Independent Statistics & Analysis
U.S. Energy Information Administration

February 2021

Short-Term Energy Outlook

Forecast highlights

Global liquid fuels

- The February *Short-Term Energy Outlook* (STEO) remains subject to heightened levels of uncertainty because responses to COVID-19 continue to evolve. Reduced economic activity related to the COVID-19 pandemic has caused changes in energy demand and supply over the past year and will continue to affect these patterns in the future. U.S. gross domestic product (GDP) declined by 3.6% in 2020 from 2019 levels. This STEO assumes U.S. GDP will grow by 3.8% in 2021 and by 4.2% in 2022. The U.S. macroeconomic assumptions in this outlook are based on forecasts by IHS Markit.

- Brent crude oil spot prices averaged $55 per barrel (b) in January, up $5/b from the December average but $9/b lower than the average in January of last year. Higher Brent prices in January largely reflected the January 5 announcement by Saudi Arabia that it would unilaterally cut 1.0 million barrels per day (b/d) of crude oil production in February and March, in addition to the reduced production levels on which the Organization of the Petroleum Exporting Countries (OPEC) and partner countries (OPEC+) previously agreed. The U.S. Energy Information Administration (EIA) expects Brent crude oil prices will average $56/b in the first quarter of 2021 and $52/b over the remainder of the year. EIA expects lower oil prices later in 2021 as a result of rising oil supply that will slow the pace of global oil inventory withdrawals. EIA also expects that high global oil inventory levels and spare production capacity will limit upward price pressures. EIA expects Brent prices will average $55/b in 2022.

- EIA estimates that the world consumed 93.9 million b/d of petroleum and liquid fuels in January, which is down 2.8 million b/d from January 2020. EIA forecasts that global consumption of petroleum and liquid fuels will average 97.7 million b/d for all of 2021, which is up by 5.4 million b/d from 2020. EIA forecasts that consumption of petroleum and liquid fuel will increase by 3.5 million b/d in 2022 to average 101.2 million b/d.

- EIA estimates that U.S. crude oil production averaged 11.0 million b/d in January, which is down slightly from 11.1 million b/d in November (the most recent month for which historical data are available). EIA expects production will continue to decline slightly in the coming months, reaching 10.9 million b/d in June. Although oil-directed drilling has increased in the United States in recent months, the number of active drilling rigs remains lower than year-ago levels. EIA expects production from newly drilled wells will be more

Note: EIA completed modeling and analysis for this report on Thursday February 4, 2021

than offset by declining production rates at existing wells in the first half of 2021. However, based on EIA's forecast that West Texas Intermediate crude oil prices will remain near or higher than $50/b during the forecast period, EIA expects drilling will continue to increase. As a result, production from new wells will exceed the declines from legacy wells, and overall crude oil production will increase in the second half of 2021 and in 2022. EIA estimates that U.S. crude oil production will average 11.0 million b/d in 2021—down from 11.3 million b/d in 2020 and 12.2 million b/d in 2019—and will rise to 11.5 million b/d in 2022.

- U.S. regular gasoline retail prices averaged $2.33 per gallon (gal) in January, compared with an average of $2.20/gal in December and $2.55/gal in January 2020. EIA forecasts gasoline prices to average $2.44/gal in 2021 and $2.46/gal in 2022. U.S. diesel fuel prices averaged $2.68/gal in January compared with $2.58/gal in December and $3.05/gal in January 2020, and EIA forecasts it will average $2.70/gal in 2021 and $2.77/gal in 2022.

- On a volume basis, U.S. consumption of gasoline declined by more than other petroleum products in 2020. EIA forecasts that U.S. gasoline consumption will rise in the forecast but remain lower than 2019 levels. U.S. gasoline consumption is forecast to average 8.6 million b/d in 2021 and 8.9 million b/d in 2022, up from 8.0 million b/d in 2020 but lower than the 9.3 million b/d consumed in 2019.

Natural Gas

- EIA expects that total U.S. consumption of natural gas will average 81.7 billion cubic feet per day (Bcf/d) in 2021, down 1.9% from 2020. The decline in total U.S. consumption reflects less natural gas consumed for electric power as a result of higher natural gas prices compared with last year. In 2021, EIA expects residential natural gas demand to average 12.9 Bcf/d (up 0.2 Bcf/d from 2020) and commercial demand to average 9.1 Bcf/d (up 0.6 Bcf/d from 2020). EIA forecasts industrial consumption will average 23.0 Bcf/d in 2021 (up 0.4 Bcf/d from 2020) as a result of increased manufacturing activity amid a recovering economy. Industrial consumption of 23.0 Bcf/d would be 0.1 Bcf/d below the 2019 level. EIA expects total U.S. natural gas consumption will average 81.0 Bcf/d in 2022.

- In January, the Henry Hub natural gas spot price averaged $2.71 per million British thermal units (MMBtu), up from the December average of $2.59/MMBtu. EIA expects Henry Hub spot prices to reach a monthly average of $2.98/MMBtu in February 2021. Higher expected prices in February reflect expectations of continued strong liquefied natural gas (LNG) exports and a shrinking surplus of natural gas in storage compared with the five-year (2016–20) average. EIA uses weather forecasts from the National Oceanic and Atmospheric Administration (NOAA) as an input into the STEO, and the NOAA forecast in this STEO is from late January. More recent forecasts for mid-February weather show cold temperatures could extend across much of the United States, which creates an upside risk to near-term prices in this outlook. EIA expects that Henry Hub spot prices will average $2.95/MMBtu in

2021, which is up from the 2020 average of $2.03/MMBtu. EIA expects that continued growth in LNG exports and in domestic natural gas consumption outside of the electric power sector, as production remains relatively flat, will contribute to Henry Hub spot prices rising to an average of $3.27/MMBtu in 2022.

- U.S. working natural gas in storage ended October at more than 3.9 trillion cubic feet (Tcf), 5% more than the 2015–19 average and the fourth-highest end-of-October level on record. EIA estimates that inventory withdrawals were 703 billion cubic feet (Bcf) in January, compared with a five-year (2016–20) average January withdrawal of 716 Bcf. The January withdrawals occurred at a lower rate than EIA forecast in last month's STEO. The lower-than-expected withdrawal is the result of warmer-than-average January temperatures that reduced natural gas use for space heating. However, EIA forecasts that declines in U.S. natural gas production this winter compared with last winter will more than offset the declines in natural gas consumption, which will contribute to natural gas storage returning to levels near the five-year average by the end of winter. Forecast natural gas inventories end March 2021 at 1.8 Tcf, which is about the same as the five-year average.

- EIA forecasts that U.S. production of dry natural gas will average 90.5 Bcf/d in 2021 and 91.0 Bcf/d in 2022, which are down from an average of 91.3 Bcf/d in 2020 and 93.1 Bcf/d in 2019. In the forecast, dry natural gas production remains relatively flat, averaging between 89.8 Bcf/d and 91.0 Bcf/d in every month from February 2021 through July 2022. Flat natural gas production is the result of falling production in several of the smaller natural gas producing regions being offset by growth in other regions, most notably in the Appalachia and Haynesville regions.

- EIA estimates that the United States exported 9.8 Bcf/d of LNG in January amid high spot natural gas prices in Asia. However, foggy conditions and high winds affected export operations at Sabine Pass LNG, Corpus Christi LNG, and Cameron LNG, leading to several weather-related closures and sporadic suspension of piloting services on several days in January. EIA forecasts that U.S. LNG exports will average 8.5 Bcf/d in 2021. In 2022, EIA forecasts LNG exports will average 9.2 Bcf/d, surpassing the amount of natural gas exported via pipeline for the first time.

Electricity, coal, renewables, and emissions

- EIA forecasts that consumption of electricity in the United States will increase by 1.6% in 2021 after falling 3.8% in 2020. EIA forecasts residential sector retail sales will grow by 2.2% in 2021. The increase is primarily a result of colder forecast temperatures in the first quarter of 2021 compared with the same period in 2020, which EIA expects will raise demand for space heating, along with EIA's assumption that more people will be working from home than in the first quarter of 2020. EIA expects retail sales of electricity in the commercial and industrial sectors will increase by 1.2% and 2.3%, respectively. For 2022, EIA forecasts total electricity consumption will grow by another 1.7%.

- EIA expects the share of U.S. electric power generated with natural gas to fall from 39% in 2020 to 37% in 2021 and to 35% in 2022. The forecast natural gas share declines in response to a forecast increase in the price of natural gas delivered to electricity generators from an average of $2.38/MMBtu in 2020 to $3.27/MMBtu in 2021 (a 37% increase). Coal's forecast share of electricity generation rises from 20% in 2020 to 21% in 2021 and to 22% in 2022. Electricity generation from renewable energy sources rises from 20% in 2020 to 21% in 2021 and to 23% in 2022. The nuclear share of U.S. generation declines from 21% in 2020 to 20% in 2021 and to 19% in 2022.

- EIA forecasts that planned additions to U.S. wind and solar generating capacity in 2021 and 2022 will contribute to increasing electricity generation from those sources. EIA estimates that the U.S. electric power sector added 17.5 gigawatts (GW) of new wind capacity in 2020. EIA expects 15.3 GW of wind capacity will be added in 2021 and 3.6 GW in 2022. Utility-scale solar capacity rose by an estimated 11.1 GW in 2020. The forecast for added utility-scale solar capacity is 16.2 GW for 2021 and 12.3 GW for 2022.

- EIA expects U.S. coal production to total 589 MMst in 2021, 50 MMst (9%) more than in 2020. In 2022, EIA expects coal production to rise by a further 5 MMst (1%). These increases reflect higher forecast demand for coal in the electric power sector because of rising natural gas prices, which increases coal's competitiveness relative to natural gas for power generation dispatch. Although EIA expects coal production to rise in 2022, expected production increases will be limited by strong inventory draws. EIA expects significant coal supply to the power sector will come from a reduction in inventory levels in 2022, as the power sector brings inventory levels back in line with historical averages. Coal production in the forecast will also be limited by declining production capacity, as high mine reclamation costs have contributed to mine divestments and closings that may counter the effects of higher coal demand.

- EIA expects rising global economic activity will contribute to rising steel production and power demand, which will lead to increased U.S. exports of both metallurgical and steam coal. EIA forecasts coal exports will total 85 MMst in 2021, up by 24% from 2020, which was the lowest level since 2016. EIA forecasts exports will rise by 6 MMst in 2022 to 91 MMst.

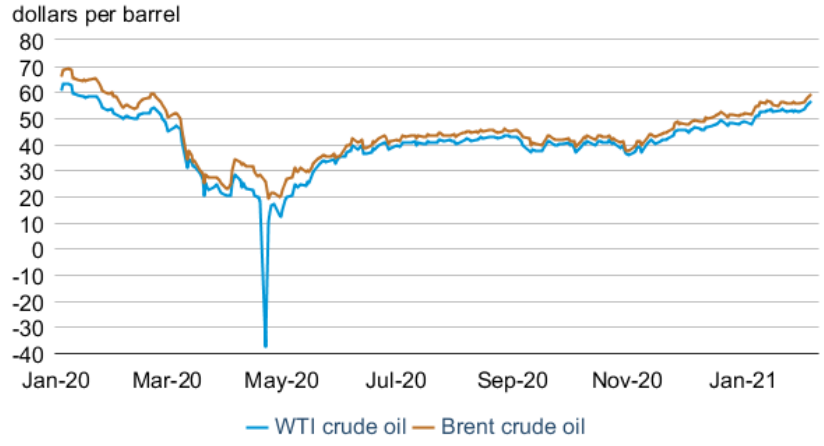
- EIA estimates that U.S. energy-related carbon dioxide (CO2) emissions decreased by 11% in 2020. This decline in emissions is the result of less energy consumption related to economic contraction in response to the COVID-19 pandemic. In 2021, EIA forecasts that energy-related CO2 emissions will increase by about 4% from the 2020 level as economic activity increases leading to rising energy use. Energy-related CO2 emissions are also expected to rise by 3% in 2022 as economic growth continues.

Petroleum and natural gas markets review

Crude oil

Prices: The front-month futures price for Brent crude oil settled at $58.84 per barrel (b) on February 4, 2021, an increase of $7.75/b from January 4, 2021. The front-month futures price for West Texas Intermediate (WTI) crude oil for delivery at Cushing, Oklahoma, increased by $8.61/b during the same period, settling at $56.23 on February 4 **(Figure 1)**.

Figure 1. Crude oil front-month futures prices



Sources: CME Group and Intercontinental Exchange, as compiled by Bloomberg L.P.
Note: WTI=West Texas Intermediate.

Sustained production cuts by the Organization of the Petroleum Exporting Countries (OPEC) and partner countries (OPEC+) continued to put upward pressure on crude oil prices in January. In early December, OPEC+ announced it would limit production increases planned for early 2021. Then in early January, OPEC+ largely reaffirmed those limits, and Saudi Arabia announced on January 5 that it would unilaterally cut an additional 1.0 million barrels per day (b/d) of production in February and March.

In addition to the OPEC+ supply reductions, expectations for increasing petroleum demand as a result of the rollout of COVID-19 vaccines are further supporting oil prices. Brent crude oil prices settled at more than $55/b on all but one day since January 8, marking the highest levels since the early days of the pandemic in late-February 2020. However, new government mobility restrictions in response to COVID-19 during the Lunar New Year holiday season in China and increased restrictions on travel in Europe both present the potential to keep petroleum demand lower than might otherwise be expected.

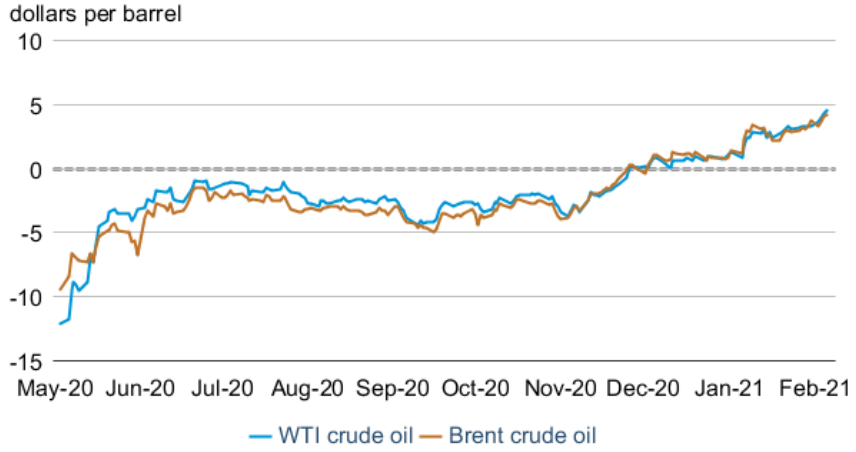
EIA expects that global consumption of petroleum and liquid fuels will rise by 5.4 million b/d in 2021, which is 0.2 million b/d less than forecast in last month's STEO. That pace of growth would bring global petroleum and liquid fuels consumption to an average of 97.7 million b/d for the year, still 3.5 million b/d less than in 2019.

