
AK and HI	16	16	16	16	16	16	16	16	16	15	16	16	16	16	16
Total	3,513	3,637	4,079	3,551	3,569	3,667	4,116	3,559	3,584	3,688	4,147	3,577	3,696	3,729	3,750
Industrial Sector															
New England	46	46	49	47	44	44	47	45	42	43	46	44	47	45	44
Middle Atlantic	192	194	204	195	200	195	207	196	202	197	209	197	196	200	201
E. N. Central	495	504	522	489	529	510	528	491	530	511	529	491	502	515	515
W. N. Central	228	240	253	235	244	248	261	240	250	255	268	246	239	248	255
S. Atlantic	362	386	390	372	366	380	388	367	362	376	384	362	377	376	371
E. S. Central	267	275	280	262	272	278	284	261	271	277	282	258	271	274	272
W. S. Central	480	503	511	484	505	515	526	496	517	527	538	506	495	511	522
Mountain	210	228	245	210	217	232	250	214	221	236	253	217	223	228	232
Pacific contiguous	211	230	253	220	218	232	256	222	220	234	257	222	229	232	233
AK and HI	13	14	14	13	14	14	14	13	14	14	14	13	14	14	14
Total	2,504	2,619	2,722	2,526	2,609	2,649	2,763	2,546	2,627	2,669	2,780	2,558	2,593	2,642	2,659
Total All Sectors (a)															
New England	345	317	362	323	330	314	364	320	327	311	361	316	337	332	329
Middle Atlantic	994	915	1,079	943	1,029	921	1,095	937	1,030	920	1,095	937	983	996	996
E. N. Central	1,493	1,427	1,605	1,447	1,578	1,444	1,641	1,441	1,576	1,445	1,644	1,442	1,493	1,526	1,527
W. N. Central	798	755	857	765	856	776	887	775	858	787	901	787	794	824	833
S. Atlantic	2,042	2,134	2,465	2,070	2,197	2,149	2,488	2,065	2,211	2,149	2,494	2,069	2,179	2,225	2,231
E. S. Central	797	793	924	779	856	814	951	781	858	814	954	782	823	851	852
W. S. Central	1,452	1,561	1,869	1,501	1,579	1,628	1,937	1,537	1,582	1,655	1,980	1,568	1,597	1,671	1,697
Mountain	701	752	893	691	707	756	905	700	721	766	917	708	760	767	778
Pacific contiguous	1,084	1,010	1,184	1,042	1,068	1,013	1,151	1,050	1,086	1,017	1,155	1,054	1,080	1,071	1,078
AK and HI	43	41	43	43	43	41	43	42	42	41	42	42	42	42	42
Total	9,750	9,704	11,280	9,605	10,242	9,857	11,462	9,647	10,292	9,905	11,543	9,706	10,088	10,303	10,363

- = 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 Kilowatt-hour)
 U.S. Energy Information Administration | Short-Term Energy Outlook - March 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	18.57	18.93	18.97	19.28	19.30	19.53	19.48	20.13	20.21	20.52	20.45	21.01	18.93	19.60	20.54
Middle Atlantic	15.55	16.27	16.43	15.87	15.73	16.54	16.74	16.33	16.20	17.05	17.19	16.71	16.04	16.34	16.79
E. N. Central	12.90	13.58	13.28	13.19	13.11	14.04	13.81	13.88	13.77	14.67	14.30	14.31	13.23	13.69	14.24
W. N. Central	10.93	12.66	13.16	11.51	11.05	12.91	13.49	11.92	11.47	13.29	13.77	12.15	12.07	12.32	12.66
S. Atlantic	11.69	12.01	12.26	11.81	11.93	12.35	12.60	12.22	12.35	12.75	12.92	12.45	11.96	12.29	12.63
E. S. Central	11.08	11.44	11.32	11.20	10.95	11.71	11.84	11.82	11.43	12.06	11.91	11.95	11.26	11.58	11.83
W. S. Central	10.55	10.93	10.87	10.76	10.44	10.92	10.93	10.94	10.78	11.26	11.18	11.12	10.79	10.81	11.10
Mountain	11.28	12.15	12.31	11.82	11.58	12.40	12.61	12.17	11.95	12.78	12.94	12.43	11.94	12.24	12.57
Pacific	14.51	14.70	16.50	14.37	15.04	15.32	16.69	14.42	15.50	16.09	17.62	14.88	15.07	15.39	16.04
U.S. Average	12.59	12.99	13.19	12.75	12.71	13.29	13.48	13.15	13.18	13.77	13.87	13.44	12.90	13.17	13.57
Commercial Sector															
New England	14.64	14.65	15.30	15.20	15.06	14.70	15.44	15.46	14.88	14.16	14.89	15.16	14.96	15.17	14.77
Middle Atlantic	12.08	12.75	13.34	12.08	11.99	12.75	13.41	12.16	11.99	12.73	13.43	12.32	12.58	12.60	12.64
E. N. Central	10.02	10.24	10.05	10.00	10.08	10.45	10.39	10.34	10.31	10.63	10.44	10.42	10.08	10.32	10.45
W. N. Central	9.12	10.11	10.57	9.26	9.24	10.34	10.90	9.59	9.46	10.59	11.12	9.85	9.79	10.05	10.28
S. Atlantic	9.44	9.38	9.55	9.54	9.70	9.60	9.83	9.88	10.16	9.85	9.92	9.94	9.48	9.75	9.96
E. S. Central	10.57	10.56	10.62	10.57	10.72	10.94	11.25	11.24	10.81	10.97	11.04	11.17	10.58	11.05	11.00
W. S. Central	8.37	8.40	8.38	8.28	8.21	8.27	8.32	8.29	7.95	7.93	8.03	8.24	8.36	8.28	8.04
Mountain	9.14	9.92	10.04	9.50	9.35	10.18	10.29	9.75	9.38	10.21	10.34	9.83	9.68	9.92	9.97
Pacific	12.53	13.56	15.36	13.61	12.73	14.10	16.26	14.30	13.53	14.68	16.69	14.45	13.82	14.40	14.88
U.S. Average	10.39	10.68	11.03	10.56	10.49	10.85	11.31	10.87	10.68	10.93	11.31	10.92	10.68	10.90	10.97
Industrial Sector															
New England	12.38	12.19	12.55	12.37	12.75	12.51	12.90	12.71	13.24	12.83	13.12	12.84	12.38	12.72	13.01
Middle Atlantic	6.94	6.94	6.88	6.81	7.06	6.94	6.97	6.93	6.91	6.86	6.95	6.89	6.89	6.98	6.90
E. N. Central	7.03	7.05	7.04	6.96	7.20	7.22	7.30	7.23	7.26	7.30	7.37	7.29	7.02	7.24	7.31
