Independent Statistics & Analysis
U.S. Energy Information Administration

February 2018

Short-Term Energy Outlook (STEO)

Forecast highlights

Global liquid fuels

- North Sea Brent crude oil spot prices averaged $69 per barrel (b) in January, an increase of $5/b from the December level. Monthly average Brent prices have increased for seven consecutive months, and, on January 11, spot prices moved higher than $70/b for the first time since December 2014. 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 February 1, 2018, suggest a range of $55/b to $77/b encompasses the market expectation for May 2018 WTI prices at the 95% confidence level.

- EIA estimates that U.S. crude oil production averaged 10.2 million barrels per day (b/d) in January, up 100,000 b/d from the December level. EIA estimates that total U.S. crude oil production averaged 9.3 million b/d in 2017 and will average 10.6 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 11.2 million b/d.

- EIA estimates that global petroleum and other liquid fuels inventories declined by 0.5 million b/d in 2017. In this forecast, global inventories grow by about 0.2 million b/d in both 2018 and 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 reach 80.3 Bcf/d in 2018, establishing a new record. That level would be 6.7 Bcf/d higher than the 2017 level, and the forecast 2017 growth would be the highest annual average growth on record. EIA expects natural gas production will also increase in 2019, with forecast growth of 2.6 Bcf/d.

- In January, the U.S. benchmark Henry Hub natural gas spot price averaged $3.88 per million British thermal units (MMBtu), up $1.06/MMBtu from December. Cold

temperatures east of the Rocky Mountains in early January contributed to high levels of natural gas consumption as well as a reduction in production because of well freeze-offs. This combination resulted in record-high natural gas inventory withdrawals in mid-January, which contributed to rising prices.

- EIA expects natural gas prices to moderate in the coming months, based on a forecast of record growth in natural gas production. EIA expects Henry Hub spot prices to average $3.34/MMBtu in February and $3.20/MMBtu for all of 2018. In 2019, EIA forecasts prices will average $3.08/MMBtu. NYMEX contract values for May 2018 delivery that traded during the five-day period ending February 1, 2018, suggest that a range of $2.26/MMBtu to $3.67/MMBtu encompasses the market expectation for May 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 33% in 2018 and to 34% in 2019. The forecast generation share from coal in 2018 averages 30%, about the same as in 2017, but then falls to 29% in 2019. 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 is expected to provide about 10% in both 2018 and 2019. The generation share of hydropower was almost 8% in 2017 and is forecast to be about 7% in both 2018 and 2019.

- EIA estimates U.S. coal production was 772 million short tons (MMst) in 2017, 44 MMst (6%) higher than in 2016. Forecast coal production declines by 2% to 760 MMst in 2018 and then increases slightly to 762 MMst in 2019. Lower expected global demand for U.S. coal exports (down 16% in 2018 and another 4% in 2019) and lower forecasts of coal use in the electric power sector (1% lower in 2018 and another 2% lower in 2019) contribute to the forecast of lower coal production.

- Wind generated an estimated 691,000 megawatthours per day (MWh/d) of electricity in 2017. EIA projects that generation from wind will rise to an average of 705,000 MWh/d in 2018 and 765,000 MWh/d in 2019. If project conditions hold, generation from conventional hydropower is projected to average 730,000 MWh/d in 2019, which would make it the first year that wind generation exceeds hydropower generation.

- EIA projects that total solar electricity generation will increase from an estimated average of 209,000 MWh/d in 2017 to 240,000 MWh/d in 2018 and to 287,000 MWh/d in 2019.

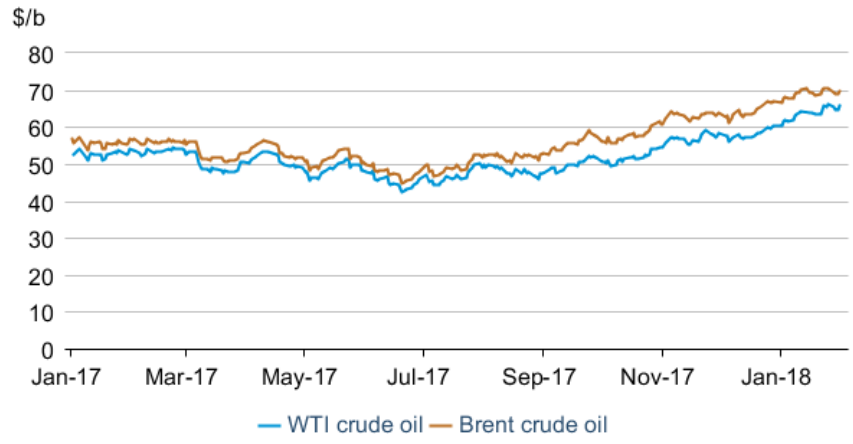
- After declining by 0.8% in 2017, energy-related carbon dioxide (CO2) emissions are projected to increase by 1.8% in 2018 and by 0.4% in 2019. Energy-related CO2 emissions are sensitive to changes in weather, economic growth, and energy prices.

Petroleum and natural gas markets review

Crude oil

Prices: The front-month futures price for North Sea Brent crude oil settled at $69.65 per barrel (b) on February 1, an increase of $3.08/b since January 2. Front-month futures prices for West Texas Intermediate (WTI) crude oil for delivery at Cushing, Oklahoma, increased by $5.43/b over the same period, settling at $65.80/b on February 1 **(Figure 1)**. January Brent and WTI monthly average spot prices were $4.71/b and $5.82/b higher, respectively, than the December average spot prices.

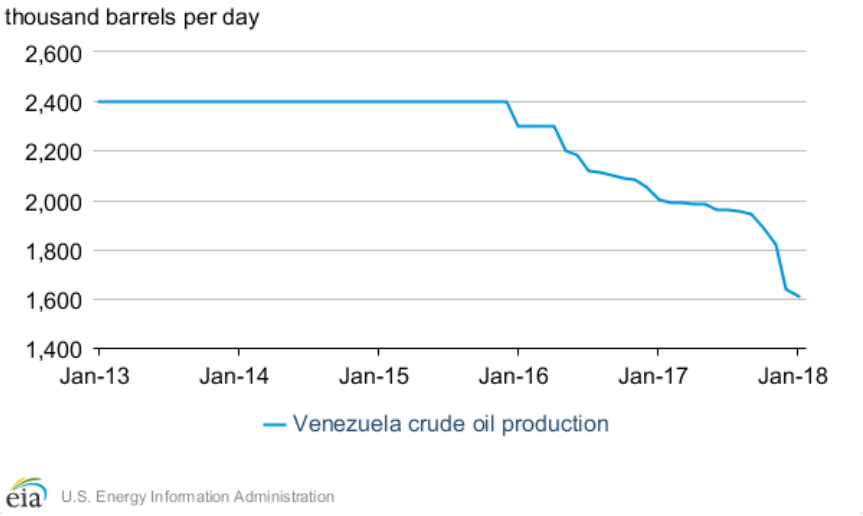
Figure 1. Crude oil front-month futures prices



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

Brent crude oil futures prices closed above $70/b in mid-January for the first time since December 2014. Prices have increased over the past seven months as oil inventories, both in the United States and globally, have fallen steadily. In January, oil prices may have received some support following the Organization of the Petroleum Exporting Countries' (OPEC) monitoring committee meeting, where some oil ministers suggested extending the production cut agreement in some form beyond the current expiration at the end of 2018. Rapid declines in Venezuelan crude oil output are also likely contributing to higher crude oil prices **(Figure 2)**. Average U.S. imports of crude oil from Venezuela declined to 0.4 million b/d for the four weeks ending January 26, approaching the lowest level in decades. Trade press reports indicate that workers at the national oil company may be fleeing the country amid social unrest.

Figure 2. Venezuela crude oil production



Improved global economic growth expectations could also be supporting oil prices. The International Monetary Fund (IMF) recently forecast that world Gross Domestic Product (GDP) would grow by 3.9% in both 2018 and 2019, rates that are both 0.2 percentage points higher than its previous forecast. The IMF's forecast of higher economic growth is consistent with the increases in leading economic indicators from the fourth quarter of 2017. Faster economic growth along with increases in world trade would be significant factors contributing to increases in crude oil and petroleum product consumption. EIA, based on forecasts from Oxford Economics, projects oil-weighted GDP growth will be 3.4% in 2018 and 3.2% in 2019. EIA expects global petroleum and other liquid fuels consumption to increase by 1.7 million b/d in both 2018 and 2019, up from an estimated 1.6 million b/d in 2017.

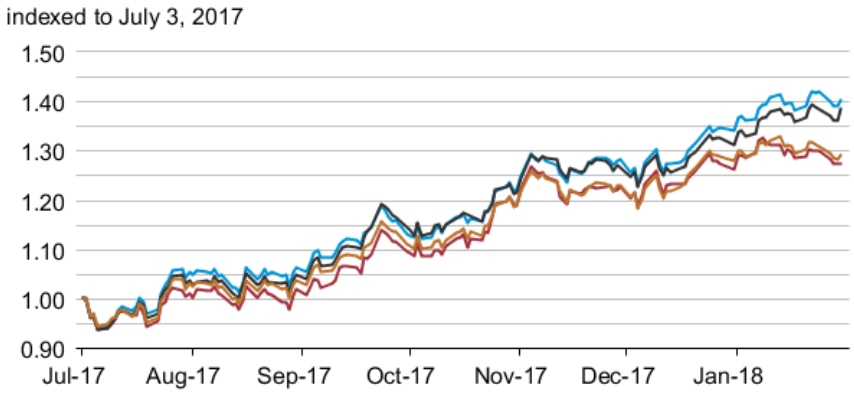
Crude oil inventories in the United States declined by 6 million barrels during the first four weeks of 2018 in contrast to a five-year average build of 14 million barrels during those four weeks. High levels of refinery inputs of crude oil and crude oil exports contributed to the counter-seasonal draw in crude oil inventories. A cold snap in the U.S. Northeast in early January increased demand for home heating oil and likely contributed to higher refinery utilization than is typical for this time of year. Inputs of crude oil at U.S. refineries averaged 16.7 million b/d for the four weeks ending January 26, which, if confirmed in the *Petroleum Supply Monthly*, would be the highest level of refinery runs on record for the month of January. Also, U.S. crude oil exports averaged almost 1.4 million b/d for the four weeks ending January 26. In January 2017, U.S. crude oil exports averaged about 0.7 million b/d.

Similar to the draw in U.S. inventories, Organization for Economic Cooperation and Development (OECD) oil inventories also declined. EIA estimated OECD total petroleum inventories at 2.87 billion barrels; this was a decline of 183 million barrels from January 2017, the largest year-over-year decline since March 2003. However, a continued acceleration in non-OPEC supply growth is expected to contribute to global total petroleum and other liquids inventories rising by 0.2 million b/d in 2018. This expected modest increase in global oil

inventories could put downward pressure on crude oil prices in the coming months. EIA forecasts Brent crude oil prices to decline to $60/b and WTI prices to decline to $56/b by the third quarter of 2018. EIA expects Brent prices to average $62/b for all of 2018 and WTI prices to average $58/b for the year.

The increase in crude oil prices in recent months has been mitigated for some countries whose currency exchange rate with the U.S. dollar has appreciated. Even though Brent crude oil prices increased by 40% from July 3, 2017, through February 1, 2018, in U.S. dollar terms, crude oil prices in Indian rupees, Thai baht, and euros have only increased by 38%, 29%, and 27%, respectively, during the same period **(Figure 3)**. Rising economic growth in several European countries, as well as in non-OECD countries, has likely contributed to larger demand for their goods and services, which is reflected in currency appreciation compared with the U.S. dollar. For countries that import crude oil, a stronger currency can lessen the effect higher crude oil prices have on businesses and households.

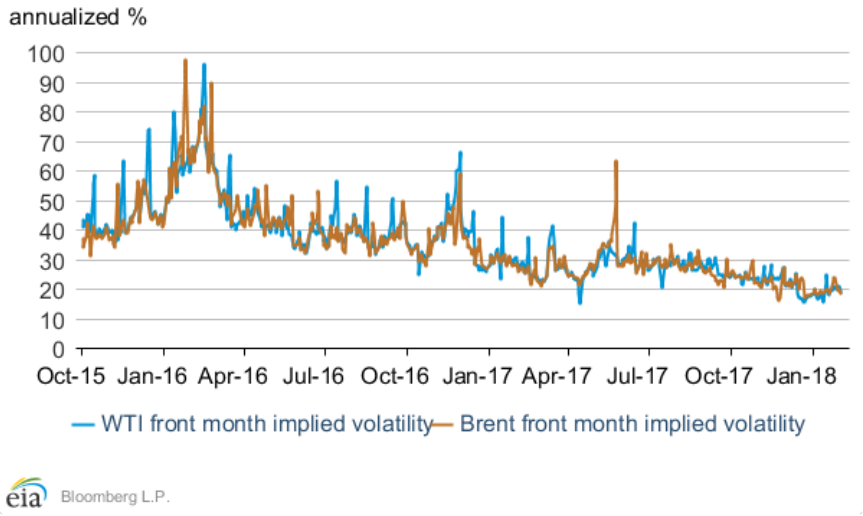
Figure 3. Brent crude oil prices in various currencies



eia Bloomberg, L.P.

Even though crude oil prices reached the highest levels in more than three years, implied volatility for crude oil options approached the lowest levels in more than three years in January. Brent front-month implied volatility decreased 0.5 percentage points since the beginning of January to settle at 18.2% on February 1 **(Figure 4)**, and monthly average implied volatility for January was the lowest since September 2014. Higher oil prices and lower implied volatility often occur in times of improving economic conditions.

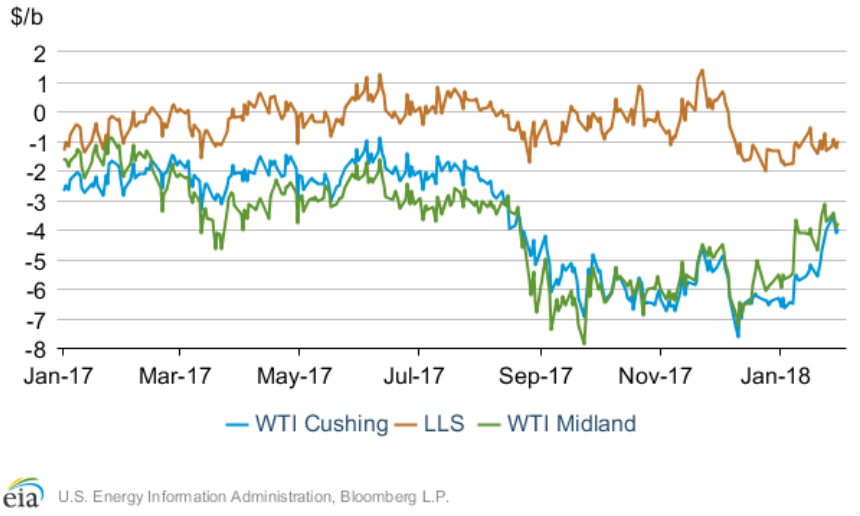
Figure 4. Crude oil implied volatility



U.S. crude oil prices compared with Brent crude oil prices diverged from recent trends in January. The Light Louisiana Sweet (LLS) price difference with Brent crude oil fell from a slight premium to Brent to trade $1/b or more under Brent for 23 consecutive trading days in December and January, settling at -$1.07/b on February 1 **(Figure 5)**. These 23 days were the longest stretch where LLS traded more than $1/b under Brent since February and March 2015. Although the Forties pipeline outage in mid-December contributed to rising Brent crude oil prices relative other light sweet crude oils, LLS differentials remained lower even after the pipeline was restored to full service. The discount could be attributable to the startup of the Diamond pipeline from Cushing, Oklahoma, to Memphis, Tennessee, which may be lowering the demand for U.S. Gulf Coast crude oil from refineries in the U.S. Midwest.

In contrast to LLS, WTI Cushing and WTI Midland crude oil prices increased relative to Brent in recent weeks. On February 1, the WTI Cushing and WTI Midland spreads with Brent settled at -$4.02/b and -$3.82/b, respectively, increases of $2.30/b and $1.70/b, respectively, since January 2. The Diamond pipeline startup and a likely reduction in Canadian crude oil deliveries to Cushing have contributed to a stock draw at the hub of 12 million barrels since the last week of December and likely increased WTI Cushing prices. Cold winter weather in west Texas led to some production shut-ins, increasing the WTI Midland-Brent crude oil price spread.

Figure 5. U.S. crude oil spot price differentials to Brent

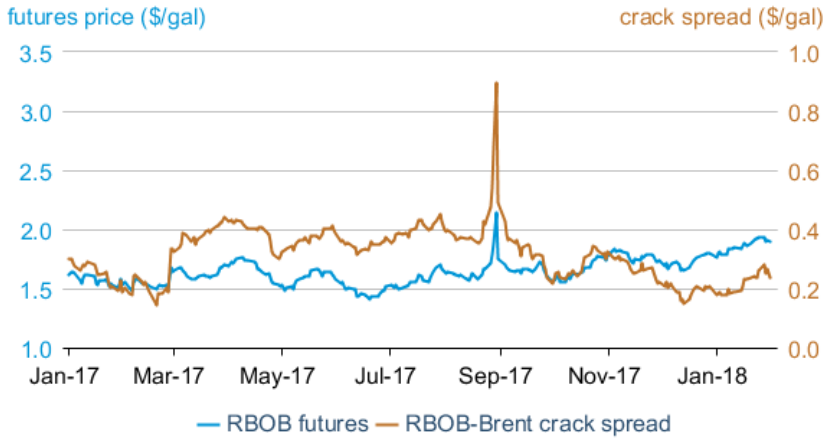


Petroleum products

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 February 1 **(Figure 6),** an increase of 13 cents/gal since January 2. The RBOB–Brent crack spread (the difference between the price of RBOB and the price of Brent crude oil) rose by 6 cents/gal to settle at 24 cents/gal over the same period. EIA compares RBOB prices to Brent prices because EIA research indicates that U.S. gasoline prices usually move with Brent prices, the international crude oil benchmark.

In January, RBOB prices rose to the highest level since late August because of relatively tight supply conditions for the month of January in conjunction with higher crude oil prices. For the four weeks ending January 26, 2018, the days of supply of U.S. gasoline inventories (when including both U.S. gasoline product supplied and finished motor gasoline exports) fell to 25.2 days, which is below the five-year range for the month of January.

Figure 6. Historical RBOB front-month futures prices and crack spread

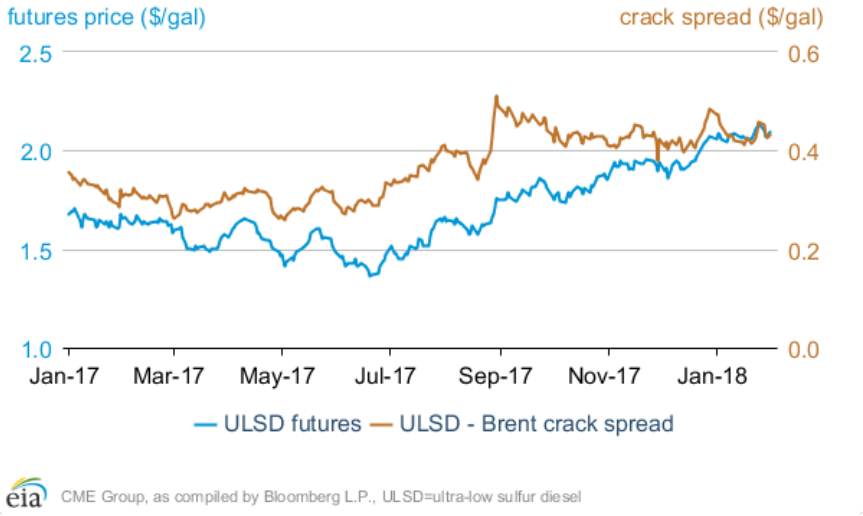


eia CME Group, as compiled by Bloomberg L.P., RBOB=reformulated blendstock for oxygenate blending

Ultra-low sulfur diesel prices: The ultra-low sulfur diesel (ULSD) front-month futures price rose by 3 cents/gal from January 2 to settle at $2.09/gal on February 1. On January 26, the ULSD price reached the highest point since February 2015. The ULSD-Brent crack spread (the difference between the price of ULSD and the price of Brent crude oil) decreased by 4 cents/gal over the same period, settling at 43 cents/gal **(Figure 7)**.

Distillate prices rose as colder-than-normal temperatures affected much of the United States in the first half of January. Temperatures are also expected to be colder than normal at the beginning of February, which may be lending additional support to ULSD prices. In addition to temporary weather-related price support, EIA has revised annual U.S. distillate consumption higher in 2018 and 2019 by 26,000 b/d and 45,000 b/d, respectively, compared with the January 2018 STEO. EIA now expects distillate fuel consumption to increase by 2.7% in 2018, which would be the highest growth rate since 2014. The higher distillate consumption forecast reflects updated U.S. economic growth assumptions in this STEO in response to the U.S. tax reform bill passed in December 2017 and its potential impact on industrial and manufacturing activity.

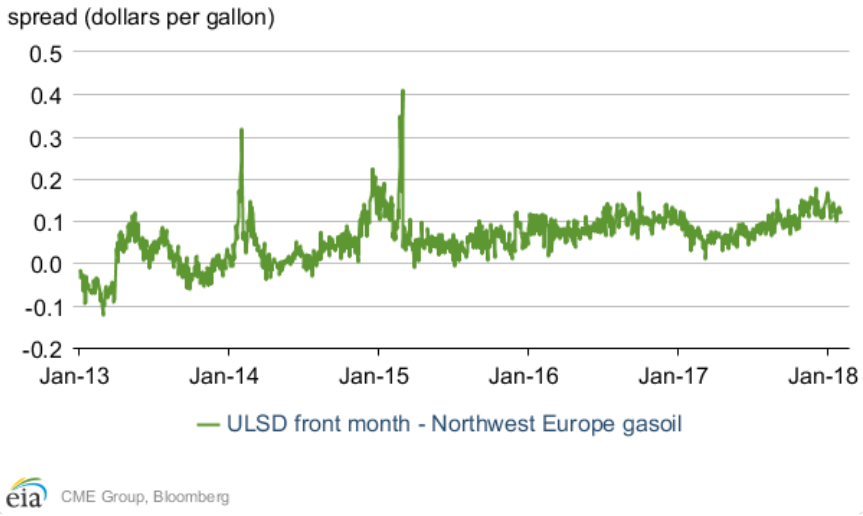
Figure 7. Historical ULSD front-month futures price and crack spread



Since November 2017, the ULSD front-month futures price premium to the Northwest Europe ULSD spot price has remained, on average, at the highest level since the extreme cold weather in the United States during the winter of 2014–15 **(Figure 8)**. The current premium has been supported by the combination of cold weather and regional distillate market fundamentals. Distillate inventories in the Petroleum Administration for Defense District (PADD) 1B, the New York Harbor delivery point of the ULSD futures contract, declined by 9% in the four weeks ending January 26. In contrast, gasoil inventories in the European trading hub of Amsterdam-Rotterdam-Antwerp have risen sharply for six straight weeks and, as of January 25, are slightly above its five-year average.

PADD 1B distillate inventories for the week ending January 26 were 3% below the five-year average level. However, they were 27% higher than during the same week in 2015. Trade press indicates that the premium between U.S. and European ULSD prices during January reached a level high enough that some European distillate cargoes were booked for export to the U.S. East Coast, which sometimes occurs during this time of year in the event of very cold weather.

Figure 8. ULSD front month - Northwest Europe ULSD spot price differential

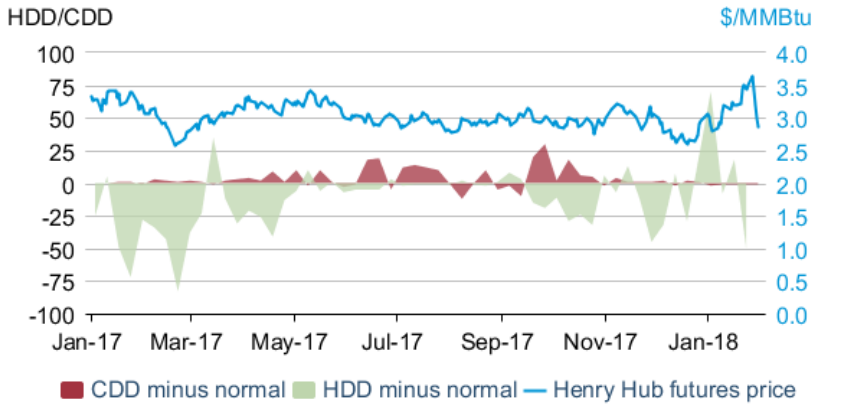


Natural Gas

The natural gas futures contract for February delivery at Henry Hub expired on January 29 at $3.63/million British thermal units (MMBtu), an increase of 58 cents/MMBtu from January 2 **(Figure 9)**. Cold weather east of the Rockies, record-level withdrawals from storage, and record demand contributed to substantial increases in prices in January. These demand factors likely outweighed EIA estimates of U.S. dry natural gas production reaching 77.6 billion cubic feet per day (Bcf/d) in January, a year-over-year increase of 7.0 Bcf/d. The contract for March delivery became the front-month contract on January 30 and settled at $2.86/MMBtu on February 1. Moderating weather forecasts for February contributed to a decline in the March contract prices. The Henry Hub natural gas spot price averaged $3.88/MMBtu in January, $1.06/MMBtu higher than the average December price.

Cold weather appears to have driven estimated U.S. natural gas demand to a record high of 150.7 billion cubic feet on January 1, surpassing the previous single-day record set in 2014. Heating degree days (HDD) were 32% above normal for the week ending January 4. Because of cold weather east of the Rockies, inventories fell relative to the five-year average in all regions except the Pacific region during the first four weeks of January. January saw the two largest withdrawals on record: 359 Bcf for the week ending January 5 and 288 Bcf for the week ending January 19. The cold weather had a significant effect on the South Central region, where the Henry Hub national benchmark is located. Withdrawals in that region comprised between 42% and 43% of total U.S. withdrawals in both of the record-breaking weeks because of increased natural gas-fired electricity generation for heating.

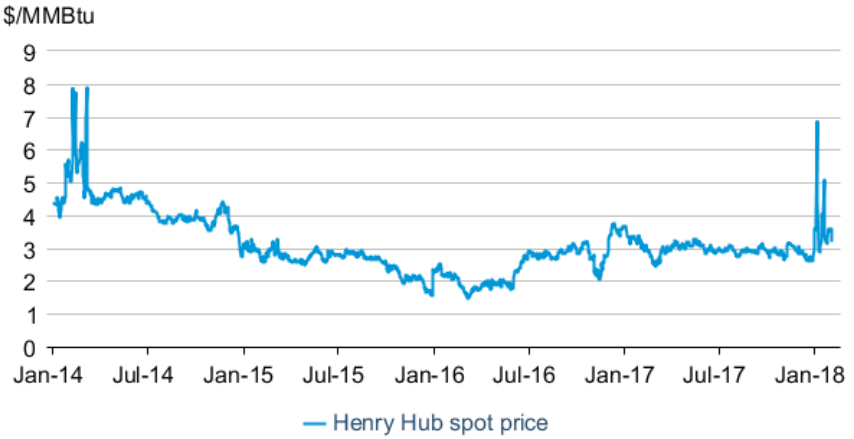
Figure 9. Natural gas front-month futures prices and actual minus historical average HDD and CDD



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

The cold weather and high demand affected natural gas spot prices more than futures prices. Henry Hub spot prices more than doubled from $2.76/MMBtu on December 27, 2017, to $6.24/MMBtu on January 3, 2018, the highest price since the polar vortex in early 2014 when cold weather led to similar price increases **(Figure 10)**. Since 2014, the U.S. demand profile has changed with the addition of liquefied natural gas (LNG) export facilities and increased pipeline exports. Total exports in January 2018 are estimated to account for 9% of combined consumption and exports compared with 4% in January 2014. However, rising production contributes to EIA's forecast that inventories will end the withdrawal season (end of March) at 1,429 Bcf, 17% below the five-year average. In 2014, inventories were 55% below the 2009–13 average at the end of withdrawal season.