Crude oil futures price spreads and floating storage: The crude oil market developed large contango (when near-term prices are lower than longer-dated ones) in April and May 2020 because a significant reduction in demand for crude oil reduced front-month futures contract prices. The magnitude of the contango narrowed in the summer, as crude oil production decreased and petroleum demand increased.

In early December, when the front-month Brent contract changed to February delivery, the spread became consistently backwardated (when near-term prices are higher than longer-dated ones). Backwardation developed as a result of market assessments that the rollout of the COVID-19 vaccine would contribute to rising oil demand in early 2021, combined with early December announcements of limited production increases from OPEC+ in the first quarter of 2021. EIA weekly data from January confirm near-term tightness in oil markets. EIA estimates U.S. crude oil inventories fell by 9.8 million barrels in January, compared with a five-year average build of 12.1 million barrels. Also, U.S. refinery inputs of crude oil increased in January compared with December. Typically refinery inputs decline in January.

This slight backwardation persisted through December, and then it increased significantly in January, when front-month crude oil prices reached 11-month highs. The Brent 1st–13th spread settled at $4.11/b and the WTI 1st–13th spread settled at $4.43/b on February 4, 2021 **(Figure 2)**. This increase in backwardation is most likely the result of Saudi Arabia's announced supply cuts for February and March, which EIA expects will contribute to global oil stock withdrawals during the first quarter of 2021. EIA forecasts first-quarter 2021 global oil stock withdrawals to average 2.0 million b/d, down only slightly from the high withdrawal rates during the second half of 2020.

Figure 2. Crude oil front-month to 13th month futures price spread

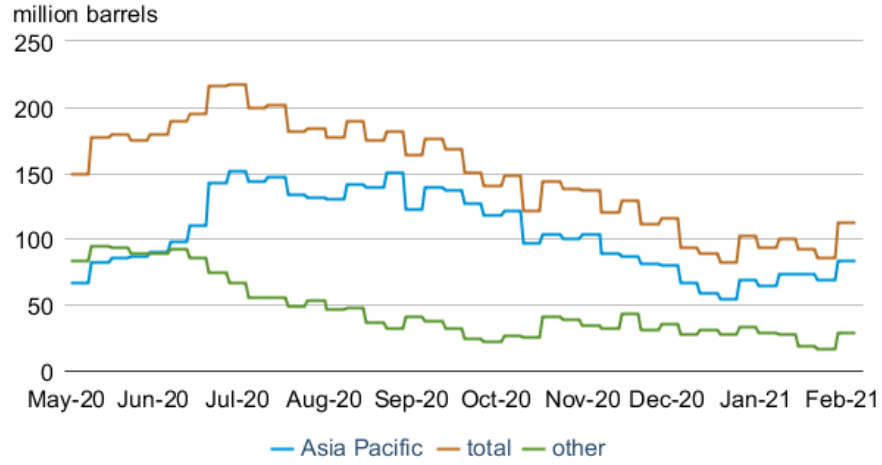


Source: CME Group and Intercontinental Exchange, as compiled by Bloomberg L.P.
Note: WTI=West Texas Intermediate.

The sharp contango in April and May 2020 was the result of substantial decreases in demand for liquid fuels in the first half of 2020 because of responses to the pandemic, which contributed to significant increases in crude oil inventories. As onshore crude oil storage began to fill, many

market participants resorted to storing crude oil in floating storage, which peaked at 222 million barrels during the week of June 26, 2020, according to energy analytics company, Vortexa **(Figure 3)**. Vortexa defines floating storage as the amount of crude oil on tankers that has been stationary for at least seven days. The initial growth in floating storage through June occurred across several regions. Both the Pacific and Atlantic basin markets stored crude oil when demand rapidly decreased. Current levels of backwardation indicate a need for inventory drawdowns to meet demand, suggesting current levels of floating storage may continue to decline.

Figure 3. Global oil in floating storage



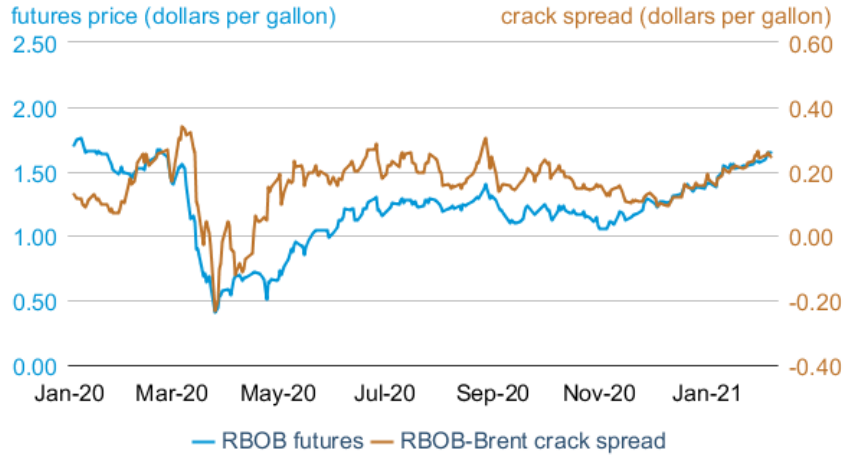
eia Source: Vortexa LTD via Bloomberg L.P.

As crude oil production fell and demand gradually increased, floating storage began to decline in Europe and other Atlantic Basin markets, but high Chinese crude oil purchases amid lower global crude oil prices resulted in increases in port congestion and floating storage off the Chinese coast. Floating storage declined by 32 million barrels globally between when the market entered backwardation in late November through late-January, before increasing at the end of the month. Vortexa reports that floating storage was 110 million barrels as of January 29, 2021, down 111 million barrels since June. EIA discussed the connection between Chinese crude oil imports, floating storage, and crude oil futures last October in *This Week in Petroleum.* Crude oil in floating storage has declined closer to levels observed in first-quarter 2020, but a combination of global oil demand and refinery runs that are still lower than year-ago levels is likely contributing to a near-term plateau of floating storage.

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 $1.64 per gallon (gal) on February 4, up 27 cents/gal from January 4 **(Figure 4)**. The RBOB–Brent crack spread (the difference between the price of RBOB and the price of Brent crude oil) increased by 9 cents/gal to settle at 24 cents/gal during the same period.

Figure 4. Historical RBOB front-month futures prices and crack spread

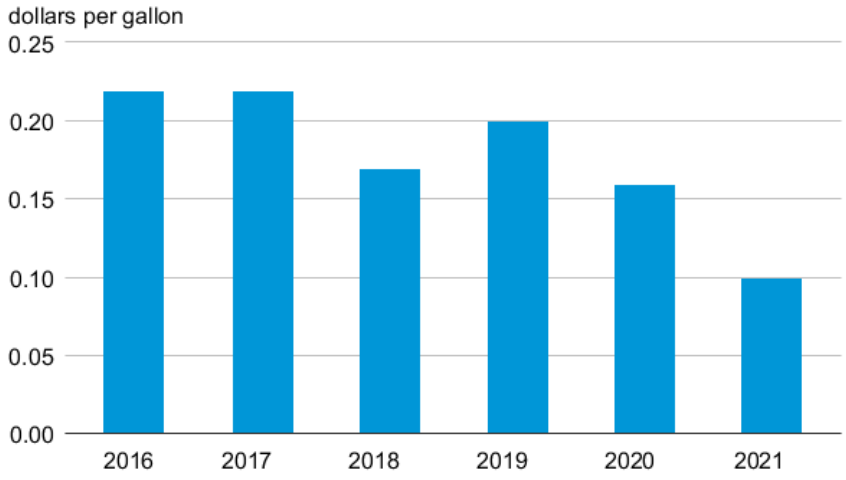


Source: CME Group, as compiled by Bloomberg L.P.
Note: RBOB=reformulated blendstock for oxygenate blending

In the United States, expectations of increased domestic consumption likely contributed to upward pressure on the RBOB–Brent crack spread in January. EIA forecasts gasoline consumption will average 8.5 million barrels per day (b/d) from February to June, compared with consumption in January, which EIA estimates at 7.8 million b/d.

March to April RBOB contract spread: The RBOB futures contract for April delivery is the first contract during the year that trades the more-expensive-to-produce summer-grade gasoline. As a result, April contracts typically trade at a premium to March contracts. On the final trading day in January in the past five years, the average spread between RBOB contracts for April delivery and RBOB contracts for March delivery was 19 cents/gal **(Figure 5)**. In 2021, that spread was 10 cents/gal, the lowest since 2009. The relatively low spread this year likely indicates that expectations of a seasonal increase in spring and summer driving will be more subdued than in previous years. Additionally, the spread may be lower because refinery utilization levels are relatively low, and the marginal cost of increasing summer-grade gasoline production from a low baseline may be lower than under normal utilization rates.

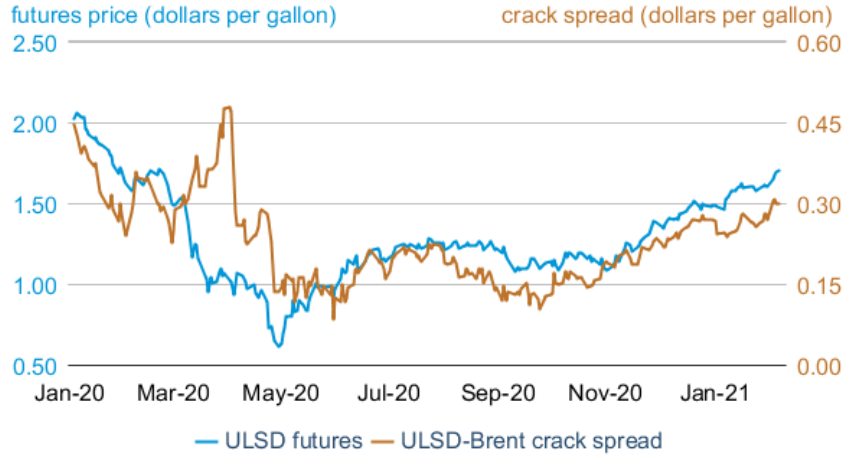
Figure 5. March to April contract spread



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

Ultra-low sulfur diesel prices: The front-month futures price for ultra-low sulfur diesel (ULSD) for delivery in New York Harbor settled at $1.70/gal on February 4, up 24 cents/gal from January 4 **(Figure 6)**. The ULSD–Brent crack spread (the difference between the price of ULSD and the price of Brent crude oil) increased by 5 cents/gal to settle at 30 cents/gal during the same period. January's average ULSD–Brent crack spread of 26 cents/gal was the highest since March 2020.

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



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

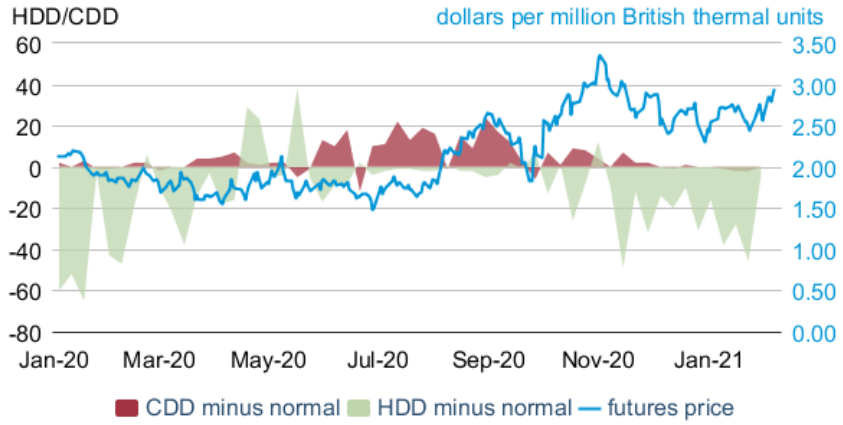
The ULSD-Brent crack spread generally increased throughout January and has continued to increase in early February. Higher estimated consumption in January likely contributed upward pressure to the crack spread, which has increased for four consecutive months. EIA estimates distillate consumption increased 0.36 million b/d (10%) from December to 4.01 million b/d in January. Because of the wide price spread between ULSD traded at New York Harbor and low

sulfur gasoil traded in Europe, U.S. net imports have been relatively high, contributing to a stock build of 3.9 million barrels (2.5%) in January. If confirmed by monthly data, January net imports were the highest for that month since 2011, and the January 2021 closing stock level was the highest for the month since 2017.

Natural Gas

Prices: The front-month natural gas futures contract for delivery at the Henry Hub settled at $2.94 per million British thermal units (MMBtu) on February 4, 2021, which is up 35 cents/MMBtu from January 4, 2021 **(Figure 7)**.

Figure 7. Natural gas front-month futures prices and actual minus historical average HDD and CDD



Sources: CME Group and National Oceanic and Atmospheric Administration, as compiled by Bloomberg L.P.
Note: HDD=heating degree days, CDD=cooling degree days.

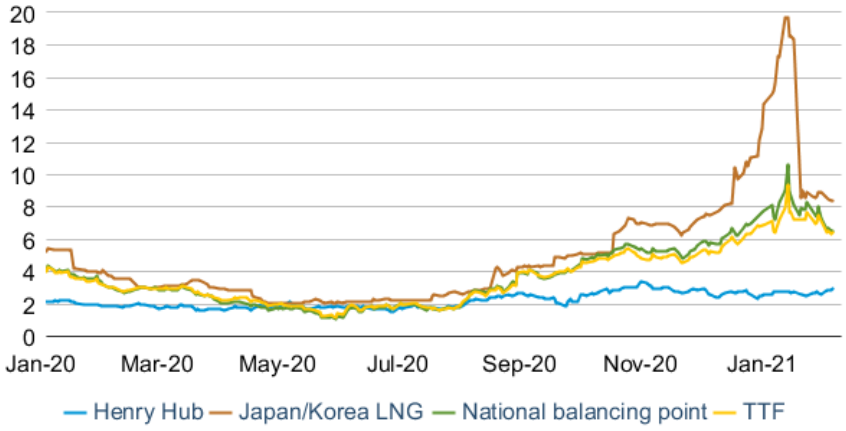
A shift to a colder weather outlook for the first half of February contributed to a substantial increase in the futures prices on February 1. The front-month contract settled at a higher price on February 1 than all trading days in January, which was the first time since 2014 that a February price settlement exceeded all of the closing prices from the previous month. U.S. temperatures in January were warmer-than-average but colder than January 2020, which helped to keep consumption nearly unchanged from the previous year and to moderate Henry Hub prices despite significant increases in natural gas prices in Europe and Asia because of colder weather in those regions.