W. N. Central	6.89	7.35	8.08	6.86	7.03	7.55	8.34	7.09	7.15	7.67	8.46	7.20	7.31	7.52	7.64
S. Atlantic	6.32	6.39	6.79	6.34	6.56	6.56	7.08	6.64	6.56	6.62	7.16	6.69	6.46	6.72	6.76
E. S. Central	5.90	5.96	6.18	5.88	6.00	6.08	6.44	6.17	6.11	6.21	6.58	6.29	5.98	6.18	6.30
W. S. Central	5.28	5.56	5.72	5.41	5.48	5.62	5.93	5.63	5.40	5.66	6.03	5.73	5.50	5.67	5.71
Mountain	6.08	6.54	7.12	6.13	6.06	6.58	7.23	6.25	6.24	6.77	7.44	6.43	6.50	6.56	6.75
Pacific	8.23	9.35	10.74	9.73	8.45	9.59	10.90	9.85	8.56	9.67	10.96	9.90	9.58	9.75	9.83
U.S. Average	6.64	6.89	7.27	6.79	6.81	7.03	7.50	7.02	6.86	7.11	7.60	7.10	6.91	7.10	7.18
All Sectors (a)															
New England	15.94	15.88	16.35	16.35	16.54	16.22	16.74	16.89	16.96	16.42	16.94	17.15	16.13	16.61	16.87
Middle Atlantic	12.36	12.69	13.26	12.30	12.45	12.79	13.44	12.49	12.58	12.92	13.60	12.67	12.67	12.81	12.97
E. N. Central	10.01	10.13	10.17	10.01	10.20	10.41	10.57	10.43	10.48	10.69	10.78	10.62	10.08	10.40	10.64
W. N. Central	9.16	10.06	10.75	9.29	9.33	10.30	11.07	9.61	9.56	10.53	11.28	9.80	9.84	10.10	10.31
S. Atlantic	9.86	9.94	10.35	9.93	10.19	10.23	10.68	10.31	10.60	10.52	10.88	10.45	10.04	10.37	10.62
E. S. Central	9.21	9.27	9.55	9.23	9.32	9.55	10.05	9.76	9.58	9.74	10.08	9.85	9.33	9.69	9.82
W. S. Central	8.10	8.35	8.67	8.21	8.16	8.35	8.74	8.34	8.11	8.35	8.77	8.42	8.35	8.42	8.43
Mountain	8.97	9.67	10.12	9.26	9.13	9.84	10.35	9.49	9.31	10.03	10.54	9.66	9.55	9.75	9.94
Pacific	12.49	12.98	14.79	13.06	12.79	13.47	15.21	13.39	13.30	14.00	15.74	13.64	13.38	13.76	14.20
U.S. Average	10.26	10.47	10.98	10.37	10.44	10.69	11.25	10.69	10.69	10.91	11.43	10.84	10.54	10.79	10.98

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

U.S. Energy Information Administration | Short-Term Energy Outlook - March 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Fuel Consumption for Electricity Generation, All Sectors															
United States															
Coal (thousand st/d)	1,777	1,692	2,068	1,731	1,678	1,563	1,971	1,658	1,788	1,521	2,002	1,602	1,818	1,718	1,729
Natural Gas (million cf/d)	21,452	24,555	32,799	24,545	24,620	27,351	34,925	25,475	25,188	27,976	35,004	26,443	25,865	28,114	28,674
Petroleum (thousand b/d)	107	100	105	111	171	105	116	101	136	106	116	101	106	123	115
Residual Fuel Oil	26	27	28	33	44	26	30	26	41	26	29	26	29	31	30
Distillate Fuel Oil	28	24	23	32	67	24	23	26	32	24	23	26	27	35	26
Petroleum Coke (a)	49	45	48	42	54	52	59	46	58	53	60	46	46	53	54
Other Petroleum Liquids (b)	4	4	7	5	5	3	4	4	5	3	4	4	5	4	4
Northeast Census Region															
Coal (thousand st/d)	75	63	66	65	104	93	114	104	129	99	127	107	67	104	115
Natural Gas (million cf/d)	3,603	3,640	4,893	3,706	4,053	4,241	5,631	4,266	4,117	4,243	5,578	4,413	3,963	4,551	4,591
Petroleum (thousand b/d)	7	4	7	18	59	4	7	7	24	4	7	7	9	19	11
South Census Region															
Coal (thousand st/d)	715	761	902	705	671	684	871	684	721	653	850	646	771	728	718
Natural Gas (million cf/d)	12,471	15,401	19,033	14,045	14,125	16,544	19,809	14,105	14,171	16,886	20,311	14,682	15,252	16,156	16,524
Petroleum (thousand b/d)	47	42	43	40	57	47	52	42	56	48	52	42	43	49	49
Midwest Census Region															
Coal (thousand st/d)	717	655	787	688	676	607	737	629	697	613	766	625	712	662	675
Natural Gas (million cf/d)	2,186	2,134	3,249	2,676	2,903	2,874	4,091	3,069	3,031	2,937	3,822	3,083	2,564	3,237	3,220
Petroleum (thousand b/d)	15	16	16	16	18	18	20	17	20	19	20	17	16	18	19
West Census Region															
Coal (thousand st/d)	269	213	313	273	227	178	249	240	241	157	260	223	267	224	220
Natural Gas (million cf/d)	3,192	3,378	5,624	4,117	3,539	3,693	5,395	4,034	3,869	3,910	5,294	4,264	4,085	4,170	4,338
Petroleum (thousand b/d)	39	37	39	37	36	35	37	36	37	35	37	35	38	36	36
End-of-period U.S. Fuel Inventories Held by Electric Power Sector															
Coal (million short tons)	161.7	157.8	139.4	137.2	135.2	132.2	119.2	127.2	126.6	123.9	117.5	126.8	137.2	127.2	126.8
Residual Fuel Oil (mmb)	12.5	11.9	11.4	11.0	11.5	11.5	11.4	12.0	11.9	11.8	11.8	12.3	11.0	12.0	12.3
Distillate Fuel Oil (mmb)	17.0	16.6	16.4	15.8	16.2	16.2	16.3	16.8	16.9	16.8	16.8	17.2	15.8	16.8	17.2
Petroleum Coke (mmb)	4.3	4.3	4.9	5.6	5.4	5.4	5.3	5.1	5.0	5.0	4.9	4.8	5.6	5.1	4.8

(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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Electric Power Sector															
Geothermal	0.037	0.036	0.037	0.037	<i>0.037</i>	<i>0.037</i>	<i>0.038</i>	<i>0.039</i>	<i>0.038</i>	<i>0.038</i>	<i>0.038</i>	<i>0.039</i>	0.147	<i>0.151</i>	<i>0.153</i>