Figure 10. Henry Hub natural gas spot prices



eia Natural Gas Intelligence

The large inventory draws in January put upward pressure mainly on the near months of the natural gas futures curve. The difference between the prices of the front-month natural gas

contract and the contract for delivery 13 months in the future (1st–13th spread) increased from -33 cents/MMBtu on December 26, 2017, to 38 cents/MMBtu on January 24, 2018 **(Figure 11)**. The change in the 1st–13th spread implies a reversal of the expectations of market conditions. Through December, the negative 1st–13th spread indicated a market that was anticipating supply to outpace demand. Money managers increased their short (sell) positions in natural gas futures contracts by 150,356 contracts from November 14 to December 26, possibly anticipating a decline in natural gas prices as natural gas production continued to reach record levels. In early January, the record-setting natural gas demand and inventory draws indicated a substantial tightening of the market and pushed up near-term prices. The reduction in money manager short positions by 170,253 contracts from December 26, 2017, to January 23, 2018, likely provided some additional buying pressure on the February natural gas contract. The 1st–13th price spread declined when the comparisons shifted to the March contract, falling to -15 cents/MMBtu on February 1.

Figure 11. Natural gas 1st-13th futures price spread

Notable forecast changes

- EIA forecasts U.S. crude oil production to average 10.6 million barrels per day (b/d) in 2018 and 11.2 million b/d in 2019, both of which are 0.3 million b/d higher than forecast in the January STEO. The higher production reflects both the incorporation of recently reported survey data that was higher than expected in the previous STEO and a higher crude oil price forecast. On January 31, EIA reported that total U.S. crude oil production in November 2017 was above 10.0 million b/d. This level was 170,000 b/d higher than EIA's estimate of November production in the January STEO. The new data raised the level of crude oil production from which EIA bases its forecast. Additionally, EIA raised its forecast for WTI crude oil by about $7 per barrel during the first half of 2018. The higher WTI prices contribute to higher forecast rig counts and production in the Lower 48 onshore regions after about a six-month lag.

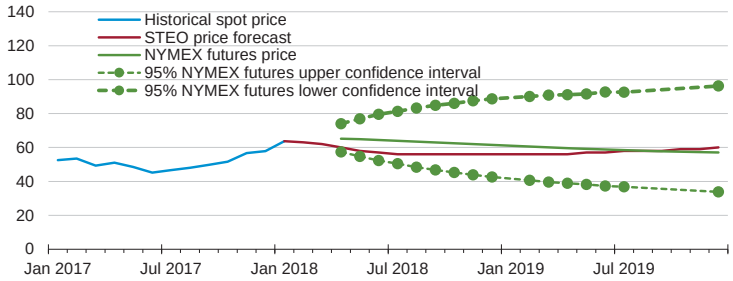
- EIA expects the Henry Hub natural gas spot price to average $3.20 per Million British thermal units (MMBtu) in 2018, which is 31 cents/MMBtu higher than forecast in the January STEO. The higher price forecast partly reflects record inventory draws during January 2018, which lowered expected storage levels through 2018 in the forecast.

Short-Term Energy Outlook

Chart Gallery for February 2018

West Texas Intermediate (WTI) crude oil price

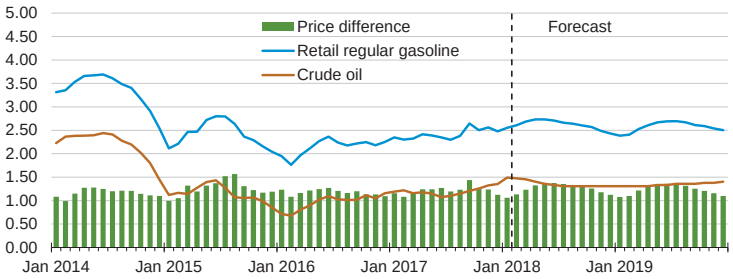
dollars per barrel



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

U.S. gasoline and crude oil prices

dollars per gallon

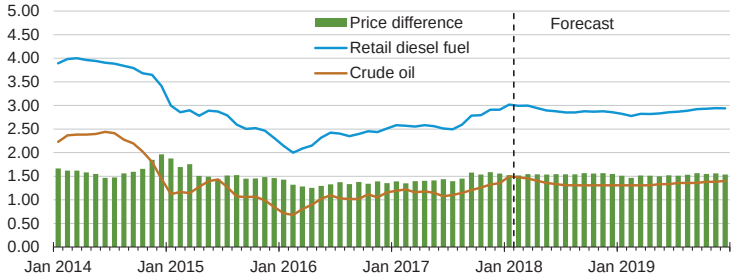


Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Source: Short-Term Energy Outlook, February 2018.

U.S. diesel fuel and crude oil prices

dollars per gallon

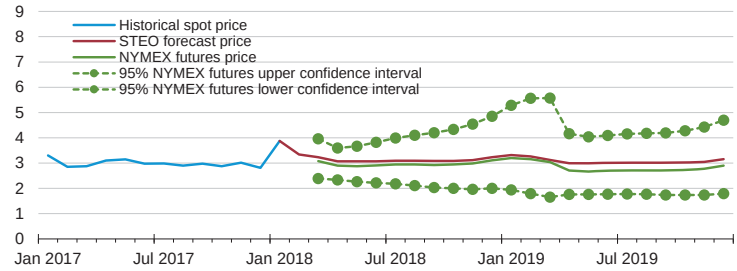


Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Source: Short-Term Energy Outlook, February 2018.

Henry Hub natural gas price

dollars per million Btu

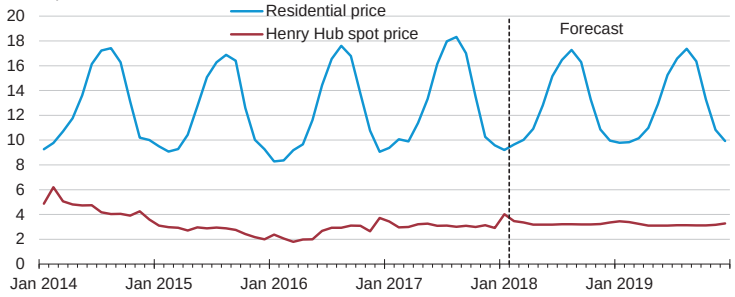


Note: Confidence interval derived from options market information for the 5 trading days ending Feb 1, 2018. Intervals not calculated for months with sparse trading in near-the-money options contracts.

Source: Short-Term Energy Outlook, February 2018, and CME Group.

U.S. natural gas prices

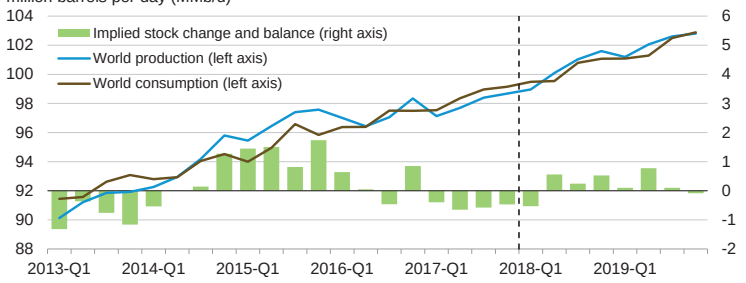
dollars per thousand cubic feet



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

World liquid fuels production and consumption balance

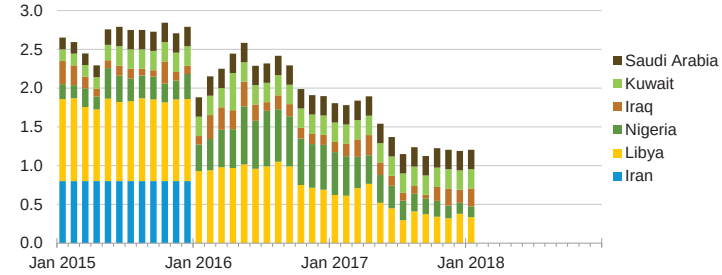
million barrels per day (MMb/d)



Source: Short-Term Energy Outlook, February 2018.

Estimated historical unplanned OPEC crude oil production outages

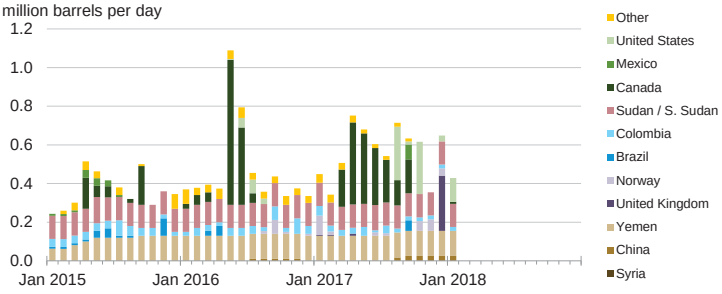
million barrels per day



Source: Short-Term Energy Outlook, February 2018.

Estimated historical unplanned non-OPEC liquid fuels production outages

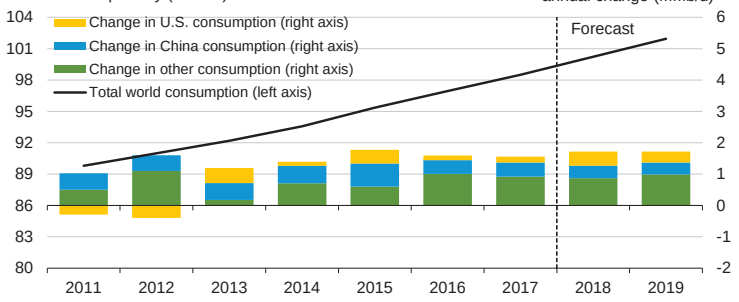
million barrels per day



Source: Short-Term Energy Outlook, February 2018.

World liquid fuels consumption

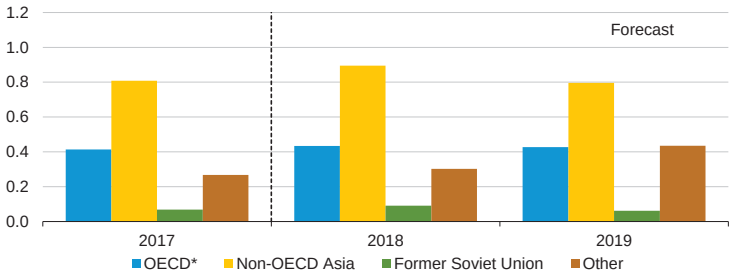
million barrels per day (MMb/d)



Source: Short-Term Energy Outlook, February 2018.

World liquid fuels consumption growth

million barrels per day

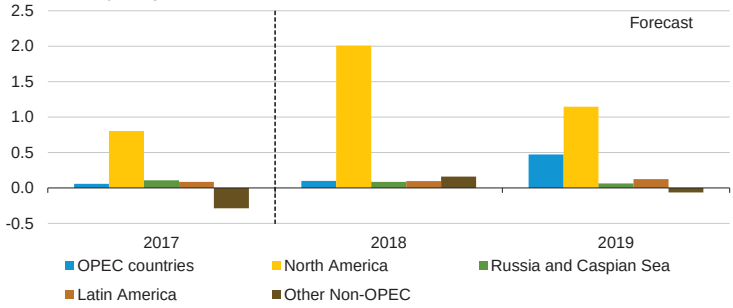


* Countries belonging to the Organization for Economic Cooperation and Development

Source: Short-Term Energy Outlook, February 2018.

World crude oil and liquid fuels production growth

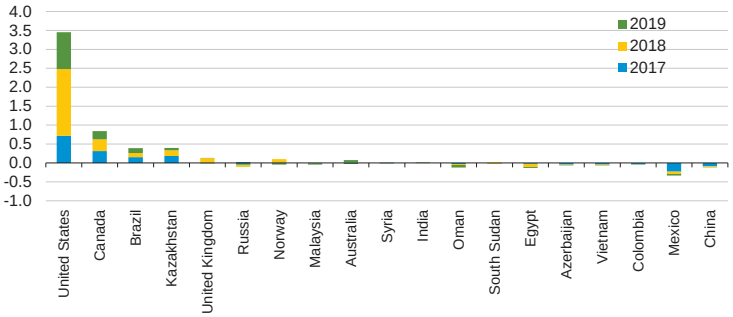
million barrels per day



Source: Short-Term Energy Outlook, February 2018.

Non-OPEC crude oil and liquid fuels production growth

million barrels per day

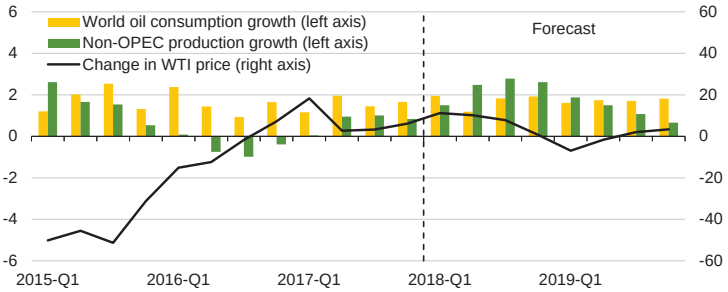


Source: Short-Term Energy Outlook, February 2018.

World consumption and non-OPEC production growth

million barrels per day

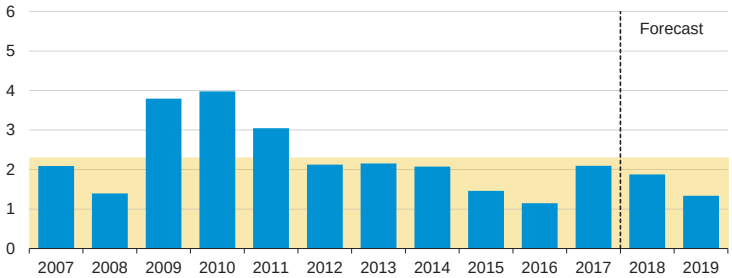
dollars per barrel



Source: Short-Term Energy Outlook, February 2018.

OPEC surplus crude oil production capacity

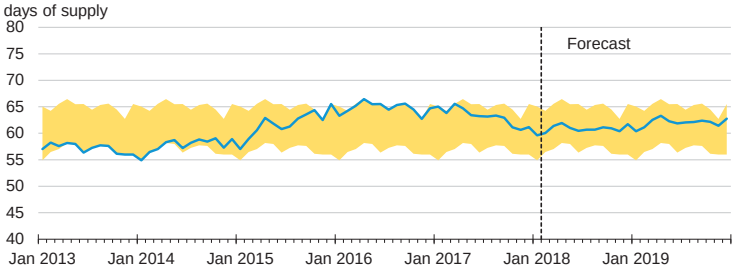
million barrels per day



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

Source: Short-Term Energy Outlook, February 2018.

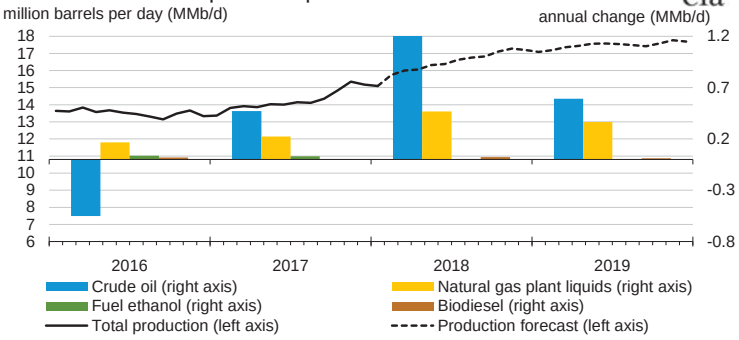
OECD commercial stocks of crude oil and other liquids



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.

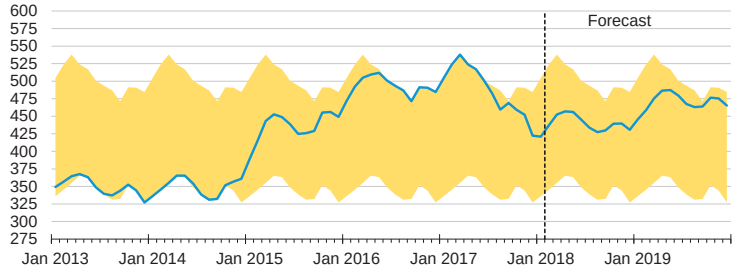
Source: Short-Term Energy Outlook, February 2018.

U.S. crude oil and liquid fuels production



Source: Short-Term Energy Outlook, February 2018.

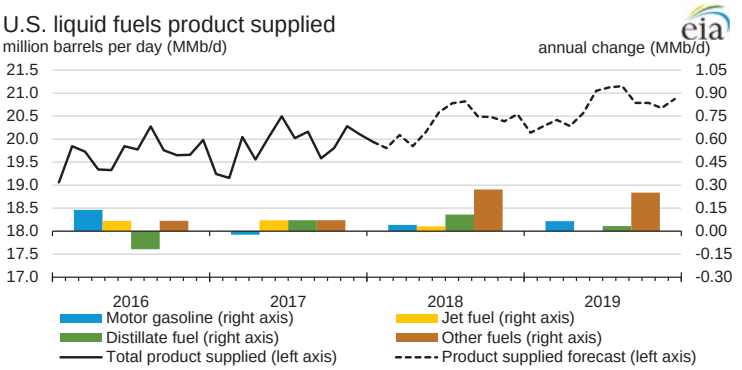
U.S. commercial crude oil stocks



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

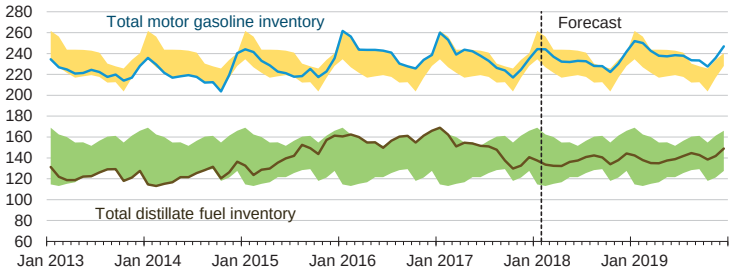
Source: Short-Term Energy Outlook, February 2018.

U.S. liquid fuels product supplied



Source: Short-Term Energy Outlook, February 2018.

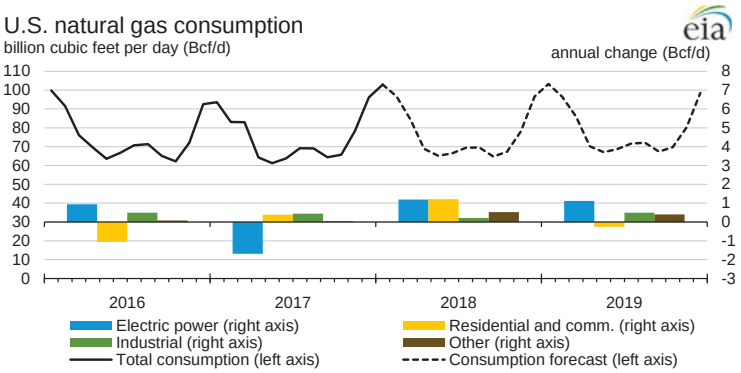
U.S. gasoline and distillate inventories



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

Source: Short-Term Energy Outlook, February 2018.

U.S. natural gas consumption

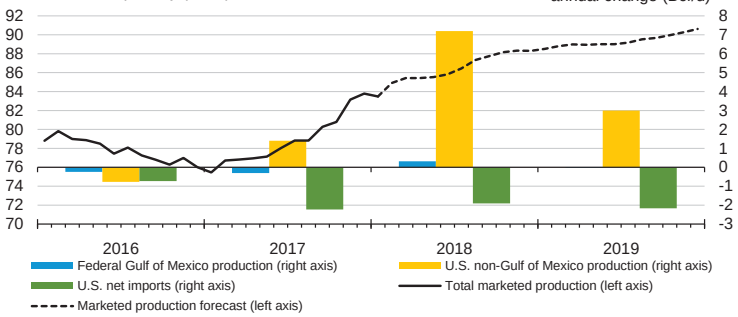


Source: Short-Term Energy Outlook, February 2018.

U.S. natural gas production and imports

billion cubic feet per day (Bcf/d)

annual change (Bcf/d)

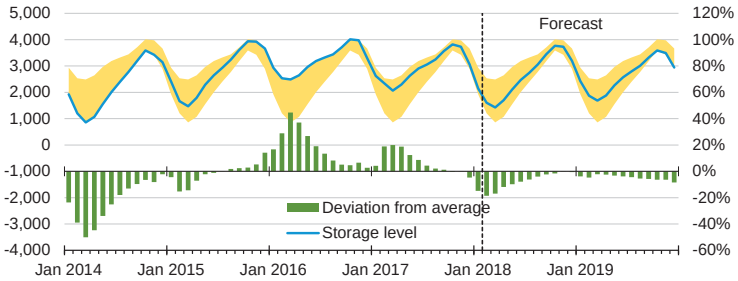


Source: Short-Term Energy Outlook, February 2018.

U.S. working natural gas in storage

billion cubic feet

deviation from average



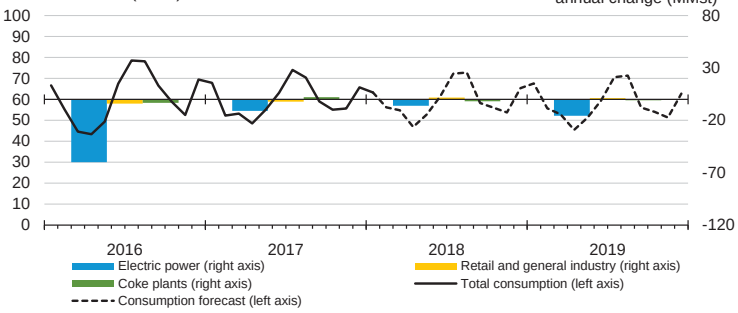
Note: Colored band around storage levels represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

Source: Short-Term Energy Outlook, February 2018.

U.S. coal consumption

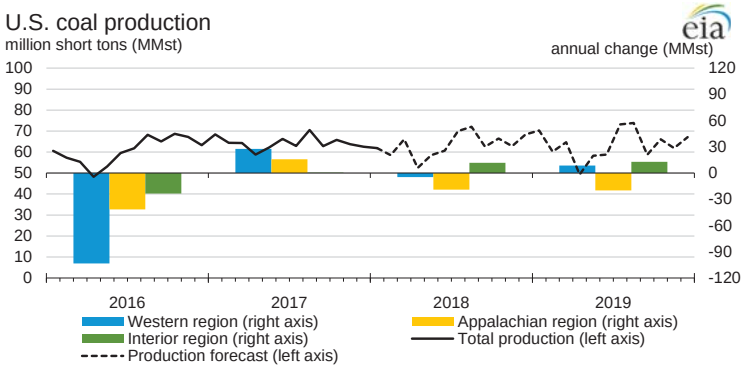
million short tons (MMst)

annual change (MMst)



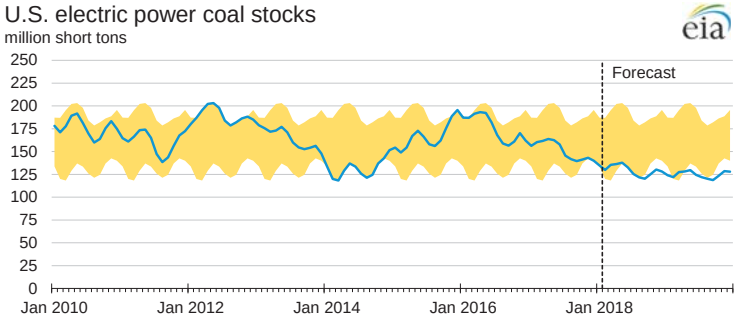
Source: Short-Term Energy Outlook, February 2018.

U.S. coal production



Source: Short-Term Energy Outlook, February 2018.

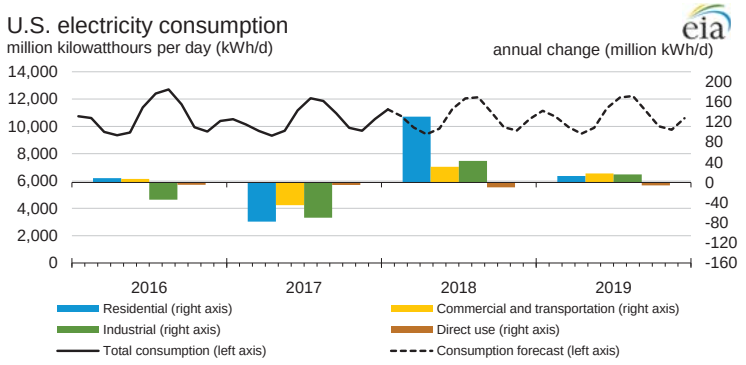
U.S. electric power coal stocks



Note: Colored band around stock levels represents the range between the minimum and maximum from Jan. 2010 - Dec. 2017.

Source: Short-Term Energy Outlook, February 2018.

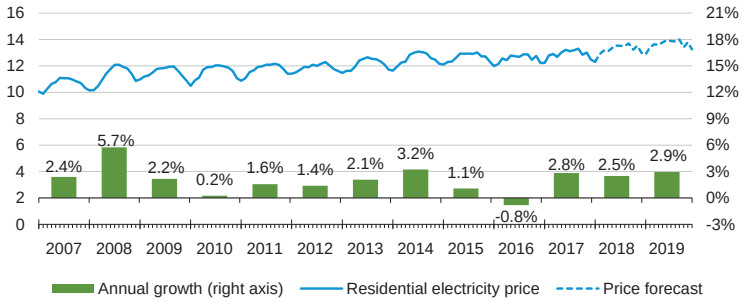
U.S. electricity consumption



Source: Short-Term Energy Outlook, February 2018.

U.S. residential electricity price

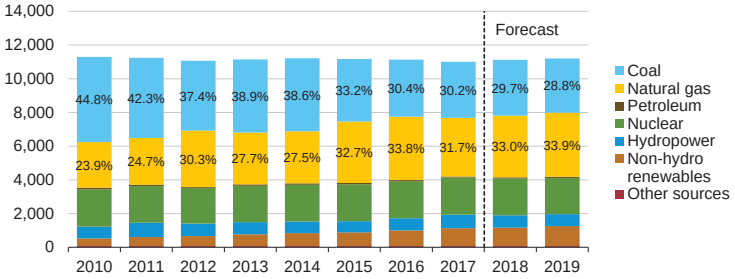
cents per kilowatthour



Source: Short-Term Energy Outlook, February 2018.

U.S. electricity generation by fuel, all sectors

thousand megawatthours per day

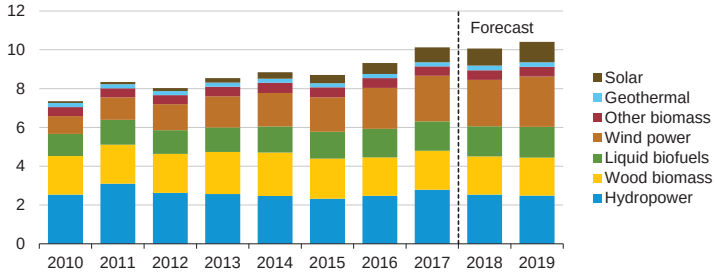


Note: Labels show percentage share of total generation provided by coal and natural gas.

Source: Short-Term Energy Outlook, February 2018.

U.S. renewable energy supply

quadrillion British thermal units (Btu)

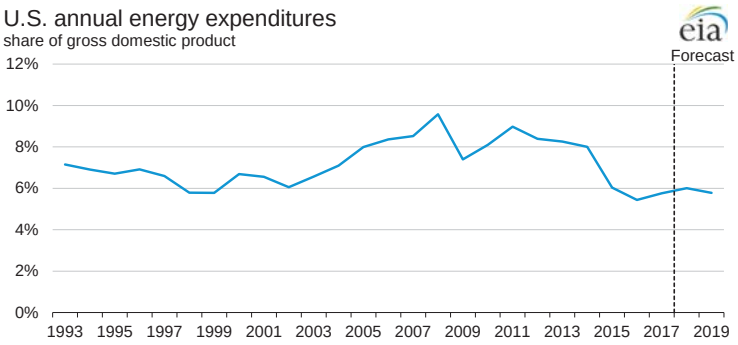


Note: Hydropower excludes pumped storage generation. Liquid biofuels include ethanol and biodiesel. Other biomass includes municipal waste from biogenic sources, landfill gas, and other non-wood waste.