EIA estimates that in January 2021, U.S. LNG exports reached record levels for the third consecutive month. U.S. dry natural gas production in January declined for the second consecutive month, but it experienced the smallest year-on-year decrease in six months. EIA estimates that U.S. inventory levels at the end of January remained 9% higher than the five-year (2016–20) average, but it forecasts that inventories will decline to lower than the five-year average by the end of March 2021.

International natural gas prices: Liquefied natural gas (LNG) spot and forward prices in northern Asia approached an all-time high in mid-January 2021 **(Figure 8)**. Sustained cold temperatures in Japan, China, and South Korea—the world's three largest LNG consumers—prompted an increase in space heating demand, a drawdown in LNG inventories, and an increase in LNG prices. LNG shipping constraints because of congestion at the Panama Canal and unplanned outages at multiple LNG export facilities were also significant contributors.

Figure 8. International natural gas prices

dollars per million British thermal units



eia Source: CME Group, Bloomberg L.P., Note: TTF=Title Transfer Facility

In Japan, several power utilities were faced with critically low LNG inventories and purchased additional LNG volumes in global spot markets on a short-term basis. In northern China, the decline in temperatures to a five-decade low led to increased LNG imports, which in December 2020 reached the largest monthly LNG import volume in China to date. In South Korea, several coal plants were taken offline during the winter to reduce air pollution, requiring higher output from natural gas power plants.

Aside from the significant demand increase, unplanned outages at a number of LNG export facilities in several countries also contributed to reduced global LNG supply. Typically, LNG export facilities run at maximum capacity in the winter because more than 97% of global LNG consumption occurs in the northern hemisphere, where regasified LNG is used for space heating and the use of LNG depends on prevailing weather conditions. EIA estimates that in December 2020, global LNG export capacity was utilized at 88%—the lowest level for the month in at least six years.

Notable forecast changes

- EIA forecasts Federal U.S. Gulf of Mexico crude oil production will average almost 1.7 million barrels per day (b/d) in both 2021 and 2022, which is 0.1 million b/d lower than previously forecast. The reduced forecast reflects both announcements by operators that they will push back the start dates of several fields as well as initial production rates that were lower than EIA's previous expectations at fields that came online in the second half of 2020.
- EIA expects marketed natural gas production to average 98.3 billion cubic feet per day in the United States (Bcf/d) in 2021 and 98.9 Bcf/d in 2022, up 2.4 Bcf/d and 1.3 Bcf/d, respectively, from the January forecast. The upward revision reflects more forecast associated natural gas production from oil-directed wells in the Permian region.
- EIA expects natural gas use for power generation will total 1,430 billion kilowatthours (kWh) in 2021 and 1,397 billion kWh in 2022, which are up 3% and 5%, respectively, from the January STEO. The higher forecast reflects lower regional natural gas price assumptions in EIA's electricity generation model. The lower prices also reduce coal use for power generation in the forecast. EIA expects coal-fired power generation will total 835 billion kWh in 2021 and 888 billion kWh in 2022, which are down 4% and 7%, respectively, from the January STEO.
- EIA expects coal production to total 594 million short tons in 2022, which is 5% less than forecast in the January STEO. The lower forecast is the result of lower forecast coal use in the electric power sector.
- For more information, see the detailed table of forecast changes.

Short-Term Energy Outlook
Chart Gallery

February 9, 2021

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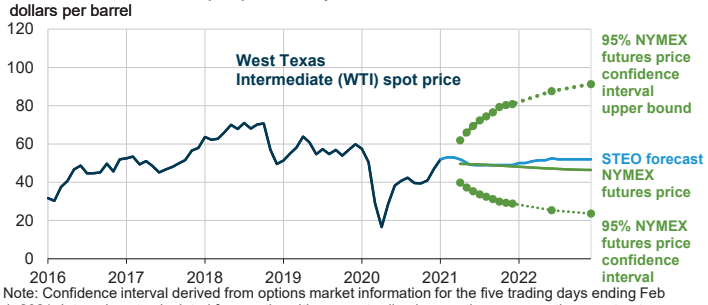
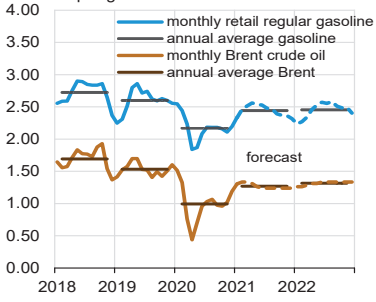
West Texas Intermediate (WTI) crude oil price and NYMEX confidence intervals
dollars per barrel



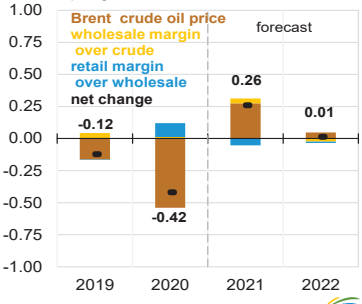
Note: Confidence interval derived from options market information for the five trading days ending Feb 4, 2021. Intervals not calculated for months with sparse trading in near-the-money options contracts.

Sources: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021, CME Group, and Bloomberg, L.P.

U.S. gasoline and crude oil prices
dollars per gallon

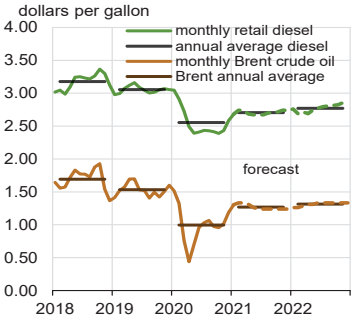


Components of annual gasoline price changes
dollars per gallon

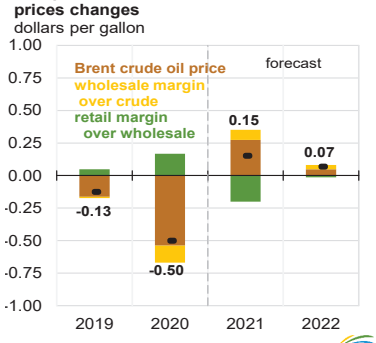


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. diesel and crude oil prices



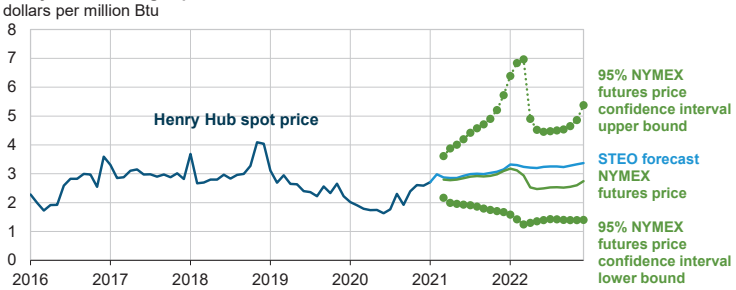
Components of annual diesel prices changes



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

Henry Hub natural gas price and NYMEX confidence intervals

dollars per million Btu

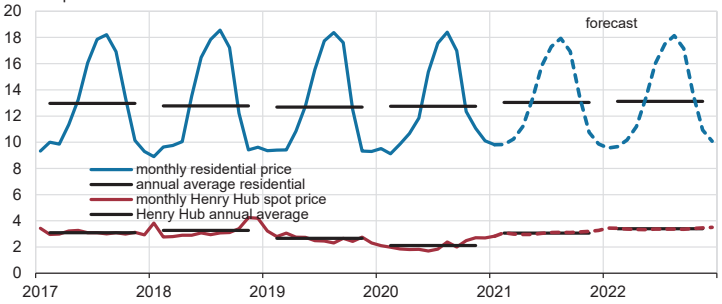


Note: Confidence interval derived from options market information for the five trading days ending Feb 4, 2021. Intervals not calculated for months with sparse trading in near-the-money options contracts.

Sources: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021, and CME Group

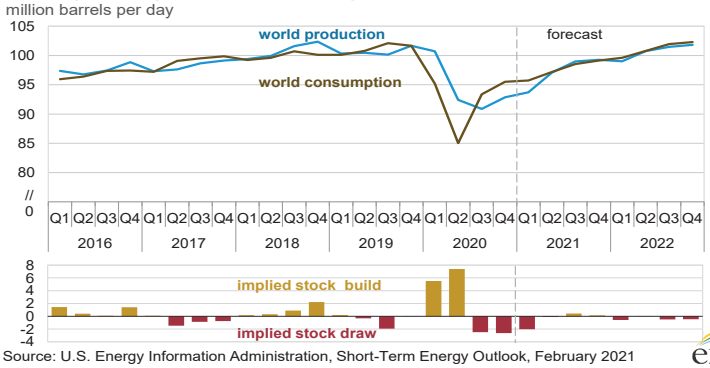
U.S. natural gas prices

dollars per thousand cubic feet



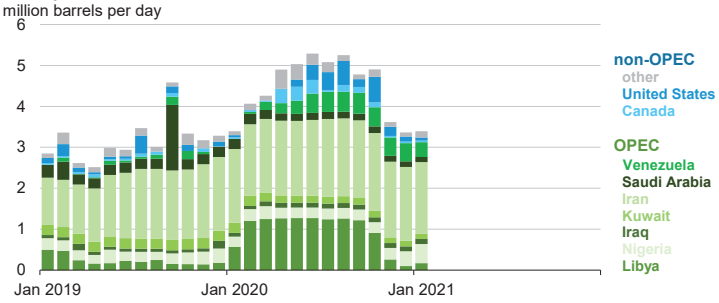
Sources: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021, and Refinitiv

World liquid fuels production and consumption balance
million barrels per day



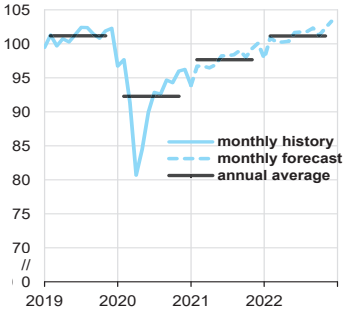
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

Estimated unplanned liquid fuels production outages among OPEC and non-OPEC producers
million barrels per day

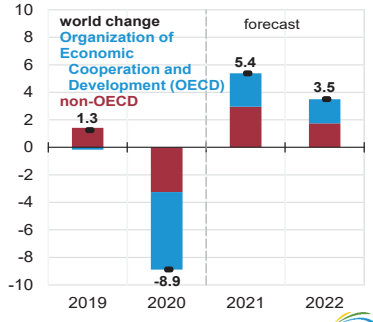


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

World liquid fuels consumption
million barrels per day

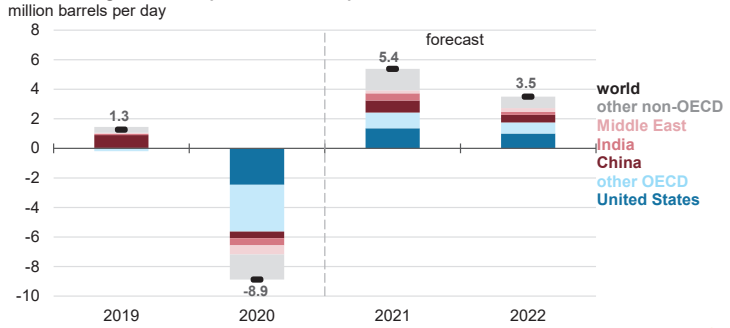


Components of annual change
million barrels per day



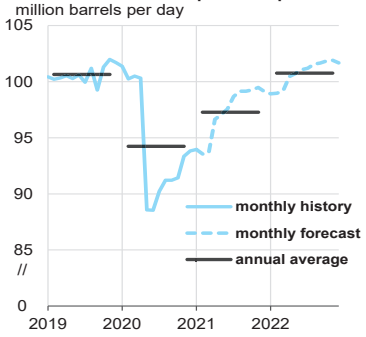
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

Annual change in world liquid fuels consumption
million barrels per day

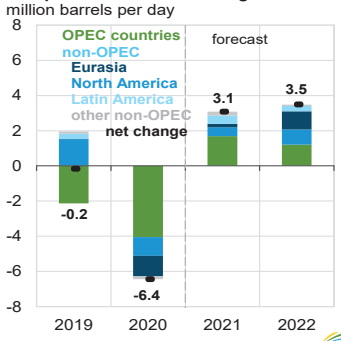


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

World crude oil and liquid fuels production
million barrels per day

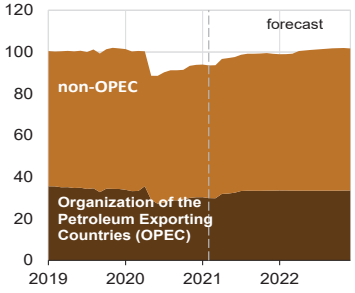


Components of annual change
million barrels per day

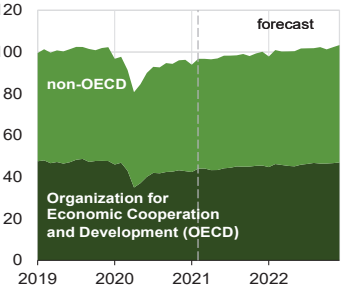


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

World liquid fuels production
million barrels per day

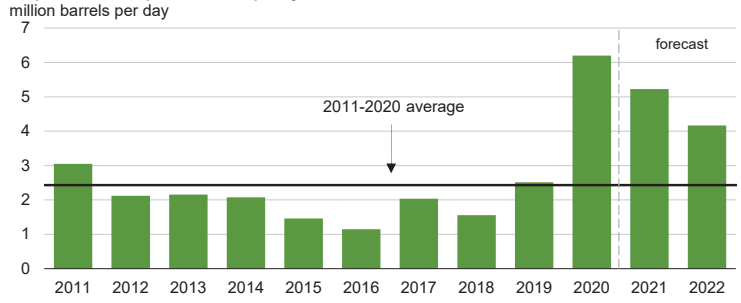


World liquid fuels consumption
million barrels per day



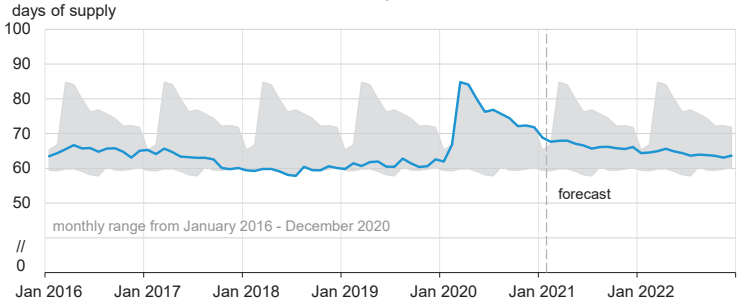
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

Organization of the Petroleum Exporting Countries (OPEC)
surplus crude oil production capacity
million barrels per day