Hydroelectric Power (a)	0.759	0.844	0.605	0.548	<i>0.689</i>	<i>0.725</i>	<i>0.620</i>	<i>0.545</i>	<i>0.631</i>	<i>0.732</i>	<i>0.616</i>	<i>0.547</i>	2.757	<i>2.579</i>	<i>2.526</i>
Solar (b)	0.084	0.155	0.148	0.101	<i>0.099</i>	<i>0.172</i>	<i>0.172</i>	<i>0.110</i>	<i>0.111</i>	<i>0.201</i>	<i>0.207</i>	<i>0.141</i>	0.488	<i>0.553</i>	<i>0.660</i>
Waste Biomass (c)	0.070	0.066	0.068	0.068	<i>0.067</i>	<i>0.071</i>	<i>0.073</i>	<i>0.072</i>	<i>0.070</i>	<i>0.071</i>	<i>0.073</i>	<i>0.073</i>	0.272	<i>0.283</i>	<i>0.287</i>
Wood Biomass	0.061	0.059	0.064	0.063	<i>0.061</i>	<i>0.057</i>	<i>0.070</i>	<i>0.063</i>	<i>0.063</i>	<i>0.060</i>	<i>0.073</i>	<i>0.066</i>	0.247	<i>0.251</i>	<i>0.261</i>
Wind	0.644	0.634	0.429	0.660	<i>0.648</i>	<i>0.662</i>	<i>0.475</i>	<i>0.669</i>	<i>0.691</i>	<i>0.715</i>	<i>0.512</i>	<i>0.724</i>	2.367	<i>2.454</i>	<i>2.642</i>
Subtotal	1.654	1.794	1.352	1.477	<i>1.602</i>	<i>1.723</i>	<i>1.448</i>	<i>1.498</i>	<i>1.604</i>	<i>1.817</i>	<i>1.520</i>	<i>1.589</i>	6.278	<i>6.271</i>	<i>6.530</i>
Industrial Sector															
Biofuel Losses and Co-products (d)	0.203	0.199	0.204	0.211	<i>0.200</i>	<i>0.206</i>	<i>0.209</i>	<i>0.208</i>	<i>0.204</i>	<i>0.208</i>	<i>0.211</i>	<i>0.210</i>	0.817	<i>0.823</i>	<i>0.832</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	0.004	0.003	0.003	<i>0.003</i>	<i>0.004</i>	<i>0.003</i>	<i>0.003</i>	<i>0.003</i>	<i>0.004</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	0.007	0.005	<i>0.006</i>	<i>0.008</i>	<i>0.008</i>	<i>0.006</i>	<i>0.007</i>	<i>0.010</i>	<i>0.010</i>	<i>0.007</i>	0.024	<i>0.029</i>	<i>0.033</i>
Waste Biomass (c)	0.044	0.040	0.038	0.044	<i>0.042</i>	<i>0.040</i>	<i>0.040</i>	<i>0.042</i>	<i>0.042</i>	<i>0.040</i>	<i>0.040</i>	<i>0.042</i>	0.166	<i>0.164</i>	<i>0.164</i>
Wood Biomass	0.370	0.361	0.375	0.355	<i>0.359</i>	<i>0.348</i>	<i>0.358</i>	<i>0.344</i>	<i>0.348</i>	<i>0.345</i>	<i>0.357</i>	<i>0.344</i>	1.460	<i>1.408</i>	<i>1.395</i>
Subtotal	0.625	0.609	0.625	0.619	<i>0.609</i>	<i>0.603</i>	<i>0.615</i>	<i>0.604</i>	<i>0.602</i>	<i>0.603</i>	<i>0.617</i>	<i>0.605</i>	2.479	<i>2.431</i>	<i>2.428</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)	0.015	0.023	0.023	0.016	<i>0.019</i>	<i>0.029</i>	<i>0.029</i>	<i>0.021</i>	<i>0.024</i>	<i>0.034</i>	<i>0.035</i>	<i>0.025</i>	0.077	<i>0.098</i>	<i>0.119</i>
Waste Biomass (c)	0.011	0.011	0.011	0.011	<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>	0.045	<i>0.045</i>	<i>0.045</i>
Wood Biomass	0.020	0.020	0.020	0.020	<i>0.020</i>	<i>0.020</i>	<i>0.021</i>	<i>0.020</i>	<i>0.020</i>	<i>0.021</i>	<i>0.021</i>	<i>0.020</i>	0.081	<i>0.081</i>	<i>0.081</i>
Subtotal	0.058	0.066	0.067	0.060	<i>0.062</i>	<i>0.073</i>	<i>0.073</i>	<i>0.064</i>	<i>0.067</i>	<i>0.079</i>	<i>0.079</i>	<i>0.069</i>	0.251	<i>0.273</i>	<i>0.293</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>	0.040	<i>0.052</i>	<i>0.053</i>
Solar (e)	0.037	0.057	0.058	0.041	<i>0.043</i>	<i>0.065</i>	<i>0.068</i>	<i>0.048</i>	<i>0.050</i>	<i>0.075</i>	<i>0.077</i>	<i>0.054</i>	0.192	<i>0.223</i>	<i>0.257</i>
Wood Biomass	0.094	0.095	0.096	0.097	<i>0.103</i>	<i>0.103</i>	<i>0.104</i>	<i>0.104</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	<i>0.105</i>	0.382	<i>0.413</i>	<i>0.420</i>
Subtotal	0.140	0.162	0.164	0.148	<i>0.158</i>	<i>0.181</i>	<i>0.184</i>	<i>0.165</i>	<i>0.168</i>	<i>0.193</i>	<i>0.195</i>	<i>0.173</i>	0.614	<i>0.688</i>	<i>0.729</i>
Transportation Sector															
Biomass-based Diesel (f)	0.054	0.079	0.080	0.066	<i>0.057</i>	<i>0.081</i>	<i>0.092</i>	<i>0.095</i>	<i>0.069</i>	<i>0.088</i>	<i>0.100</i>	<i>0.104</i>	0.279	<i>0.325</i>	<i>0.361</i>
Ethanol (f)	0.270	0.290	0.293	0.295	<i>0.273</i>	<i>0.298</i>	<i>0.302</i>	<i>0.293</i>	<i>0.278</i>	<i>0.300</i>	<i>0.304</i>	<i>0.296</i>	1.149	<i>1.165</i>	<i>1.178</i>
Subtotal	0.324	0.370	0.373	0.372	<i>0.330</i>	<i>0.378</i>	<i>0.394</i>	<i>0.388</i>	<i>0.347</i>	<i>0.388</i>	<i>0.405</i>	<i>0.399</i>	1.439	<i>1.490</i>	<i>1.539</i>
All Sectors Total															
Biomass-based Diesel (f)	0.054	0.079	0.080	0.066	<i>0.057</i>	<i>0.081</i>	<i>0.092</i>	<i>0.095</i>	<i>0.069</i>	<i>0.088</i>	<i>0.100</i>	<i>0.104</i>	0.279	<i>0.325</i>	<i>0.361</i>
Biofuel Losses and Co-products (d)	0.203	0.199	0.204	0.211	<i>0.200</i>	<i>0.206</i>	<i>0.209</i>	<i>0.208</i>	<i>0.204</i>	<i>0.208</i>	<i>0.211</i>	<i>0.210</i>	0.817	<i>0.823</i>	<i>0.832</i>