Source: Short-Term Energy Outlook, February 2018.

U.S. annual energy expenditures

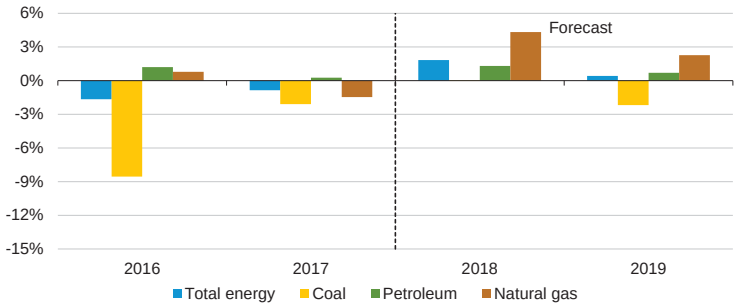
share of gross domestic product



Source: Short-Term Energy Outlook, February 2018.

U.S. energy-related carbon dioxide emissions

annual growth

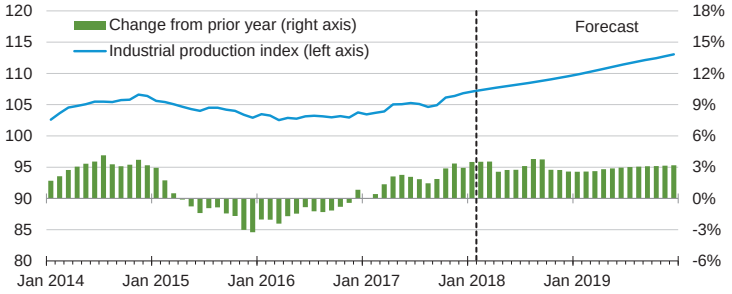


Source: Short-Term Energy Outlook, February 2018.

U.S. total industrial production index

index (2007 = 100)

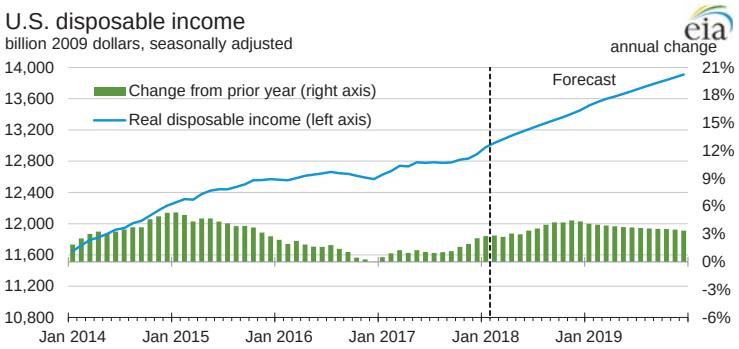
annual change



Source: Short-Term Energy Outlook, February 2018.

U.S. disposable income

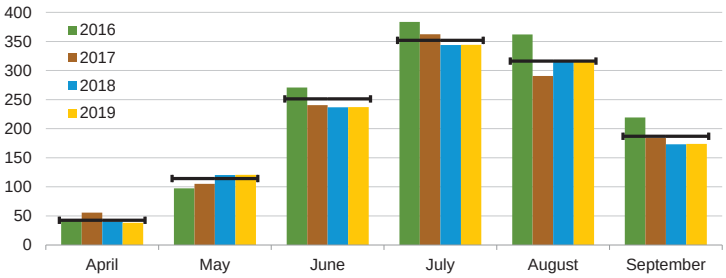
billion 2009 dollars, seasonally adjusted



Source: Short-Term Energy Outlook, February 2018.

U.S. summer cooling degree days

population-weighted

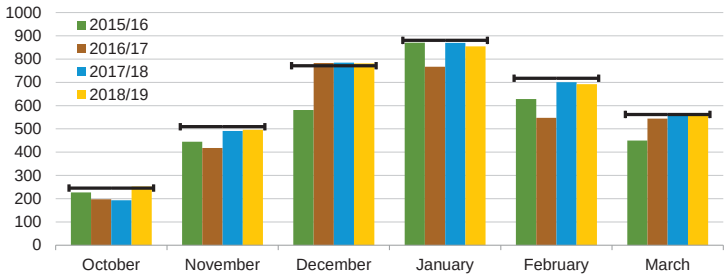


Note: EIA calculations based on from the National Oceanic and Atmospheric Administration data. Horizontal lines indicate each month's prior 10-year average (2008-2017). Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, February 2018.

U.S. winter heating degree days

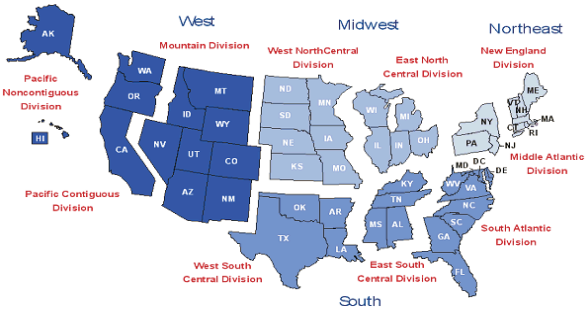
population-weighted



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, February 2018.

U.S. census regions and divisions



Source: Short-Term Energy Outlook, February 2018.

Table 1. U.S. Energy Markets Summary

U.S. Energy Information Administration | Short-Term Energy Outlook - February 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**	**9.92**	*10.24*	*10.42*	*10.66*	*11.04*	*11.19*	*11.21*	*11.07*	*11.27*	**9.33**	*10.59*	*11.18*
Dry Natural Gas Production															
(billion cubic feet per day)	**71.28**	**72.09**	**74.01**	**76.83**	*78.68*	*79.56*	*80.98*	*81.94*	*82.37*	*82.52*	*82.90*	*83.62*	**73.57**	*80.30*	*82.86*
Coal Production															
(million short tons)	**197**	**187**	**196**	**192**	*187*	*172*	*205*	*198*	*195*	*166*	*206*	*195*	**772**	*760*	*762*
Energy Consumption															
Liquid Fuels															
(million barrels per day)	**19.49**	**20.03**	**19.92**	**20.06**	*19.95*	*20.19*	*20.70*	*20.47*	*20.28*	*20.63*	*21.02*	*20.78*	**19.88**	*20.33*	*20.68*
Natural Gas															
(billion cubic feet per day)	**86.64**	**63.05**	**67.53**	**80.10**	*94.60*	*66.79*	*67.92*	*80.70*	*95.17*	*68.66*	*70.40*		**74.29**	*77.44*	*79.20*
Coal (b)															
(million short tons)	**173**	**167**	**203**	**176**	*174*	*161*	*203*	*175*	*176*	*156*	*198*	*168*	**720**	*714*	*698*
Electricity															
(billion kilowatt hours per day)	**10.11**	**10.05**	**11.64**	**10.05**	*10.64*	*10.17*	*11.75*	*10.06*	*10.60*	*10.23*	*11.84*	*10.13*	**10.46**	*10.66*	*10.70*
Renewables (c)															
(quadrillion Btu)	**2.76**	**2.96**	**2.54**	**2.65**	*2.65*	*2.86*	*2.64*	*2.66*	*2.71*	*2.96*	*2.74*	*2.77*	**10.91**	*10.81*	*11.18*
Total Energy Consumption (d)															
(quadrillion Btu)	**25.08**	**23.24**	**24.40**	**24.68**	*25.58*	*23.11*	*24.41*	*24.80*	*25.76*	*23.40*	*24.70*	*25.03*	**97.39**	*97.89*	*98.89*
Energy Prices															
Crude Oil West Texas Intermediate Spot															
(dollars per barrel)	**51.64**	**48.15**	**48.16**	**55.27**	*62.88*	*58.33*	*56.00*	*56.00*	*56.00*	*56.66*	*58.00*	*59.33*	**50.79**	*58.28*	*57.51*
Natural Gas Henry Hub Spot															
(dollars per million Btu)	**3.01**	**3.08**	**2.95**	**2.90**	*3.48*	*3.07*	*3.09*	*3.15*	*3.24*	*3.00*	*3.02*	*3.07*	**2.99**	*3.20*	*3.08*
Coal															
(dollars per million Btu)	**2.08**	**2.12**	**2.07**	**2.10**	*2.21*	*2.21*	*2.22*	*2.20*	*2.22*	*2.20*	*2.22*	*2.19*	**2.09**	*2.21*	*2.21*
Macroeconomic															
Real Gross Domestic Product															
(billion chained 2009 dollars - SAAR)	**16,903**	**17,031**	**17,164**	**17,267**	*17,367*	*17,477*	*17,588*	*17,692*	*17,805*	*17,913*	*18,023*	*18,127*	**17,091**	*17,531*	*17,967*
Percent change from prior year	**2.0**	**2.2**	**2.3**	**2.5**	*2.7*	*2.6*	*2.5*	*2.5*	*2.5*	*2.5*	*2.5*	*2.5*	**2.2**	*2.6*	*2.5*
GDP Implicit Price Deflator															
(Index, 2009=100)	**112.8**	**113.0**	**113.6**	**114.2**	*114.9*	*115.5*	*116.1*	*116.8*	*117.5*	*118.1*	*118.8*	*119.4*	**113.4**	*115.8*	*118.4*
Percent change from prior year	**2.0**	**1.6**	**1.8**	**1.8**	*1.9*	*2.2*	*2.2*	*2.3*	*2.3*	*2.3*	*2.3*	*2.2*	**1.8**	*2.1*	*2.3*
Real Disposable Personal Income															
(billion chained 2009 dollars - SAAR)	**12,680**	**12,766**	**12,783**	**12,848**	*13,032*	*13,167*	*13,290*	*13,409*	*13,555*	*13,663*	*13,769*	*13,874*	**12,769**	*13,224*	*13,715*
Percent change from prior year	**0.9**	**1.1**	**1.1**	**2.0**	*2.8*	*3.1*	*4.0*	*4.4*	*4.0*	*3.8*	*3.6*	*3.5*	**1.3**	*3.6*	*3.7*
Manufacturing Production Index															
(Index, 2012=100)	**103.7**	**104.5**	**104.1**	**106.0**	*106.8*	*107.3*	*108.0*	*108.6*	*109.5*	*110.4*	*111.1*	*111.8*	**104.6**	*107.7*	*110.7*
Percent change from prior year	**0.8**	**1.8**	**1.4**	**2.8**	*2.9*	*2.8*	*3.7*	*2.5*	*2.5*	*2.8*	*2.9*	*2.9*	**1.7**	*3.0*	*2.8*
Weather															
U.S. Heating Degree-Days	**1,859**	**428**	**65**	**1,468**	*2,138*	*493*	*79*	*1,529*	*2,113*	*494*	*79*	*1,527*	**3,820**	*4,239*	*4,213*
U.S. Cooling Degree-Days	**70**	**401**	**837**	**114**	*39*	*397*	*835*	*91*	*43*	*396*	*836*	*91*	**1,422**	*1,362*	*1,366*

- = 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 - February 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**	*62.88*	*58.33*	*56.00*	*56.00*	*56.00*	*56.66*	*58.00*	*59.33*	**50.79**	*58.28*	*57.51*
Brent Spot Average	**53.57**	**49.59**	**52.09**	**61.42**	*67.35*	*62.33*	*60.00*	*60.00*	*60.00*	*60.66*	*62.00*	*63.33*	**54.15**	*62.39*	*61.51*
U.S. Imported Average	**47.94**	**46.12**	**47.49**	**53.15**	*59.40*	*54.84*	*52.50*	*52.50*	*52.50*	*53.17*	*54.50*	*55.84*	**48.53**	*54.95*	*53.97*
U.S. Refiner Average Acquisition Cost	**49.91**	**47.66**	**48.32**	**55.17**	*61.90*	*57.31*	*55.00*	*55.00*	*55.00*	*55.68*	*57.00*	*58.35*	**50.27**	*57.25*	*56.51*
U.S. Liquid Fuels (cents per gallon)															
Refiner Prices for Resale															
Gasoline	**163**	**165**	**172**	**176**	*190*	*194*	*185*	*171*	*170*	*188*	*187*	*176*	**169**	*185*	*181*
Diesel Fuel	**162**	**155**	**169**	**191**	*209*	*195*	*191*	*191*	*187*	*190*	*196*	*198*	**169**	*196*	*193*
Heating Oil	**154**	**144**	**154**	**179**	*205*	*185*	*182*	*183*	*184*	*179*	*187*	*190*	**160**	*192*	*185*
Refiner Prices to End Users															
Jet Fuel	**158**	**150**	**162**	**185**	*205*	*188*	*185*	*185*	*185*	*185*	*192*	*195*	**164**	*191*	*189*
No. 6 Residual Fuel Oil (a)	**128**	**120**	**124**	**138**	*151*	*142*	*137*	*136*	*137*	*136*	*140*	*143*	**128**	*142*	*139*
Retail Prices Including Taxes															
Gasoline Regular Grade (b)	**233**	**238**	**244**	**251**	*262*	*272*	*264*	*250*	*244*	*266*	*266*	*254*	**242**	*262*	*258*
Gasoline All Grades (b)	**244**	**250**	**255**	**263**	*273*	*283*	*275*	*261*	*256*	*277*	*278*	*267*	**253**	*273*	*270*
On-highway Diesel Fuel	**257**	**255**	**263**	**287**	*300*	*290*	*286*	*287*	*281*	*283*	*289*	*294*	**265**	*291*	*287*
Heating Oil	**247**	**238**	**234**	**272**	*300*	*280*	*273*	*279*	*284*	*271*	*275*	*285*	**253**	*288*	*281*
Natural Gas															
Henry Hub Spot (dollars per thousand cubic feet)	**3.12**	**3.19**	**3.06**	**3.01**	*3.61*	*3.18*	*3.20*	*3.26*	*3.36*	*3.11*	*3.13*	*3.19*	**3.10**	*3.31*	*3.19*
Henry Hub Spot (dollars per million Btu)	**3.01**	**3.08**	**2.95**	**2.90**	*3.48*	*3.07*	*3.09*	*3.15*	*3.24*	*3.00*	*3.02*	*3.07*	**2.99**	*3.20*	*3.08*
U.S. Retail Prices (dollars per thousand cubic feet)															
Industrial Sector	**4.50**	**4.12**	**3.89**	**4.05**	*4.82*	*4.13*	*4.10*	*4.42*	*4.73*	*4.05*	*4.05*	*4.35*	**4.15**	*4.39*	*4.31*
Commercial Sector	**7.71**	**8.32**	**8.68**	**7.65**	*7.78*	*8.32*	*8.72*	*8.00*	*7.90*	*8.37*	*8.70*	*7.94*	**7.90**	*8.04*	*8.08*
Residential Sector	**9.73**	**13.00**	**17.74**	**10.32**	*9.56*	*12.32*	*16.66*	*10.73*	*9.90*	*12.41*	*16.75*	*10.70*	**10.97**	*10.78*	*10.96*
U.S. Electricity															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**2.08**	**2.12**	**2.07**	**2.10**	*2.21*	*2.21*	*2.22*	*2.20*	*2.22*	*2.20*	*2.22*	*2.19*	**2.09**	*2.21*	*2.21*
Natural Gas	**3.68**	**3.38**	**3.19**	**3.21**	*4.10*	*3.37*	*3.41*	*3.65*	*3.85*	*3.24*	*3.28*	*3.51*	**3.34**	*3.61*	*3.45*
Residual Fuel Oil (c)	**11.16**	**10.60**	**10.03**	**11.07**	*12.42*	*12.86*	*11.66*	*11.27*	*11.51*	*12.16*	*11.70*	*11.66*	**10.69**	*12.11*	*11.73*
Distillate Fuel Oil	**12.74**	**12.23**	**13.13**	**14.84**	*16.25*	*15.23*	*14.86*	*14.90*	*14.67*	*14.80*	*15.15*	*15.45*	**13.27**	*15.48*	*15.00*
Retail Prices (cents per kilowatthour)															
Industrial Sector	**6.64**	**6.88**	**7.26**	**6.86**	*6.90*	*7.08*	*7.52*	*7.08*	*6.92*	*7.14*	*7.60*	*7.15*	**6.92**	*7.15*	*7.21*
Commercial Sector	**10.39**	**10.68**	**11.03**	**10.57**	*10.56*	*10.94*	*11.40*	*10.94*	*10.80*	*11.00*	*11.35*	*10.96*	**10.68**	*10.98*	*11.04*
Residential Sector	**12.60**	**13.00**	**13.20**	**12.75**	*12.73*	*13.35*	*13.58*	*13.22*	*13.27*	*13.79*	*13.91*	*13.46*	**12.90**	*13.23*	*13.62*

- = 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 - February 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	**27.12**	**26.92**	**27.09**	**27.98**	*28.71*	*29.31*	*29.70*	*30.48*	*30.50*	*30.76*	*30.63*	*31.05*	**27.28**	*29.55*	*30.74*
U.S. (50 States)	**15.00**	**15.32**	**15.48**	**16.47**	*16.61*	*17.11*	*17.58*	*18.03*	*18.04*	*18.38*	*18.31*	*18.50*	**15.57**	*17.34*	*18.31*
Canada	**5.05**	**4.71**	**5.00**	**4.87**	*5.00*	*5.18*	*5.29*	*5.39*	*5.40*	*5.40*	*5.44*	*5.48*	**4.91**	*5.22*	*5.43*
Mexico	**2.36**	**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**	**4.48**	*4.88*	*4.81*	*4.65*	*4.88*	*4.89*	*4.83*	*4.73*	*4.93*	**4.54**	*4.81*	*4.84*
Non-OECD	**70.02**	**70.78**	**71.30**	**70.69**	*70.24*	*70.79*	*71.34*	*71.11*	*70.69*	*71.30*	*71.97*	*71.75*	**70.70**	*70.87*	*71.43*
OPEC	**38.84**	**39.32**	**39.68**	**39.31**	*39.16*	*39.24*	*39.55*	*39.61*	*39.53*	*39.71*	*40.05*	*40.16*	**39.29**	*39.39*	*39.86*
Crude Oil Portion	**32.08**	**32.32**	**32.89**	**32.50**	*32.26*	*32.29*	*32.57*	*32.59*	*32.47*	*32.59*	*32.86*	*32.89*	**32.45**	*32.43*	*32.70*
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**	*14.46*	*14.44*	*14.37*	*14.41*	*14.48*	*14.43*	*14.49*	*14.49*	**14.33**	*14.42*	*14.47*
China	**4.82**	**4.82**	**4.73**	**4.75**	*4.72*	*4.75*	*4.75*	*4.79*	*4.72*	*4.74*	*4.74*	*4.78*	**4.78**	*4.75*	*4.74*
Other Non-OECD	**11.93**	**12.34**	**12.65**	**12.30**	*11.91*	*12.37*	*12.67*	*12.30*	*11.96*	*12.42*	*12.70*	*12.32*	**12.31**	*12.31*	*12.35*
Total World Supply	**97.14**	**97.70**	**98.39**	**98.68**	*98.95*	*100.09*	*101.03*	*101.59*	*101.19*	*102.06*	*102.60*	*102.80*	**97.98**	*100.43*	*102.17*
Non-OPEC Supply	**58.29**	**58.38**	**58.71**	**59.37**	*59.79*	*60.86*	*61.48*	*61.98*	*61.67*	*62.35*	*62.55*	*62.64*	**58.69**	*61.04*	*62.31*
Consumption (million barrels per day) (c)															
OECD	**46.78**	**46.91**	**47.44**	**47.49**	*47.47*	*46.82*	*48.01*	*48.06*	*47.91*	*47.29*	*48.39*	*48.48*	**47.16**	*47.59*	*48.02*
U.S. (50 States)	**19.49**	**20.03**	**19.92**	**20.06**	*19.95*	*20.19*	*20.70*	*20.47*	*20.28*	*20.63*	*21.02*	*20.78*	**19.88**	*20.33*	*20.68*
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**	**2.46**	*2.37*	*2.31*	*2.42*	*2.41*	*2.37*	*2.31*	*2.42*	*2.41*	**2.41**	*2.38*	*2.38*
Europe	**13.93**	**14.32**	**14.74**	**14.23**	*14.21*	*14.26*	*14.68*	*14.41*	*14.28*	*14.25*	*14.71*	*14.52*	**14.31**	*14.39*	*14.44*
Japan	**4.33**	**3.64**	**3.69**	**4.05**	*4.24*	*3.47*	*3.58*	*3.96*	*4.19*	*3.42*	*3.53*	*3.91*	**3.92**	*3.81*	*3.76*
Other OECD	**6.52**	**6.44**	**6.46**	**6.60**	*6.61*	*6.48*	*6.52*	*6.68*	*6.65*	*6.52*	*6.56*	*6.72*	**6.51**	*6.57*	*6.61*
Non-OECD	**50.75**	**51.44**	**51.52**	**51.66**	*52.02*	*52.72*	*52.78*	*53.01*	*53.18*	*54.00*	*54.11*	*54.40*	**51.35**	*52.63*	*53.93*
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	**0.70**	**0.71**	**0.73**	**0.73**	*0.71*	*0.72*	*0.74*	*0.74*	*0.72*	*0.72*	*0.74*	*0.74*	**0.72**	*0.73*	*0.73*
China	**13.48**	**13.27**	**12.95**	**13.34**	*13.84*	*13.64*	*13.34*	*13.82*	*14.14*	*14.01*	*13.75*	*14.26*	**13.26**	*13.66*	*14.04*
Other Asia	**12.99**	**13.31**	**13.03**	**13.36**	*13.65*	*13.82*	*13.45*	*13.76*	*14.06*	*14.24*	*13.85*	*14.18*	**13.17**	*13.67*	*14.08*
Other Non-OECD	**18.82**	**19.40**	**19.81**	**19.33**	*19.02*	*19.70*	*20.14*	*19.70*	*19.41*	*20.13*	*20.59*	*20.17*	**19.34**	*19.64*	*20.08*
Total World Consumption	**97.53**	**98.35**	**98.96**	**99.15**	*99.48*	*99.54*	*100.79*	*101.07*	*101.09*	*101.28*	*102.50*	*102.88*	**98.50**	*100.23*	*101.95*
Total Crude Oil and Other Liquids Inventory Net Withdrawals (million barrels per day)															
U.S. (50 States)	**0.00**	**0.22**	**0.34**	**0.94**	*-0.02*	*-0.48*	*-0.11*	*0.42*	*-0.25*	*-0.50*	*-0.08*	*0.33*	**0.38**	*-0.05*	*-0.12*
Other OECD	**-0.49**	**0.04**	**0.25**	**0.13**	*0.19*	*-0.02*	*-0.04*	*-0.32*	*0.05*	*-0.09*	*-0.01*	*-0.08*	**-0.01**	*-0.05*	*-0.03*
Other Stock Draws and Balance	**0.88**	**0.39**	**-0.01**	**-0.60**	*0.36*	*-0.05*	*-0.09*	*-0.62*	*0.10*	*-0.18*	*-0.02*	*-0.17*	**0.16**	*-0.10*	*-0.07*
Total Stock Draw	**0.40**	**0.65**	**0.57**	**0.47**	*0.53*	*-0.56*	*-0.24*	*-0.52*	*-0.10*	*-0.78*	*-0.10*	*0.08*	**0.52**	*-0.20*	*-0.22*
End-of-period Commercial Crude Oil and Other Liquids Inventories															
U.S. Commercial Inventory	**1,338**	**1,330**	**1,305**	**1,228**	*1,231*	*1,277*	*1,289*	*1,255*	*1,281*	*1,331*	*1,342*	*1,313*	**1,228**	*1,255*	*1,313*
OECD Commercial Inventory	**3,011**	**2,999**	**2,955**	**2,870**	*2,855*	*2,903*	*2,920*	*2,915*	*2,937*	*2,995*	*3,007*	*2,986*	**2,870**	*2,915*	*2,986*

- = 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 *Petroleum Supply Monthly* , DOE/EIA-0109.