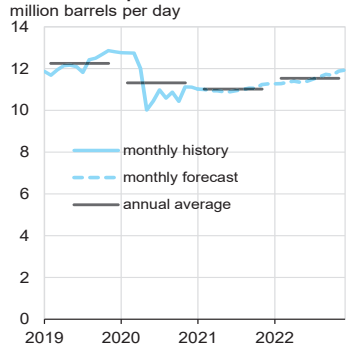
Note: Black line represents 2011-2020 average (2.4 million barrels per day).
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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

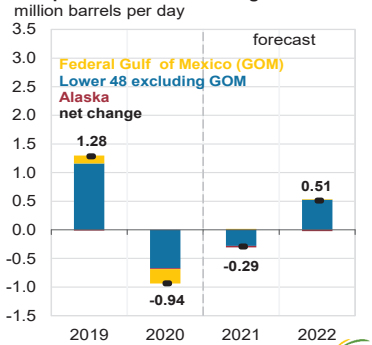


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. crude oil production
million barrels per day



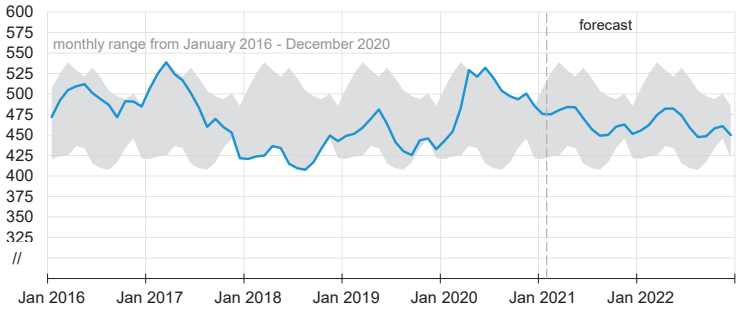
Components of annual change
million barrels per day



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. commercial crude oil inventories

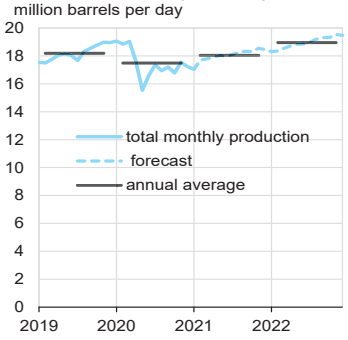
million barrels



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

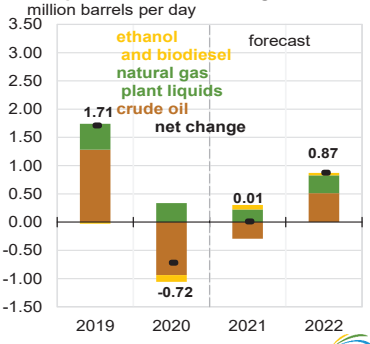
U.S. crude oil and liquid fuels production

million barrels per day



Components of annual change

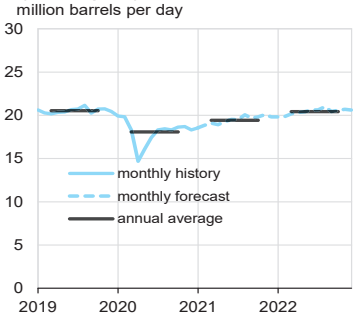
million barrels per day



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

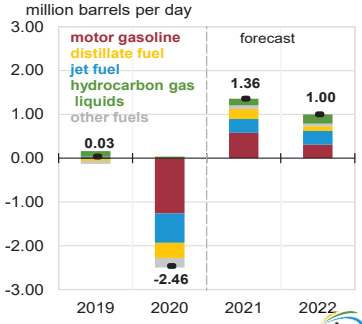
U.S. liquid fuels product supplied (consumption)

million barrels per day



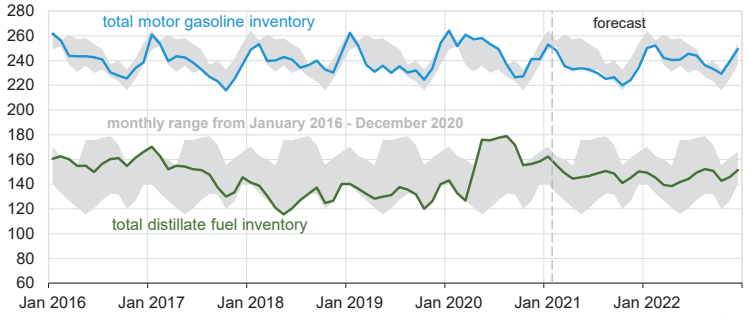
Components of annual change

million barrels per day



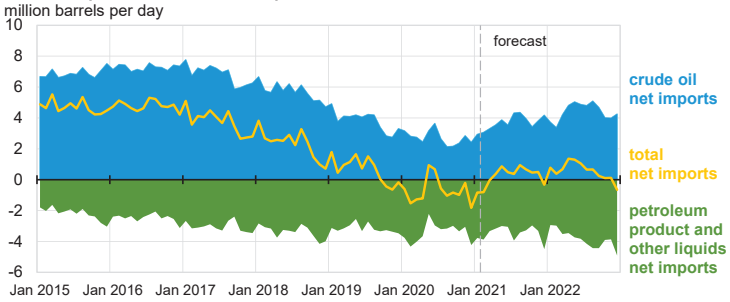
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. gasoline and distillate inventories
million barrels



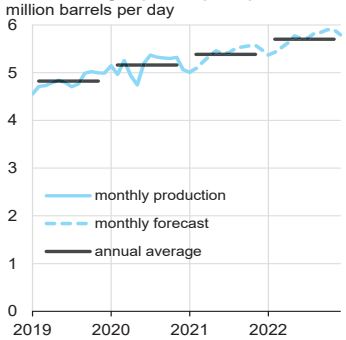
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. net imports of crude oil and liquid fuels
million barrels per day

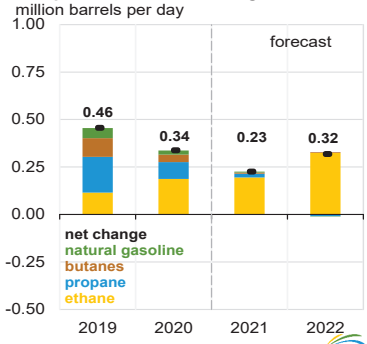


Note: Petroleum product and other liquids include: gasoline, distillate fuels, hydrocarbon gas liquids, jet fuel, residual fuel oil, unfinished oils, other hydrocarbons/oxygenates, and other oils.
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. natural gas plant liquids production
million barrels per day

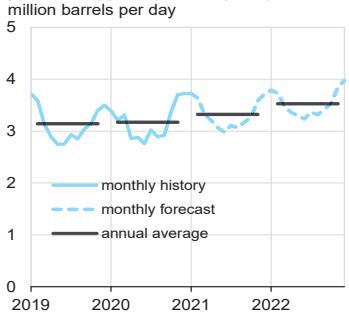


Components of annual change
million barrels per day



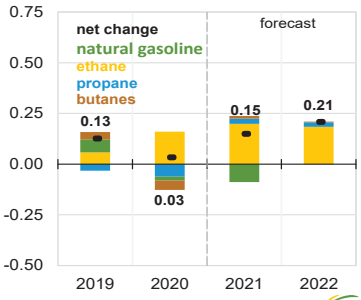
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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



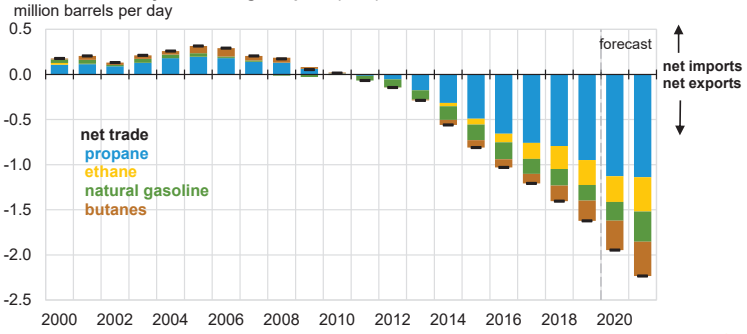
Components of annual change

million barrels per day



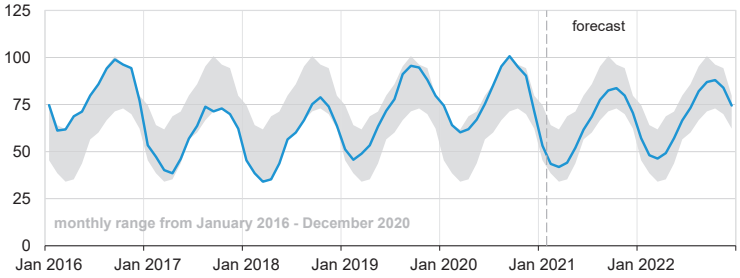
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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



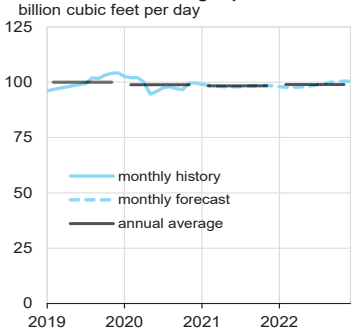
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. commercial propane inventories
million barrels

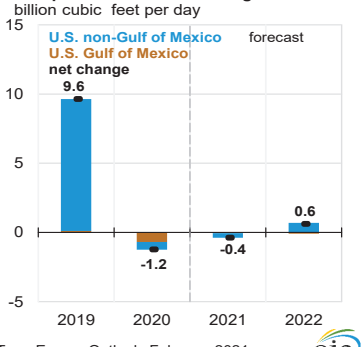


Note: Excludes propylene.
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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

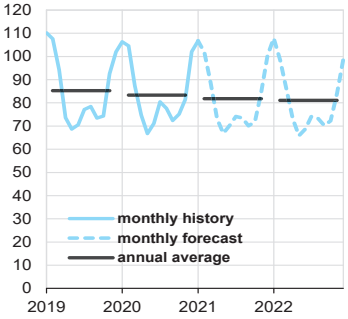


Components of annual change
billion cubic feet per day

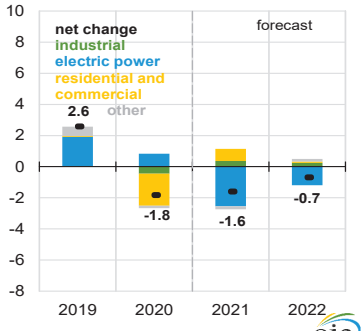


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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

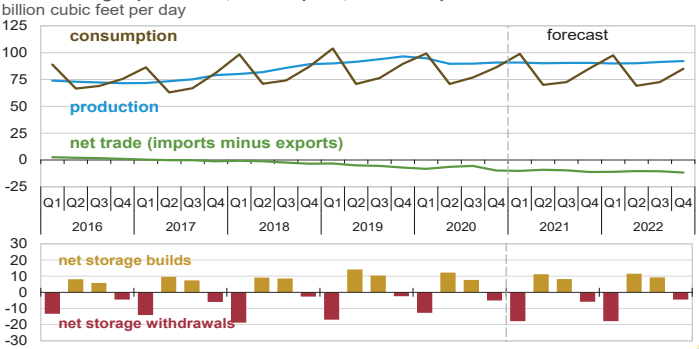


Components of annual change
billion cubic feet per day



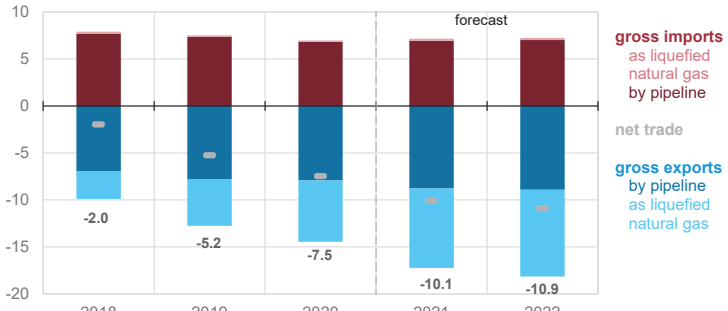
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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



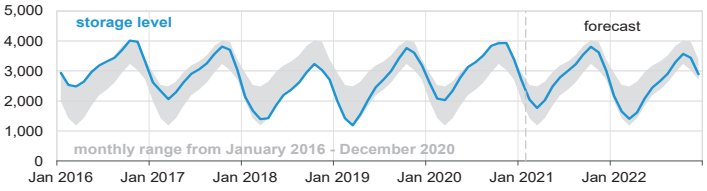
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. annual natural gas trade
billion cubic feet per day

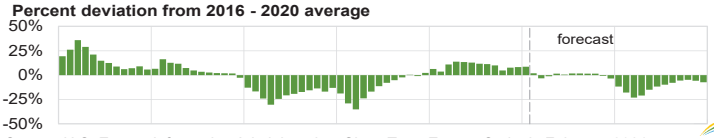


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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

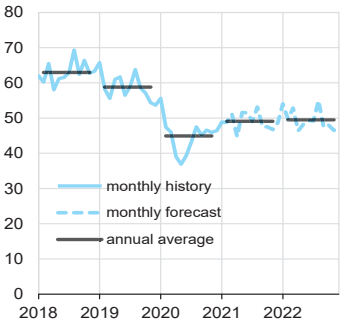


Percent deviation from 2016 - 2020 average

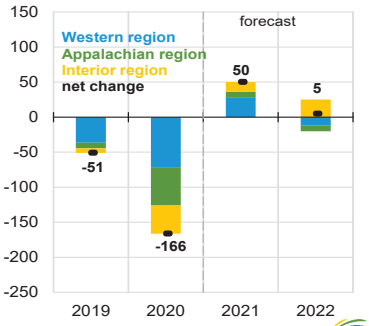


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. coal production
million short tons

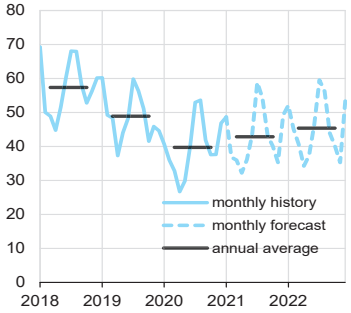


Components of annual change
million short tons

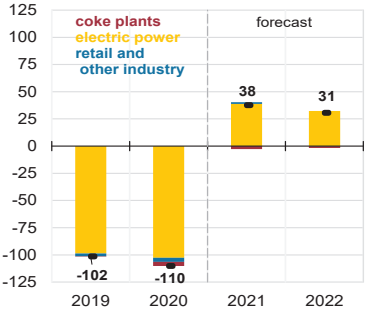


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. coal consumption
million short tons