Ethanol (f)	0.281	0.301	0.304	0.302	<i>0.292</i>	<i>0.309</i>	<i>0.313</i>	<i>0.304</i>	<i>0.288</i>	<i>0.312</i>	<i>0.316</i>	<i>0.307</i>	1.189	<i>1.218</i>	<i>1.223</i>
Geothermal	0.053	0.052	0.053	0.054	<i>0.056</i>	<i>0.056</i>	<i>0.057</i>	<i>0.058</i>	<i>0.057</i>	<i>0.057</i>	<i>0.057</i>	<i>0.058</i>	0.212	<i>0.227</i>	<i>0.229</i>
Hydroelectric Power (a)	0.763	0.849	0.609	0.552	<i>0.693</i>	<i>0.729</i>	<i>0.623</i>	<i>0.549</i>	<i>0.635</i>	<i>0.736</i>	<i>0.620</i>	<i>0.550</i>	2.772	<i>2.594</i>	<i>2.542</i>
Solar (b)(e)	0.138	0.239	0.234	0.158	<i>0.167</i>	<i>0.274</i>	<i>0.278</i>	<i>0.185</i>	<i>0.191</i>	<i>0.321</i>	<i>0.330</i>	<i>0.228</i>	0.770	<i>0.904</i>	<i>1.069</i>
Waste Biomass (c)	0.126	0.117	0.117	0.124	<i>0.120</i>	<i>0.122</i>	<i>0.124</i>	<i>0.126</i>	<i>0.122</i>	<i>0.123</i>	<i>0.125</i>	<i>0.126</i>	0.484	<i>0.492</i>	<i>0.496</i>
Wood Biomass	0.546	0.535	0.555	0.536	<i>0.542</i>	<i>0.528</i>	<i>0.552</i>	<i>0.531</i>	<i>0.537</i>	<i>0.531</i>	<i>0.556</i>	<i>0.535</i>	2.172	<i>2.154</i>	<i>2.158</i>
Wind	0.644	0.634	0.429	0.660	<i>0.648</i>	<i>0.662</i>	<i>0.475</i>	<i>0.669</i>	<i>0.691</i>	<i>0.715</i>	<i>0.512</i>	<i>0.724</i>	2.367	<i>2.454</i>	<i>2.642</i>
Total Consumption	2.802	3.001	2.582	2.669	<i>2.762</i>	<i>2.958</i>	<i>2.714</i>	<i>2.719</i>	<i>2.787</i>	<i>3.080</i>	<i>2.816</i>	<i>2.835</i>	11.054	<i>11.154</i>	<i>11.519</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Renewable Energy Electric Generating Capacity (megawatts, end of period)															
Electric Power Sector (a)															
Biomass	7,332	7,371	7,424	7,418	7,473	7,567	7,567	7,601	7,667	7,667	7,709	7,709	7,418	7,601	7,709
Waste	4,205	4,244	4,247	4,246	4,302	4,302	4,302	4,335	4,337	4,337	4,337	4,337	4,246	4,335	4,337
Wood	3,127	3,127	3,177	3,172	3,172	3,265	3,265	3,265	3,330	3,330	3,372	3,372	3,172	3,265	3,372
Conventional Hydroelectric	79,561	79,568	79,663	79,701	79,719	79,754	79,875	79,940	79,960	79,987	79,939	79,971	79,701	79,940	79,971
Geothermal	2,456	2,456	2,456	2,493	2,493	2,493	2,493	2,499	2,507	2,507	2,507	2,542	2,493	2,499	2,542
Large-Scale Solar (b)	22,542	23,572	24,066	26,311	27,897	28,767	29,233	30,850	32,488	34,601	35,876	42,173	26,311	30,850	42,173
Wind	82,903	83,365	84,086	87,452	88,486	88,813	89,776	93,989	95,305	96,044	96,909	104,154	87,452	93,989	104,154
Other Sectors (c)															
Biomass	6,766	6,779	6,780	6,780	6,780	6,781	6,790	6,790	6,802	6,779	6,779	6,793	6,780	6,790	6,793
Waste	885	889	890	890	890	890	890	890	902	904	904	918	890	890	918
Wood	5,882	5,891	5,891	5,891	5,891	5,892	5,900	5,900	5,900	5,875	5,875	5,875	5,891	5,900	5,875
Conventional Hydroelectric	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357
Large-Scale Solar (b)	322	338	338	343	350	350	350	349	349	349	349	349	343	349	349
Small-Scale Solar (d)	13,692	14,513	15,310	16,223	17,175	17,962	18,798	19,670	20,487	21,358	22,281	23,244	16,223	19,670	23,244
Residential Sector	8,124	8,618	9,105	9,574	10,051	10,530	11,014	11,502	11,994	12,495	13,000	13,509	9,574	11,502	13,509
Commercial Sector	4,256	4,525	4,767	5,145	5,539	5,785	6,071	6,385	6,647	6,948	7,292	7,666	5,145	6,385	7,666
Industrial Sector	1,312	1,370	1,438	1,504	1,585	1,646	1,713	1,783	1,846	1,915	1,989	2,068	1,504	1,783	2,068
Wind	93	91	91	96	104	104	104	104	104	104	104	104	96	104	104
Renewable Electricity Generation (thousand megawatthours per day)															
Electric Power Sector (a)															
Biomass	90	86	90	90	89	88	98	93	93	91	100	95	89	92	95
Waste	49	47	47	47	48	50	51	50	50	50	51	51	48	50	50
Wood	41	39	43	43	41	39	47	43	43	40	49	44	41	42	44
Conventional Hydroelectric	913	1,005	713	643	822	855	723	636	753	863	719	638	818	758	743
Geothermal	45	43	44	43	45	44	44	45	46	45	45	46	44	45	45
Large-Scale Solar (b)	100	182	173	118	118	203	201	128	132	237	242	165	143	163	194
Wind	767	748	501	770	773	780	554	780	824	843	597	844	696	721	777
Other Sectors (c)															
Biomass	87	84	88	86	87	84	88	86	87	84	88	86	86	86	86
Waste	78	75	79	77	78	75	79	77	78	75	79	77	77	77	77
Wood	10	9	9	9	10	9	9	9	10	9	9	9	9	9	9
Conventional Hydroelectric	5	5	4	4	5	5	4	4	5	5	4	4	5	5	5
Large-Scale Solar (b)	1	2	2	1	2	2	3	2	3	3	3	3	2	2	3
Small-Scale Solar (d)	51	78	79	55	64	96	97	68	77	115	116	81	66	81	97
Residential Sector	29	46	46	31	36	55	56	39	43	66	66	46	38	46	56
Commercial Sector	16	25	25	18	21	31	32	22	26	38	38	27	21	27	32
Industrial Sector	5	8	8	6	7	10	10	7	8	11	11	8	7	8	10
Wind	1	1	0	1	1	1	1	1	1	1	1	1	1	1	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.