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

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

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

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

Projections: EIA Regional Short-Term Energy Model.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 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**	**23.50**	*23.83*	*24.49*	*25.05*	*25.60*	*25.62*	*25.93*	*25.90*	*26.12*	**22.74**	*24.75*	*25.90*
Canada	**5.05**	**4.71**	**5.00**	**4.87**	*5.00*	*5.18*	*5.29*	*5.39*	*5.40*	*5.40*	*5.44*	*5.48*	**4.91**	*5.22*	*5.43*
Mexico	**2.36**	**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*
United States	**15.00**	**15.32**	**15.48**	**16.47**	*16.61*	*17.11*	*17.58*	*18.03*	*18.04*	*18.38*	*18.31*	*18.50*	**15.57**	*17.34*	*18.31*
Central and South America	**4.91**	**5.40**	**5.76**	**5.38**	*5.01*	*5.50*	*5.83*	*5.50*	*5.12*	*5.63*	*5.96*	*5.63*	**5.37**	*5.46*	*5.59*
Argentina	**0.67**	**0.67**	**0.69**	**0.69**	*0.66*	*0.66*	*0.67*	*0.68*	*0.66*	*0.65*	*0.67*	*0.67*	**0.68**	*0.67*	*0.66*
Brazil	**2.95**	**3.44**	**3.76**	**3.40**	*3.07*	*3.55*	*3.86*	*3.53*	*3.18*	*3.68*	*3.99*	*3.66*	**3.39**	*3.50*	*3.63*
Colombia	**0.87**	**0.88**	**0.88**	**0.87**	*0.86*	*0.88*	*0.88*	*0.87*	*0.86*	*0.87*	*0.87*	*0.86*	**0.88**	*0.87*	*0.86*
Other Central and S. America	**0.42**	**0.42**	**0.42**	**0.42**	*0.42*	*0.42*	*0.42*	*0.43*	*0.43*	*0.42*	*0.43*	*0.43*	**0.42**	*0.42*	*0.43*
Europe	**4.22**	**4.05**	**3.91**	**3.96**	*4.35*	*4.28*	*4.09*	*4.31*	*4.30*	*4.22*	*4.10*	*4.29*	**4.04**	*4.26*	*4.23*
Norway	**2.09**	**2.01**	**1.90**	**1.93**	*2.14*	*2.06*	*2.03*	*2.11*	*2.10*	*2.03*	*2.02*	*2.09*	**1.98**	*2.08*	*2.06*
United Kingdom	**1.10**	**1.07**	**1.00**	**1.02**	*1.20*	*1.22*	*1.07*	*1.20*	*1.20*	*1.20*	*1.10*	*1.20*	**1.05**	*1.17*	*1.17*
Eurasia	**14.43**	**14.31**	**14.23**	**14.33**	*14.46*	*14.44*	*14.37*	*14.41*	*14.48*	*14.43*	*14.49*	*14.49*	**14.33**	*14.42*	*14.47*
Azerbaijan	**0.79**	**0.80**	**0.79**	**0.81**	*0.81*	*0.80*	*0.78*	*0.77*	*0.79*	*0.79*	*0.77*	*0.76*	**0.80**	*0.79*	*0.78*
Kazakhstan	**1.87**	**1.87**	**1.86**	**1.93**	*2.01*	*2.01*	*2.02*	*2.08*	*2.11*	*2.04*	*2.09*	*2.14*	**1.88**	*2.03*	*2.10*
Russia	**11.32**	**11.18**	**11.14**	**11.13**	*11.18*	*11.17*	*11.10*	*11.10*	*11.14*	*11.16*	*11.18*	*11.15*	**11.19**	*11.14*	*11.16*
Turkmenistan	**0.28**	**0.28**	**0.29**	**0.29**	*0.29*	*0.29*	*0.29*	*0.29*	*0.28*	*0.28*	*0.28*	*0.28*	**0.28**	*0.29*	*0.28*
Other Eurasia	**0.16**	**0.17**	**0.16**	**0.18**	*0.18*	*0.18*	*0.18*	*0.17*	*0.17*	*0.17*	*0.17*	*0.16*	**0.17**	*0.17*	*0.17*
Middle East	**1.07**	**1.07**	**1.07**	**1.11**	*1.11*	*1.09*	*1.07*	*1.05*	*1.05*	*1.03*	*1.02*	*1.00*	**1.08**	*1.08*	*1.03*
Oman	**0.98**	**0.98**	**0.98**	**1.01**	*0.99*	*0.97*	*0.95*	*0.94*	*0.92*	*0.90*	*0.88*	*0.87*	**0.99**	*0.96*	*0.89*
Asia and Oceania	**9.35**	**9.29**	**9.19**	**9.24**	*9.25*	*9.27*	*9.29*	*9.33*	*9.30*	*9.30*	*9.29*	*9.30*	**9.27**	*9.29*	*9.30*
Australia	**0.35**	**0.36**	**0.37**	**0.36**	*0.36*	*0.37*	*0.38*	*0.39*	*0.41*	*0.43*	*0.44*	*0.45*	**0.36**	*0.37*	*0.43*
China	**4.82**	**4.82**	**4.73**	**4.75**	*4.72*	*4.75*	*4.75*	*4.79*	*4.72*	*4.74*	*4.74*	*4.78*	**4.78**	*4.75*	*4.74*
India	**1.01**	**1.00**	**1.00**	**0.98**	*1.00*	*1.00*	*0.99*	*0.99*	*1.01*	*1.00*	*1.00*	*1.00*	**1.00**	*1.00*	*1.00*
Indonesia	**0.92**	**0.91**	**0.90**	**0.90**	*0.91*	*0.91*	*0.90*	*0.91*	*0.90*	*0.89*	*0.88*	*0.87*	**0.91**	*0.91*	*0.89*
Malaysia	**0.74**	**0.72**	**0.71**	**0.73**	*0.74*	*0.73*	*0.73*	*0.72*	*0.72*	*0.71*	*0.70*	*0.69*	**0.72**	*0.73*	*0.70*
Vietnam	**0.29**	**0.29**	**0.28**	**0.28**	*0.27*	*0.27*	*0.27*	*0.26*	*0.26*	*0.25*	*0.25*	*0.24*	**0.28**	*0.27*	*0.25*
Africa	**1.89**	**1.89**	**1.87**	**1.83**	*1.78*	*1.78*	*1.78*	*1.78*	*1.80*	*1.80*	*1.80*	*1.80*	**1.87**	*1.78*	*1.80*
Egypt	**0.68**	**0.68**	**0.67**	**0.63**	*0.59*	*0.59*	*0.59*	*0.59*	*0.56*	*0.56*	*0.56*	*0.56*	**0.67**	*0.59*	*0.56*
South Sudan	**0.15**	**0.15**	**0.15**	**0.15**	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	**0.15**	*0.12*	*0.12*
Total non-OPEC liquids	**58.29**	**58.38**	**58.71**	**59.37**	*59.79*	*60.86*	*61.48*	*61.98*	*61.67*	*62.35*	*62.55*	*62.64*	**58.69**	*61.04*	*62.31*
OPEC non-crude liquids	**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*
Non-OPEC + OPEC non-crude	**65.06**	**65.38**	**65.49**	**66.18**	*66.69*	*67.80*	*68.47*	*69.00*	*68.72*	*69.47*	*69.74*	*69.91*	**65.53**	*68.00*	*69.46*
Unplanned non-OPEC Production Outages	**0.43**	**0.68**	**0.63**	**0.54**	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	**0.57**	*n/a*	*n/a*

- = 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 - February 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**	-	-
Ecudaor	**0.53**	**0.53**	**0.54**	**0.54**	-	-	-	-	-	-	-	-	**0.54**	-	-
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**	**0.96**	-	-	-	-	-	-	-	-	**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**	**1.79**	-	-	-	-	-	-	-	-	**1.93**	-	-
OPEC Total	**32.08**	**32.32**	**32.89**	**32.50**	*32.26*	*32.29*	*32.57*	*32.59*	*32.47*	*32.59*	*32.86*	*32.89*	**32.45**	*32.43*	*32.70*
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**	**39.31**	*39.16*	*39.24*	*39.55*	*39.61*	*39.53*	*39.71*	*40.05*	*40.16*	**39.29**	*39.39*	*39.86*
Crude Oil Production Capacity															
Africa	**5.04**	**5.24**	**5.65**	**5.64**	*5.64*	*5.57*	*5.55*	*5.54*	*5.51*	*5.53*	*5.56*	*5.63*	**5.39**	*5.57*	*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**	**2.33**	*2.13*	*2.09*	*2.06*	*2.01*	*1.96*	*1.92*	*1.87*	*1.82*	**2.46**	*2.07*	*1.89*
OPEC Total	**34.27**	**34.44**	**34.85**	**34.61**	*34.36*	*34.35*	*34.30*	*34.23*	*33.92*	*33.99*	*34.10*	*34.16*	**34.54**	*34.31*	*34.04*
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**	*2.10*	*2.05*	*1.73*	*1.64*	*1.43*	*1.38*	*1.24*	*1.27*	**2.09**	*1.88*	*1.33*
South America	**0.00**	**0.00**	**0.00**	**0.00**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	**0.00**	*0.00*	*0.00*
OPEC Total	**2.19**	**2.13**	**1.95**	**2.11**	*2.10*	*2.05*	*1.73*	*1.64*	*1.45*	*1.40*	*1.24*	*1.27*	**2.09**	*1.88*	*1.34*
Unplanned OPEC Production Outages	**1.81**	**1.60**	**1.17**	**1.21**	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	**1.45**	*n/a*	*n/a*

- = 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 - February 2018

	2017				2018				2019						
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
North America	**23.81**	**24.36**	**24.33**	**24.49**	*24.27*	*24.48*	*25.07*	*24.83*	*24.59*	*24.89*	*25.37*	*25.12*	**24.25**	*24.66*	*24.99*
Canada	**2.35**	**2.34**	**2.50**	**2.46**	*2.37*	*2.31*	*2.42*	*2.41*	*2.37*	*2.31*	*2.42*	*2.41*	**2.41**	*2.38*	*2.38*
Mexico	**1.96**	**1.98**	**1.90**	**1.96**	*1.94*	*1.96*	*1.93*	*1.94*	*1.92*	*1.94*	*1.91*	*1.92*	**1.95**	*1.94*	*1.92*
United States	**19.49**	**20.03**	**19.92**	**20.06**	*19.95*	*20.19*	*20.70*	*20.47*	*20.28*	*20.63*	*21.02*	*20.78*	**19.88**	*20.33*	*20.68*
Central and South America	**6.98**	**7.03**	**7.11**	**7.05**	*6.86*	*7.02*	*7.15*	*7.18*	*7.02*	*7.19*	*7.32*	*7.35*	**7.04**	*7.05*	*7.22*
Brazil	**3.02**	**3.01**	**3.09**	**3.12**	*3.00*	*3.07*	*3.16*	*3.21*	*3.11*	*3.19*	*3.30*	*3.35*	**3.06**	*3.11*	*3.24*
Europe	**14.64**	**15.03**	**15.47**	**14.96**	*14.92*	*14.98*	*15.41*	*15.15*	*14.99*	*14.97*	*15.45*	*15.26*	**15.02**	*15.12*	*15.17*
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*
Russia	**3.61**	**3.62**	**3.82**	**3.69**	*3.61*	*3.68*	*3.89*	*3.76*	*3.66*	*3.73*	*3.94*	*3.81*	**3.68**	*3.73*	*3.78*
Middle East	**8.19**	**8.73**	**9.14**	**8.56**	*8.33*	*8.88*	*9.30*	*8.71*	*8.48*	*9.05*	*9.48*	*8.89*	**8.66**	*8.81*	*8.97*
Asia and Oceania	**34.83**	**34.15**	**33.67**	**34.86**	*35.83*	*34.88*	*34.38*	*35.73*	*36.54*	*35.67*	*35.19*	*36.59*	**34.37**	*35.20*	*36.00*
China	**13.48**	**13.27**	**12.95**	**13.34**	*13.84*	*13.64*	*13.34*	*13.82*	*14.14*	*14.01*	*13.75*	*14.26*	**13.26**	*13.66*	*14.04*
Japan	**4.33**	**3.64**	**3.69**	**4.05**	*4.24*	*3.47*	*3.58*	*3.96*	*4.19*	*3.42*	*3.53*	*3.91*	**3.92**	*3.81*	*3.76*
India	**4.40**	**4.64**	**4.42**	**4.75**	*4.85*	*4.93*	*4.63*	*4.92*	*5.12*	*5.20*	*4.87*	*5.18*	**4.55**	*4.83*	*5.09*
Africa	**4.31**	**4.30**	**4.22**	**4.32**	*4.46*	*4.44*	*4.36*	*4.47*	*4.61*	*4.59*	*4.50*	*4.62*	**4.29**	*4.43*	*4.58*
Total OECD Liquid Fuels Consumption	**46.78**	**46.91**	**47.44**	**47.49**	*47.47*	*46.82*	*48.01*	*48.06*	*47.91*	*47.29*	*48.39*	*48.48*	**47.16**	*47.59*	*48.02*
Total non-OECD Liquid Fuels Consumption	**50.75**	**51.44**	**51.52**	**51.66**	*52.02*	*52.72*	*52.78*	*53.01*	*53.18*	*54.00*	*54.11*	*54.40*	**51.35**	*52.63*	*53.93*
Total World Liquid Fuels Consumption	**97.53**	**98.35**	**98.96**	**99.15**	*99.48*	*99.54*	*100.79*	*101.07*	*101.09*	*101.28*	*102.50*	*102.88*	**98.50**	*100.23*	*101.95*
Oil-weighted Real Gross Domestic Product (a)															
World Index, 2015 Q1 = 100	**105.6**	**106.4**	**107.3**	**108.2**	*109.3*	*110.1*	*110.9*	*111.8*	*112.8*	*113.6*	*114.4*	*115.3*	**106.9**	*110.5*	*114.0*
Percent change from prior year	**3.6**	**2.9**	**3.1**	**3.1**	*3.5*	*3.4*	*3.4*	*3.4*	*3.3*	*3.2*	*3.2*	*3.1*	**3.2**	*3.4*	*3.2*
OECD Index, 2015 Q1 = 100	**103.8**	**104.5**	**105.1**	**105.8**	*106.7*	*107.2*	*107.6*	*108.3*	*109.0*	*109.3*	*109.7*	*110.1*	**104.8**	*107.4*	*109.5*
Percent change from prior year	**3.0**	**2.1**	**2.4**	**2.3**	*2.7*	*2.6*	*2.4*	*2.4*	*2.1*	*2.0*	*1.9*	*1.7*	**2.5**	*2.5*	*1.9*
Non-OECD Index, 2015 Q1 = 100	**107.3**	**108.3**	**109.4**	**110.5**	*111.8*	*112.9*	*114.0*	*115.3*	*116.6*	*117.8*	*119.0*	*120.3*	**108.9**	*113.5*	*118.4*
Percent change from prior year	**4.2**	**3.6**	**3.7**	**3.8**	*4.2*	*4.2*	*4.2*	*4.3*	*4.3*	*4.3*	*4.4*	*4.4*	**3.8**	*4.2*	*4.3*
Real U.S. Dollar Exchange Rate (a)															
Index, 2015 Q1 = 100	**104.78**	**103.38**	**101.82**	**102.16**	*100.92*	*100.42*	*100.04*	*99.68*	*99.30*	*99.17*	*99.02*	*98.82*	**103.04**	*100.27*	*99.08*
Percent change from prior year	**0.2**	**0.7**	**-0.7**	**-2.3**	*-3.7*	*-2.9*	*-1.7*	*-2.4*	*-1.6*	*-1.2*	*-1.0*	*-0.9*	**-0.5**	*-2.7*	*-1.2*

- = 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 - February 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**	**9.92**	*10.24*	*10.42*	*10.66*	*11.04*	*11.19*	*11.21*	*11.07*	*11.27*	**9.33**	*10.59*	*11.18*
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**	**1.59**	*1.70*	*1.72*	*1.63*	*1.73*	*1.81*	*1.82*	*1.71*	*1.81*	**1.66**	*1.69*	*1.79*
Lower 48 States (excl GOM)	**6.74**	**6.98**	**7.16**	**7.82**	*8.04*	*8.21*	*8.59*	*8.82*	*8.87*	*8.90*	*8.92*	*8.97*	**7.18**	*8.42*	*8.91*
Crude Oil Net Imports (c)	**7.24**	**7.24**	**6.63**	**6.13**	*6.51*	*6.62*	*6.09*	*5.21*	*5.34*	*5.87*	*5.61*	*4.94*	**6.81**	*6.10*	*5.44*
SPR Net Withdrawals	**0.04**	**0.14**	**0.06**	**0.11**	*0.01*	*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**	**0.51**	*-0.34*	*0.08*	*0.17*	*-0.01*	*-0.50*	*-0.04*	*0.17*	*-0.02*	**0.17**	*-0.02*	*-0.09*
Crude Oil Adjustment (d)	**0.23**	**0.24**	**0.28**	**0.06**	*0.02*	*0.19*	*0.21*	*0.15*	*0.19*	*0.19*	*0.21*	*0.15*	**0.20**	*0.14*	*0.19*
Total Crude Oil Input to Refineries	**15.91**	**17.13**	**16.60**	**16.72**	*16.44*	*17.32*	*17.15*	*16.44*	*16.27*	*17.27*	*17.10*	*16.37*	**16.59**	*16.84*	*16.75*
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*	*1.10*	**1.11**	*1.11*	*1.11*
Natural Gas Plant Liquids Production	**3.54**	**3.70**	**3.72**	**3.97**	*3.90*	*4.13*	*4.33*	*4.42*	*4.38*	*4.59*	*4.64*	*4.65*	**3.73**	*4.20*	*4.56*
Renewables and Oxygenate Production (e)	**1.17**	**1.16**	**1.19**	**1.23**	*1.15*	*1.19*	*1.21*	*1.21*	*1.15*	*1.21*	*1.22*	*1.22*	**1.19**	*1.19*	*1.20*
Fuel Ethanol Production	**1.04**	**1.01**	**1.02**	**1.06**	*1.02*	*1.04*	*1.04*	*1.04*	*1.02*	*1.04*	*1.04*	*1.04*	**1.03**	*1.03*	*1.03*
Petroleum Products Adjustment (f)	**0.21**	**0.22**	**0.21**	**0.23**	*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**	**-3.53**	*-3.18*	*-3.24*	*-3.07*	*-3.34*	*-3.04*	*-3.30*	*-3.03*	*-3.15*	**-3.07**	*-3.21*	*-3.13*
Hydrocarbon Gas Liquids	**-1.20**	**-1.18**	**-1.16**	**-1.28**	*-1.29*	*-1.30*	*-1.34*	*-1.56*	*-1.33*	*-1.46*	*-1.47*	*-1.59*	**-1.20**	*-1.37*	*-1.46*
Unfinished Oils	**0.37**	**0.34**	**0.38**	**0.35**	*0.31*	*0.40*	*0.43*	*0.32*	*0.37*	*0.40*	*0.43*	*0.32*	**0.36**	*0.36*	*0.38*
Other HC/Oxygenates	**-0.13**	**-0.09**	**-0.09**	**-0.11**	*-0.11*	*-0.09*	*-0.08*	*-0.08*	*-0.09*	*-0.07*	*-0.06*	*-0.07*	**-0.10**	*-0.09*	*-0.08*
Motor Gasoline Blend Comp.	**0.43**	**0.68**	**0.64**	**0.30**	*0.25*	*0.67*	*0.49*	*0.44*	*0.47*	*0.66*	*0.48*	*0.45*	**0.51**	*0.46*	*0.52*
Finished Motor Gasoline	**-0.66**	**-0.62**	**-0.63**	**-0.94**	*-0.73*	*-0.73*	*-0.51*	*-0.77*	*-0.85*	*-0.68*	*-0.46*	*-0.70*	**-0.72**	*-0.69*	*-0.67*
Jet Fuel	**-0.04**	**-0.07**	**-0.01**	**0.04**	*-0.03*	*0.02*	*0.05*	*0.08*	*0.00*	*0.05*	*0.07*	*0.11*	**-0.02**	*0.03*	*0.06*
Distillate Fuel Oil	**-1.01**	**-1.36**	**-1.32**	**-1.19**	*-0.93*	*-1.36*	*-1.36*	*-1.07*	*-0.98*	*-1.35*	*-1.31*	*-0.99*	**-1.22**	*-1.18*	*-1.16*
Residual Fuel Oil	**-0.10**	**-0.11**	**-0.12**	**-0.08**	*-0.07*	*-0.14*	*-0.10*	*-0.11*	*-0.07*	*-0.14*	*-0.10*	*-0.11*	**-0.10**	*-0.10*	*-0.11*
Other Oils (g)	**-0.61**	**-0.60**	**-0.50**	**-0.62**	*-0.60*	*-0.71*	*-0.64*	*-0.58*	*-0.56*	*-0.70*	*-0.62*	*-0.56*	**-0.58**	*-0.63*	*-0.61*
Product Inventory Net Withdrawals	**0.56**	**-0.33**	**-0.07**	**0.32**	*0.31*	*-0.59*	*-0.31*	*0.39*	*0.20*	*-0.50*	*-0.29*	*0.33*	**0.12**	*-0.05*	*-0.07*
Total Supply	**19.52**	**20.03**	**19.92**	**20.07**	*19.95*	*20.19*	*20.70*	*20.47*	*20.28*	*20.63*	*21.02*	*20.78*	**19.89**	*20.33*	*20.68*
Consumption (million barrels per day)															
Hydrocarbon Gas Liquids	**2.79**	**2.45**	**2.33**	**2.80**	*2.99*	*2.62*	*2.82*	*3.10*	*3.29*	*2.96*	*3.03*	*3.26*	**2.59**	*2.88*	*3.14*
Unfinished Oils	**0.02**	**0.02**	**-0.01**	**0.00**	*0.00*	*-0.03*	*-0.03*	*0.01*	*0.00*	*-0.03*	*-0.03*	*0.01*	**0.01**	*-0.01*	*-0.01*
Motor Gasoline	**8.95**	**9.54**	**9.56**	**9.13**	*8.94*	*9.53*	*9.62*	*9.25*	*8.98*	*9.60*	*9.68*	*9.33*	**9.29**	*9.33*	*9.40*
Fuel Ethanol blended into Motor Gasoline	**0.90**	**0.96**	**0.96**	**0.97**	*0.93*	*0.98*	*0.98*	*0.95*	*0.92*	*0.99*	*0.99*	*0.96*	**0.95**	*0.96*	*0.97*
Jet Fuel	**1.60**	**1.68**	**1.71**	**1.75**	*1.62*	*1.73*	*1.77*	*1.75*	*1.60*	*1.74*	*1.78*	*1.76*	**1.69**	*1.72*	*1.72*
Distillate Fuel Oil	**3.95**	**3.91**	**3.87**	**4.06**	*4.16*	*3.99*	*3.99*	*4.09*	*4.16*	*4.02*	*4.05*	*4.14*	**3.95**	*4.06*	*4.09*
Residual Fuel Oil	**0.37**	**0.37**	**0.30**	**0.39**	*0.33*	*0.31*	*0.33*	*0.30*	*0.36*	*0.31*	*0.33*	*0.30*	**0.36**	*0.32*	*0.32*
Other Oils (g)	**1.83**	**2.06**	**2.15**	**1.93**	*1.91*	*2.04*	*2.20*	*1.98*	*1.90*	*2.03*	*2.19*	*1.98*	**1.99**	*2.03*	*2.03*
Total Consumption	**19.49**	**20.03**	**19.92**	**20.06**	*19.95*	*20.19*	*20.70*	*20.47*	*20.28*	*20.63*	*21.02*	*20.78*	**19.88**	*20.33*	*20.68*
Total Petroleum and Other Liquids Net Imports	**4.28**	**4.25**	**3.83**	**2.60**	*3.34*	*3.38*	*3.02*	*1.87*	*2.30*	*2.57*	*2.58*	*1.79*	**3.74**	*2.90*	*2.31*
End-of-period Inventories (million barrels)															
Commercial Inventory															
Crude Oil (excluding SPR)	**537.9**	**500.4**	**469.1**	**422.3**	*452.5*	*445.3*	*429.7*	*430.7*	*475.5*	*479.4*	*463.8*	*465.3*	**422.3**	*430.7*	*465.3*
Hydrocarbon Gas Liquids	**148.1**	**190.6**	**229.7**	**196.3**	*155.8*	*209.6*	*248.2*	*200.2*	*170.6*	*219.3*	*254.9*	*210.1*	**196.3**	*200.2*	*210.1*
Unfinished Oils	**89.3**	**88.7**	**89.2**	**84.5**	*91.0*	*89.0*	*86.4*	*79.9*	*90.3*	*88.3*	*86.7*	*80.0*	**84.5**	*79.9*	*80.0*
Other HC/Oxygenates	**32.6**	**29.3**	**28.3**	**29.5**	*30.3*	*29.3*	*28.5*	*29.2*	*30.9*	*29.9*	*29.2*	*29.8*	**29.5**	*29.2*	*29.8*
Total Motor Gasoline	**239.0**	**237.9**	**223.8**	**235.0**	*236.8*	*233.1*	*227.9*	*241.8*	*242.5*	*238.5*	*233.4*	*246.8*	**235.0**	*241.8*	*246.8*
Finished Motor Gasoline	**21.7**	**22.5**	**21.8**	**24.7**	*24.6*	*23.4*	*24.0*	*27.3*	*24.8*	*23.8*	*24.5*	*25.4*	**24.7**	*27.3*	*25.4*
Motor Gasoline Blend Comp.	**217.2**	**215.5**	**202.0**	**210.2**	*212.3*	*209.7*	*203.9*	*214.6*	*217.7*	*214.7*	*208.9*	*221.4*	**210.2**	*214.6*	*221.4*
Jet Fuel	**42.3**	**41.0**	**43.3**	**41.0**	*40.7*	*42.0*	*43.2*	*40.9*	*40.9*	*42.5*	*44.2*	*42.0*	**41.0**	*40.9*	*42.0*
Distillate Fuel Oil	**151.1**	**151.6**	**137.5**	**140.7**	*132.3*	*137.4*	*140.5*	*144.2*	*135.1*	*138.8*	*142.7*	*149.0*	**140.7**	*144.2*	*149.0*
Residual Fuel Oil	**40.8**	**35.2**	**35.9**	**30.7**	*36.8*	*38.5*	*37.7*	*38.1*	*40.3*	*40.8*	*39.5*	*39.6*	**30.7**	*38.1*	*39.6*
Other Oils (g)	**56.6**	**55.2**	**47.9**	**48.5**	*54.3*	*52.6*	*47.0*	*49.7*	*55.4*	*53.7*	*48.0*	*50.6*	**48.5**	*49.7*	*50.6*
Total Commercial Inventory	**1,338**	**1,330**	**1,305**	**1,228**	*1,231*	*1,277*	*1,289*	*1,255*	*1,281*	*1,331*	*1,342*	*1,313*	**1,228**	*1,255*	*1,313*
Crude Oil in SPR	**692**	**679**	**674**	**664**	*663*	*661*	*659*	*655*	*651*	*647*	*643*	*641*	**664**	*655*	*641*