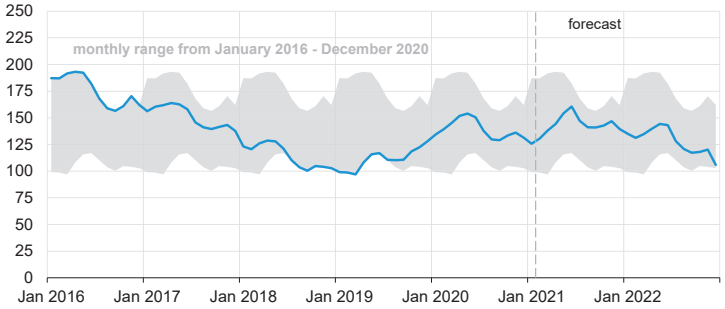


Components of annual change
million short tons



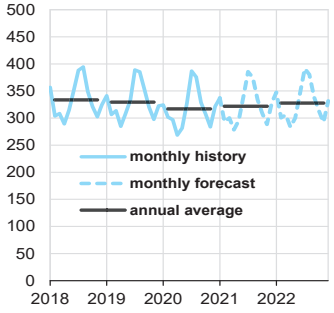
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. electric power coal inventories
million short tons

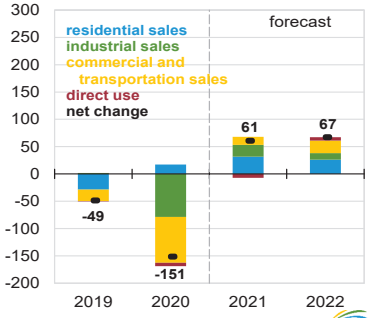


Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. electricity consumption
billion kilowatthours



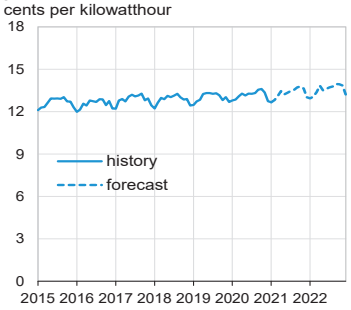
Components of annual change
billion kilowatthours



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

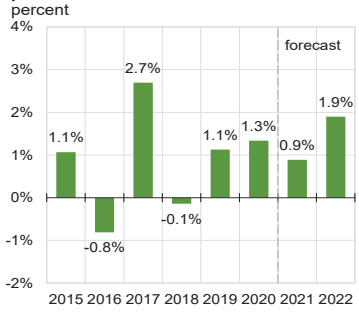
U.S. monthly residential electricity price

cents per kilowatthour



Annual growth in residential electricity prices

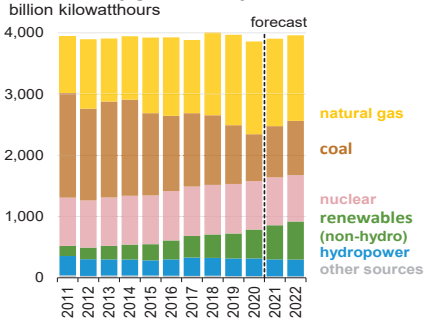
percent



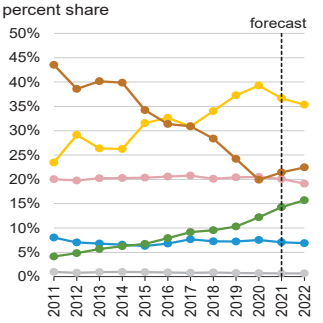
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. electricity generation by fuel, all sectors

billion kilowatthours



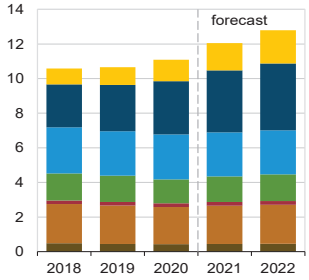
percent share



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

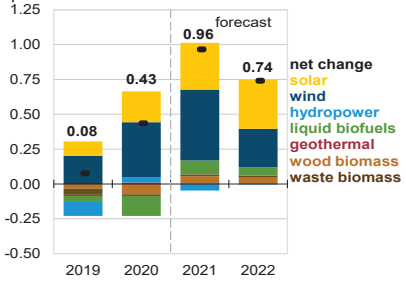
U.S. renewable energy supply

quadrillion British thermal units



Components of annual change

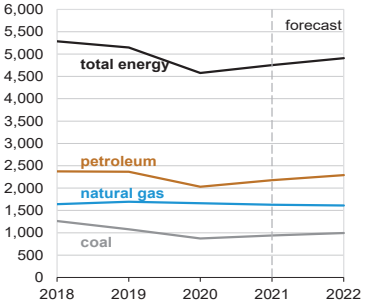
quadrillion British thermal units



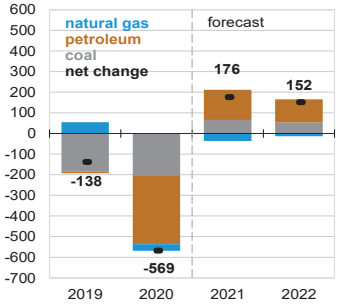
Note: Hydropower excludes pumped storage generation. Liquid biofuels include ethanol and biodiesel. Other biomass includes municipal waste from biogenic sources, landfill gas, and other non-wood waste.

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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

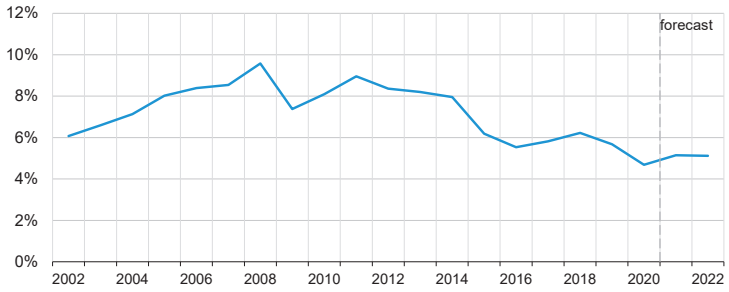


Components of annual change
million metric tons



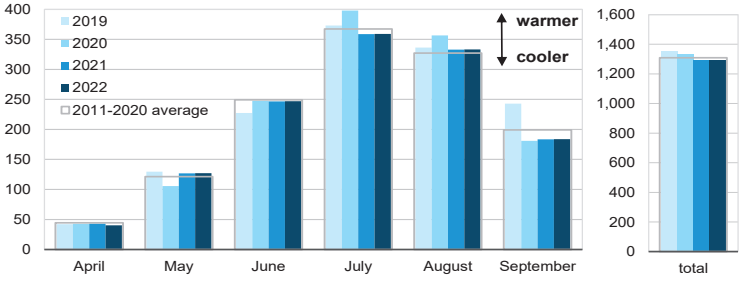
Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

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



Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

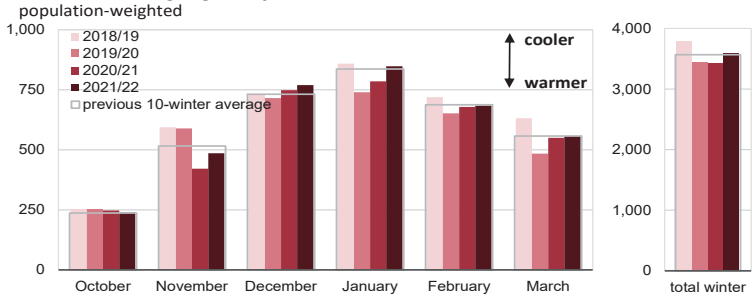
U.S. summer cooling degree days
population-weighted



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

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

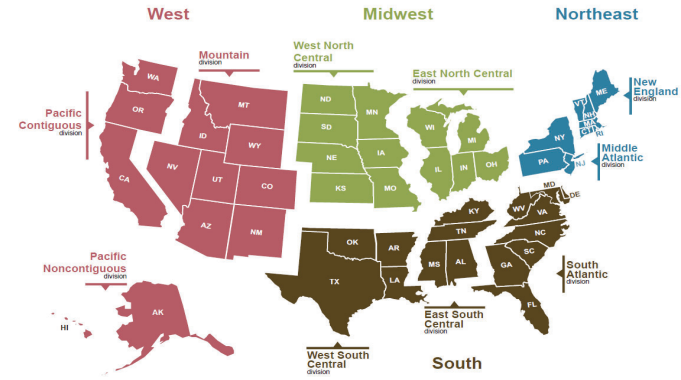
U.S. winter heating degree days
population-weighted



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

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2021

U.S. Census regions and divisions



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

Table 1. U.S. Energy Markets Summary

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Energy Supply															
Crude Oil Production (a)															
(million barrels per day)	**12.75**	**10.81**	**10.81**	**10.89**	*10.98*	*10.91*	*11.00*	*11.18*	*11.30*	*11.38*	*11.61*	*11.83*	**11.31**	*11.02*	*11.53*
Dry Natural Gas Production															
(billion cubic feet per day)	**94.79**	**89.68**	**89.82**	**90.89**	*90.88*	*90.17*	*90.40*	*90.54*	*89.95*	*90.18*	*91.41*	*92.26*	**91.29**	*90.50*	*90.96*
Coal Production															
(million short tons)	**149**	**115**	**136**	**139**	*149*	*148*	*150*	*143*	*157*	*144*	*151*	*142*	**539**	*589*	*594*
Energy Consumption															
Liquid Fuels															
(million barrels per day)	**19.33**	**16.08**	**18.36**	**18.54**	*18.83*	*19.24*	*19.75*	*19.91*	*19.95*	*20.45*	*20.69*	*20.63*	**18.08**	*19.43*	*20.43*
Natural Gas															
(billion cubic feet per day)	**99.31**	**70.83**	**76.87**	**86.28**	*98.94*	*70.07*	*72.60*	*85.46*	*97.49*	*69.19*	*72.63*	*84.96*	**83.31**	*81.71*	*81.01*
Coal (b)															
(million short tons)	**109**	**96**	**148**	**122**	*121*	*112*	*156*	*125*	*138*	*118*	*160*	*129*	**476**	*514*	*544*
Electricity															
(billion kilowatt hours per day)	**10.14**	**9.64**	**11.86**	**9.91**	*10.33*	*10.05*	*11.89*	*10.06*	*10.60*	*10.21*	*12.07*	*10.19*	**10.39**	*10.59*	*10.77*
Renewables (c)															
(quadrillion Btu)	**2.93**	**3.01**	**2.84**	**2.94**	*3.14*	*3.33*	*3.08*	*3.16*	*3.35*	*3.57*	*3.28*	*3.30*	**11.72**	*12.71*	*13.50*
Total Energy Consumption (d)															
(quadrillion Btu)	**25.12**	**20.66**	**23.45**	**23.52**	*24.61*	*22.28*	*23.68*	*24.20*	*25.39*	*23.02*	*24.24*	*24.62*	**92.74**	*94.78*	*97.27*
Energy Prices															
Crude Oil West Texas Intermediate Spot															
(dollars per barrel)	**45.34**	**27.96**	**40.89**	**42.50**	*52.69*	*50.32*	*49.00*	*49.00*	*50.37*	*51.85*	*52.00*	*52.00*	**39.17**	*50.21*	*51.56*
Natural Gas Henry Hub Spot															
(dollars per million Btu)	**1.91**	**1.71**	**2.00**	**2.53**	*2.85*	*2.88*	*2.99*	*3.08*	*3.29*	*3.22*	*3.24*	*3.33*	**2.03**	*2.95*	*3.27*
Coal															
(dollars per million Btu)	**1.93**	**1.91**	**1.91**	**1.94**	*2.07*	*2.07*	*2.04*	*2.05*	*2.07*	*2.08*	*2.06*	*2.07*	**1.93**	*2.05*	*2.07*
Macroeconomic															
Real Gross Domestic Product															
(billion chained 2012 dollars - SAAR)	**19,011**	**17,303**	**18,597**	**18,726**	*18,820*	*18,967*	*19,221*	*19,444*	*19,661*	*19,848*	*20,003*	*20,134*	**18,409**	*19,113*	*19,911*
Percent change from prior year	**0.3**	**-9.0**	**-2.8**	**-2.7**	*-1.0*	*9.6*	*3.4*	*3.8*	*4.5*	*4.6*	*4.1*	*3.5*	**-3.6**	*3.8*	*4.2*
GDP Implicit Price Deflator															
(Index, 2012=100)	**113.4**	**112.9**	**113.8**	**114.3**	*114.6*	*115.1*	*115.6*	*116.2*	*116.6*	*117.3*	*118.0*	*118.6*	**113.6**	*115.4*	*117.6*
Percent change from prior year	**1.7**	**0.6**	**1.1**	**1.2**	*1.1*	*2.0*	*1.6*	*1.6*	*1.8*	*1.9*	*2.0*	*2.1*	**1.1**	*1.6*	*1.9*
Real Disposable Personal Income															
(billion chained 2012 dollars - SAAR)	**15,061**	**16,630**	**15,905**	**15,573**	*16,312*	*15,524*	*15,435*	*15,418*	*15,531*	*15,591*	*15,669*	*15,744*	**15,792**	*15,672*	*15,634*
Percent change from prior year	**1.4**	**12.2**	**6.8**	**4.1**	*8.3*	*-6.6*	*-3.0*	*-1.0*	*-4.8*	*0.4*	*1.5*	*2.1*	**6.1**	*-0.8*	*-0.2*
Manufacturing Production Index															
(Index, 2012=100)	**104.4**	**89.3**	**99.9**	**102.6**	*104.1*	*104.3*	*104.9*	*106.0*	*107.5*	*108.8*	*109.6*	*110.3*	**99.1**	*104.8*	*109.1*
Percent change from prior year	**-2.0**	**-15.5**	**-5.6**	**-3.0**	*-0.2*	*16.7*	*5.0*	*3.3*	*3.2*	*4.4*	*4.5*	*4.0*	**-6.5**	*5.8*	*4.0*
Weather															
U.S. Heating Degree-Days	**1,876**	**540**	**71**	**1,417**	*2,014*	*470*	*70*	*1,494*	*2,090*	*476*	*70*	*1,492*	**3,903**	*4,048*	*4,128*
U.S. Cooling Degree-Days	**71**	**396**	**935**	**122**	*42*	*416*	*875*	*100*	*45*	*414*	*876*	*100*	**1,524**	*1,433*	*1,437*

(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 (MER).
Consequently, the historical data may not precisely match those published in the MER or the Annual Energy Review (AER).

(e) Refers to the refiner average acquisition cost (RAC) of crude oil.

- = no data available

Notes: EIA completed modeling and analysis for this report on February 2021.

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

Prices are not adjusted for inflation.

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.

Forecasts: EIA Short-Term Integrated Forecasting System. U.S. macroeconomic forecasts are based on the IHS Markit model of the U.S. Economy.

Weather forecasts from National Oceanic and Atmospheric Administration.