(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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Macroeconomic															
Real Gross Domestic Product (billion chained 2009 dollars - SAAR)	16,903	17,031	17,164	17,272	<i>17,369</i>	<i>17,489</i>	<i>17,605</i>	<i>17,723</i>	<i>17,836</i>	<i>17,951</i>	<i>18,056</i>	<i>18,157</i>	17,093	<i>17,546</i>	<i>18,000</i>
Real Personal Consumption Expend. (billion chained 2009 dollars - SAAR)	11,758	11,853	11,917	12,028	<i>12,109</i>	<i>12,189</i>	<i>12,258</i>	<i>12,332</i>	<i>12,396</i>	<i>12,459</i>	<i>12,518</i>	<i>12,582</i>	11,889	<i>12,222</i>	<i>12,489</i>
Real Fixed Investment (billion chained 2009 dollars - SAAR)	2,876	2,898	2,916	2,972	<i>2,991</i>	<i>3,033</i>	<i>3,072</i>	<i>3,110</i>	<i>3,156</i>	<i>3,202</i>	<i>3,250</i>	<i>3,295</i>	2,915	<i>3,052</i>	<i>3,226</i>
Business Inventory Change (billion chained 2009 dollars - SAAR)	0	5	42	9	<i>45</i>	<i>55</i>	<i>65</i>	<i>67</i>	<i>70</i>	<i>77</i>	<i>81</i>	<i>80</i>	14	<i>58</i>	<i>77</i>
Real Government Expenditures (billion chained 2009 dollars - SAAR)	2,897	2,895	2,900	2,921	<i>2,919</i>	<i>2,921</i>	<i>2,922</i>	<i>2,925</i>	<i>2,932</i>	<i>2,937</i>	<i>2,941</i>	<i>2,942</i>	2,903	<i>2,922</i>	<i>2,938</i>
Real Exports of Goods & Services (billion chained 2009 dollars - SAAR)	2,162	2,181	2,192	2,229	<i>2,273</i>	<i>2,295</i>	<i>2,331</i>	<i>2,368</i>	<i>2,401</i>	<i>2,440</i>	<i>2,477</i>	<i>2,510</i>	2,191	<i>2,317</i>	<i>2,457</i>
Real Imports of Goods & Services (billion chained 2009 dollars - SAAR)	2,785	2,795	2,790	2,882	<i>2,962</i>	<i>2,996</i>	<i>3,034</i>	<i>3,070</i>	<i>3,109</i>	<i>3,154</i>	<i>3,202</i>	<i>3,244</i>	2,813	<i>3,015</i>	<i>3,177</i>
Real Disposable Personal Income (billion chained 2009 dollars - SAAR)	12,680	12,766	12,783	12,819	<i>13,013</i>	<i>13,095</i>	<i>13,202</i>	<i>13,311</i>	<i>13,475</i>	<i>13,568</i>	<i>13,663</i>	<i>13,762</i>	12,762	<i>13,155</i>	<i>13,617</i>
Non-Farm Employment (millions)	145.9	146.3	146.9	147.4	<i>148.0</i>	<i>148.6</i>	<i>149.2</i>	<i>149.9</i>	<i>150.5</i>	<i>151.1</i>	<i>151.7</i>	<i>152.2</i>	146.6	<i>148.9</i>	<i>151.4</i>
Civilian Unemployment Rate (percent)	4.7	4.3	4.3	4.1	<i>4.1</i>	<i>4.0</i>	<i>3.9</i>	<i>3.9</i>	<i>3.7</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	4.4	<i>4.0</i>	<i>3.7</i>
Housing Starts (millions - SAAR)	1.24	1.17	1.17	1.25	<i>1.25</i>	<i>1.28</i>	<i>1.28</i>	<i>1.32</i>	<i>1.34</i>	<i>1.37</i>	<i>1.39</i>	<i>1.41</i>	1.21	<i>1.28</i>	<i>1.38</i>
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	103.7	105.1	104.8	106.9	<i>108.1</i>	<i>108.5</i>	<i>109.1</i>	<i>110.1</i>	<i>111.0</i>	<i>111.8</i>	<i>112.6</i>	<i>113.4</i>	105.1	<i>108.9</i>	<i>112.2</i>
Manufacturing	103.7	104.5	104.0	105.9	<i>106.5</i>	<i>106.9</i>	<i>107.5</i>	<i>108.6</i>	<i>109.5</i>	<i>110.3</i>	<i>110.9</i>	<i>111.6</i>	104.5	<i>107.4</i>	<i>110.6</i>
Food	110.1	111.2	112.9	112.8	<i>113.2</i>	<i>113.7</i>	<i>114.2</i>	<i>114.8</i>	<i>115.4</i>	<i>115.9</i>	<i>116.4</i>	<i>116.9</i>	111.8	<i>114.0</i>	<i>116.1</i>
Paper	96.3	95.5	95.1	94.8	<i>94.8</i>	<i>94.7</i>	<i>94.7</i>	<i>94.7</i>	<i>94.8</i>	<i>94.9</i>	<i>94.9</i>	<i>95.0</i>	95.4	<i>94.7</i>	<i>94.9</i>
Petroleum and Coal Products	102.5	106.1	101.3	103.7	<i>103.9</i>	<i>104.5</i>	<i>105.2</i>	<i>105.7</i>	<i>106.2</i>	<i>106.5</i>	<i>106.7</i>	<i>107.0</i>	103.4	<i>104.8</i>	<i>106.6</i>
Chemicals	97.6	98.8	98.2	101.9	<i>102.8</i>	<i>103.4</i>	<i>104.3</i>	<i>105.2</i>	<i>106.1</i>	<i>106.9</i>	<i>107.7</i>	<i>108.7</i>	99.2	<i>103.9</i>	<i>107.3</i>
Nonmetallic Mineral Products	116.7	115.3	115.1	118.1	<i>119.2</i>	<i>119.9</i>	<i>121.2</i>	<i>122.4</i>	<i>123.5</i>	<i>124.2</i>	<i>124.7</i>	<i>125.2</i>	116.3	<i>120.7</i>	<i>124.4</i>
Primary Metals	96.8	95.4	95.5	97.9	<i>98.1</i>	<i>98.1</i>	<i>98.4</i>	<i>99.0</i>	<i>99.1</i>	<i>99.4</i>	<i>99.5</i>	<i>99.9</i>	96.4	<i>98.4</i>	<i>99.5</i>