- = 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" inludes 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 - February 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**	**1.54**	*1.54*	*1.62*	*1.72*	*1.82*	*1.83*	*1.92*	*1.92*	*1.95*	**1.40**	*1.67*	*1.90*
Propane	**1.16**	**1.21**	**1.23**	**1.28**	*1.26*	*1.31*	*1.36*	*1.37*	*1.35*	*1.39*	*1.42*	*1.43*	**1.22**	*1.33*	*1.40*
Butanes	**0.63**	**0.65**	**0.67**	**0.69**	*0.66*	*0.72*	*0.74*	*0.74*	*0.73*	*0.76*	*0.77*	*0.76*	**0.66**	*0.71*	*0.75*
Natural Gasoline (Pentanes Plus)	**0.41**	**0.45**	**0.48**	**0.46**	*0.44*	*0.49*	*0.52*	*0.50*	*0.47*	*0.51*	*0.53*	*0.51*	**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*	*0.32*	*0.31*	*0.33*	*0.33*	*0.32*	**0.31**	*0.32*	*0.32*
Propylene (refinery-grade)	**0.27**	**0.29**	**0.27**	**0.29**	*0.28*	*0.29*	*0.28*	*0.28*	*0.28*	*0.29*	*0.28*	*0.28*	**0.28**	*0.28*	*0.28*
Butanes/Butylenes	**-0.09**	**0.27**	**0.16**	**-0.20**	*-0.07*	*0.26*	*0.18*	*-0.19*	*-0.07*	*0.26*	*0.18*	*-0.18*	**0.04**	*0.05*	*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**	*-0.29*	*-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**	**-0.80**	*-0.66*	*-0.70*	*-0.71*	*-0.91*	*-0.68*	*-0.81*	*-0.80*	*-0.91*	**-0.75**	*-0.75*	*-0.80*
Butanes/Butylenes	**-0.09**	**-0.12**	**-0.11**	**-0.12**	*-0.14*	*-0.12*	*-0.13*	*-0.15*	*-0.12*	*-0.12*	*-0.12*	*-0.14*	**-0.11**	*-0.13*	*-0.12*
Natural Gasoline (Pentanes Plus)	**-0.18**	**-0.18**	**-0.16**	**-0.15**	*-0.19*	*-0.20*	*-0.22*	*-0.21*	*-0.22*	*-0.23*	*-0.24*	*-0.23*	**-0.17**	*-0.20*	*-0.23*
HGL Refinery and Blender Net Inputs															
Butanes/Butylenes	**0.43**	**0.30**	**0.33**	**0.49**	*0.41*	*0.32*	*0.34*	*0.50*	*0.42*	*0.32*	*0.35*	*0.50*	**0.38**	*0.39*	*0.40*
Natural Gasoline (Pentanes Plus)	**0.16**	**0.18**	**0.18**	**0.17**	*0.17*	*0.17*	*0.18*	*0.18*	*0.17*	*0.18*	*0.18*	*0.18*	**0.17**	*0.17*	*0.18*
HGL Consumption															
Ethane/Ethylene	**1.19**	**1.23**	**1.13**	**1.29**	*1.28*	*1.32*	*1.46*	*1.54*	*1.55*	*1.61*	*1.62*	*1.65*	**1.21**	*1.40*	*1.61*
Propane	**1.05**	**0.60**	**0.67**	**0.90**	*1.14*	*0.65*	*0.71*	*0.95*	*1.13*	*0.66*	*0.73*	*0.96*	**0.81**	*0.86*	*0.87*
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**	*0.20*	*0.28*	*0.27*	*0.24*	*0.24*	*0.32*	*0.31*	*0.28*	**0.17**	*0.25*	*0.28*
Natural Gasoline (Pentanes Plus)	**0.10**	**0.08**	**0.08**	**0.13**	*0.06*	*0.07*	*0.08*	*0.09*	*0.07*	*0.07*	*0.08*	*0.08*	**0.10**	*0.08*	*0.07*
HGL Inventories (million barrels)															
Ethane	**49.65**	**51.89**	**51.77**	**58.52**	*55.26*	*57.73*	*55.80*	*55.29*	*51.44*	*53.11*	*52.02*	*51.45*	**52.98**	*56.02*	*52.00*
Propane	**40.23**	**57.06**	**71.59**	**60.41**	*37.96*	*63.39*	*85.85*	*68.99*	*54.10*	*75.43*	*94.39*	*81.21*	**60.41**	*68.99*	*81.21*
Propylene (refinery-grade)	**3.75**	**4.01**	**5.21**	**4.87**	*4.08*	*4.70*	*4.71*	*4.95*	*3.73*	*4.04*	*4.14*	*4.80*	**4.87**	*4.95*	*4.80*
Butanes/Butylenes	**31.68**	**57.24**	**76.10**	**51.42**	*36.51*	*60.60*	*76.93*	*46.44*	*36.37*	*60.46*	*76.79*	*46.30*	**51.42**	*46.44*	*46.30*
Natural Gasoline (Pentanes Plus)	**21.49**	**20.55**	**23.40**	**21.59**	*21.47*	*23.41*	*25.53*	*25.87*	*24.93*	*26.21*	*27.94*	*27.84*	**21.59**	*25.87*	*27.84*
Refinery and Blender Net Inputs															
Crude Oil	**15.91**	**17.13**	**16.60**	**16.72**	*16.44*	*17.32*	*17.15*	*16.44*	*16.27*	*17.27*	*17.10*	*16.37*	**16.59**	*16.84*	*16.75*
Hydrocarbon Gas Liquids	**0.58**	**0.48**	**0.51**	**0.66**	*0.58*	*0.49*	*0.52*	*0.68*	*0.59*	*0.50*	*0.52*	*0.68*	**0.56**	*0.57*	*0.57*
Other Hydrocarbons/Oxygenates	**1.16**	**1.24**	**1.22**	**1.21**	*1.17*	*1.28*	*1.31*	*1.28*	*1.19*	*1.31*	*1.34*	*1.31*	**1.21**	*1.26*	*1.29*
Unfinished Oils	**0.25**	**0.33**	**0.38**	**0.40**	*0.24*	*0.45*	*0.48*	*0.39*	*0.25*	*0.45*	*0.48*	*0.38*	**0.34**	*0.39*	*0.39*
Motor Gasoline Blend Components	**0.39**	**0.65**	**0.67**	**0.28**	*0.34*	*0.82*	*0.67*	*0.47*	*0.58*	*0.85*	*0.70*	*0.50*	**0.50**	*0.58*	*0.66*
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**	**19.27**	*18.77*	*20.36*	*20.13*	*19.26*	*18.89*	*20.38*	*20.15*	*19.25*	**19.20**	*19.63*	*19.67*
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*	*1.10*	**1.11**	*1.11*	*1.11*
Refinery and Blender Net Production															
Hydrocarbon Gas Liquids	**0.48**	**0.89**	**0.73**	**0.42**	*0.52*	*0.89*	*0.79*	*0.41*	*0.52*	*0.89*	*0.79*	*0.42*	**0.63**	*0.66*	*0.66*
Finished Motor Gasoline	**9.57**	**10.10**	**10.04**	**10.11**	*9.74*	*10.35*	*10.24*	*10.18*	*9.93*	*10.40*	*10.28*	*10.22*	**9.96**	*10.13*	*10.21*
Jet Fuel	**1.63**	**1.74**	**1.75**	**1.68**	*1.64*	*1.72*	*1.73*	*1.65*	*1.60*	*1.71*	*1.72*	*1.63*	**1.70**	*1.69*	*1.66*
Distillate Fuel	**4.75**	**5.18**	**4.94**	**5.21**	*4.91*	*5.31*	*5.30*	*5.11*	*4.95*	*5.32*	*5.31*	*5.11*	**5.02**	*5.16*	*5.17*
Residual Fuel	**0.46**	**0.41**	**0.43**	**0.42**	*0.46*	*0.47*	*0.42*	*0.41*	*0.45*	*0.46*	*0.42*	*0.41*	**0.43**	*0.44*	*0.43*
Other Oils (a)	**2.50**	**2.64**	**2.56**	**2.55**	*2.57*	*2.74*	*2.78*	*2.60*	*2.52*	*2.71*	*2.75*	*2.57*	**2.56**	*2.67*	*2.64*
Total Refinery and Blender Net Production	**19.40**	**20.97**	**20.46**	**20.39**	*19.85*	*21.48*	*21.27*	*20.36*	*19.96*	*21.49*	*21.27*	*20.35*	**20.31**	*20.74*	*20.77*
Refinery Distillation Inputs	**16.23**	**17.42**	**16.90**	**17.01**	*16.67*	*17.44*	*17.37*	*16.69*	*16.50*	*17.39*	*17.33*	*16.63*	**16.89**	*17.05*	*16.96*
Refinery Operable Distillation Capacity	**18.62**	**18.58**	**18.55**	**18.51**	*18.51*	*18.55*	*18.55*	*18.55*	*18.56*	*18.56*	*18.59*	*18.60*	**18.56**	*18.54*	*18.58*
Refinery Distillation Utilization Factor	**0.87**	**0.94**	**0.91**	**0.92**	*0.90*	*0.94*	*0.94*	*0.90*	*0.89*	*0.94*	*0.93*	*0.89*	**0.91**	*0.92*	*0.91*

- = 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 - February 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**	**176**	*190*	*194*	*185*	*171*	*170*	*188*	*187*	*176*	**169**	*185*	*181*
Gasoline Regular Grade Retail Prices Including Taxes															
PADD 1	**231**	**233**	**241**	**249**	*263*	*269*	*260*	*250*	*247*	*263*	*263*	*256*	**239**	*260*	*257*
PADD 2	**223**	**228**	**232**	**242**	*251*	*263*	*256*	*240*	*234*	*259*	*259*	*246*	**231**	*253*	*250*
PADD 3	**210**	**216**	**222**	**225**	*235*	*245*	*234*	*221*	*219*	*238*	*236*	*226*	**218**	*234*	*230*
PADD 4	**227**	**239**	**245**	**252**	*249*	*262*	*262*	*246*	*228*	*254*	*264*	*250*	**241**	*255*	*249*
PADD 5	**276**	**289**	**290**	**299**	*306*	*323*	*313*	*292*	*283*	*313*	*312*	*293*	**288**	*309*	*301*
U.S. Average	**233**	**238**	**244**	**251**	*262*	*272*	*264*	*250*	*244*	*266*	*266*	*254*	**242**	*262*	*258*
Gasoline All Grades Including Taxes	**244**	**250**	**255**	**263**	*273*	*283*	*275*	*261*	*256*	*277*	*278*	*267*	**253**	*273*	*270*
End-of-period Inventories (million barrels)															
Total Gasoline Inventories															
PADD 1	**65.3**	**67.2**	**58.8**	**59.6**	*64.3*	*65.8*	*62.4*	*65.4*	*67.0*	*67.5*	*63.9*	*67.2*	**59.6**	*65.4*	*67.2*
PADD 2	**57.0**	**53.6**	**50.4**	**51.7**	*53.8*	*51.0*	*49.6*	*52.1*	*54.5*	*52.1*	*50.8*	*53.4*	**51.7**	*52.1*	*53.4*
PADD 3	**79.1**	**82.4**	**78.5**	**83.1**	*80.5*	*80.5*	*80.5*	*84.9*	*83.1*	*82.9*	*83.0*	*86.6*	**83.1**	*84.9*	*86.6*
PADD 4	**7.9**	**7.0**	**6.9**	**7.5**	*7.5*	*7.5*	*7.3*	*7.9*	*7.6*	*7.6*	*7.5*	*8.0*	**7.5**	*7.9*	*8.0*
PADD 5	**29.7**	**27.7**	**29.2**	**33.1**	*30.7*	*28.4*	*28.0*	*31.5*	*30.2*	*28.3*	*28.2*	*31.6*	**33.1**	*31.5*	*31.6*
U.S. Total	**239.0**	**237.9**	**223.8**	**235.0**	*236.8*	*233.1*	*227.9*	*241.8*	*242.5*	*238.5*	*233.4*	*246.8*	**235.0**	*241.8*	*246.8*
Finished Gasoline Inventories															
U.S. Total	**21.7**	**22.5**	**21.8**	**24.7**	*24.6*	*23.4*	*24.0*	*27.3*	*24.8*	*23.8*	*24.5*	*25.4*	**24.7**	*27.3*	*25.4*
Gasoline Blending Components Inventories															
U.S. Total	**217.2**	**215.5**	**202.0**	**210.2**	*212.3*	*209.7*	*203.9*	*214.6*	*217.7*	*214.7*	*208.9*	*221.4*	**210.2**	*214.6*	*221.4*

- = 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 - February 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**	**82.57**	*84.60*	*85.59*	*87.17*	*88.26*	*88.77*	*88.99*	*89.45*	*90.28*	**78.91**	*86.42*	*89.38*
Alaska	**1.01**	**0.97**	**0.82**	**0.98**	*1.00*	*0.85*	*0.77*	*0.94*	*1.01*	*0.86*	*0.78*	*0.94*	**0.94**	*0.89*	*0.90*
Federal GOM (a)	**3.26**	**2.99**	**2.91**	**2.79**	*3.45*	*3.33*	*3.21*	*3.22*	*3.45*	*3.28*	*3.16*	*3.17*	**2.99**	*3.30*	*3.27*
Lower 48 States (excl GOM)	**72.05**	**73.40**	**75.56**	**78.80**	*80.14*	*81.41*	*83.19*	*84.11*	*84.31*	*84.85*	*85.51*	*86.17*	**74.97**	*82.23*	*85.22*
Total Dry Gas Production	**71.28**	**72.09**	**74.01**	**76.83**	*78.68*	*79.56*	*80.98*	*81.94*	*82.37*	*82.52*	*82.90*	*83.62*	**73.57**	*80.30*	*82.86*
LNG Gross Imports	**0.29**	**0.18**	**0.17**	**0.22**	*0.31*	*0.17*	*0.15*	*0.22*	*0.32*	*0.17*	*0.17*	*0.21*	**0.21**	*0.21*	*0.22*
LNG Gross Exports	**1.63**	**1.80**	**1.67**	**2.65**	*2.51*	*2.78*	*3.00*	*3.44*	*4.00*	*4.22*	*5.14*	*6.27*	**1.94**	*2.94*	*4.92*
Pipeline Gross Imports	**8.89**	**7.76**	**7.74**	**7.93**	*8.35*	*7.85*	*7.62*	*7.75*	*8.73*	*8.08*	*7.98*	*8.06*	**8.08**	*7.89*	*8.21*
Pipeline Gross Exports	**7.24**	**6.49**	**6.43**	**6.83**	*8.26*	*7.03*	*7.09*	*7.48*	*8.98*	*7.71*	*7.58*	*7.65*	**6.75**	*7.46*	*7.98*
Supplemental Gaseous Fuels	**0.16**	**0.13**	**0.16**	**0.16**	*0.16*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	**0.15**	*0.17*	*0.17*
Net Inventory Withdrawals	**13.72**	**-9.02**	**-7.19**	**5.55**	*18.12*	*-11.40*	*-10.63*	*2.74*	*16.79*	*-9.80*	*-8.13*	*4.15*	**0.72**	*-0.37*	*0.69*
Total Supply	**85.47**	**62.84**	**66.79**	**81.22**	*94.85*	*66.52*	*68.19*	*81.90*	*95.39*	*69.21*	*70.37*	*82.30*	**74.05**	*77.81*	*79.26*
Balancing Item (b)	**1.17**	**0.21**	**0.74**	**-1.12**	*-0.25*	*0.27*	*-0.27*	*-1.20*	*-0.22*	*-0.56*	*0.04*	*0.51*	**0.24**	*-0.37*	*-0.06*
Total Primary Supply	**86.64**	**63.05**	**67.53**	**80.10**	*94.60*	*66.79*	*67.92*	*80.70*	*95.17*	*68.66*	*70.40*	*82.81*	**74.29**	*77.44*	*79.20*
Consumption (billion cubic feet per day)															
Residential	**22.17**	**6.65**	**3.55**	**16.27**	*25.32*	*7.09*	*3.44*	*15.85*	*24.77*	*7.01*	*3.42*	*15.68*	**12.12**	*12.88*	*12.67*
Commercial	**13.50**	**5.83**	**4.55**	**10.70**	*14.86*	*6.10*	*4.62*	*10.86*	*14.72*	*6.11*	*4.60*	*10.81*	**8.63**	*9.09*	*9.04*
Industrial	**22.96**	**20.45**	**20.34**	**22.42**	*23.30*	*20.80*	*20.50*	*22.45*	*23.66*	*21.40*	*21.11*	*22.86*	**21.54**	*21.75*	*22.25*
Electric Power (c)	**21.43**	**24.08**	**32.82**	**23.95**	*23.93*	*26.17*	*32.61*	*24.37*	*24.44*	*27.15*	*34.12*	*25.86*	**25.60**	*26.79*	*27.91*
Lease and Plant Fuel	**4.26**	**4.32**	**4.43**	**4.61**	*4.72*	*4.78*	*4.87*	*4.93*	*4.96*	*4.97*	*4.99*	*5.04*	**4.40**	*4.82*	*4.99*
Pipeline and Distribution Use	**2.20**	**1.60**	**1.71**	**2.02**	*2.35*	*1.72*	*1.77*	*2.11*	*2.51*	*1.90*	*2.03*	*2.44*	**1.88**	*1.99*	*2.22*
Vehicle Use	**0.12**	**0.12**	**0.12**	**0.12**	*0.12*	*0.12*	*0.12*	*0.12*	*0.13*	*0.13*	*0.13*	*0.13*	**0.12**	*0.12*	*0.13*
Total Consumption	**86.64**	**63.05**	**67.53**	**80.10**	*94.60*	*66.79*	*67.92*	*80.70*	*95.17*	*68.66*	*70.40*	*82.81*	**74.29**	*77.44*	*79.20*
End-of-period Inventories (billion cubic feet)															
Working Gas Inventory	**2,063**	**2,908**	**3,568**	**3,059**	*1,429*	*2,466*	*3,444*	*3,193*	*1,682*	*2,573*	*3,321*	*2,939*	**3,059**	*3,193*	*2,939*
East Region (d)	**260**	**563**	**866**	**718**	*222*	*530*	*841*	*732*	*244*	*531*	*789*	*665*	**718**	*732*	*665*
Midwest Region (d)	**478**	**702**	**994**	**847**	*287*	*578*	*969*	*851*	*315*	*568*	*918*	*801*	**847**	*851*	*801*
South Central Region (d)	**938**	**1,139**	**1,137**	**1,016**	*612*	*899*	*1,081*	*1,105*	*754*	*964*	*1,036*	*982*	**1,016**	*1,105*	*982*
Mountain Region (d)	**142**	**184**	**218**	**178**	*82*	*129*	*190*	*181*	*130*	*168*	*204*	*169*	**178**	*181*	*169*
Pacific Region (d)	**219**	**288**	**314**	**263**	*191*	*296*	*331*	*289*	*206*	*309*	*341*	*289*	**263**	*289*	*289*
Alaska	**27**	**32**	**39**	**36**	*33*	*33*	*33*	*33*	*33*	*33*	*33*	*33*	**36**	*33*	*33*

- = 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 - February 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**	*3.61*	*3.18*	*3.20*	*3.26*	*3.36*	*3.11*	*3.13*	*3.19*	**3.10**	*3.31*	*3.19*
Residential Retail															
New England	**12.85**	**14.08**	**18.12**	**13.41**	*12.95*	*14.03*	*16.98*	*13.59*	*13.14*	*14.01*	*16.92*	*13.48*	**13.55**	*13.56*	*13.62*
Middle Atlantic	**9.92**	**12.18**	**17.11**	**11.40**	*10.05*	*12.03*	*16.48*	*11.19*	*10.20*	*12.04*	*16.43*	*10.93*	**11.19**	*11.09*	*11.12*
E. N. Central	**7.77**	**11.52**	**17.80**	**8.13**	*7.75*	*10.96*	*16.70*	*9.07*	*8.13*	*10.99*	*16.64*	*8.96*	**9.00**	*9.07*	*9.29*
W. N. Central	**8.32**	**11.85**	**18.78**	**9.49**	*8.83*	*11.90*	*17.80*	*9.82*	*8.96*	*11.86*	*17.79*	*9.94*	**9.79**	*10.07*	*10.20*
S. Atlantic	**12.28**	**20.04**	**26.87**	**13.71**	*11.27*	*16.35*	*22.23*	*12.88*	*11.45*	*16.26*	*22.17*	*12.67*	**14.87**	*13.10*	*13.16*
E. S. Central	**10.53**	**15.83**	**20.82**	**11.74**	*9.24*	*14.03*	*20.02*	*12.72*	*10.37*	*14.74*	*20.73*	*13.05*	**12.24**	*11.24*	*12.29*
W. S. Central	**10.33**	**16.49**	**22.10**	**12.52**	*8.91*	*14.08*	*19.67*	*12.25*	*9.61*	*14.32*	*19.80*	*12.14*	**13.00**	*11.46*	*11.93*
Mountain	**8.21**	**10.17**	**13.91**	**9.17**	*9.28*	*10.40*	*13.77*	*9.23*	*9.04*	*10.36*	*13.83*	*9.26*	**9.28**	*9.82*	*9.71*
Pacific	**12.02**	**12.64**	**12.90**	**11.29**	*12.27*	*12.42*	*12.88*	*11.64*	*12.55*	*12.78*	*13.25*	*11.97*	**12.01**	*12.17*	*12.49*
U.S. Average	**9.73**	**13.00**	**17.74**	**10.32**	*9.56*	*12.32*	*16.66*	*10.73*	*9.90*	*12.41*	*16.75*	*10.70*	**10.97**	*10.78*	*10.96*
Commercial Retail															
New England	**9.55**	**9.97**	**10.61**	**9.53**	*10.24*	*10.51*	*10.51*	*9.96*	*10.16*	*10.33*	*10.32*	*10.15*	**9.71**	*10.24*	*10.20*
Middle Atlantic	**7.66**	**7.42**	**6.82**	**7.40**	*7.77*	*7.74*	*7.14*	*7.69*	*7.84*	*7.75*	*7.12*	*7.60*	**7.44**	*7.66*	*7.66*
E. N. Central	**6.63**	**7.87**	**8.98**	**6.48**	*6.60*	*7.82*	*9.17*	*7.20*	*6.86*	*7.82*	*9.11*	*7.11*	**6.95**	*7.13*	*7.24*
W. N. Central	**6.96**	**7.79**	**9.08**	**6.91**	*7.46*	*8.07*	*9.12*	*7.48*	*7.67*	*8.06*	*9.07*	*7.43*	**7.24**	*7.69*	*7.77*
S. Atlantic	**8.88**	**9.97**	**9.62**	**9.04**	*8.74*	*9.40*	*9.91*	*9.02*	*8.83*	*9.60*	*9.91*	*8.83*	**9.21**	*9.08*	*9.10*
E. S. Central	**9.05**	**10.28**	**10.76**	**9.32**	*8.58*	*9.75*	*10.28*	*9.20*	*8.71*	*9.64*	*10.15*	*9.11*	**9.54**	*9.12*	*9.14*
W. S. Central	**7.63**	**8.20**	**8.86**	**7.92**	*7.27*	*7.73*	*8.28*	*7.81*	*7.41*	*7.78*	*8.10*	*7.69*	**8.02**	*7.64*	*7.66*
Mountain	**6.88**	**7.37**	**8.27**	**7.25**	*7.80*	*8.04*	*8.72*	*7.58*	*7.72*	*7.92*	*8.61*	*7.48*	**7.23**	*7.87*	*7.77*
Pacific	**9.09**	**9.06**	**9.08**	**8.61**	*8.82*	*8.48*	*8.89*	*8.67*	*8.75*	*8.80*	*9.12*	*8.75*	**8.94**	*8.72*	*8.82*
U.S. Average	**7.71**	**8.32**	**8.68**	**7.65**	*7.78*	*8.32*	*8.72*	*8.00*	*7.90*	*8.37*	*8.70*	*7.94*	**7.90**	*8.04*	*8.08*
Industrial Retail															
New England	**7.81**	**7.04**	**6.39**	**7.17**	*8.45*	*7.84*	*7.22*	*8.35*	*8.59*	*7.73*	*7.14*	*8.16*	**7.23**	*8.08*	*8.04*
Middle Atlantic	**7.69**	**7.59**	**7.62**	**7.07**	*8.10*	*7.59*	*7.55*	*7.83*	*8.14*	*7.46*	*7.46*	*7.74*	**7.50**	*7.88*	*7.84*
E. N. Central	**5.86**	**5.96**	**5.59**	**5.42**	*6.47*	*6.27*	*6.20*	*6.06*	*6.60*	*6.20*	*6.12*	*6.03*	**5.70**	*6.29*	*6.31*
W. N. Central	**5.00**	**4.28**	**4.24**	**4.69**	*5.65*	*4.93*	*4.74*	*5.24*	*5.71*	*4.86*	*4.68*	*5.23*	**4.59**	*5.18*	*5.17*
S. Atlantic	**5.35**	**5.01**	**4.88**	**4.94**	*5.65*	*5.01*	*5.00*	*5.37*	*5.56*	*4.98*	*4.93*	*5.26*	**5.05**	*5.28*	*5.20*
E. S. Central	**5.06**	**4.59**	**4.40**	**4.62**	*5.13*	*4.55*	*4.54*	*4.95*	*5.11*	*4.54*	*4.51*	*4.85*	**4.68**	*4.81*	*4.77*
W. S. Central	**3.42**	**3.42**	**3.30**	**3.21**	*3.77*	*3.40*	*3.49*	*3.52*	*3.61*	*3.29*	*3.43*	*3.46*	**3.33**	*3.55*	*3.45*
Mountain	**5.31**	**5.36**	**5.61**	**5.56**	*5.89*	*5.86*	*6.24*	*6.22*	*6.26*	*5.87*	*6.09*	*6.07*	**5.45**	*6.04*	*6.09*
Pacific	**7.31**	**6.71**	**6.32**	**6.63**	*7.20*	*6.64*	*6.69*	*6.80*	*7.17*	*6.55*	*6.65*	*6.69*	**6.78**	*6.85*	*6.78*
U.S. Average	**4.50**	**4.12**	**3.89**	**4.05**	*4.82*	*4.13*	*4.10*	*4.42*	*4.73*	*4.05*	*4.05*	*4.35*	**4.15**	*4.39*	*4.31*

- = 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 - February 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**	*186.5*	*171.6*	*204.5*	*197.7*	*195.1*	*166.3*	*205.7*	*195.0*	**772.3**	*760.4*	*762.1*
Appalachia	**50.7**	**51.2**	**46.3**	**47.7**	*49.9*	*45.0*	*41.6*	*40.4*	*43.2*	*38.3*	*38.1*	*37.6*	**196.0**	*177.0*	*157.1*
Interior	**38.5**	**36.4**	**34.9**	**34.8**	*36.5*	*34.9*	*42.3*	*42.6*	*46.3*	*35.8*	*43.4*	*43.6*	**144.6**	*156.3*	*169.2*
Western	**107.8**	**99.4**	**115.0**	**109.5**	*100.2*	*91.7*	*120.6*	*114.6*	*105.5*	*92.3*	*124.2*	*113.8*	**431.7**	*427.1*	*435.8*
Primary Inventory Withdrawals	**0.1**	**1.8**	**1.4**	**0.9**	*-2.8*	*2.1*	*1.0*	*-0.5*	*-3.9*	*1.5*	*1.2*	*-3.0*	**4.2**	*-0.1*	*-4.3*
Imports	**1.9**	**2.2**	**2.3**	**1.5**	*1.2*	*2.2*	*2.9*	*2.6*	*1.4*	*2.3*	*2.9*	*2.6*	**8.0**	*8.9*	*9.3*
Exports	**22.3**	**21.8**	**24.6**	**27.6**	*22.3*	*20.0*	*19.8*	*19.3*	*19.8*	*19.0*	*19.9*	*19.7*	**96.3**	*81.4*	*78.4*
Metallurgical Coal	**12.2**	**13.5**	**14.8**	**14.6**	*13.8*	*13.6*	*13.6*	*13.3*	*13.7*	*13.3*	*13.6*	*13.2*	**55.1**	*54.3*	*53.7*
Steam Coal	**10.1**	**8.3**	**9.8**	**13.0**	*8.6*	*6.4*	*6.3*	*6.0*	*6.1*	*5.7*	*6.3*	*6.5*	**41.2**	*27.2*	*24.7*
Total Primary Supply	**176.8**	**169.2**	**175.3**	**166.8**	*162.5*	*156.0*	*188.7*	*180.6*	*172.8*	*151.1*	*189.9*	*174.9*	**688.1**	*687.8*	*688.7*
Secondary Inventory Withdrawals	**1.0**	**3.7**	**18.2**	**-0.1**	*4.8*	*2.5*	*12.3*	*-7.8*	*1.0*	*2.5*	*5.7*	*-9.2*	**22.9**	*11.8*	*0.0*
Waste Coal (a)	**2.4**	**1.7**	**2.5**	**2.5**	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	**9.2**	*9.6*	*9.6*
Total Supply	**180.2**	**174.7**	**196.0**	**169.3**	*169.7*	*160.8*	*203.4*	*175.2*	*176.2*	*156.0*	*198.0*	*168.1*	**720.1**	*709.1*	*698.3*
Consumption (million short tons)															
Coke Plants	**4.2**	**4.3**	**4.7**	**5.4**	*3.9*	*3.5*	*4.2*	*5.2*	*3.5*	*3.3*	*4.0*	*5.1*	**18.7**	*16.8*	*15.9*
Electric Power Sector (b)	**160.3**	**154.1**	**190.7**	**162.4**	*161.3*	*148.8*	*190.4*	*161.0*	*163.3*	*143.9*	*185.0*	*153.7*	**667.5**	*661.4*	*645.9*
Retail and Other Industry	**8.8**	**8.3**	**7.9**	**8.6**	*9.1*	*8.6*	*8.7*	*9.0*	*9.4*	*8.9*	*9.0*	*9.3*	**33.7**	*35.4*	*36.6*
Residential and Commercial	**0.4**	**0.2**	**0.1**	**0.2**	*0.3*	*0.1*	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	*0.2*	**0.9**	*0.7*	*0.5*
Other Industrial	**8.4**	**8.1**	**7.8**	**8.4**	*8.8*	*8.5*	*8.6*	*8.9*	*9.2*	*8.8*	*8.9*	*9.2*	**32.8**	*34.8*	*36.0*
Total Consumption	**173.4**	**166.7**	**203.4**	**176.4**	*174.3*	*160.8*	*203.4*	*175.2*	*176.2*	*156.0*	*198.0*	*168.1*	**719.9**	*713.7*	*698.3*
Discrepancy (c)	**6.8**	**7.9**	**-7.4**	**-7.2**	*-4.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	**0.2**	*-4.6*	*0.0*
End-of-period Inventories (million short tons)															
Primary Inventories (d)	**25.2**	**23.4**	**22.0**	**21.1**	*24.0*	*21.8*	*20.8*	*21.3*	*25.1*	*23.7*	*22.5*	*25.5*	**21.1**	*21.3*	*25.5*
Secondary Inventories	**166.6**	**163.0**	**144.8**	**144.8**	*140.0*	*137.6*	*125.2*	*133.1*	*132.1*	*129.5*	*123.9*	*133.1*	**144.8**	*133.1*	*133.1*
Electric Power Sector	**161.7**	**157.7**	**139.5**	**140.0**	*135.5*	*132.7*	*120.2*	*128.1*	*127.5*	*124.6*	*118.7*	*127.9*	**140.0**	*128.1*	*127.9*
Retail and General Industry	**3.2**	**3.3**	**3.3**	**2.9**	*3.0*	*3.0*	*3.1*	*3.1*	*3.2*	*3.2*	*3.4*	*3.4*	**2.9**	*3.1*	*3.4*
Coke Plants	**1.4**	**1.6**	**1.7**	**1.8**	*1.3*	*1.6*	*1.7*	*1.7*	*1.2*	*1.5*	*1.6*	*1.6*	**1.8**	*1.7*	*1.6*
Coal Market Indicators															
Coal Miner Productivity															
(Tons per hour)	**6.19**	**6.19**	**6.19**	**6.19**	*6.10*	*6.10*	*6.10*	*6.10*	*6.02*	*6.02*	*6.02*	*6.02*	**6.19**	*6.10*	*6.02*
Total Raw Steel Production															
(Million short tons per day)	**0.248**	**0.247**	**0.250**	**0.245**	*0.255*	*0.255*	*0.234*	*0.199*	*0.256*	*0.254*	*0.236*	*0.204*	**0.248**	*0.236*	*0.237*
Cost of Coal to Electric Utilities															
(Dollars per million Btu)	**2.08**	**2.12**	**2.07**	**2.10**	*2.21*	*2.21*	*2.22*	*2.20*	*2.22*	*2.20*	*2.22*	*2.19*	**2.09**	*2.21*	*2.21*