Table 2. Energy Prices

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Crude Oil (dollars per barrel)															
West Texas Intermediate Spot Average	**45.34**	**27.96**	**40.89**	**42.50**	*52.69*	*50.32*	*49.00*	*49.00*	*50.37*	*51.85*	*52.00*	*52.00*	**39.17**	*50.21*	*51.56*
Brent Spot Average	**49.97**	**29.52**	**42.97**	**44.34**	*55.62*	*53.32*	*52.00*	*52.00*	*53.37*	*55.35*	*56.00*	*56.00*	**41.69**	*53.20*	*55.19*
U.S. Imported Average	**43.76**	**26.33**	**39.90**	**40.53**	*50.67*	*48.32*	*47.00*	*47.00*	*48.13*	*49.58*	*49.50*	*49.50*	**37.24**	*48.09*	*49.23*
U.S. Refiner Average Acquisition Cost	**47.48**	**26.88**	**40.79**	**41.80**	*51.65*	*49.31*	*48.00*	*48.00*	*49.10*	*50.59*	*50.50*	*50.50*	**39.68**	*49.19*	*50.20*
U.S. Liquid Fuels (cents per gallon)															
Refiner Prices for Resale															
Gasoline	**153**	**104**	**137**	**134**	*167*	*173*	*165*	*153*	*153*	*173*	*176*	*164*	**133**	*164*	*167*
Diesel Fuel	**160**	**97**	**124**	**132**	*165*	*164*	*163*	*164*	*166*	*172*	*175*	*175*	**129**	*164*	*172*
Fuel Oil	**160**	**87**	**113**	**125**	*155*	*155*	*156*	*160*	*161*	*161*	*163*	*166*	**126**	*157*	*162*
Refiner Prices to End Users															
Jet Fuel	**165**	**85**	**116**	**123**	*155*	*156*	*157*	*159*	*165*	*170*	*172*	*173*	**131**	*157*	*170*
No. 6 Residual Fuel Oil (a)	**176**	**93**	**116**	**121**	*124*	*120*	*114*	*114*	*115*	*121*	*120*	*120*	**126**	*118*	*119*
Retail Prices Including Taxes															
Gasoline Regular Grade (b)	**241**	**194**	**218**	**215**	*244*	*254*	*245*	*235*	*228*	*252*	*255*	*246*	**218**	*244*	*246*
Gasoline All Grades (b)	**251**	**203**	**227**	**224**	*254*	*266*	*258*	*248*	*242*	*266*	*269*	*260*	**227**	*256*	*259*
On-highway Diesel Fuel	**289**	**243**	**243**	**246**	*272*	*268*	*269*	*273*	*272*	*273*	*280*	*282*	**255**	*270*	*277*
Heating Oil	**280**	**200**	**214**	**229**	*260*	*264*	*271*	*291*	*287*	*270*	*258*	*261*	**244**	*271*	*274*
Natural Gas															
Henry Hub Spot (dollars per thousand cubic feet)	**1.98**	**1.77**	**2.07**	**2.63**	*2.97*	*2.99*	*3.11*	*3.20*	*3.41*	*3.34*	*3.37*	*3.46*	**2.11**	*3.07*	*3.40*
Henry Hub Spot (dollars per million Btu)	**1.91**	**1.71**	**2.00**	**2.53**	*2.85*	*2.88*	*2.99*	*3.08*	*3.29*	*3.22*	*3.24*	*3.33*	**2.03**	*2.95*	*3.27*
U.S. Retail Prices (dollars per thousand cubic feet)															
Industrial Sector	**3.52**	**2.85**	**2.88**	**3.79**	*4.27*	*3.92*	*4.02*	*4.36*	*4.67*	*4.27*	*4.20*	*4.54*	**3.30**	*4.15*	*4.43*
Commercial Sector	**7.13**	**7.63**	**8.48**	**7.59**	*7.48*	*8.14*	*8.81*	*7.95*	*7.78*	*8.30*	*8.77*	*7.92*	**7.50**	*7.88*	*8.02*
Residential Sector	**9.46**	**11.89**	**17.62**	**10.76**	*9.93*	*12.72*	*17.35*	*10.71*	*9.76*	*12.72*	*17.57*	*10.90*	**10.88**	*11.05*	*11.07*
U.S. Electricity															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**1.93**	**1.91**	**1.91**	**1.94**	*2.07*	*2.07*	*2.04*	*2.05*	*2.07*	*2.08*	*2.06*	*2.07*	**1.93**	*2.05*	*2.07*
Natural Gas	**2.39**	**2.08**	**2.26**	**2.84**	*3.40*	*3.09*	*3.18*	*3.45*	*3.88*	*3.48*	*3.46*	*3.70*	**2.38**	*3.27*	*3.61*
Residual Fuel Oil (c)	**12.15**	**6.65**	**8.85**	**8.37**	*9.70*	*10.96*	*9.97*	*9.71*	*10.09*	*11.06*	*10.64*	*10.47*	**9.02**	*10.07*	*10.56*
Distillate Fuel Oil	**13.27**	**8.39**	**10.38**	**10.75**	*12.79*	*12.93*	*12.79*	*12.95*	*13.05*	*13.52*	*13.65*	*13.73*	**10.78**	*12.86*	*13.49*
Retail Prices (cents per kilowatthour)															
Industrial Sector	**6.37**	**6.63**	**7.09**	**6.51**	*6.37*	*6.69*	*7.10*	*6.53*	*6.41*	*6.71*	*7.12*	*6.54*	**6.66**	*6.68*	*6.70*
Commercial Sector	**10.33**	**10.63**	**10.97**	**10.53**	*10.30*	*10.78*	*11.24*	*10.76*	*10.46*	*10.92*	*11.35*	*10.84*	**10.63**	*10.79*	*10.91*
Residential Sector	**12.90**	**13.24**	**13.36**	**13.20**	*12.85*	*13.33*	*13.55*	*13.45*	*13.11*	*13.64*	*13.81*	*13.63*	**13.19**	*13.31*	*13.56*

(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.

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Prices are not adjusted for inflation; 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.

Natural gas Henry Hub and WTI crude oil spot prices from Reuter's News Service (http://www.reuters.com).

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

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Supply (million barrels per day) (a)															
OECD	**32.91**	**29.42**	**29.92**	**30.63**	*30.94*	*31.04*	*31.32*	*31.74*	*31.79*	*32.03*	*32.29*	*32.83*	**30.72**	*31.26*	*32.24*
U.S. (50 States)	**20.22**	**17.58**	**18.30**	**18.35**	*18.33*	*18.63*	*18.87*	*19.09*	*19.10*	*19.51*	*19.89*	*20.19*	**18.61**	*18.73*	*19.68*
Canada	**5.65**	**4.94**	**4.89**	**5.62**	*5.78*	*5.75*	*5.77*	*5.79*	*5.83*	*5.80*	*5.82*	*5.86*	**5.27**	*5.77*	*5.83*
Mexico	**2.00**	**1.94**	**1.91**	**1.90**	*1.86*	*1.84*	*1.81*	*1.79*	*1.75*	*1.71*	*1.66*	*1.65*	**1.94**	*1.83*	*1.69*
Other OECD	**5.03**	**4.96**	**4.81**	**4.76**	*4.96*	*4.81*	*4.87*	*5.07*	*5.10*	*5.02*	*4.92*	*5.14*	**4.89**	*4.93*	*5.04*
Non-OECD	**67.81**	**63.01**	**60.96**	**62.23**	*62.78*	*66.05*	*67.67*	*67.54*	*67.24*	*68.71*	*69.18*	*68.98*	**63.49**	*66.03*	*68.53*
OPEC	**33.49**	**30.59**	**28.45**	**29.81**	*30.01*	*32.16*	*33.39*	*33.44*	*33.50*	*33.42*	*33.47*	*33.50*	**30.58**	*32.26*	*33.47*
Crude Oil Portion	**28.28**	**25.64**	**23.61**	**24.88**	*24.97*	*27.10*	*28.23*	*28.26*	*28.19*	*28.19*	*28.21*	*28.23*	**25.59**	*27.15*	*28.20*
Other Liquids (b)	**5.21**	**4.95**	**4.84**	**4.93**	*5.05*	*5.05*	*5.15*	*5.19*	*5.32*	*5.23*	*5.25*	*5.28*	**4.98**	*5.11*	*5.27*
Eurasia	**14.76**	**13.20**	**12.74**	**13.15**	*13.35*	*13.61*	*13.73*	*13.83*	*14.01*	*14.77*	*14.87*	*14.96*	**13.46**	*13.63*	*14.66*
China	**4.96**	**4.91**	**4.95**	**4.90**	*4.92*	*4.95*	*4.95*	*4.99*	*4.94*	*4.97*	*4.97*	*5.01*	**4.93**	*4.95*	*4.97*
Other Non-OECD	**14.60**	**14.32**	**14.83**	**14.37**	*14.50*	*15.33*	*15.61*	*15.27*	*14.79*	*15.56*	*15.87*	*15.50*	**14.53**	*15.18*	*15.43*
Total World Supply	**100.71**	**92.44**	**90.88**	**92.86**	*93.72*	*97.09*	*98.99*	*99.28*	*99.02*	*100.74*	*101.47*	*101.81*	**94.21**	*97.29*	*100.77*
Non-OPEC Supply	**67.22**	**61.85**	**62.43**	**63.05**	*63.71*	*64.93*	*65.60*	*65.84*	*65.52*	*67.33*	*68.01*	*68.31*	**63.63**	*65.03*	*67.30*
Consumption (million barrels per day) (c)															
OECD	**45.26**	**37.37**	**42.07**	**42.89**	*43.50*	*43.62*	*44.83*	*45.30*	*45.58*	*45.46*	*46.50*	*46.71*	**41.90**	*44.32*	*46.07*
U.S. (50 States)	**19.33**	**16.08**	**18.36**	**18.54**	*18.83*	*19.24*	*19.75*	*19.91*	*19.95*	*20.45*	*20.69*	*20.63*	**18.08**	*19.43*	*20.43*
U.S. Territories	**0.16**	**0.14**	**0.15**	**0.15**	*0.16*	*0.15*	*0.15*	*0.16*	*0.17*	*0.15*	*0.15*	*0.16*	**0.15**	*0.16*	*0.16*
Canada	**2.33**	**1.88**	**2.16**	**2.12**	*2.16*	*2.16*	*2.26*	*2.26*	*2.28*	*2.23*	*2.33*	*2.32*	**2.12**	*2.21*	*2.29*
Europe	**13.34**	**10.98**	**12.83**	**12.66**	*12.61*	*12.99*	*13.48*	*13.31*	*13.23*	*13.48*	*14.05*	*13.85*	**12.46**	*13.10*	*13.65*
Japan	**3.69**	**2.89**	**3.03**	**3.38**	*3.60*	*3.00*	*3.08*	*3.39*	*3.63*	*2.98*	*3.06*	*3.37*	**3.25**	*3.27*	*3.26*
Other OECD	**6.41**	**5.41**	**5.55**	**6.03**	*6.12*	*6.08*	*6.12*	*6.27*	*6.32*	*6.18*	*6.22*	*6.38*	**5.85**	*6.15*	*6.28*
Non-OECD	**49.94**	**47.67**	**51.30**	**52.62**	*52.24*	*53.58*	*53.72*	*53.84*	*54.04*	*55.30*	*55.46*	*55.57*	**50.39**	*53.35*	*55.10*
Eurasia	**4.85**	**4.48**	**5.27**	**5.16**	*4.89*	*4.98*	*5.37*	*5.23*	*5.07*	*5.14*	*5.55*	*5.40*	**4.94**	*5.12*	*5.29*
Europe	**0.71**	**0.69**	**0.71**	**0.72**	*0.71*	*0.71*	*0.73*	*0.73*	*0.73*	*0.73*	*0.75*	*0.75*	**0.71**	*0.72*	*0.74*
China	**13.77**	**13.96**	**14.53**	**14.98**	*14.99*	*15.25*	*14.98*	*15.30*	*15.54*	*15.78*	*15.50*	*15.76*	**14.31**	*15.13*	*15.64*
Other Asia	**13.26**	**11.74**	**12.70**	**13.71**	*13.91*	*14.22*	*13.79*	*14.13*	*14.54*	*14.74*	*14.32*	*14.73*	**12.85**	*14.01*	*14.58*
Other Non-OECD	**17.36**	**16.80**	**18.09**	**18.04**	*17.74*	*18.41*	*18.85*	*18.45*	*18.15*	*18.90*	*19.34*	*18.93*	**17.57**	*18.36*	*18.83*
Total World Consumption	**95.20**	**85.04**	**93.37**	**95.51**	*95.74*	*97.20*	*98.55*	*99.14*	*99.61*	*100.77*	*101.96*	*102.29*	**92.29**	*97.67*	*101.17*
Total Crude Oil and Other Liquids Inventory Net Withdrawals (million barrels per day)															
U.S. (50 States)	**-0.43**	**-1.68**	**0.49**	**0.86**	*0.78*	*-0.19*	*-0.01*	*0.45*	*0.01*	*-0.51*	*0.06*	*0.42*	**-0.19**	*0.26*	*0.00*
Other OECD	**-0.54**	**-1.15**	**0.04**	**0.52**	*0.40*	*0.09*	*-0.14*	*-0.19*	*0.19*	*0.17*	*0.14*	*0.02*	**-0.28**	*0.04*	*0.13*
Other Stock Draws and Balance	**-4.54**	**-4.56**	**1.95**	**1.26**	*0.84*	*0.21*	*-0.29*	*-0.40*	*0.39*	*0.36*	*0.29*	*0.04*	**-1.46**	*0.08*	*0.27*
Total Stock Draw	**-5.51**	**-7.39**	**2.48**	**2.64**	*2.02*	*0.11*	*-0.44*	*-0.14*	*0.59*	*0.02*	*0.49*	*0.48*	**-1.92**	*0.38*	*0.40*
End-of-period Commercial Crude Oil and Other Liquids Inventories (million barrels)															
U.S. Commercial Inventory	**1,321**	**1,453**	**1,422**	**1,347**	*1,279*	*1,305*	*1,312*	*1,275*	*1,278*	*1,329*	*1,326*	*1,297*	**1,347**	*1,275*	*1,297*
OECD Commercial Inventory	**2,967**	**3,204**	**3,169**	**3,045**	*2,941*	*2,959*	*2,978*	*2,959*	*2,945*	*2,981*	*2,965*	*2,935*	**3,045**	*2,959*	*2,935*

(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.