Coal-weighted Manufacturing (a)	102.6	102.7	101.5	104.0	<i>104.5</i>	<i>104.8</i>	<i>105.4</i>	<i>106.2</i>	<i>106.8</i>	<i>107.3</i>	<i>107.7</i>	<i>108.4</i>	102.7	<i>105.2</i>	<i>107.5</i>
Distillate-weighted Manufacturing (a)	108.5	108.8	108.3	110.2	<i>110.9</i>	<i>111.4</i>	<i>112.2</i>	<i>113.0</i>	<i>113.7</i>	<i>114.3</i>	<i>114.8</i>	<i>115.3</i>	108.9	<i>111.9</i>	<i>114.5</i>
Electricity-weighted Manufacturing (a)	103.1	103.6	102.5	105.1	<i>105.8</i>	<i>106.2</i>	<i>106.9</i>	<i>107.8</i>	<i>108.6</i>	<i>109.3</i>	<i>109.9</i>	<i>110.6</i>	103.6	<i>106.7</i>	<i>109.6</i>
Natural Gas-weighted Manufacturing (a) ...	103.0	104.3	102.0	105.6	<i>106.4</i>	<i>107.0</i>	<i>107.8</i>	<i>108.8</i>	<i>109.7</i>	<i>110.4</i>	<i>111.2</i>	<i>112.1</i>	103.7	<i>107.5</i>	<i>110.8</i>
Price Indexes															
Consumer Price Index (all urban consumers) (index, 1982-1984=1.00)	2.44	2.44	2.45	2.47	<i>2.49</i>	<i>2.50</i>	<i>2.52</i>	<i>2.53</i>	<i>2.54</i>	<i>2.55</i>	<i>2.57</i>	<i>2.58</i>	2.45	<i>2.51</i>	<i>2.56</i>
Producer Price Index: All Commodities (index, 1982=1.00)	1.93	1.92	1.92	1.97	<i>2.01</i>	<i>2.01</i>	<i>2.02</i>	<i>2.03</i>	<i>2.03</i>	<i>2.05</i>	<i>2.06</i>	<i>2.07</i>	1.94	<i>2.02</i>	<i>2.05</i>
Producer Price Index: Petroleum (index, 1982=1.00)	1.66	1.67	1.77	1.89	<i>1.99</i>	<i>1.97</i>	<i>1.91</i>	<i>1.85</i>	<i>1.83</i>	<i>1.92</i>	<i>1.94</i>	<i>1.91</i>	1.74	<i>1.93</i>	<i>1.90</i>
GDP Implicit Price Deflator (index, 2009=100)	112.8	113.0	113.6	114.3	<i>115.1</i>	<i>115.8</i>	<i>116.5</i>	<i>117.3</i>	<i>118.0</i>	<i>118.8</i>	<i>119.5</i>	<i>120.2</i>	113.4	<i>116.2</i>	<i>119.1</i>
Miscellaneous															
Vehicle Miles Traveled (b) (million miles/day)	8,301	9,164	9,015	8,676	<i>8,329</i>	<i>9,276</i>	<i>9,156</i>	<i>8,810</i>	<i>8,461</i>	<i>9,405</i>	<i>9,275</i>	<i>8,936</i>	8,791	<i>8,895</i>	<i>9,021</i>
Air Travel Capacity (Available ton-miles/day, thousands)	567	619	668	590	<i>555</i>	<i>623</i>	<i>658</i>	<i>585</i>	<i>558</i>	<i>627</i>	<i>663</i>	<i>590</i>	611	<i>605</i>	<i>610</i>
Aircraft Utilization (Revenue ton-miles/day, thousands)	344	390	398	365	<i>343</i>	<i>393</i>	<i>403</i>	<i>363</i>	<i>346</i>	<i>397</i>	<i>407</i>	<i>368</i>	374	<i>376</i>	<i>380</i>
Airline Ticket Price Index (index, 1982-1984=100)	277.8	297.0	264.9	263.4	<i>268.4</i>	<i>308.5</i>	<i>299.0</i>	<i>311.3</i>	<i>313.0</i>	<i>334.8</i>	<i>315.7</i>	<i>325.2</i>	275.8	<i>296.8</i>	<i>322.2</i>
Raw Steel Production (million short tons per day)	0.248	0.247	0.250	0.245	<i>0.254</i>	<i>0.260</i>	<i>0.241</i>	<i>0.208</i>	<i>0.263</i>	<i>0.262</i>	<i>0.240</i>	<i>0.205</i>	0.248	<i>0.240</i>	<i>0.243</i>
Carbon Dioxide (CO₂) Emissions (million metric tons)															
Petroleum	565	588	593	591	<i>576</i>	<i>587</i>	<i>602</i>	<i>592</i>	<i>579</i>	<i>593</i>	<i>607</i>	<i>598</i>	2,337	<i>2,357</i>	<i>2,377</i>
Natural Gas	424	312	337	403	<i>465</i>	<i>335</i>	<i>352</i>	<i>406</i>	<i>472</i>	<i>341</i>	<i>355</i>	<i>412</i>	1,477	<i>1,558</i>	<i>1,581</i>
Coal	321	309	377	321	<i>310</i>	<i>288</i>	<i>364</i>	<i>316</i>	<i>326</i>	<i>279</i>	<i>367</i>	<i>305</i>	1,329	<i>1,277</i>	<i>1,278</i>
Total Energy (c)	1,314	1,211	1,311	1,319	<i>1,354</i>	<i>1,212</i>	<i>1,320</i>	<i>1,317</i>	<i>1,380</i>	<i>1,216</i>	<i>1,333</i>	<i>1,318</i>	5,155	<i>5,204</i>	<i>5,248</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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Real Gross State Product (Billion \$2009)															
New England	888	893	901	905	910	915	920	925	929	934	939	943	897	917	936
Middle Atlantic	2,483	2,496	2,516	2,528	2,539	2,554	2,568	2,581	2,591	2,603	2,613	2,624	2,506	2,560	2,608
E. N. Central	2,318	2,336	2,354	2,365	2,376	2,388	2,401	2,412	2,425	2,437	2,448	2,459	2,343	2,394	2,442
W. N. Central	1,070	1,075	1,081	1,086	1,090	1,096	1,102	1,108	1,114	1,119	1,125	1,130	1,078	1,099	1,122