- = no data available

(a) Waste coal includes waste coal and cloal 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 - February 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**	**10.68**	**12.15**	**10.58**	*10.90*	*10.78*	*12.24*	*10.55*	*10.99*	*10.86*	*12.34*	*10.63*	**11.00**	*11.12*	*11.21*
Electric Power Sector (a)	**10.14**	**10.26**	**11.72**	**10.16**	*10.48*	*10.36*	*11.81*	*10.15*	*10.58*	*10.45*	*11.91*	*10.23*	**10.57**	*10.70*	*10.80*
Comm. and Indus. Sectors (b)	**0.43**	**0.42**	**0.44**	**0.42**	*0.42*	*0.41*	*0.43*	*0.40*	*0.41*	*0.40*	*0.43*	*0.40*	**0.43**	*0.42*	*0.41*
Net Imports	**0.13**	**0.14**	**0.19**	**0.16**	*0.20*	*0.21*	*0.23*	*0.18*	*0.19*	*0.20*	*0.21*	*0.17*	**0.16**	*0.21*	*0.19*
Total Supply	**10.71**	**10.83**	**12.34**	**10.74**	*11.10*	*10.99*	*12.46*	*10.73*	*11.18*	*11.05*	*12.55*	*10.81*	**11.16**	*11.32*	*11.40*
Losses and Unaccounted for (c)	**0.60**	**0.78**	**0.70**	**0.69**	*0.46*	*0.81*	*0.71*	*0.67*	*0.58*	*0.82*	*0.72*	*0.68*	**0.69**	*0.67*	*0.70*
Electricity Consumption (billion kilowatthours per day unless noted)															
Retail Sales	**9.73**	**9.68**	**11.25**	**9.68**	*10.27*	*9.81*	*11.37*	*9.71*	*10.24*	*9.87*	*11.46*	*9.77*	**10.09**	*10.29*	*10.34*
Residential Sector	**3.70**	**3.42**	**4.45**	**3.53**	*4.07*	*3.50*	*4.51*	*3.54*	*4.03*	*3.53*	*4.55*	*3.58*	**3.78**	*3.91*	*3.92*
Commercial Sector	**3.50**	**3.62**	**4.06**	**3.57**	*3.58*	*3.65*	*4.08*	*3.58*	*3.58*	*3.67*	*4.11*	*3.59*	**3.69**	*3.72*	*3.74*
Industrial Sector	**2.50**	**2.62**	**2.72**	**2.55**	*2.60*	*2.64*	*2.76*	*2.57*	*2.61*	*2.66*	*2.78*	*2.59*	**2.60**	*2.64*	*2.66*
Transportation Sector	**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*
Direct Use (d)	**0.38**	**0.37**	**0.38**	**0.37**	*0.37*	*0.36*	*0.38*	*0.35*	*0.36*	*0.36*	*0.38*	*0.35*	**0.38**	*0.37*	*0.36*
Total Consumption	**10.11**	**10.05**	**11.64**	**10.05**	*10.64*	*10.17*	*11.75*	*10.06*	*10.60*	*10.23*	*11.84*	*10.13*	**10.46**	*10.66*	*10.70*
Average residential electricity usage per customer (kWh)	**2,527**	**2,360**	**3,104**	**2,461**	*2,712*	*2,387*	*3,108*	*2,440*	*2,678*	*2,371*	*3,095*	*2,432*	**10,452**	*10,647*	*10,575*
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**2.08**	**2.12**	**2.07**	**2.10**	*2.21*	*2.21*	*2.22*	*2.20*	*2.22*	*2.20*	*2.22*	*2.19*	**2.09**	*2.21*	*2.21*
Natural Gas	**3.68**	**3.38**	**3.19**	**3.21**	*4.10*	*3.37*	*3.41*	*3.65*	*3.85*	*3.24*	*3.28*	*3.51*	**3.34**	*3.61*	*3.45*
Residual Fuel Oil	**11.16**	**10.60**	**10.03**	**11.07**	*12.42*	*12.86*	*11.66*	*11.27*	*11.51*	*12.16*	*11.70*	*11.66*	**10.69**	*12.11*	*11.73*
Distillate Fuel Oil	**12.74**	**12.23**	**13.13**	**14.84**	*16.25*	*15.23*	*14.86*	*14.90*	*14.67*	*14.80*	*15.15*	*15.45*	**13.27**	*15.48*	*15.00*
Retail Prices (cents per kilowatthour)															
Residential Sector	**12.60**	**13.00**	**13.20**	**12.75**	*12.73*	*13.35*	*13.58*	*13.22*	*13.27*	*13.79*	*13.91*	*13.46*	**12.90**	*13.23*	*13.62*
Commercial Sector	**10.39**	**10.68**	**11.03**	**10.57**	*10.56*	*10.94*	*11.40*	*10.94*	*10.80*	*11.00*	*11.35*	*10.96*	**10.68**	*10.98*	*11.04*
Industrial Sector	**6.64**	**6.88**	**7.26**	**6.86**	*6.90*	*7.08*	*7.52*	*7.08*	*6.92*	*7.14*	*7.60*	*7.15*	**6.92**	*7.15*	*7.21*

- = 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 colocated 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 - February 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	**135**	**112**	**136**	**123**	*143*	*113*	*140*	*122*	*140*	*113*	*140*	*123*	**126**	*130*	*129*
Middle Atlantic	**368**	**307**	**403**	**329**	*398*	*312*	*410*	*324*	*390*	*312*	*410*	*325*	**352**	*361*	*359*
E. N. Central	**507**	**435**	**545**	**477**	*552*	*442*	*560*	*470*	*543*	*442*	*560*	*471*	**491**	*506*	*504*
W. N. Central	**298**	**246**	**303**	**268**	*326*	*254*	*314*	*270*	*325*	*257*	*320*	*275*	**279**	*291*	*294*
S. Atlantic	**891**	**891**	**1,131**	**891**	*1,044*	*911*	*1,134*	*890*	*1,025*	*917*	*1,143*	*899*	**951**	*995*	*996*
E. S. Central	**305**	**277**	**368**	**287**	*367*	*290*	*380*	*290*	*351*	*291*	*382*	*291*	**310**	*331*	*329*
W. S. Central	**501**	**536**	**760**	**522**	*562*	*564*	*791*	*535*	*552*	*572*	*805*	*545*	**580**	*613*	*619*
Mountain	**245**	**259**	**347**	**232**	*246*	*259*	*350*	*235*	*253*	*262*	*356*	*238*	**271**	*273*	*278*
Pacific contiguous	**439**	**346**	**447**	**387**	*418*	*348*	*423*	*394*	*434*	*349*	*424*	*397*	**405**	*396*	*401*
AK and HI	**14**	**12**	**12**	**14**	*13*	*12*	*12*	*13*	*13*	*12*	*12*	*13*	**13**	*13*	*13*
Total	**3,704**	**3,421**	**4,450**	**3,529**	*4,071*	*3,504*	*4,514*	*3,544*	*4,027*	*3,526*	*4,552*	*3,577*	**3,777**	*3,908*	*3,921*
Commercial Sector															
New England	**140**	**136**	**152**	**146**	*140*	*133*	*148*	*143*	*137*	*131*	*146*	*138*	**143**	*141*	*138*
Middle Atlantic	**423**	**404**	**462**	**413**	*431*	*404*	*463*	*410*	*428*	*402*	*461*	*409*	**425**	*427*	*425*
E. N. Central	**489**	**486**	**537**	**484**	*498*	*488*	*543*	*484*	*498*	*489*	*543*	*483*	**499**	*503*	*504*
W. N. Central	**272**	**270**	**302**	**270**	*276*	*271*	*306*	*271*	*278*	*274*	*309*	*273*	**278**	*281*	*283*
S. Atlantic	**785**	**853**	**941**	**811**	*806*	*855*	*941*	*810*	*807*	*858*	*944*	*811*	**848**	*853*	*855*
E. S. Central	**225**	**241**	**275**	**232**	*234*	*243*	*278*	*231*	*234*	*245*	*281*	*233*	**243**	*247*	*248*
W. S. Central	**471**	**522**	**598**	**509**	*496*	*540*	*614*	*518*	*505*	*557*	*634*	*531*	**525**	*542*	*557*
Mountain	**246**	**265**	**301**	**249**	*247*	*265*	*305*	*251*	*250*	*268*	*307*	*252*	**265**	*267*	*269*
Pacific contiguous	**431**	**431**	**480**	**445**	*433*	*430*	*468*	*443*	*432*	*431*	*469*	*444*	**447**	*444*	*444*
AK and HI	**16**	**16**	**16**	**16**	*16*	*16*	*16*	*16*	*16*	*15*	*16*	*16*	**16**	*16*	*16*
Total	**3,498**	**3,622**	**4,063**	**3,573**	*3,578*	*3,645*	*4,082*	*3,577*	*3,585*	*3,670*	*4,110*	*3,590*	**3,690**	*3,722*	*3,740*
Industrial Sector															
New England	**44**	**44**	**48**	**47**	*44*	*43*	*46*	*45*	*43*	*42*	*45*	*44*	**46**	*44*	*43*
Middle Atlantic	**192**	**194**	**204**	**196**	*201*	*195*	*207*	*197*	*202*	*197*	*209*	*199*	**197**	*200*	*202*
E. N. Central	**495**	**504**	**522**	**498**	*519*	*506*	*528*	*499*	*518*	*506*	*528*	*500*	**505**	*513*	*513*
W. N. Central	**228**	**240**	**253**	**238**	*242*	*247*	*261*	*243*	*247*	*253*	*267*	*250*	**240**	*248*	*254*
S. Atlantic	**362**	**386**	**390**	**370**	*363*	*380*	*388*	*364*	*358*	*376*	*384*	*361*	**377**	*374*	*370*
E. S. Central	**267**	**275**	**281**	**263**	*270*	*275*	*282*	*261*	*267*	*274*	*280*	*260*	**272**	*272*	*270*
W. S. Central	**480**	**502**	**510**	**490**	*514*	*517*	*525*	*501*	*524*	*527*	*537*	*513*	**495**	*514*	*525*
Mountain	**210**	**228**	**245**	**211**	*215*	*232*	*250*	*215*	*219*	*236*	*254*	*218*	**224**	*228*	*232*
Pacific contiguous	**211**	**230**	**253**	**226**	*218*	*232*	*256*	*228*	*219*	*233*	*257*	*228*	**230**	*234*	*234*
AK and HI	**13**	**14**	**14**	**14**	*14*	*14*	*14*	*14*	*14*	*14*	*14*	*14*	**14**	*14*	*14*
Total	**2,503**	**2,616**	**2,719**	**2,553**	*2,598*	*2,642*	*2,757*	*2,568*	*2,609*	*2,657*	*2,775*	*2,588*	**2,598**	*2,641*	*2,657*
Total All Sectors (a)															
New England	**320**	**294**	**336**	**317**	*329*	*290*	*336*	*312*	*322*	*287*	*332*	*307*	**317**	*317*	*312*
Middle Atlantic	**994**	**915**	**1,079**	**948**	*1,041*	*921*	*1,090*	*942*	*1,031*	*920*	*1,090*	*943*	**984**	*999*	*996*
E. N. Central	**1,493**	**1,427**	**1,605**	**1,461**	*1,570*	*1,438*	*1,631*	*1,454*	*1,561*	*1,439*	*1,633*	*1,457*	**1,497**	*1,524*	*1,522*
W. N. Central	**798**	**755**	**857**	**776**	*844*	*772*	*880*	*785*	*849*	*784*	*896*	*798*	**797**	*820*	*832*
S. Atlantic	**2,042**	**2,134**	**2,465**	**2,075**	*2,218*	*2,150*	*2,467*	*2,068*	*2,193*	*2,154*	*2,474*	*2,074*	**2,180**	*2,226*	*2,224*
E. S. Central	**798**	**793**	**924**	**782**	*871*	*808*	*940*	*782*	*853*	*810*	*943*	*784*	**825**	*850*	*847*
W. S. Central	**1,452**	**1,559**	**1,868**	**1,521**	*1,573*	*1,621*	*1,931*	*1,554*	*1,581*	*1,656*	*1,977*	*1,590*	**1,601**	*1,670*	*1,702*
Mountain	**701**	**752**	**893**	**692**	*708*	*756*	*906*	*701*	*722*	*766*	*917*	*709*	**760**	*768*	*779*
Pacific contiguous	**1,084**	**1,010**	**1,184**	**1,060**	*1,071*	*1,013*	*1,150*	*1,067*	*1,087*	*1,015*	*1,153*	*1,071*	**1,084**	*1,075*	*1,082*
AK and HI	**43**	**41**	**43**	**43**	*43*	*41*	*43*	*43*	*43*	*41*	*43*	*43*	**43**	*42*	*42*
Total	**9,726**	**9,679**	**11,253**	**9,676**	*10,268*	*9,811*	*11,374*	*9,708*	*10,241*	*9,873*	*11,458*	*9,775*	**10,087**	*10,292*	*10,338*

- = no data available

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

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

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

Regions refer to U.S. Census divisions.

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

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

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

Projections: EIA Regional Short-Term Energy Model.

Table 7c. U.S. Regional Retail Electricity Prices (Cents per Kilowatthour

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

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	**19.06**	**19.49**	**19.50**	**19.39**	*19.92*	*20.46*	*20.35*	*20.53*	*21.22*	*21.58*	*21.29*	*21.24*	**19.36**	*20.30*	*21.32*
Middle Atlantic	**15.55**	**16.27**	**16.43**	**15.85**	*15.68*	*16.57*	*16.83*	*16.39*	*16.19*	*17.03*	*17.20*	*16.68*	**16.03**	*16.36*	*16.77*
E. N. Central	**12.90**	**13.58**	**13.26**	**13.26**	*13.19*	*14.11*	*13.87*	*13.98*	*13.87*	*14.70*	*14.31*	*14.38*	**13.24**	*13.77*	*14.29*
W. N. Central	**10.94**	**12.66**	**13.17**	**11.31**	*10.98*	*12.95*	*13.56*	*11.71*	*11.34*	*13.28*	*13.80*	*11.93*	**12.02**	*12.28*	*12.58*
S. Atlantic	**11.69**	**12.01**	**12.26**	**11.84**	*11.88*	*12.36*	*12.67*	*12.31*	*12.38*	*12.74*	*12.95*	*12.49*	**11.97**	*12.32*	*12.65*
E. S. Central	**11.08**	**11.44**	**11.32**	**11.27**	*11.04*	*11.87*	*11.97*	*11.86*	*11.58*	*12.15*	*11.99*	*12.03*	**11.28**	*11.67*	*11.93*
W. S. Central	**10.55**	**10.93**	**10.87**	**10.77**	*10.51*	*11.00*	*11.07*	*11.12*	*10.90*	*11.29*	*11.20*	*11.13*	**10.79**	*10.94*	*11.14*
Mountain	**11.28**	**12.16**	**12.31**	**11.72**	*11.49*	*12.42*	*12.65*	*12.09*	*11.84*	*12.76*	*12.94*	*12.32*	**11.92**	*12.21*	*12.52*
Pacific	**14.52**	**14.70**	**16.50**	**14.44**	*15.06*	*15.27*	*16.66*	*14.59*	*15.66*	*16.15*	*17.66*	*14.99*	**15.09**	*15.42*	*16.14*
U.S. Average	**12.60**	**13.00**	**13.20**	**12.75**	*12.73*	*13.35*	*13.58*	*13.22*	*13.27*	*13.79*	*13.91*	*13.46*	**12.90**	*13.23*	*13.62*
Commercial Sector															
New England	**15.11**	**15.06**	**15.72**	**15.19**	*15.61*	*15.60*	*16.32*	*15.85*	*15.77*	*15.13*	*15.72*	*15.46*	**15.28**	*15.86*	*15.52*
Middle Atlantic	**12.07**	**12.75**	**13.35**	**12.12**	*12.06*	*12.80*	*13.49*	*12.29*	*12.08*	*12.77*	*13.45*	*12.38*	**12.59**	*12.68*	*12.69*
E. N. Central	**10.02**	**10.24**	**10.05**	**10.04**	*10.16*	*10.51*	*10.42*	*10.36*	*10.37*	*10.65*	*10.45*	*10.46*	**10.09**	*10.36*	*10.48*
W. N. Central	**9.11**	**10.11**	**10.58**	**9.25**	*9.24*	*10.37*	*10.94*	*9.59*	*9.43*	*10.58*	*11.13*	*9.83*	**9.79**	*10.06*	*10.27*
S. Atlantic	**9.44**	**9.38**	**9.55**	**9.52**	*9.68*	*9.65*	*9.90*	*9.91*	*10.18*	*9.88*	*9.94*	*9.93*	**9.48**	*9.79*	*9.98*
E. S. Central	**10.58**	**10.56**	**10.62**	**10.65**	*10.91*	*11.10*	*11.36*	*11.26*	*10.97*	*11.05*	*11.09*	*11.25*	**10.60**	*11.17*	*11.09*
W. S. Central	**8.37**	**8.40**	**8.38**	**8.31**	*8.32*	*8.39*	*8.47*	*8.49*	*8.10*	*8.00*	*8.07*	*8.30*	**8.37**	*8.42*	*8.12*
Mountain	**9.14**	**9.93**	**10.04**	**9.49**	*9.33*	*10.19*	*10.31*	*9.77*	*9.38*	*10.22*	*10.34*	*9.83*	**9.67**	*9.93*	*9.97*
Pacific	**12.53**	**13.56**	**15.36**	**13.62**	*12.95*	*14.17*	*16.32*	*14.35*	*13.82*	*14.83*	*16.83*	*14.56*	**13.82**	*14.50*	*15.05*
U.S. Average	**10.39**	**10.68**	**11.03**	**10.57**	*10.56*	*10.94*	*11.40*	*10.94*	*10.80*	*11.00*	*11.35*	*10.96*	**10.68**	*10.98*	*11.04*
Industrial Sector															
New England	**12.46**	**12.25**	**12.60**	**12.32**	*12.73*	*12.49*	*12.89*	*12.62*	*13.17*	*12.78*	*13.09*	*12.74*	**12.41**	*12.69*	*12.95*
Middle Atlantic	**6.94**	**6.94**	**6.88**	**6.71**	*7.03*	*6.98*	*7.00*	*6.85*	*6.82*	*6.85*	*6.94*	*6.79*	**6.87**	*6.97*	*6.85*
E. N. Central	**7.03**	**7.04**	**7.01**	**7.02**	*7.26*	*7.25*	*7.28*	*7.26*	*7.30*	*7.31*	*7.35*	*7.32*	**7.03**	*7.26*	*7.32*
W. N. Central	**6.89**	**7.33**	**8.06**	**6.96**	*7.14*	*7.57*	*8.33*	*7.17*	*7.26*	*7.69*	*8.46*	*7.28*	**7.33**	*7.57*	*7.69*
S. Atlantic	**6.32**	**6.39**	**6.79**	**6.43**	*6.62*	*6.60*	*7.10*	*6.70*	*6.58*	*6.63*	*7.15*	*6.74*	**6.48**	*6.76*	*6.78*
E. S. Central	**5.90**	**5.95**	**6.17**	**6.06**	*6.21*	*6.16*	*6.48*	*6.32*	*6.30*	*6.28*	*6.60*	*6.42*	**6.02**	*6.29*	*6.40*
W. S. Central	**5.29**	**5.56**	**5.72**	**5.47**	*5.56*	*5.69*	*5.98*	*5.67*	*5.43*	*5.68*	*6.04*	*5.75*	**5.51**	*5.73*	*5.73*
Mountain	**6.08**	**6.54**	**7.12**	**6.26**	*6.33*	*6.75*	*7.33*	*6.43*	*6.54*	*6.96*	*7.55*	*6.62*	**6.53**	*6.74*	*6.94*
Pacific	**8.23**	**9.34**	**10.72**	**9.77**	*8.59*	*9.62*	*10.88*	*9.91*	*8.74*	*9.72*	*10.96*	*9.97*	**9.58**	*9.80*	*9.90*
U.S. Average	**6.64**	**6.88**	**7.26**	**6.86**	*6.90*	*7.08*	*7.52*	*7.08*	*6.92*	*7.14*	*7.60*	*7.15*	**6.92**	*7.15*	*7.21*
All Sectors (a)															
New England	**16.37**	**16.29**	**16.77**	**16.34**	*17.07*	*17.00*	*17.51*	*17.18*	*17.77*	*17.29*	*17.69*	*17.35*	**16.45**	*17.20*	*17.53*
Middle Atlantic	**12.35**	**12.68**	**13.26**	**12.28**	*12.48*	*12.83*	*13.50*	*12.55*	*12.59*	*12.94*	*13.60*	*12.66*	**12.66**	*12.86*	*12.97*
E. N. Central	**10.00**	**10.13**	**10.15**	**10.07**	*10.28*	*10.46*	*10.59*	*10.46*	*10.56*	*10.72*	*10.77*	*10.65*	**10.09**	*10.45*	*10.67*
W. N. Central	**9.15**	**10.06**	**10.75**	**9.27**	*9.32*	*10.32*	*11.10*	*9.57*	*9.53*	*10.53*	*11.29*	*9.76*	**9.83**	*10.10*	*10.30*
S. Atlantic	**9.86**	**9.93**	**10.36**	**9.96**	*10.20*	*10.26*	*10.73*	*10.38*	*10.62*	*10.53*	*10.90*	*10.48*	**10.04**	*10.41*	*10.64*
E. S. Central	**9.20**	**9.27**	**9.55**	**9.33**	*9.51*	*9.70*	*10.14*	*9.84*	*9.76*	*9.83*	*10.12*	*9.94*	**9.35**	*9.81*	*9.92*
W. S. Central	**8.10**	**8.36**	**8.67**	**8.25**	*8.22*	*8.44*	*8.86*	*8.49*	*8.19*	*8.39*	*8.79*	*8.45*	**8.37**	*8.52*	*8.48*
Mountain	**8.97**	**9.67**	**10.12**	**9.26**	*9.18*	*9.90*	*10.39*	*9.52*	*9.38*	*10.09*	*10.58*	*9.68*	**9.55**	*9.79*	*9.98*
Pacific	**12.48**	**12.98**	**14.79**	**13.10**	*12.90*	*13.49*	*15.22*	*13.48*	*13.52*	*14.10*	*15.81*	*13.73*	**13.38**	*13.81*	*14.32*
U.S. Average	**10.26**	**10.47**	**10.98**	**10.39**	*10.50*	*10.76*	*11.32*	*10.75*	*10.78*	*10.96*	*11.46*	*10.86*	**10.55**	*10.85*	*11.03*

- = no data available

Prices are not adjusted for inflation.

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

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

Regions refer to U.S. Census divisions.

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

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

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

Projections: EIA Regional Short-Term Energy Model.