- = 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, Lithuania, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

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

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
North America	**27.87**	**24.46**	**25.11**	**25.87**	*25.98*	*26.23*	*26.45*	*26.67*	*26.68*	*27.01*	*27.37*	*27.70*	**25.83**	*26.33*	*27.20*
Canada	**5.65**	**4.94**	**4.89**	**5.62**	*5.78*	*5.75*	*5.77*	*5.79*	*5.83*	*5.80*	*5.82*	*5.86*	**5.27**	*5.77*	*5.83*
Mexico	**2.00**	**1.94**	**1.91**	**1.90**	*1.86*	*1.84*	*1.81*	*1.79*	*1.75*	*1.71*	*1.66*	*1.65*	**1.94**	*1.83*	*1.69*
United States	**20.22**	**17.58**	**18.30**	**18.35**	*18.33*	*18.63*	*18.87*	*19.09*	*19.10*	*19.51*	*19.89*	*20.19*	**18.61**	*18.73*	*19.68*
Central and South America	**6.05**	**6.07**	**6.62**	**5.99**	*6.03*	*6.82*	*7.10*	*6.80*	*6.30*	*7.10*	*7.46*	*7.13*	**6.18**	*6.69*	*7.00*
Argentina	**0.69**	**0.58**	**0.57**	**0.55**	*0.64*	*0.68*	*0.67*	*0.67*	*0.73*	*0.70*	*0.69*	*0.69*	**0.60**	*0.66*	*0.70*
Brazil	**3.44**	**3.89**	**4.29**	**3.60**	*3.49*	*4.34*	*4.66*	*4.29*	*3.65*	*4.51*	*4.86*	*4.41*	**3.81**	*4.20*	*4.36*
Colombia	**0.90**	**0.78**	**0.77**	**0.83**	*0.87*	*0.78*	*0.75*	*0.80*	*0.84*	*0.75*	*0.72*	*0.77*	**0.82**	*0.80*	*0.77*
Ecuador	**0.54**	**0.36**	**0.52**	**0.52**	*0.53*	*0.53*	*0.52*	*0.53*	*0.54*	*0.54*	*0.53*	*0.53*	**0.48**	*0.53*	*0.53*
Other Central and S. America	**0.48**	**0.46**	**0.46**	**0.49**	*0.50*	*0.50*	*0.50*	*0.51*	*0.55*	*0.61*	*0.67*	*0.73*	**0.47**	*0.50*	*0.64*
Europe	**4.39**	**4.31**	**4.16**	**4.23**	*4.41*	*4.26*	*4.32*	*4.53*	*4.56*	*4.48*	*4.38*	*4.61*	**4.27**	*4.38*	*4.51*
Norway	**2.06**	**2.01**	**1.96**	**2.03**	*2.20*	*2.13*	*2.20*	*2.33*	*2.36*	*2.29*	*2.29*	*2.41*	**2.01**	*2.21*	*2.34*
United Kingdom	**1.17**	**1.16**	**1.03**	**1.04**	*1.05*	*0.99*	*0.98*	*1.04*	*1.05*	*1.04*	*0.93*	*1.03*	**1.10**	*1.01*	*1.01*
Eurasia	**14.76**	**13.20**	**12.74**	**13.15**	*13.35*	*13.61*	*13.73*	*13.83*	*14.01*	*14.77*	*14.87*	*14.96*	**13.46**	*13.63*	*14.66*
Azerbaijan	**0.77**	**0.70**	**0.67**	**0.69**	*0.70*	*0.73*	*0.74*	*0.75*	*0.76*	*0.79*	*0.79*	*0.79*	**0.71**	*0.73*	*0.78*
Kazakhstan	**2.06**	**1.86**	**1.71**	**1.81**	*1.83*	*1.87*	*1.88*	*1.89*	*1.92*	*1.99*	*1.99*	*2.01*	**1.86**	*1.87*	*1.98*
Russia	**11.55**	**10.25**	**9.98**	**10.26**	*10.46*	*10.64*	*10.74*	*10.82*	*10.99*	*11.63*	*11.75*	*11.81*	**10.51**	*10.67*	*11.55*
Turkmenistan	**0.24**	**0.24**	**0.24**	**0.25**	*0.24*	*0.24*	*0.24*	*0.24*	*0.23*	*0.23*	*0.23*	*0.23*	**0.24**	*0.24*	*0.23*
Other Eurasia	**0.15**	**0.15**	**0.15**	**0.14**	*0.13*	*0.13*	*0.13*	*0.13*	*0.12*	*0.12*	*0.12*	*0.12*	**0.15**	*0.13*	*0.12*
Middle East	**3.24**	**3.18**	**3.15**	**3.18**	*3.24*	*3.30*	*3.32*	*3.32*	*3.37*	*3.37*	*3.37*	*3.37*	**3.19**	*3.29*	*3.37*
Oman	**1.01**	**0.95**	**0.92**	**0.95**	*0.97*	*1.02*	*1.04*	*1.04*	*1.05*	*1.05*	*1.05*	*1.05*	**0.96**	*1.02*	*1.05*
Qatar	**2.06**	**2.06**	**2.06**	**2.06**	*2.10*	*2.10*	*2.10*	*2.10*	*2.12*	*2.12*	*2.12*	*2.12*	**2.06**	*2.10*	*2.12*
Asia and Oceania	**9.46**	**9.17**	**9.25**	**9.20**	*9.24*	*9.28*	*9.24*	*9.25*	*9.20*	*9.21*	*9.17*	*9.18*	**9.27**	*9.25*	*9.19*
Australia	**0.49**	**0.50**	**0.50**	**0.49**	*0.51*	*0.51*	*0.50*	*0.49*	*0.49*	*0.48*	*0.47*	*0.47*	**0.49**	*0.50*	*0.48*
China	**4.96**	**4.91**	**4.95**	**4.90**	*4.92*	*4.95*	*4.95*	*4.99*	*4.94*	*4.97*	*4.97*	*5.01*	**4.93**	*4.95*	*4.97*
India	**0.96**	**0.90**	**0.92**	**0.90**	*0.91*	*0.90*	*0.89*	*0.88*	*0.89*	*0.89*	*0.88*	*0.88*	**0.92**	*0.89*	*0.88*
Indonesia	**0.91**	**0.89**	**0.88**	**0.88**	*0.87*	*0.86*	*0.85*	*0.84*	*0.85*	*0.84*	*0.83*	*0.82*	**0.89**	*0.85*	*0.83*
Malaysia	**0.71**	**0.60**	**0.63**	**0.62**	*0.63*	*0.63*	*0.63*	*0.62*	*0.62*	*0.62*	*0.61*	*0.60*	**0.64**	*0.63*	*0.61*
Vietnam	**0.24**	**0.23**	**0.22**	**0.23**	*0.22*	*0.23*	*0.23*	*0.22*	*0.22*	*0.22*	*0.21*	*0.21*	**0.23**	*0.22*	*0.21*
Africa	**1.46**	**1.45**	**1.42**	**1.42**	*1.45*	*1.45*	*1.45*	*1.45*	*1.39*	*1.38*	*1.37*	*1.36*	**1.44**	*1.45*	*1.38*
Egypt	**0.62**	**0.61**	**0.59**	**0.58**	*0.62*	*0.62*	*0.62*	*0.62*	*0.57*	*0.57*	*0.57*	*0.57*	**0.60**	*0.62*	*0.57*
South Sudan	**0.15**	**0.15**	**0.17**	**0.17**	*0.17*	*0.17*	*0.18*	*0.18*	*0.18*	*0.18*	*0.18*	*0.18*	**0.16**	*0.17*	*0.18*
Total non-OPEC liquids	**67.22**	**61.85**	**62.43**	**63.05**	*63.71*	*64.93*	*65.60*	*65.84*	*65.52*	*67.33*	*68.01*	*68.31*	**63.63**	*65.03*	*67.30*
OPEC non-crude liquids	**5.21**	**4.95**	**4.84**	**4.93**	*5.05*	*5.05*	*5.15*	*5.19*	*5.32*	*5.23*	*5.25*	*5.28*	**4.98**	*5.11*	*5.27*
Non-OPEC + OPEC non-crude	**72.43**	**66.80**	**67.28**	**67.98**	*68.75*	*69.98*	*70.76*	*71.02*	*70.84*	*72.55*	*73.26*	*73.58*	**68.62**	*70.14*	*72.57*
Unplanned non-OPEC Production Outages	**0.18**	**0.90**	**0.69**	**0.52**	-	-	-	-	-	-	-	-	**0.57**	-	-

- = no data available

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

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Crude Oil															
Algeria	**1.02**	**0.90**	**0.84**	**0.86**	-	-	-	-	-	-	-	-	**0.90**	-	-
Angola	**1.36**	**1.26**	**1.17**	**1.12**	-	-	-	-	-	-	-	-	**1.23**	-	-
Congo (Brazzaville)	**0.29**	**0.29**	**0.28**	**0.26**	-	-	-	-	-	-	-	-	**0.28**	-	-
Equatorial Guinea	**0.13**	**0.12**	**0.11**	**0.11**	-	-	-	-	-	-	-	-	**0.11**	-	-
Gabon	**0.19**	**0.18**	**0.15**	**0.17**	-	-	-	-	-	-	-	-	**0.17**	-	-
Iran	**2.02**	**1.97**	**1.90**	**1.95**	-	-	-	-	-	-	-	-	**1.96**	-	-
Iraq	**4.56**	**4.16**	**3.70**	**3.84**	-	-	-	-	-	-	-	-	**4.06**	-	-
Kuwait	**2.77**	**2.48**	**2.25**	**2.30**	-	-	-	-	-	-	-	-	**2.45**	-	-
Libya	**0.35**	**0.08**	**0.11**	**0.92**	-	-	-	-	-	-	-	-	**0.37**	-	-
Nigeria	**1.72**	**1.55**	**1.44**	**1.44**	-	-	-	-	-	-	-	-	**1.54**	-	-
Saudi Arabia	**9.80**	**9.28**	**8.77**	**9.01**	-	-	-	-	-	-	-	-	**9.21**	-	-
United Arab Emirates	**3.30**	**2.88**	**2.55**	**2.50**	-	-	-	-	-	-	-	-	**2.81**	-	-
Venezuela	**0.77**	**0.50**	**0.35**	**0.40**	-	-	-	-	-	-	-	-	**0.50**	-	-
OPEC Total	**28.28**	**25.64**	**23.61**	**24.88**	*24.97*	*27.10*	*28.23*	*28.26*	*28.19*	*28.19*	*28.21*	*28.23*	**25.59**	*27.15*	*28.20*
Other Liquids (a)	**5.21**	**4.95**	**4.84**	**4.93**	*5.05*	*5.05*	*5.15*	*5.19*	*5.32*	*5.23*	*5.25*	*5.28*	**4.98**	*5.11*	*5.27*
Total OPEC Supply	**33.49**	**30.59**	**28.45**	**29.81**	*30.01*	*32.16*	*33.39*	*33.44*	*33.50*	*33.42*	*33.47*	*33.50*	**30.58**	*32.26*	*33.47*
Crude Oil Production Capacity															
Middle East	**25.61**	**26.02**	**26.06**	**26.22**	*26.38*	*26.39*	*26.38*	*26.38*	*26.38*	*26.39*	*26.39*	*26.39*	**25.98**	*26.38*	*26.39*
Other	**5.82**	**5.60**	**5.48**	**6.34**	*5.83*	*6.05*	*6.06*	*6.05*	*5.97*	*5.97*	*5.99*	*6.01*	**5.81**	*6.00*	*5.98*
OPEC Total	**31.43**	**31.63**	**31.54**	**32.56**	*32.21*	*32.44*	*32.44*	*32.43*	*32.35*	*32.36*	*32.38*	*32.40*	**31.79**	*32.38*	*32.37*
Surplus Crude Oil Production Capacity															
Middle East	**3.15**	**5.27**	**6.90**	**6.62**	*7.08*	*5.22*	*4.11*	*4.08*	*4.08*	*4.09*	*4.09*	*4.09*	**5.49**	*5.11*	*4.09*
Other	**0.00**	**0.72**	**1.04**	**1.07**	*0.16*	*0.12*	*0.09*	*0.09*	*0.08*	*0.08*	*0.08*	*0.08*	**0.71**	*0.11*	*0.08*
OPEC Total	**3.15**	**5.99**	**7.94**	**7.68**	*7.24*	*5.34*	*4.20*	*4.17*	*4.16*	*4.17*	*4.17*	*4.18*	**6.20**	*5.23*	*4.17*
Unplanned OPEC Production Outages	**3.72**	**4.18**	**4.35**	**3.44**	-	-	-	-	-	-	-	-	**3.92**	-	-

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

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

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Forecasts are not published for individual OPEC countries.