S. Atlantic	3,008	3,029	3,050	3,069	3,088	3,110	3,131	3,154	3,176	3,197	3,217	3,237	3,039	3,121	3,207
E. S. Central	761	767	771	776	779	784	789	793	798	802	807	811	769	786	805
W. S. Central	2,021	2,050	2,071	2,090	2,107	2,128	2,147	2,167	2,186	2,203	2,219	2,233	2,058	2,137	2,210
Mountain	1,082	1,092	1,100	1,109	1,117	1,125	1,134	1,144	1,154	1,163	1,172	1,181	1,096	1,130	1,168
Pacific	3,168	3,188	3,213	3,237	3,256	3,281	3,305	3,330	3,353	3,381	3,403	3,427	3,201	3,293	3,391
Industrial Output, Manufacturing (Index, Year 2012=100)															
New England	98.0	98.7	98.3	99.9	100.2	100.3	100.6	101.5	102.1	102.6	103.0	103.5	98.7	100.7	102.8
Middle Atlantic	98.2	97.9	97.3	98.3	98.9	99.1	99.6	100.5	101.1	101.7	102.1	102.6	97.9	99.5	101.9
E. N. Central	106.2	106.9	106.4	108.1	108.9	109.4	110.0	111.0	112.1	112.9	113.6	114.3	106.9	109.8	113.2
W. N. Central	102.3	103.3	103.2	105.4	106.0	106.4	107.1	108.1	109.0	109.9	110.5	111.2	103.6	106.9	110.1
S. Atlantic	107.2	108.0	107.7	109.8	110.3	110.7	111.2	112.2	113.0	113.8	114.4	115.0	108.2	111.1	114.0
E. S. Central	110.1	110.6	109.7	111.5	112.2	112.6	113.3	114.4	115.3	116.2	116.9	117.6	110.5	113.1	116.5
W. S. Central	98.0	99.7	99.8	101.5	102.3	103.0	103.9	105.4	106.4	107.3	108.1	108.9	99.8	103.6	107.7
Mountain	108.3	109.1	108.7	111.0	111.6	112.0	112.7	113.8	114.8	115.6	116.3	117.0	109.3	112.5	115.9
Pacific	103.7	104.3	103.6	105.5	106.1	106.5	107.2	108.4	109.2	110.0	110.6	111.2	104.3	107.0	110.3
Real Personal Income (Billion \$2009)															
New England	774	776	778	781	785	790	795	801	807	812	817	822	777	792	814
Middle Atlantic	1,965	1,976	1,984	1,989	1,996	2,008	2,022	2,035	2,050	2,060	2,071	2,083	1,978	2,015	2,066
E. N. Central	2,107	2,109	2,115	2,124	2,133	2,145	2,160	2,175	2,193	2,205	2,218	2,231	2,114	2,153	2,212
W. N. Central	989	993	994	999	1,003	1,009	1,017	1,026	1,036	1,044	1,053	1,062	994	1,014	1,049
S. Atlantic	2,776	2,787	2,796	2,806	2,823	2,844	2,869	2,894	2,924	2,947	2,970	2,993	2,791	2,857	2,958
E. S. Central	778	780	782	784	787	792	798	804	812	817	822	827	781	795	819
W. S. Central	1,703	1,711	1,719	1,727	1,738	1,754	1,772	1,789	1,809	1,824	1,840	1,856	1,715	1,763	1,832
Mountain	976	981	983	988	994	1,002	1,012	1,022	1,034	1,043	1,052	1,061	982	1,008	1,047
Pacific	2,397	2,425	2,432	2,445	2,458	2,476	2,498	2,520	2,544	2,563	2,582	2,602	2,425	2,488	2,573
Households (Thousands)															
New England	5,859	5,868	5,888	5,896	5,906	5,917	5,928	5,940	5,954	5,967	5,979	5,990	5,896	5,940	5,990
Middle Atlantic	15,899	15,915	15,967	15,982	16,003	16,029	16,055	16,086	16,118	16,145	16,173	16,200	15,982	16,086	16,200
E. N. Central	18,823	18,840	18,900	18,917	18,944	18,982	19,017	19,055	19,092	19,128	19,166	19,203	18,917	19,055	19,203
W. N. Central	8,518	8,536	8,574	8,594	8,620	8,650	8,676	8,702	8,730	8,755	8,781	8,806	8,594	8,702	8,806
S. Atlantic	25,184	25,275	25,434	25,530	25,634	25,746	25,853	25,963	26,079	26,186	26,289	26,391	25,530	25,963	26,391
E. S. Central	7,602	7,617	7,649	7,665	7,685	7,708	7,730	7,752	7,777	7,800	7,823	7,845	7,665	7,752	7,845
W. S. Central	14,579	14,625	14,704	14,749	14,801	14,859	14,921	14,987	15,056	15,122	15,187	15,251	14,749	14,987	15,251
Mountain	9,036	9,074	9,132	9,172	9,217	9,265	9,312	9,360	9,409	9,455	9,501	9,547	9,172	9,360	9,547
Pacific	18,697	18,753	18,846	18,896	18,954	19,019	19,084	19,148	19,216	19,277	19,337	19,395	18,896	19,148	19,395
Total Non-farm Employment (Millions)															
New England	7.4	7.4	7.4	7.4	7.4	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.4	7.5	7.5
Middle Atlantic	19.5	19.5	19.6	19.6	19.6	19.7	19.7	19.8	19.9	19.9	19.9	20.0	19.5	19.7	19.9
E. N. Central	21.9	21.9	22.0	22.0	22.1	22.2	22.2	22.3	22.4	22.5	22.5	22.6	22.0	22.2	22.5
W. N. Central	10.6	10.7	10.7	10.7	10.7	10.8	10.8	10.9	10.9	10.9	11.0	11.0	10.7	10.8	10.9
S. Atlantic	28.0	28.1	28.3	28.4	28.5	28.6	28.8	28.9	29.1	29.2	29.4	29.5	28.2	28.7	29.3