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

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

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
United States															
Coal	**3,242**	**3,096**	**3,764**	**3,166**	*3,286*	*2,993*	*3,776*	*3,170*	*3,345*	*2,886*	*3,652*	*3,010*	**3,318**	*3,307*	*3,224*
Natural Gas	**2,965**	**3,288**	**4,359**	**3,321**	*3,347*	*3,561*	*4,361*	*3,379*	*3,381*	*3,681*	*4,544*	*3,568*	**3,486**	*3,664*	*3,796*
Petroleum (a)	**61**	**54**	**56**	**56**	*91*	*63*	*70*	*62*	*79*	*64*	*70*	*62*	**57**	*71*	*69*
Other Gases	**40**	**39**	**40**	**35**	*41*	*40*	*41*	*36*	*41*	*40*	*41*	*37*	**39**	*39*	*40*
Nuclear	**2,247**	**2,034**	**2,302**	**2,239**	*2,241*	*2,091*	*2,273*	*2,132*	*2,200*	*2,070*	*2,240*	*2,085*	**2,206**	*2,184*	*2,149*
Renewable Energy Sources:	**2,004**	**2,155**	**1,616**	**1,746**	*1,872*	*2,006*	*1,695*	*1,752*	*1,918*	*2,090*	*1,769*	*1,851*	**1,879**	*1,831*	*1,906*
Conventional Hydropower	**918**	**1,010**	**717**	**662**	*775*	*820*	*733*	*655*	*743*	*800*	*724*	*654*	**826**	*746*	*730*
Wind	**764**	**747**	**503**	**754**	*758*	*768*	*538*	*758*	*818*	*838*	*584*	*821*	**691**	*705*	*765*
Wood Biomass	**118**	**115**	**122**	**118**	*118*	*110*	*120*	*112*	*116*	*110*	*121*	*113*	**118**	*115*	*115*
Waste Biomass	**58**	**56**	**56**	**57**	*58*	*59*	*60*	*60*	*59*	*60*	*61*	*61*	**57**	*59*	*60*
Geothermal	**45**	**43**	**44**	**44**	*47*	*46*	*47*	*47*	*48*	*47*	*47*	*48*	**44**	*47*	*47*
Solar	**101**	**184**	**174**	**111**	*117*	*204*	*196*	*119*	*135*	*236*	*232*	*155*	**143**	*159*	*190*
Pumped Storage Hydropower	**-16**	**-16**	**-22**	**-15**	*-14*	*-12*	*-16*	*-14*	*-13*	*-12*	*-16*	*-14*	**-17**	*-14*	*-14*
Other Nonrenewable Fuels (b)	**35**	**35**	**37**	**35**	*35*	*36*	*38*	*35*	*35*	*36*	*39*	*35*	**36**	*36*	*36*
Total Generation	**10,577**	**10,684**	**12,152**	**10,583**	*10,900*	*10,777*	*12,238*	*10,552*	*10,986*	*10,857*	*12,339*	*10,634*	**11,002**	*11,119*	*11,206*
Northeast Census Region															
Coal	**154**	**134**	**136**	**140**	*140*	*103*	*152*	*123*	*161*	*101*	*145*	*131*	**141**	*130*	*134*
Natural Gas	**487**	**482**	**637**	**510**	*501*	*510*	*650*	*537*	*525*	*532*	*687*	*569*	**529**	*550*	*579*
Petroleum (a)	**4**	**2**	**3**	**3**	*25*	*3*	*4*	*4*	*13*	*3*	*4*	*4*	**3**	*9*	*6*
Other Gases	**2**	**2**	**2**	**2**	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	**2**	*2*	*2*
Nuclear	**539**	**476**	**549**	**529**	*529*	*491*	*534*	*501*	*512*	*478*	*509*	*461*	**523**	*514*	*490*
Hydropower (c)	**102**	**107**	**99**	**101**	*82*	*89*	*91*	*94*	*83*	*89*	*92*	*94*	**102**	*89*	*89*
Other Renewables (d)	**72**	**76**	**68**	**76**	*79*	*71*	*65*	*76*	*79*	*72*	*66*	*78*	**73**	*73*	*74*
Other Nonrenewable Fuels (b)	**11**	**11**	**12**	**12**	*11*	*11*	*12*	*12*	*11*	*11*	*12*	*12*	**11**	*11*	*11*
Total Generation	**1,371**	**1,290**	**1,505**	**1,372**	*1,369*	*1,281*	*1,510*	*1,348*	*1,386*	*1,288*	*1,517*	*1,351*	**1,385**	*1,377*	*1,386*
South Census Region															
Coal	**1,330**	**1,412**	**1,681**	**1,320**	*1,335*	*1,311*	*1,676*	*1,347*	*1,390*	*1,245*	*1,584*	*1,243*	**1,436**	*1,418*	*1,366*
Natural Gas	**1,757**	**2,088**	**2,565**	**1,910**	*2,004*	*2,210*	*2,579*	*1,918*	*1,947*	*2,267*	*2,688*	*2,023*	**2,082**	*2,179*	*2,233*
Petroleum (a)	**26**	**22**	**23**	**22**	*32*	*27*	*29*	*24*	*30*	*27*	*29*	*23*	**23**	*28*	*28*
Other Gases	**15**	**15**	**15**	**13**	*15*	*15*	*15*	*13*	*15*	*15*	*15*	*14*	**14**	*15*	*15*
Nuclear	**979**	**888**	**1,003**	**1,010**	*995*	*936*	*1,018*	*955*	*995*	*939*	*1,020*	*957*	**970**	*976*	*978*
Hydropower (c)	**128**	**138**	**99**	**96**	*106*	*117*	*96*	*90*	*106*	*117*	*97*	*91*	**115**	*102*	*103*
Other Renewables (d)	**401**	**402**	**323**	**387**	*412*	*444*	*358*	*416*	*456*	*505*	*409*	*469*	**378**	*407*	*460*
Other Nonrenewable Fuels (b)	**15**	**15**	**16**	**15**	*15*	*16*	*17*	*15*	*15*	*16*	*17*	*15*	**15**	*15*	*16*
Total Generation	**4,650**	**4,980**	**5,725**	**4,773**	*4,913*	*5,076*	*5,788*	*4,778*	*4,955*	*5,131*	*5,860*	*4,835*	**5,034**	*5,140*	*5,197*
Midwest Census Region															
Coal	**1,288**	**1,177**	**1,395**	**1,216**	*1,305*	*1,174*	*1,444*	*1,221*	*1,298*	*1,145*	*1,408*	*1,163*	**1,269**	*1,286*	*1,253*
Natural Gas	**290**	**272**	**406**	**346**	*370*	*346*	*429*	*351*	*394*	*374*	*472*	*397*	**329**	*374*	*410*
Petroleum (a)	**8**	**7**	**7**	**8**	*11*	*11*	*12*	*11*	*11*	*11*	*12*	*10*	**8**	*11*	*11*
Other Gases	**17**	**16**	**17**	**14**	*18*	*16*	*17*	*14*	*18*	*16*	*18*	*15*	**16**	*16*	*17*
Nuclear	**555**	**543**	**579**	**532**	*550*	*509*	*554*	*519*	*530*	*500*	*544*	*510*	**552**	*533*	*521*
Hydropower (c)	**52**	**58**	**37**	**36**	*42*	*49*	*34*	*34*	*43*	*49*	*34*	*34*	**46**	*40*	*40*
Other Renewables (d)	**313**	**303**	**199**	**323**	*324*	*296*	*200*	*323*	*340*	*312*	*211*	*352*	**284**	*286*	*304*
Other Nonrenewable Fuels (b)	**3**	**4**	**4**	**4**	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	**4**	*4*	*4*
Total Generation	**2,526**	**2,380**	**2,645**	**2,479**	*2,624*	*2,405*	*2,694*	*2,477*	*2,639*	*2,412*	*2,703*	*2,485*	**2,508**	*2,550*	*2,560*
West Census Region															
Coal	**470**	**373**	**551**	**490**	*507*	*404*	*504*	*478*	*496*	*395*	*515*	*474*	**472**	*473*	*470*
Natural Gas	**431**	**446**	**751**	**555**	*473*	*495*	*704*	*573*	*514*	*507*	*697*	*578*	**547**	*562*	*575*
Petroleum (a)	**23**	**22**	**23**	**23**	*23*	*23*	*24*	*24*	*24*	*24*	*25*	*25*	**23**	*24*	*24*
Other Gases	**6**	**6**	**6**	**6**	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	**6**	*6*	*6*
Nuclear	**175**	**127**	**171**	**168**	*166*	*154*	*167*	*157*	*163*	*154*	*167*	*157*	**160**	*161*	*160*
Hydropower (c)	**619**	**692**	**460**	**414**	*531*	*553*	*497*	*423*	*497*	*533*	*484*	*421*	**545**	*501*	*484*
Other Renewables (d)	**301**	**363**	**309**	**298**	*283*	*376*	*338*	*282*	*300*	*401*	*358*	*297*	**318**	*320*	*339*
Other Nonrenewable Fuels (b)	**5**	**5**	**6**	**5**	*5*	*5*	*6*	*5*	*5*	*5*	*6*	*5*	**5**	*5*	*5*
Total Generation	**2,031**	**2,035**	**2,277**	**1,959**	*1,993*	*2,016*	*2,245*	*1,948*	*2,006*	*2,025*	*2,258*	*1,963*	**2,076**	*2,051*	*2,063*

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

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

(c) Conventional hydroelectric and pumped storage generation.

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

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

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

Projections: EIA Regional Short-Term Energy Model.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 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**	**1,690**	**2,069**	**1,762**	*1,791*	*1,635*	*2,071*	*1,749*	*1,812*	*1,580*	*2,010*	*1,668*	**1,825**	*1,812*	*1,768*
Natural Gas (million cf/d)	**21,934**	**24,634**	**33,338**	**24,532**	*24,701*	*27,015*	*33,488*	*25,218*	*25,295*	*28,063*	*35,071*	*26,774*	**26,136**	*27,623*	*28,822*
Petroleum (thousand b/d)	**107**	**100**	**105**	**104**	*168*	*113*	*124*	*112*	*143*	*115*	*126*	*113*	**104**	*129*	*124*
Residual Fuel Oil	**26**	**27**	**28**	**26**	*54*	*26*	*30*	*26*	*41*	*26*	*29*	*26*	**27**	*34*	*30*
Distillate Fuel Oil	**28**	**24**	**23**	**27**	*47*	*25*	*25*	*25*	*32*	*25*	*25*	*25*	**25**	*31*	*27*
Petroleum Coke (a)	**49**	**45**	**48**	**46**	*60*	*58*	*65*	*56*	*63*	*60*	*67*	*57*	**47**	*59*	*62*
Other Petroleum Liquids (b)	**4**	**4**	**7**	**5**	*7*	*4*	*5*	*5*	*7*	*4*	*5*	*5*	**5**	*5*	*5*
Northeast Census Region															
Coal (thousand st/d)	**75**	**63**	**67**	**68**	*66*	*49*	*74*	*60*	*76*	*48*	*71*	*64*	**68**	*63*	*65*
Natural Gas (million cf/d)	**3,772**	**3,666**	**5,065**	**3,826**	*3,781*	*3,912*	*5,089*	*4,069*	*4,009*	*4,086*	*5,406*	*4,309*	**4,085**	*4,216*	*4,456*
Petroleum (thousand b/d)	**7**	**4**	**7**	**6**	*48*	*4*	*7*	*6*	*24*	*4*	*7*	*6*	**6**	*16*	*10*
South Census Region															
Coal (thousand st/d)	**715**	**759**	**902**	**726**	*707*	*700*	*900*	*727*	*728*	*667*	*857*	*678*	**776**	*759*	*733*
Natural Gas (million cf/d)	**12,476**	**15,424**	**19,083**	**13,948**	*14,494*	*16,516*	*19,463*	*14,048*	*14,233*	*17,048*	*20,379*	*14,962*	**15,247**	*16,138*	*16,668*
Petroleum (thousand b/d)	**47**	**42**	**43**	**42**	*60*	*49*	*54*	*44*	*56*	*50*	*54*	*44*	**43**	*52*	*51*
Midwest Census Region															
Coal (thousand st/d)	**717**	**655**	**788**	**690**	*731*	*660*	*815*	*691*	*727*	*644*	*794*	*658*	**713**	*724*	*706*
Natural Gas (million cf/d)	**2,489**	**2,165**	**3,566**	**2,641**	*2,903*	*2,792*	*3,586*	*2,794*	*3,173*	*3,021*	*3,984*	*3,145*	**2,718**	*3,020*	*3,332*
Petroleum (thousand b/d)	**15**	**16**	**16**	**18**	*21*	*20*	*22*	*21*	*21*	*20*	*22*	*21*	**16**	*21*	*21*
West Census Region															
Coal (thousand st/d)	**269**	**213**	**313**	**278**	*286*	*225*	*282*	*271*	*281*	*221*	*288*	*269*	**268**	*266*	*265*
Natural Gas (million cf/d)	**3,197**	**3,379**	**5,625**	**4,116**	*3,523*	*3,794*	*5,351*	*4,307*	*3,880*	*3,909*	*5,302*	*4,359*	**4,086**	*4,249*	*4,366*
Petroleum (thousand b/d)	**39**	**37**	**39**	**38**	*39*	*39*	*41*	*41*	*41*	*40*	*42*	*41*	**38**	*40*	*41*
End-of-period U.S. Fuel Inventories Held by Electric Power Sector															
Coal (million short tons)	**161.7**	**157.7**	**139.5**	**140.0**	*135.5*	*132.7*	*120.2*	*128.1*	*127.5*	*124.6*	*118.7*	*127.9*	**140.0**	*128.1*	*127.9*
Residual Fuel Oil (mmb)	**12.5**	**11.9**	**11.4**	**11.4**	*11.4*	*11.4*	*11.4*	*12.0*	*11.9*	*11.9*	*11.8*	*12.2*	**11.4**	*12.0*	*12.2*
Distillate Fuel Oil (mmb)	**17.0**	**16.6**	**16.4**	**16.5**	*16.7*	*16.7*	*16.7*	*17.2*	*17.3*	*17.2*	*17.1*	*17.5*	**16.5**	*17.2*	*17.5*
Petroleum Coke (mmb)	**4.3**	**4.3**	**4.9**	**5.4**	*5.3*	*5.2*	*5.1*	*5.0*	*4.9*	*4.9*	*4.8*	*4.7*	**5.4**	*5.0*	*4.7*

(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 - February 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**	**0.037**	**0.038**	**0.037**	*0.039*	*0.039*	*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.041*	**0.149**	*0.159*	*0.161*
Hydroelectric Power (a)	**0.759**	**0.844**	**0.605**	**0.562**	*0.646*	*0.691*	*0.625*	*0.558*	*0.619*	*0.674*	*0.617*	*0.557*	**2.771**	*2.521*	*2.467*
Solar (b)	**0.083**	**0.154**	**0.147**	**0.094**	*0.096*	*0.171*	*0.166*	*0.100*	*0.111*	*0.198*	*0.197*	*0.130*	**0.479**	*0.533*	*0.635*
Waste Biomass (c)	**0.070**	**0.066**	**0.068**	**0.068**	*0.068*	*0.071*	*0.074*	*0.073*	*0.070*	*0.073*	*0.075*	*0.074*	**0.272**	*0.286*	*0.291*
Wood Biomass	**0.061**	**0.059**	**0.064**	**0.063**	*0.059*	*0.051*	*0.062*	*0.055*	*0.056*	*0.051*	*0.063*	*0.056*	**0.247**	*0.227*	*0.226*
Wind	**0.640**	**0.633**	**0.431**	**0.646**	*0.635*	*0.650*	*0.460*	*0.649*	*0.685*	*0.710*	*0.500*	*0.703*	**2.350**	*2.395*	*2.598*
Subtotal	**1.651**	**1.793**	**1.353**	**1.471**	*1.544*	*1.674*	*1.427*	*1.476*	*1.581*	*1.745*	*1.491*	*1.561*	**6.268**	*6.121*	*6.377*
Industrial Sector															
Biofuel Losses and Co-products (d)	**0.203**	**0.199**	**0.204**	**0.208**	*0.198*	*0.204*	*0.208*	*0.207*	*0.198*	*0.205*	*0.208*	*0.207*	**0.814**	*0.817*	*0.818*
Geothermal	**0.001**	**0.001**	**0.001**	**0.001**	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	**0.004**	*0.004*	*0.004*
Hydroelectric Power (a)	**0.003**	**0.004**	**0.003**	**0.003**	*0.003*	*0.004*	*0.003*	*0.003*	*0.003*	*0.004*	*0.003*	*0.003*	**0.013**	*0.013*	*0.013*
Solar (b)	**0.005**	**0.007**	**0.007**	**0.005**	*0.006*	*0.008*	*0.008*	*0.006*	*0.007*	*0.010*	*0.010*	*0.007*	**0.024**	*0.028*	*0.033*
Waste Biomass (c)	**0.044**	**0.040**	**0.038**	**0.045**	*0.042*	*0.040*	*0.040*	*0.043*	*0.041*	*0.040*	*0.040*	*0.043*	**0.166**	*0.165*	*0.165*
Wood Biomass	**0.328**	**0.319**	**0.332**	**0.321**	*0.310*	*0.304*	*0.314*	*0.314*	*0.306*	*0.303*	*0.315*	*0.315*	**1.299**	*1.243*	*1.239*
Subtotal	**0.583**	**0.567**	**0.583**	**0.582**	*0.558*	*0.558*	*0.571*	*0.574*	*0.554*	*0.558*	*0.572*	*0.575*	**2.315**	*2.260*	*2.258*
Commercial Sector															
Geothermal	**0.005**	**0.005**	**0.005**	**0.005**	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	**0.020**	*0.020*	*0.020*
Solar (b)	**0.015**	**0.023**	**0.023**	**0.016**	*0.019*	*0.028*	*0.029*	*0.021*	*0.024*	*0.034*	*0.035*	*0.025*	**0.077**	*0.098*	*0.117*
Waste Biomass (c)	**0.011**	**0.011**	**0.011**	**0.012**	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	**0.045**	*0.045*	*0.045*
Wood Biomass	**0.020**	**0.020**	**0.020**	**0.019**	*0.020*	*0.020*	*0.021*	*0.019*	*0.020*	*0.020*	*0.021*	*0.019*	**0.080**	*0.080*	*0.080*
Subtotal	**0.058**	**0.067**	**0.067**	**0.060**	*0.063*	*0.073*	*0.073*	*0.064*	*0.067*	*0.078*	*0.079*	*0.068*	**0.252**	*0.273*	*0.293*
Residential Sector															
Geothermal	**0.010**	**0.010**	**0.010**	**0.010**	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	**0.040**	*0.052*	*0.053*
Solar (e)	**0.037**	**0.057**	**0.058**	**0.041**	*0.042*	*0.065*	*0.068*	*0.048*	*0.050*	*0.076*	*0.078*	*0.055*	**0.192**	*0.223*	*0.257*
Wood Biomass	**0.094**	**0.095**	**0.096**	**0.098**	*0.103*	*0.103*	*0.104*	*0.104*	*0.105*	*0.105*	*0.105*	*0.105*	**0.383**	*0.413*	*0.420*
Subtotal	**0.140**	**0.162**	**0.164**	**0.149**	*0.158*	*0.181*	*0.184*	*0.165*	*0.168*	*0.194*	*0.196*	*0.173*	**0.615**	*0.688*	*0.730*
Transportation Sector															
Biomass-based Diesel (f)	**0.054**	**0.079**	**0.080**	**0.077**	*0.057*	*0.076*	*0.087*	*0.090*	*0.064*	*0.083*	*0.095*	*0.098*	**0.290**	*0.309*	*0.340*
Ethanol (f)	**0.270**	**0.290**	**0.293**	**0.294**	*0.271*	*0.297*	*0.302*	*0.293*	*0.277*	*0.301*	*0.305*	*0.295*	**1.146**	*1.162*	*1.178*
Subtotal	**0.324**	**0.369**	**0.373**	**0.379**	*0.328*	*0.373*	*0.389*	*0.382*	*0.341*	*0.384*	*0.400*	*0.394*	**1.445**	*1.472*	*1.518*
All Sectors Total															
Biomass-based Diesel (f)	**0.054**	**0.079**	**0.080**	**0.077**	*0.057*	*0.076*	*0.087*	*0.090*	*0.064*	*0.083*	*0.095*	*0.098*	**0.290**	*0.309*	*0.340*
Biofuel Losses and Co-products (d)	**0.203**	**0.199**	**0.204**	**0.208**	*0.198*	*0.204*	*0.208*	*0.207*	*0.198*	*0.205*	*0.208*	*0.207*	**0.814**	*0.817*	*0.818*
Ethanol (f)	**0.281**	**0.301**	**0.304**	**0.310**	*0.289*	*0.308*	*0.314*	*0.304*	*0.288*	*0.313*	*0.317*	*0.307*	**1.196**	*1.215*	*1.225*
Geothermal	**0.053**	**0.052**	**0.053**	**0.053**	*0.058*	*0.058*	*0.059*	*0.059*	*0.059*	*0.059*	*0.060*	*0.060*	**0.211**	*0.235*	*0.238*
Hydroelectric Power (a)	**0.763**	**0.849**	**0.609**	**0.566**	*0.650*	*0.695*	*0.629*	*0.562*	*0.623*	*0.678*	*0.620*	*0.561*	**2.786**	*2.536*	*2.482*
Solar (b)(e)	**0.138**	**0.239**	**0.234**	**0.162**	*0.164*	*0.273*	*0.271*	*0.175*	*0.191*	*0.317*	*0.319*	*0.217*	**0.773**	*0.882*	*1.043*
Waste Biomass (c)	**0.126**	**0.117**	**0.117**	**0.125**	*0.121*	*0.122*	*0.125*	*0.128*	*0.123*	*0.124*	*0.126*	*0.128*	**0.485**	*0.496*	*0.501*
Wood Biomass	**0.504**	**0.493**	**0.512**	**0.502**	*0.492*	*0.478*	*0.500*	*0.492*	*0.487*	*0.480*	*0.503*	*0.496*	**2.011**	*1.963*	*1.965*
Wind	**0.640**	**0.633**	**0.431**	**0.646**	*0.635*	*0.650*	*0.460*	*0.649*	*0.685*	*0.710*	*0.500*	*0.703*	**2.350**	*2.395*	*2.598*
Total Consumption	**2.757**	**2.957**	**2.541**	**2.652**	*2.651*	*2.857*	*2.644*	*2.660*	*2.711*	*2.958*	*2.738*	*2.770*	**10.906**	*10.813*	*11.176*

- = 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 - February 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**	**7,424**	*7,479*	*7,572*	*7,572*	*7,606*	*7,673*	*7,673*	*7,715*	*7,715*	**7,424**	*7,606*	*7,715*
Waste	**4,205**	**4,244**	**4,247**	**4,247**	*4,302*	*4,302*	*4,302*	*4,336*	*4,337*	*4,337*	*4,337*	*4,337*	**4,247**	*4,336*	*4,337*
Wood	**3,127**	**3,127**	**3,177**	**3,177**	*3,177*	*3,270*	*3,270*	*3,270*	*3,335*	*3,335*	*3,377*	*3,377*	**3,177**	*3,270*	*3,377*
Conventional Hydroelectric	**79,561**	**79,568**	**79,663**	**79,701**	*79,729*	*79,747*	*79,868*	*80,017*	*80,031*	*80,033*	*79,934*	*79,966*	**79,701**	*80,017*	*79,966*
Geothermal	**2,457**	**2,457**	**2,457**	**2,494**	*2,494*	*2,494*	*2,494*	*2,500*	*2,508*	*2,508*	*2,508*	*2,543*	**2,494**	*2,500*	*2,543*
Large-Scale Solar (b)	**22,520**	**23,530**	**24,018**	**26,240**	*27,678*	*28,418*	*28,781*	*30,320*	*31,886*	*33,682*	*34,957*	*41,526*	**26,240**	*30,320*	*41,526*
Wind	**82,898**	**83,361**	**84,081**	**87,448**	*88,482*	*88,808*	*89,772*	*94,803*	*96,185*	*96,924*	*97,429*	*103,945*	**87,448**	*94,803*	*103,945*
Other Sectors (c)															
Biomass	**6,704**	**6,723**	**6,724**	**6,724**	*6,724*	*6,725*	*6,725*	*6,725*	*6,737*	*6,714*	*6,714*	*6,728*	**6,724**	*6,725*	*6,728*
Waste	**885**	**889**	**890**	**890**	*890*	*890*	*890*	*890*	*902*	*904*	*904*	*918*	**890**	*890*	*918*
Wood	**5,819**	**5,834**	**5,834**	**5,834**	*5,834*	*5,835*	*5,835*	*5,835*	*5,835*	*5,811*	*5,811*	*5,811*	**5,834**	*5,835*	*5,811*
Conventional Hydroelectric	**357**	**357**	**357**	**357**	*357*	*357*	*357*	*357*	*357*	*357*	*357*	*357*	**357**	*357*	*357*
Large-Scale Solar (b)	**322**	**338**	**338**	**340**	*340*	*340*	*340*	*340*	*339*	*339*	*339*	*339*	**340**	*340*	*339*
Small-Scale Solar (d)	**13,728**	**14,549**	**15,333**	**16,292**	*17,113*	*17,907*	*18,751*	*19,631*	*20,455*	*21,333*	*22,262*	*23,231*	**16,292**	*19,631*	*23,231*
Residential Sector	**8,130**	**8,619**	**9,097**	**9,580**	*10,067*	*10,556*	*11,052*	*11,552*	*12,055*	*12,566*	*13,082*	*13,603*	**9,580**	*11,552*	*13,603*
Commercial Sector	**4,292**	**4,561**	**4,799**	**5,202**	*5,472*	*5,716*	*5,998*	*6,309*	*6,567*	*6,865*	*7,205*	*7,575*	**5,202**	*6,309*	*7,575*
Industrial Sector	**1,305**	**1,369**	**1,436**	**1,510**	*1,574*	*1,635*	*1,701*	*1,771*	*1,833*	*1,901*	*1,975*	*2,053*	**1,510**	*1,771*	*2,053*
Wind	**93**	**91**	**91**	**96**	*100*	*100*	*100*	*100*	*100*	*100*	*100*	*100*	**96**	*100*	*100*
Renewable Electricity Generation (thousand megawatthours per day)															
Electric Power Sector (a)															
Biomass	**90**	**86**	**90**	**90**	*88*	*85*	*93*	*87*	*88*	*85*	*94*	*89*	**89**	*88*	*89*
Waste	**49**	**47**	**47**	**48**	*48*	*50*	*51*	*51*	*50*	*51*	*52*	*51*	**48**	*50*	*51*
Wood	**41**	**39**	**43**	**42**	*40*	*35*	*41*	*37*	*38*	*34*	*42*	*37*	**41**	*38*	*38*
Conventional Hydroelectric	**913**	**1,005**	**713**	**658**	*771*	*815*	*729*	*651*	*738*	*795*	*719*	*650*	**821**	*741*	*725*
Geothermal	**45**	**43**	**44**	**44**	*47*	*46*	*47*	*47*	*48*	*47*	*47*	*48*	**44**	*47*	*47*
Large-Scale Solar (b)	**100**	**182**	**172**	**110**	*115*	*201*	*193*	*117*	*132*	*233*	*229*	*152*	**141**	*157*	*187*
Wind	**763**	**746**	**503**	**753**	*757*	*767*	*537*	*757*	*817*	*837*	*583*	*820*	**691**	*704*	*764*
Other Sectors (c)															
Biomass	**87**	**84**	**88**	**85**	*87*	*84*	*88*	*85*	*87*	*84*	*88*	*85*	**86**	*86*	*86*
Waste	**78**	**75**	**79**	**75**	*78*	*75*	*79*	*75*	*78*	*75*	*79*	*75*	**77**	*77*	*77*
Wood	**9**	**9**	**9**	**9**	*9*	*9*	*9*	*9*	*9*	*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**	**79**	**80**	**55**	*63*	*96*	*97*	*68*	*77*	*115*	*116*	*81*	**66**	*81*	*97*
Residential Sector	**29**	**46**	**46**	**31**	*35*	*55*	*56*	*39*	*43*	*66*	*67*	*46*	**38**	*46*	*56*
Commercial Sector	**17**	**25**	**25**	**18**	*21*	*31*	*31*	*22*	*26*	*37*	*38*	*26*	**21**	*26*	*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 CC_2 Emissions