E. S. Central	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.3	8.3	8.3	8.4	8.1	8.2	8.3
W. S. Central	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.0	17.1	17.5	17.9
Mountain	10.4	10.5	10.5	10.6	10.6	10.7	10.7	10.8	10.9	10.9	11.0	11.1	10.5	10.7	11.0
Pacific	22.7	22.8	22.9	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	22.9	23.3	23.7

- = 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 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Heating Degree Days															
New England	2,985	806	94	2,176	3,016	869	129	2,162	3,135	887	129	2,162	6,061	6,177	6,314
Middle Atlantic	2,658	602	73	2,004	2,823	704	82	1,982	2,923	717	82	1,982	5,337	5,591	5,704
E. N. Central	2,691	627	106	2,263	3,122	736	123	2,218	3,140	742	123	2,218	5,687	6,199	6,223
W. N. Central	2,812	662	138	2,385	3,345	700	160	2,397	3,219	706	160	2,398	5,997	6,601	6,483
South Atlantic	1,147	125	15	945	1,334	197	12	975	1,433	208	12	973	2,232	2,518	2,627
E. S. Central	1,375	154	25	1,280	1,759	242	19	1,299	1,828	261	19	1,300	2,833	3,318	3,407
W. S. Central	773	65	4	740	1,215	69	4	783	1,121	82	4	783	1,582	2,071	1,991
Mountain	2,052	693	153	1,654	2,061	669	145	1,833	2,186	683	144	1,832	4,552	4,708	4,846
Pacific	1,561	534	68	1,033	1,345	602	95	1,222	1,525	597	95	1,223	3,196	3,264	3,439
U.S. Average	1,858	428	65	1,481	2,054	490	75	1,526	2,114	499	75	1,524	3,831	4,145	4,212
Heating Degree Days, Prior 10-year Average															
New England	3,201	831	122	2,125	3,172	818	119	2,121	3,162	817	117	2,109	6,279	6,231	6,205
Middle Atlantic	2,983	661	81	1,941	2,947	646	81	1,949	2,944	645	80	1,934	5,665	5,623	5,604
E. N. Central	3,254	701	114	2,197	3,209	692	116	2,210	3,187	688	118	2,187	6,267	6,228	6,180
W. N. Central	3,302	707	142	2,380	3,264	705	144	2,379	3,247	690	144	2,360	6,531	6,492	6,440
South Atlantic	1,502	188	12	966	1,476	177	12	974	1,469	174	12	964	2,667	2,639	2,620
E. S. Central	1,906	231	16	1,287	1,868	217	18	1,301	1,856	213	18	1,288	3,440	3,404	3,376
W. S. Central	1,227	88	4	799	1,181	80	4	801	1,185	77	4	795	2,119	2,066	2,061
Mountain	2,216	734	142	1,862	2,194	737	144	1,840	2,158	721	141	1,842	4,954	4,915	4,862
Pacific	1,462	598	89	1,205	1,465	593	84	1,181	1,435	588	84	1,186	3,354	3,322	3,292
U.S. Average	2,192	487	71	1,527	2,160	478	71	1,524	2,143	472	71	1,513	4,277	4,233	4,198
Cooling Degree Days															
New England	0	74	363	11	0	80	403	1	0	79	403	1	448	485	483
Middle Atlantic	0	139	500	21	0	147	532	4	0	145	532	4	660	683	681
E. N. Central	1	211	479	15	0	213	534	7	0	211	534	7	707	754	752
W. N. Central	9	265	623	14	3	265	666	10	3	262	666	10	910	944	941
South Atlantic	159	670	1,154	262	150	642	1,165	228	117	628	1,166	228	2,245	2,185	2,139
E. S. Central	66	481	964	74	32	517	1,059	66	27	499	1,059	66	1,584	1,674	1,651
W. S. Central	214	829	1,460	217	97	919	1,505	201	93	876	1,505	201	2,720	2,721	2,675
Mountain	37	471	919	122	21	438	930	76	19	430	931	76	1,548	1,464	1,455
Pacific	30	218	701	97	35	167	572	58	28	167	571	58	1,047	832	824
U.S. Average	70	402	838	114	51	401	848	91	43	392	850	92	1,424	1,392	1,376
Cooling Degree Days, Prior 10-year Average															
New England	0	81	433	1	0	81	433	1	0	79	437	1	515	515	517
Middle Atlantic	0	169	566	6	0	166	566	5	0	162	571	6	741	738	739
E. N. Central	3	234	542	8	3	228	532	7	3	230	537	7	788	770	777
W. N. Central	7	281	672	12	7	277	659	11	7	281	667	12	973	953	966
South Atlantic	117	666	1,167	230	119	675	1,160	227	122	675	1,169	234	2,179	2,181	2,200
E. S. Central	33	544	1,056	65	34	539	1,031	63	35	541	1,039	66	1,698	1,667	1,681
W. S. Central	90	876	1,527	205	100	887	1,532	204	101	889	1,546	208	2,698	2,722	2,744
Mountain	23	424	930	81	24	426	922	84	25	431	925	83	1,458	1,457	1,465
Pacific	30	180	608	74	30	185	621	78	31	183	616	75	892	914	905
U.S. Average	43	405	857	94	45	408	855	94	46	410	862	96	1,399	1,402	1,413

- = 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>).