U.S. Energy Information Administration | Short-Term Energy Outlook - February 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**	**17,267**	*17,367*	*17,477*	*17,588*	*17,692*	*17,805*	*17,913*	*18,023*	*18,127*	**17,091**	*17,531*	*17,967*
Real Personal Consumption Expend.															
(billion chained 2009 dollars - SAAR)	**11,758**	**11,853**	**11,917**	**12,004**	*12,087*	*12,163*	*12,231*	*12,295*	*12,366*	*12,437*	*12,509*	*12,584*	**11,883**	*12,194*	*12,474*
Real Fixed Investment															
(billion chained 2009 dollars - SAAR)	**2,876**	**2,898**	**2,916**	**2,980**	*3,004*	*3,032*	*3,078*	*3,119*	*3,152*	*3,184*	*3,223*	*3,256*	**2,917**	*3,058*	*3,204*
Business Inventory Change															
(billion chained 2009 dollars - SAAR)	**0**	**5**	**42**	**28**	*41*	*46*	*54*	*62*	*66*	*70*	*71*	*75*	**19**	*51*	*70*
Real Government Expenditures															
(billion chained 2009 dollars - SAAR)	**2,897**	**2,895**	**2,900**	**2,904**	*2,904*	*2,909*	*2,914*	*2,919*	*2,922*	*2,924*	*2,928*	*2,930*	**2,899**	*2,911*	*2,926*
Real Exports of Goods & Services															
(billion chained 2009 dollars - SAAR)	**2,162**	**2,181**	**2,192**	**2,232**	*2,270*	*2,294*	*2,321*	*2,344*	*2,371*	*2,398*	*2,422*	*2,445*	**2,192**	*2,308*	*2,409*
Real Imports of Goods & Services															
(billion chained 2009 dollars - SAAR)	**2,785**	**2,795**	**2,790**	**2,872**	*2,930*	*2,958*	*3,001*	*3,036*	*3,060*	*3,088*	*3,116*	*3,148*	**2,810**	*2,981*	*3,103*
Real Disposable Personal Income															
(billion chained 2009 dollars - SAAR)	**12,680**	**12,766**	**12,783**	**12,848**	*13,032*	*13,167*	*13,290*	*13,409*	*13,555*	*13,663*	*13,769*	*13,874*	**12,769**	*13,224*	*13,715*
Non-Farm Employment															
(millions)	**145.7**	**146.2**	**146.7**	**147.2**	*147.8*	*148.3*	*149.0*	*149.6*	*150.2*	*150.7*	*151.1*	*151.3*	**146.4**	*148.7*	*150.8*
Civilian Unemployment Rate															
(percent)	**4.7**	**4.3**	**4.3**	**4.1**	*4.0*	*3.9*	*3.9*	*3.8*	*3.8*	*3.8*	*3.8*	*3.8*	**4.4**	*3.9*	*3.8*
Housing Starts															
(millions - SAAR)	**1.24**	**1.17**	**1.17**	**1.28**	*1.25*	*1.27*	*1.28*	*1.34*	*1.34*	*1.36*	*1.40*	*1.42*	**1.21**	*1.28*	*1.38*
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	**103.7**	**105.1**	**104.9**	**106.5**	*107.3*	*107.9*	*108.6*	*109.3*	*110.1*	*111.0*	*111.9*	*112.7*	**105.0**	*108.3*	*111.5*
Manufacturing	**103.7**	**104.5**	**104.1**	**106.0**	*106.8*	*107.3*	*108.0*	*108.6*	*109.5*	*110.4*	*111.1*	*111.8*	**104.6**	*107.7*	*110.7*
Food	**110.1**	**111.2**	**112.9**	**113.0**	*113.2*	*113.7*	*114.1*	*114.6*	*115.2*	*115.8*	*116.4*	*116.9*	**111.8**	*113.9*	*116.1*
Paper	**96.3**	**95.5**	**95.1**	**94.5**	*94.8*	*94.7*	*94.7*	*94.7*	*94.8*	*95.1*	*95.4*	*95.7*	**95.4**	*94.7*	*95.3*
Petroleum and Coal Products	**102.5**	**106.1**	**101.3**	**103.9**	*106.6*	*108.0*	*108.7*	*109.3*	*110.0*	*110.7*	*111.2*	*111.7*	**103.5**	*108.1*	*110.9*
Chemicals	**97.6**	**98.8**	**98.3**	**102.0**	*102.1*	*102.7*	*103.5*	*104.3*	*105.2*	*106.1*	*107.1*	*108.0*	**99.2**	*103.1*	*106.6*
Nonmetallic Mineral Products	**116.7**	**115.3**	**115.1**	**117.4**	*119.3*	*120.7*	*122.1*	*123.0*	*123.7*	*124.1*	*124.3*	*124.7*	**116.1**	*121.3*	*124.2*
Primary Metals	**96.8**	**95.4**	**95.4**	**97.1**	*97.0*	*96.5*	*96.4*	*96.3*	*96.8*	*97.7*	*98.3*	*99.0*	**96.2**	*96.6*	*98.0*
Coal-weighted Manufacturing (a)	**102.6**	**102.7**	**101.4**	**103.7**	*104.2*	*104.6*	*105.1*	*105.6*	*106.3*	*107.1*	*107.7*	*108.5*	**102.6**	*104.9*	*107.4*
Distillate-weighted Manufacturing (a)	**108.5**	**108.8**	**108.3**	**109.9**	*111.0*	*111.8*	*112.5*	*113.1*	*113.8*	*114.6*	*115.1*	*115.7*	**108.9**	*112.1*	*114.8*
Electricity-weighted Manufacturing (a)	**103.1**	**103.6**	**102.5**	**104.8**	*105.4*	*105.9*	*106.5*	*107.1*	*107.9*	*108.9*	*109.7*	*110.7*	**103.5**	*106.2*	*109.3*
Natural Gas-weighted Manufacturing (a)	**103.0**	**104.3**	**102.2**	**105.5**	*106.2*	*106.9*	*107.7*	*108.4*	*109.4*	*110.5*	*111.5*	*112.6*	**103.8**	*107.3*	*111.0*
Price Indexes															
Consumer Price Index (all urban consumers)															
(index, 1982-1984=1.00)	**2.44**	**2.44**	**2.45**	**2.47**	*2.49*	*2.50*	*2.51*	*2.52*	*2.53*	*2.55*	*2.56*	*2.58*	**2.45**	*2.50*	*2.55*
Producer Price Index: All Commodities															
(index, 1982=1.00)	**1.93**	**1.92**	**1.92**	**1.95**	*1.96*	*1.97*	*1.97*	*1.99*	*1.99*	*2.00*	*2.01*	*2.02*	**1.93**	*1.97*	*2.00*
Producer Price Index: Petroleum															
(index, 1982=1.00)	**1.66**	**1.67**	**1.77**	**1.89**	*2.01*	*1.98*	*1.92*	*1.85*	*1.83*	*1.92*	*1.95*	*1.91*	**1.75**	*1.94*	*1.90*
GDP Implicit Price Deflator															
(index, 2009=100)	**112.8**	**113.0**	**113.6**	**114.2**	*114.9*	*115.5*	*116.1*	*116.8*	*117.5*	*118.1*	*118.8*	*119.4*	**113.4**	*115.8*	*118.4*
Miscellaneous															
Vehicle Miles Traveled (b)															
(million miles/day)	**8,301**	**9,163**	**9,015**	**8,692**	*8,318*	*9,279*	*9,160*	*8,829*	*8,456*	*9,462*	*9,314*	*8,945*	**8,794**	*8,899*	*9,046*
Air Travel Capacity															
(Available ton-miles/day, thousands)	**567**	**619**	**667**	**568**	*541*	*626*	*650*	*569*	*544*	*627*	*653*	*574*	**606**	*596*	*600*
Aircraft Utilization															
(Revenue ton-miles/day, thousands)	**344**	**390**	**397**	**350**	*332*	*394*	*408*	*348*	*333*	*397*	*412*	*354*	**370**	*371*	*374*
Airline Ticket Price Index															
(index, 1982-1984=100)	**277.8**	**297.0**	**264.9**	**266.5**	*282.6*	*325.3*	*312.3*	*310.5*	*304.0*	*339.8*	*323.5*	*321.4*	**276.5**	*307.7*	*322.2*
Raw Steel Production															
(million short tons per day)	**0.248**	**0.247**	**0.250**	**0.245**	*0.255*	*0.255*	*0.234*	*0.199*	*0.256*	*0.254*	*0.236*	*0.204*	**0.248**	*0.236*	*0.237*
Carbon Dioxide (CO_2) Emissions (million metric tons)															
Petroleum	**565**	**588**	**593**	**587**	*577*	*588*	*604*	*596*	*578*	*593*	*609*	*601*	**2,333**	*2,364*	*2,381*
Natural Gas	**424**	**312**	**337**	**399**	*463*	*330*	*339*	*404*	*466*	*339*	*352*	*414*	**1,473**	*1,536*	*1,571*
Coal	**321**	**309**	**376**	**319**	*323*	*297*	*376*	*328*	*327*	*288*	*366*	*315*	**1,326**	*1,325*	*1,296*
Total Energy (c)	**1,314**	**1,211**	**1,310**	**1,308**	*1,367*	*1,218*	*1,323*	*1,330*	*1,374*	*1,223*	*1,329*	*1,333*	**5,143**	*5,237*	*5,259*

- = 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 - February 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**	**899**	**903**	*908*	*912*	*917*	*922*	*926*	*931*	*936*	*941*	**896**	*915*	*933*
Middle Atlantic	**2,483**	**2,496**	**2,513**	**2,523**	*2,534*	*2,548*	*2,561*	*2,573*	*2,584*	*2,595*	*2,607*	*2,619*	**2,504**	*2,554*	*2,601*
E. N. Central	**2,318**	**2,336**	**2,354**	**2,364**	*2,375*	*2,386*	*2,398*	*2,409*	*2,421*	*2,432*	*2,445*	*2,456*	**2,343**	*2,392*	*2,439*
W. N. Central	**1,070**	**1,075**	**1,085**	**1,090**	*1,094*	*1,100*	*1,105*	*1,111*	*1,116*	*1,122*	*1,128*	*1,134*	**1,080**	*1,102*	*1,125*
S. Atlantic	**3,008**	**3,029**	**3,050**	**3,068**	*3,088*	*3,108*	*3,130*	*3,150*	*3,172*	*3,192*	*3,212*	*3,230*	**3,039**	*3,119*	*3,201*
E. S. Central	**761**	**767**	**774**	**778**	*781*	*786*	*790*	*794*	*799*	*803*	*808*	*812*	**770**	*788*	*805*
W. S. Central	**2,021**	**2,050**	**2,062**	**2,083**	*2,100*	*2,118*	*2,136*	*2,152*	*2,170*	*2,186*	*2,202*	*2,217*	**2,054**	*2,126*	*2,194*
Mountain	**1,082**	**1,092**	**1,103**	**1,111**	*1,120*	*1,127*	*1,136*	*1,144*	*1,154*	*1,162*	*1,171*	*1,179*	**1,097**	*1,132*	*1,167*
Pacific	**3,168**	**3,188**	**3,218**	**3,241**	*3,261*	*3,284*	*3,306*	*3,329*	*3,353*	*3,379*	*3,403*	*3,427*	**3,204**	*3,295*	*3,391*
Industrial Output, Manufacturing (Index, Year 2012=100)															
New England	**98.0**	**98.7**	**98.3**	**99.9**	*100.3*	*100.5*	*100.8*	*101.3*	*101.9*	*102.5*	*103.1*	*103.6*	**98.7**	*100.8*	*102.8*
Middle Atlantic	**98.2**	**97.9**	**97.3**	**98.4**	*99.0*	*99.3*	*99.8*	*100.3*	*100.9*	*101.5*	*102.1*	*102.6*	**98.0**	*99.6*	*101.8*
E. N. Central	**106.2**	**106.9**	**106.4**	**108.3**	*109.2*	*109.8*	*110.6*	*111.2*	*112.2*	*113.1*	*113.9*	*114.7*	**106.9**	*110.2*	*113.5*
W. N. Central	**102.3**	**103.3**	**103.3**	**105.5**	*106.2*	*106.8*	*107.4*	*108.1*	*108.9*	*109.9*	*110.6*	*111.4*	**103.6**	*107.2*	*110.2*
S. Atlantic	**107.2**	**108.0**	**107.7**	**110.0**	*110.8*	*111.3*	*111.8*	*112.4*	*113.2*	*114.1*	*114.8*	*115.5*	**108.2**	*111.6*	*114.4*
E. S. Central	**110.1**	**110.6**	**109.7**	**111.8**	*112.6*	*113.2*	*113.8*	*114.6*	*115.4*	*116.4*	*117.2*	*118.0*	**110.5**	*113.6*	*116.8*
W. S. Central	**98.0**	**99.7**	**99.9**	**101.7**	*102.6*	*103.5*	*104.4*	*105.4*	*106.3*	*107.3*	*108.2*	*109.0*	**99.8**	*104.0*	*107.7*
Mountain	**108.3**	**109.1**	**108.7**	**110.8**	*111.6*	*112.3*	*112.9*	*113.6*	*114.5*	*115.5*	*116.3*	*117.1*	**109.2**	*112.6*	*115.9*
Pacific	**103.7**	**104.3**	**103.6**	**105.6**	*106.4*	*107.0*	*107.7*	*108.5*	*109.3*	*110.2*	*111.0*	*111.7*	**104.3**	*107.4*	*110.5*
Real Personal Income (Billion $2009)															
New England	**774**	**776**	**778**	**781**	*786*	*792*	*798*	*804*	*811*	*816*	*822*	*827*	**777**	*795*	*819*
Middle Atlantic	**1,965**	**1,976**	**1,984**	**1,990**	*2,001*	*2,016*	*2,030*	*2,043*	*2,060*	*2,071*	*2,084*	*2,097*	**1,979**	*2,022*	*2,078*
E. N. Central	**2,107**	**2,109**	**2,115**	**2,125**	*2,139*	*2,156*	*2,172*	*2,186*	*2,205*	*2,219*	*2,233*	*2,248*	**2,114**	*2,163*	*2,226*
W. N. Central	**989**	**993**	**994**	**999**	*1,007*	*1,017*	*1,026*	*1,034*	*1,044*	*1,053*	*1,062*	*1,070*	**994**	*1,021*	*1,057*
S. Atlantic	**2,776**	**2,787**	**2,796**	**2,807**	*2,832*	*2,859*	*2,885*	*2,910*	*2,942*	*2,966*	*2,991*	*3,016*	**2,792**	*2,872*	*2,979*
E. S. Central	**778**	**780**	**782**	**784**	*790*	*797*	*803*	*809*	*817*	*822*	*828*	*834*	**781**	*800*	*825*
W. S. Central	**1,703**	**1,711**	**1,719**	**1,728**	*1,744*	*1,762*	*1,780*	*1,797*	*1,817*	*1,833*	*1,849*	*1,866*	**1,715**	*1,771*	*1,841*
Mountain	**976**	**981**	**983**	**988**	*996*	*1,007*	*1,017*	*1,027*	*1,039*	*1,048*	*1,058*	*1,067*	**982**	*1,012*	*1,053*
Pacific	**2,397**	**2,425**	**2,432**	**2,445**	*2,464*	*2,487*	*2,509*	*2,532*	*2,557*	*2,578*	*2,599*	*2,621*	**2,425**	*2,498*	*2,589*
Households (Thousands)															
New England	**5,859**	**5,868**	**5,888**	**5,897**	*5,908*	*5,920*	*5,930*	*5,942*	*5,956*	*5,968*	*5,980*	*5,990*	**5,897**	*5,942*	*5,990*
Middle Atlantic	**15,899**	**15,915**	**15,967**	**15,983**	*16,009*	*16,035*	*16,061*	*16,090*	*16,121*	*16,148*	*16,175*	*16,201*	**15,983**	*16,090*	*16,201*
E. N. Central	**18,823**	**18,840**	**18,900**	**18,919**	*18,951*	*18,990*	*19,025*	*19,062*	*19,097*	*19,132*	*19,169*	*19,205*	**18,919**	*19,062*	*19,205*
W. N. Central	**8,518**	**8,536**	**8,574**	**8,595**	*8,623*	*8,654*	*8,680*	*8,706*	*8,732*	*8,757*	*8,782*	*8,807*	**8,595**	*8,706*	*8,807*
S. Atlantic	**25,184**	**25,275**	**25,434**	**25,533**	*25,643*	*25,757*	*25,864*	*25,973*	*26,087*	*26,192*	*26,294*	*26,394*	**25,533**	*25,973*	*26,394*
E. S. Central	**7,602**	**7,617**	**7,649**	**7,666**	*7,688*	*7,712*	*7,733*	*7,755*	*7,779*	*7,802*	*7,824*	*7,846*	**7,666**	*7,755*	*7,846*
W. S. Central	**14,579**	**14,625**	**14,704**	**14,751**	*14,806*	*14,865*	*14,926*	*14,992*	*15,059*	*15,124*	*15,189*	*15,252*	**14,751**	*14,992*	*15,252*
Mountain	**9,036**	**9,074**	**9,132**	**9,173**	*9,220*	*9,269*	*9,316*	*9,363*	*9,412*	*9,458*	*9,503*	*9,548*	**9,173**	*9,363*	*9,548*
Pacific	**18,697**	**18,753**	**18,846**	**18,898**	*18,960*	*19,025*	*19,089*	*19,151*	*19,217*	*19,277*	*19,338*	*19,395*	**18,898**	*19,151*	*19,395*
Total Non-farm Employment (Millions)															
New England	**7.4**	**7.4**	**7.4**	**7.4**	*7.4*	*7.4*	*7.5*	*7.5*	*7.5*	*7.5*	*7.5*	*7.5*	**7.4**	*7.5*	*7.5*
Middle Atlantic	**19.4**	**19.5**	**19.5**	**19.6**	*19.6*	*19.7*	*19.7*	*19.8*	*19.8*	*19.9*	*19.9*	*19.9*	**19.5**	*19.7*	*19.9*
E. N. Central	**21.9**	**21.9**	**22.0**	**22.0**	*22.1*	*22.1*	*22.2*	*22.3*	*22.3*	*22.4*	*22.4*	*22.5*	**21.9**	*22.2*	*22.4*
W. N. Central	**10.6**	**10.7**	**10.7**	**10.7**	*10.7*	*10.8*	*10.8*	*10.8*	*10.9*	*10.9*	*10.9*	*10.9*	**10.7**	*10.8*	*10.9*
S. Atlantic	**28.0**	**28.1**	**28.2**	**28.4**	*28.5*	*28.6*	*28.8*	*28.9*	*29.0*	*29.2*	*29.3*	*29.3*	**28.2**	*28.7*	*29.2*
E. S. Central	**8.0**	**8.1**	**8.1**	**8.1**	*8.1*	*8.2*	*8.2*	*8.2*	*8.3*	*8.3*	*8.3*	*8.3*	**8.1**	*8.2*	*8.3*
W. S. Central	**17.0**	**17.1**	**17.1**	**17.2**	*17.3*	*17.4*	*17.5*	*17.6*	*17.7*	*17.8*	*17.9*	*17.9*	**17.1**	*17.5*	*17.8*
Mountain	**10.4**	**10.4**	**10.5**	**10.5**	*10.6*	*10.7*	*10.7*	*10.8*	*10.8*	*10.9*	*10.9*	*11.0*	**10.5**	*10.7*	*10.9*
Pacific	**22.7**	**22.8**	**22.9**	**23.0**	*23.1*	*23.2*	*23.3*	*23.4*	*23.5*	*23.6*	*23.7*	*23.7*	**22.8**	*23.3*	*23.6*

- = 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 - February 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	**2,987**	**804**	**92**	**2,151**	*3,198*	*874*	*132*	*2,163*	*3,128*	*866*	*132*	*2,163*	**6,034**	*6,366*	*6,288*
Middle Atlantic	**2,658**	**601**	**73**	**1,990**	*2,994*	*700*	*92*	*1,985*	*2,920*	*703*	*92*	*1,985*	**5,322**	*5,771*	*5,699*
E. N. Central	**2,692**	**628**	**106**	**2,248**	*3,188*	*741*	*133*	*2,223*	*3,139*	*743*	*133*	*2,223*	**5,673**	*6,285*	*6,238*
W. N. Central	**2,811**	**662**	**138**	**2,361**	*3,276*	*706*	*162*	*2,400*	*3,220*	*706*	*162*	*2,401*	**5,972**	*6,544*	*6,489*
South Atlantic	**1,148**	**125**	**15**	**940**	*1,488*	*196*	*15*	*980*	*1,433*	*204*	*15*	*979*	**2,228**	*2,679*	*2,631*
E. S. Central	**1,375**	**154**	**24**	**1,272**	*1,946*	*248*	*22*	*1,305*	*1,827*	*257*	*22*	*1,306*	**2,826**	*3,522*	*3,412*
W. S. Central	**772**	**65**	**4**	**725**	*1,214*	*74*	*4*	*784*	*1,120*	*80*	*4*	*784*	**1,565**	*2,078*	*1,989*
Mountain	**2,056**	**695**	**153**	**1,647**	*2,080*	*676*	*143*	*1,832*	*2,185*	*672*	*143*	*1,831*	**4,552**	*4,731*	*4,831*
Pacific	**1,562**	**534**	**69**	**1,022**	*1,385*	*606*	*99*	*1,221*	*1,524*	*599*	*99*	*1,221*	**3,187**	*3,310*	*3,444*
U.S. Average	**1,859**	**428**	**65**	**1,468**	*2,138*	*493*	*79*	*1,529*	*2,113*	*494*	*79*	*1,527*	**3,820**	*4,239*	*4,213*
Heating Degree Days, Prior 10-year Average															
New England	**3,201**	**831**	**122**	**2,125**	*3,172*	*818*	*119*	*2,119*	*3,181*	*817*	*117*	*2,106*	**6,279**	*6,228*	*6,221*
Middle Atlantic	**2,983**	**661**	**81**	**1,941**	*2,947*	*646*	*81*	*1,948*	*2,961*	*645*	*81*	*1,933*	**5,665**	*5,622*	*5,621*
E. N. Central	**3,254**	**701**	**114**	**2,197**	*3,209*	*692*	*117*	*2,209*	*3,194*	*689*	*119*	*2,185*	**6,267**	*6,227*	*6,187*
W. N. Central	**3,302**	**707**	**142**	**2,380**	*3,264*	*705*	*144*	*2,377*	*3,240*	*690*	*144*	*2,357*	**6,531**	*6,489*	*6,432*
South Atlantic	**1,502**	**188**	**12**	**966**	*1,476*	*177*	*12*	*973*	*1,485*	*174*	*13*	*964*	**2,667**	*2,638*	*2,636*
E. S. Central	**1,906**	**231**	**16**	**1,287**	*1,868*	*217*	*18*	*1,300*	*1,875*	*214*	*19*	*1,288*	**3,440**	*3,403*	*3,395*
W. S. Central	**1,227**	**88**	**4**	**799**	*1,181*	*80*	*4*	*799*	*1,185*	*78*	*4*	*793*	**2,119**	*2,065*	*2,060*
Mountain	**2,216**	**734**	**142**	**1,862**	*2,194*	*737*	*144*	*1,840*	*2,160*	*722*	*141*	*1,842*	**4,954**	*4,915*	*4,865*
Pacific	**1,462**	**598**	**89**	**1,205**	*1,465*	*593*	*84*	*1,180*	*1,439*	*588*	*84*	*1,184*	**3,354**	*3,322*	*3,296*
U.S. Average	**2,192**	**487**	**71**	**1,527**	*2,160*	*478*	*71*	*1,523*	*2,152*	*473*	*71*	*1,512*	**4,277**	*4,232*	*4,207*
Cooling Degree Days															
New England	**0**	**75**	**364**	**11**	*0*	*80*	*398*	*1*	*0*	*80*	*398*	*1*	**451**	*480*	*480*
Middle Atlantic	**0**	**139**	**500**	**22**	*0*	*148*	*516*	*4*	*0*	*148*	*516*	*4*	**661**	*668*	*668*
E. N. Central	**1**	**211**	**479**	**15**	*0*	*210*	*515*	*6*	*0*	*210*	*515*	*6*	**706**	*732*	*732*
W. N. Central	**9**	**264**	**624**	**14**	*3*	*261*	*656*	*10*	*3*	*261*	*655*	*10*	**911**	*930*	*929*
South Atlantic	**158**	**668**	**1,153**	**261**	*110*	*642*	*1,137*	*226*	*117*	*639*	*1,138*	*226*	**2,240**	*2,115*	*2,120*
E. S. Central	**65**	**480**	**965**	**73**	*22*	*508*	*1,022*	*64*	*27*	*504*	*1,021*	*63*	**1,584**	*1,615*	*1,616*
W. S. Central	**214**	**829**	**1,457**	**216**	*81*	*898*	*1,508*	*201*	*94*	*889*	*1,509*	*201*	**2,716**	*2,689*	*2,693*
Mountain	**36**	**467**	**918**	**119**	*19*	*433*	*931*	*76*	*19*	*433*	*932*	*76*	**1,539**	*1,458*	*1,459*
Pacific	**30**	**218**	**700**	**98**	*28*	*167*	*567*	*58*	*28*	*167*	*566*	*58*	**1,046**	*819*	*819*
U.S. Average	**70**	**401**	**837**	**114**	*39*	*397*	*835*	*91*	*43*	*396*	*836*	*91*	**1,422**	*1,362*	*1,366*
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*	*163*	*570*	*6*	**741**	*738*	*738*
E. N. Central	**3**	**234**	**542**	**8**	*3*	*228*	*532*	*7*	*3*	*230*	*535*	*7*	**788**	*770*	*775*
W. N. Central	**7**	**281**	**672**	**12**	*7*	*277*	*659*	*11*	*7*	*280*	*666*	*12*	**973**	*953*	*965*
South Atlantic	**117**	**666**	**1,167**	**230**	*119*	*675*	*1,160*	*227*	*118*	*675*	*1,166*	*233*	**2,179**	*2,181*	*2,192*
E. S. Central	**33**	**544**	**1,056**	**65**	*34*	*539*	*1,031*	*63*	*34*	*540*	*1,035*	*65*	**1,698**	*1,667*	*1,675*
W. S. Central	**90**	**876**	**1,527**	**205**	*100*	*887*	*1,532*	*204*	*99*	*887*	*1,546*	*208*	**2,698**	*2,722*	*2,741*
Mountain	**23**	**424**	**930**	**81**	*24*	*426*	*922*	*84*	*25*	*431*	*925*	*83*	**1,458**	*1,456*	*1,463*
Pacific	**30**	**180**	**608**	**74**	*30*	*185*	*621*	*78*	*30*	*183*	*615*	*75*	**892**	*914*	*904*
U.S. Average	**43**	**405**	**857**	**94**	*45*	*408*	*855*	*94*	*45*	*409*	*860*	*96*	**1,399**	*1,402*	*1,410*

- = 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).

Appendix

This appendix is prepared in fulfillment of section 1245(d)(4)(A) of the National Defense Authorization Act (NDAA) for Fiscal Year 2012, as amended. The law requires the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy, to submit to Congress a report on the availability and price of petroleum and petroleum products produced in countries other than Iran in the two-month period preceding the submission of the report. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the U.S. Government. The data in this appendix, therefore, should not be construed as representing those of the U.S. Department of Energy or other federal agencies.

EIA consulted with the U.S. Department of the Treasury, the U.S. Department of State, and the intelligence community in the process of developing the NDAA report, which was previously published as a stand-alone report. Detailed background and contextual information not repeated here can be found in early editions of the NDAA report.

Table a1. Summary of Estimated Petroleum and Other Liquids Quantities

	December 2017	January 2018	December 2017-January 2018 Average	December 2016-January 2017 Average	2014 – 2016 Average
Global Petroleum and Other Liquids (million barrels per day)					
Global Petroleum and Other Liquids Production (a)	98.4	98.9	98.6	97.5	95.9
Global Petroleum and Other Liquids Consumption (b)	99.3	98.4	98.8	97.1	95.3
Biofuels Production (c)	1.9	1.7	1.8	1.8	2.1
Biofuels Consumption (c)	2.2	2.1	2.1	2.1	2.0
Iran Liquid Fuels Production	4.6	4.7	4.7	4.4	3.7
Iran Liquid Fuels Consumption	1.8	1.7	1.7	1.7	1.9
Petroleum and Petroleum Products Produced and Consumed in Countries Other Than Iran (million barrels per day)					
Production (d)	91.8	92.4	92.1	91.2	90.1
Consumption (d)	95.3	94.6	94.9	93.3	91.4
Production minus Consumption	-3.5	-2.1	-2.8	-2.1	-1.3
World Inventory Net Withdrawals Including Iran	0.9	-0.4	0.3	-0.3	-0.6
Estimated OECD Inventory Level (e) (million barrels)	2,870	2,865	2,867	3,008	2,842
OPEC Surplus Crude Oil Production Capacity (f)	2.1	2.0	2.1	1.5	1.6

Note: The term "petroleum and other liquids" encompasses crude oil, lease condensate, natural gas liquids, biofuels, coal-to-liquids, gas-to-liquids, and refinery processing gains, which are important to consider in concert due to the inter-related supply, demand, and price dynamics of petroleum, petroleum products, and related fuels.
(a) Production includes crude oil (including lease condensates), natural gas liquids, other liquids, and refinery processing gains.
(b) Consumption of petroleum by the OECD countries is synonymous with "products supplied," defined in the glossary of the EIA Petroleum Supply Monthly, DOE/EIA-0109. Consumption of petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel, and loss, and bunkering.
(c) Biofuels production and consumption are based on EIA estimates as published in the International Energy Statistics. Biofuels production in the third quarter tends to be at its highest level in the year as ethanol production in Brazil reaches its seasonal peak and is typically lowest in the first quarter as seasonal production falls in the South/South-Central region of Brazil.
(d) Global production of petroleum and petroleum products outside of Iran is derived by subtracting biofuels production and Iran liquid fuels production from global liquid fuels production. The same method is used to calculate global consumption outside of Iran.

(e) Estimated inventory level is for OECD countries only.
(f) EIA defines surplus oil production capacity as potential oil production that could be brought online within 30 days and sustained for at least 90 days, consistent with sound business practices. This does not include oil production increases that could not be sustained without degrading the future production capacity of a field.
Source: U.S. Energy Information Administration.

Table a2. Crude Oil and Petroleum Product Price Data

Item	December 2017	January 2018	December 2017-January 2018 Average	December 2016-January 2017 Average	2014 – 2016 Average
Brent Front Month Futures Price ($ per barrel)	64.09	69.08	66.65	55.21	66.06
WTI Front Month Futures Price ($ per barrel)	57.95	63.66	60.87	52.38	61.71
Dubai Front Month Futures Price ($ per barrel)	61.49	66.41	64.01	53.20	63.38
Brent 1st - 13th Month Futures Spread ($ per barrel)	3.37	4.44	3.92	-2.04	-3.42
WTI 1st - 13th Month Futures Spread ($ per barrel)	2.44	4.16	3.32	-3.46	-2.04
RBOB Front Month Futures Price ($ per gallon)	1.72	1.86	1.79	1.58	1.89
Heating Oil Front Month Futures Price ($ per gallon)	1.95	2.08	2.01	1.65	1.93
RBOB - Brent Futures Crack Spread ($ per gallon)	0.19	0.21	0.20	0.26	0.31
Heating Oil - Brent Futures Crack Spread ($ per gallon)	0.42	0.43	0.43	0.34	0.36

(a) Brent refers to Brent crude oil traded on the Intercontinental Exchange (ICE).
(b) WTI refers to West Texas Intermediate crude oil traded on the New York Mercantile Exchange (NYMEX), owned by Chicago Mercantile Exchange (CME) Group.
(c) RBOB refers to reformulated blendstock for oxygenate blending traded on the NYMEX.
Source: U.S. Energy Information Administration, based on Chicago Mercantile Exchange (CME), Intercontinental Exchange (ICE), and Dubai Mercantile Exchange (DME).