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

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

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022						
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
North America	**23.64**	**19.44**	**22.12**	**22.47**	*22.84*	*23.28*	*23.89*	*24.06*	*24.12*	*24.59*	*24.92*	*24.86*	**21.92**	*23.52*	*24.63*
Canada	**2.33**	**1.88**	**2.16**	**2.12**	*2.16*	*2.16*	*2.26*	*2.26*	*2.28*	*2.23*	*2.33*	*2.32*	**2.12**	*2.21*	*2.29*
Mexico	**1.97**	**1.48**	**1.59**	**1.80**	*1.83*	*1.87*	*1.87*	*1.88*	*1.88*	*1.90*	*1.89*	*1.90*	**1.71**	*1.86*	*1.89*
United States	**19.33**	**16.08**	**18.36**	**18.54**	*18.83*	*19.24*	*19.75*	*19.91*	*19.95*	*20.45*	*20.69*	*20.63*	**18.08**	*19.43*	*20.43*
Central and South America	**6.20**	**5.68**	**6.11**	**6.36**	*6.30*	*6.49*	*6.62*	*6.64*	*6.43*	*6.60*	*6.74*	*6.75*	**6.09**	*6.52*	*6.63*
Brazil	**2.88**	**2.66**	**2.96**	**3.05**	*2.96*	*3.06*	*3.15*	*3.16*	*3.04*	*3.12*	*3.23*	*3.24*	**2.89**	*3.08*	*3.16*
Europe	**14.05**	**11.68**	**13.55**	**13.38**	*13.33*	*13.71*	*14.21*	*14.05*	*13.96*	*14.21*	*14.80*	*14.60*	**13.17**	*13.82*	*14.40*
Eurasia	**4.85**	**4.48**	**5.27**	**5.16**	*4.89*	*4.98*	*5.37*	*5.23*	*5.07*	*5.14*	*5.55*	*5.40*	**4.94**	*5.12*	*5.29*
Russia	**3.65**	**3.33**	**4.04**	**3.92**	*3.68*	*3.80*	*4.12*	*3.97*	*3.83*	*3.93*	*4.27*	*4.12*	**3.73**	*3.89*	*4.04*
Middle East	**7.66**	**7.59**	**8.47**	**8.03**	*7.76*	*8.21*	*8.61*	*7.99*	*7.94*	*8.50*	*8.90*	*8.27*	**7.94**	*8.14*	*8.40*
Asia and Oceania	**34.60**	**32.11**	**33.76**	**35.80**	*36.28*	*36.15*	*35.56*	*36.70*	*37.62*	*37.25*	*36.66*	*37.82*	**34.07**	*36.17*	*37.34*
China	**13.77**	**13.96**	**14.53**	**14.98**	*14.99*	*15.25*	*14.98*	*15.30*	*15.54*	*15.78*	*15.50*	*15.76*	**14.31**	*15.13*	*15.64*
Japan	**3.69**	**2.89**	**3.03**	**3.38**	*3.60*	*3.00*	*3.08*	*3.39*	*3.63*	*2.98*	*3.06*	*3.37*	**3.25**	*3.27*	*3.26*
India	**4.63**	**3.77**	**4.17**	**4.93**	*4.93*	*4.97*	*4.63*	*4.89*	*5.10*	*5.17*	*4.82*	*5.14*	**4.37**	*4.85*	*5.06*
Africa	**4.19**	**4.07**	**4.09**	**4.31**	*4.34*	*4.37*	*4.29*	*4.48*	*4.47*	*4.47*	*4.40*	*4.58*	**4.16**	*4.37*	*4.48*
Total OECD Liquid Fuels Consumption	**45.26**	**37.37**	**42.07**	**42.89**	*43.50*	*43.62*	*44.83*	*45.30*	*45.58*	*45.46*	*46.50*	*46.71*	**41.90**	*44.32*	*46.07*
Total non-OECD Liquid Fuels Consumption	**49.94**	**47.67**	**51.30**	**52.62**	*52.24*	*53.58*	*53.72*	*53.84*	*54.04*	*55.30*	*55.46*	*55.57*	**50.39**	*53.35*	*55.10*
Total World Liquid Fuels Consumption	**95.20**	**85.04**	**93.37**	**95.51**	*95.74*	*97.20*	*98.55*	*99.14*	*99.61*	*100.77*	*101.96*	*102.29*	**92.29**	*97.67*	*101.17*
Real Gross Domestic Product (a)															
World Index, 2015 Q1 = 100	**109.9**	**107.2**	**111.9**	**112.5**	*114.7*	*115.7*	*116.8*	*117.6*	*120.4*	*121.1*	*121.7*	*122.3*	**110.4**	*116.2*	*121.4*
Percent change from prior year	**-3.6**	**-6.4**	**-2.7**	**-2.5**	*4.4*	*7.9*	*4.3*	*4.5*	*5.0*	*4.7*	*4.3*	*4.0*	**-3.8**	*5.3*	*4.5*
OECD Index, 2015 = 100													**103.4**	*107.5*	*111.7*
Percent change from prior year													**-4.9**	*3.9*	*3.9*
Non-OECD Index, 2015 = 100													**115.3**	*122.4*	*128.4*
Percent change from prior year													**-2.7**	*6.2*	*4.9*
Real U.S. Dollar Exchange Rate (b)															
Index, 2015 Q1 = 100	**106.5**	**108.2**	**106.9**	**105.5**	*103.7*	*103.6*	*103.3*	*103.0*	*102.6*	*102.7*	*102.5*	*102.4*	**106.8**	*103.4*	*102.6*
Percent change from prior year	**0.9**	**2.0**	**0.3**	**-0.8**	*-2.6*	*-4.3*	*-3.3*	*-2.3*	*-1.0*	*-0.8*	*-0.8*	*-0.6*	**0.6**	*-3.2*	*-0.8*

(a) GDP values for the individual countries in the indexes are converted to U.S. dollars at purchasing power parity and then summed to create values for the world, OECD, and non-OECD. GDP data are from Oxford Economics.

(b) 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. Exchange rate data are from Oxford Economics, and oil consumption data are from EIA.

- = 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, Lithuania, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

Notes: EIA completed modeling and analysis for this report on .

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 4a. U.S. Petroleum and Other Liquids Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Supply (million barrels per day)															
Crude Oil Supply															
Domestic Production (a)	**12.75**	**10.81**	**10.81**	**10.89**	*10.98*	*10.91*	*11.00*	*11.18*	*11.30*	*11.38*	*11.61*	*11.83*	**11.31**	*11.02*	*11.53*
Alaska	**0.48**	**0.41**	**0.44**	**0.47**	*0.46*	*0.38*	*0.41*	*0.44*	*0.43*	*0.36*	*0.40*	*0.41*	**0.45**	*0.42*	*0.40*
Federal Gulf of Mexico (b)	**1.96**	**1.69**	**1.45**	**1.49**	*1.71*	*1.69*	*1.61*	*1.63*	*1.69*	*1.68*	*1.64*	*1.67*	**1.65**	*1.66*	*1.67*
Lower 48 States (excl GOM)	**10.31**	**8.71**	**8.92**	**8.93**	*8.81*	*8.83*	*8.98*	*9.11*	*9.18*	*9.34*	*9.57*	*9.75*	**9.22**	*8.93*	*9.46*
Crude Oil Net Imports (c)	**2.90**	**3.08**	**2.31**	**2.54**	*3.10*	*3.65*	*4.21*	*3.80*	*3.77*	*4.91*	*4.86*	*4.09*	**2.71**	*3.69*	*4.41*
SPR Net Withdrawals	**0.00**	**-0.23**	**0.15**	**0.04**	*0.03*	*0.10*	*0.07*	*0.05*	*0.05*	*0.05*	*0.03*	*0.11*	**-0.01**	*0.06*	*0.06*
Commercial Inventory Net Withdrawals	**-0.55**	**-0.54**	**0.38**	**0.13**	*0.06*	*0.11*	*0.22*	*-0.01*	*-0.26*	*0.01*	*0.27*	*-0.02*	**-0.14**	*0.09*	*0.00*
Crude Oil Adjustment (d)	**0.67**	**0.03**	**0.38**	**0.34**	*0.27*	*0.22*	*0.23*	*0.16*	*0.22*	*0.22*	*0.23*	*0.16*	**0.35**	*0.22*	*0.21*
Total Crude Oil Input to Refineries	**15.77**	**13.16**	**14.03**	**13.93**	*14.44*	*14.98*	*15.72*	*15.18*	*15.09*	*16.56*	*16.99*	*16.16*	**14.22**	*15.08*	*16.20*
Other Supply															
Refinery Processing Gain	**1.02**	**0.82**	**0.94**	**0.98**	*1.01*	*1.06*	*1.06*	*1.04*	*1.05*	*1.09*	*1.13*	*1.13*	**0.94**	*1.04*	*1.10*
Natural Gas Plant Liquids Production	**5.12**	**4.96**	**5.33**	**5.23**	*5.11*	*5.40*	*5.49*	*5.54*	*5.44*	*5.71*	*5.80*	*5.87*	**5.16**	*5.39*	*5.70*
Renewables and Oxygenate Production (e)	**1.11**	**0.80**	**1.03**	**1.07**	*1.04*	*1.06*	*1.11*	*1.11*	*1.10*	*1.12*	*1.13*	*1.14*	**1.00**	*1.08*	*1.12*
Fuel Ethanol Production	**1.02**	**0.70**	**0.92**	**0.97**	*0.94*	*0.96*	*1.00*	*1.01*	*1.00*	*1.01*	*1.02*	*1.03*	**0.90**	*0.98*	*1.01*
Petroleum Products Adjustment (f)	**0.22**	**0.19**	**0.20**	**0.20**	*0.20*	*0.21*	*0.21*	*0.21*	*0.20*	*0.22*	*0.22*	*0.22*	**0.20**	*0.21*	*0.22*
Product Net Imports (c)	**-4.03**	**-2.94**	**-3.12**	**-3.55**	*-3.65*	*-3.07*	*-3.55*	*-3.59*	*-3.16*	*-3.67*	*-4.34*	*-4.23*	**-3.41**	*-3.47*	*-3.85*
Hydrocarbon Gas Liquids	**-1.99**	**-1.86**	**-1.86**	**-2.07**	*-2.29*	*-2.24*	*-2.23*	*-2.18*	*-2.13*	*-2.28*	*-2.29*	*-2.23*	**-1.95**	*-2.24*	*-2.23*
Unfinished Oils	**0.31**	**0.25**	**0.34**	**0.33**	*0.38*	*0.46*	*0.44*	*0.30*	*0.20*	*0.26*	*0.30*	*0.20*	**0.31**	*0.39*	*0.24*
Other HC/Oxygenates	**-0.10**	**-0.05**	**-0.04**	**-0.05**	*-0.11*	*-0.09*	*-0.09*	*-0.10*	*-0.11*	*-0.09*	*-0.09*	*-0.10*	**-0.06**	*-0.09*	*-0.10*
Motor Gasoline Blend Comp.	**0.39**	**0.36**	**0.48**	**0.36**	*0.26*	*0.64*	*0.51*	*0.15*	*0.53*	*0.75*	*0.43*	*0.22*	**0.40**	*0.39*	*0.48*
Finished Motor Gasoline	**-0.72**	**-0.40**	**-0.58**	**-0.75**	*-0.66*	*-0.71*	*-0.72*	*-0.56*	*-0.70*	*-0.67*	*-0.76*	*-0.72*	**-0.61**	*-0.66*	*-0.71*
Jet Fuel	**-0.07**	**0.09**	**0.12**	**0.05**	*-0.07*	*-0.06*	*0.00*	*-0.01*	*0.05*	*0.09*	*0.11*	*0.17*	**0.05**	*-0.03*	*0.10*
Distillate Fuel Oil	**-1.19**	**-0.86**	**-1.15**	**-0.85**	*-0.60*	*-0.63*	*-0.89*	*-0.64*	*-0.53*	*-1.04*	*-1.33*	*-1.19*	**-1.01**	*-0.69*	*-1.03*
Residual Fuel Oil	**-0.02**	**0.02**	**0.05**	**0.05**	*0.03*	*-0.02*	*0.00*	*0.06*	*-0.02*	*-0.07*	*-0.06*	*0.05*	**0.02**	*0.02*	*-0.03*
Other Oils (g)	**-0.65**	**-0.49**	**-0.49**	**-0.61**	*-0.60*	*-0.42*	*-0.55*	*-0.62*	*-0.46*	*-0.62*	*-0.65*	*-0.63*	**-0.56**	*-0.55*	*-0.59*
Product Inventory Net Withdrawals	**0.12**	**-0.91**	**-0.04**	**0.69**	*0.69*	*-0.40*	*-0.29*	*0.41*	*0.22*	*-0.56*	*-0.24*	*0.33*	**-0.03**	*0.10*	*-0.06*
Total Supply	**19.33**	**16.08**	**18.36**	**18.54**	*18.83*	*19.24*	*19.75*	*19.91*	*19.95*	*20.45*	*20.69*	*20.63*	**18.08**	*19.43*	*20.43*
Consumption (million barrels per day)															
Hydrocarbon Gas Liquids	**3.31**	**2.83**	**2.95**	**3.60**	*3.56*	*3.08*	*3.11*	*3.52*	*3.66*	*3.30*	*3.37*	*3.78*	**3.17**	*3.32*	*3.53*
Unfinished Oils	**0.14**	**0.11**	**0.01**	**0.00**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	**0.06**	*0.00*	*0.00*
Motor Gasoline	**8.49**	**7.11**	**8.50**	**8.07**	*8.11*	*8.67*	*8.91*	*8.79*	*8.52*	*9.16*	*9.17*	*8.88*	**8.04**	*8.62*	*8.93*
Fuel Ethanol blended into Motor Gasoline	**0.85**	**0.72**	**0.87**	**0.85**	*0.82*	*0.88*	*0.92*	*0.90*	*0.87*	*0.93*	*0.93*	*0.92*	**0.82**	*0.88*	*0.91*
Jet Fuel	**1.56**	**0.69**	**0.97**	**1.08**	*1.22*	*1.38*	*1.50*	*1.47*	*1.57*	*1.70*	*1.77*	*1.77*	**1.08**	*1.39*	*1.70*
Distillate Fuel Oil	**3.97**	**3.51**	**3.70**	**3.85**	*4.04*	*3.95*	*3.88*	*4.06*	*4.21*	*4.10*	*4.00*	*4.07*	**3.76**	*3.98*	*4.09*
Residual Fuel Oil	**0.17**	**0.15**	**0.32**	**0.23**	*0.22*	*0.23*	*0.28*	*0.25*	*0.23*	*0.21*	*0.25*	*0.26*	**0.22**	*0.24*	*0.24*
Other Oils (g)	**1.68**	**1.68**	**1.91**	**1.71**	*1.68*	*1.93*	*2.07*	*1.81*	*1.76*	*1.99*	*2.14*	*1.86*	**1.75**	*1.87*	*1.94*
Total Consumption	**19.33**	**16.08**	**18.36**	**18.54**	*18.83*	*19.24*	*19.75*	*19.91*	*19.95*	*20.45*	*20.69*	*20.63*	**18.08**	*19.43*	*20.43*
Total Petroleum and Other Liquids Net Imports	**-1.13**	**0.14**	**-0.81**	**-1.01**	*-0.55*	*0.58*	*0.66*	*0.21*	*0.62*	*1.24*	*0.52*	*-0.15*	**-0.70**	*0.23*	*0.55*
End-of-period Inventories (million barrels)															
Commercial Inventory															
Crude Oil (excluding SPR)	**482.5**	**531.9**	**497.3**	**485.5**	*480.2*	*470.2*	*450.2*	*451.4*	*474.4*	*473.5*	*448.4*	*450.0*	**485.5**	*451.4*	*450.0*
Hydrocarbon Gas Liquids	**180.8**	**233.9**	**299.1**	**233.0**	*159.2*	*201.7*	*239.8*	*199.1*	*162.4*	*209.9*	*248.1*	*207.3*	**233.0**	*199.1*	*207.3*
Unfinished Oils	**100.1**	**91.9**	**81.4**	**78.5**	*91.2*	*90.7*	*90.1*	*83.0*	*92.9*	*90.8*	*89.9*	*83.2*	**78.5**	*83.0*	*83.2*
Other HC/Oxygenates	**33.6**	**26.2**	**25.2**	**28.6**	*29.7*	*28.5*	*28.3*	*28.6*	*30.7*	*29.5*	*29.2*	*29.4*	**28.6**	*28.6*	*29.4*
Total Motor Gasoline	**260.8**	**253.3**	**226.5**	**241.1**	*235.6*	*232.6*	*226.4*	*234.3*	*242.2*	*245.4*	*233.2*	*249.4*	**241.1**	*234.3*	*249.4*
Finished Motor Gasoline	**22.6**	**23.5**	**22.4**	**25.3**	*21.3*	*23.2*	*22.1*	*24.4*	*24.2*	*23.8*	*23.1*	*26.1*	**25.3**	*24.4*	*26.1*
Motor Gasoline Blend Comp.	**238.3**	**229.8**	**204.1**	**215.8**	*214.3*	*209.4*	*204.3*	*209.9*	*218.0*	*221.6*	*210.1*	*223.2*	**215.8**	*209.9*	*223.2*
Jet Fuel	**39.9**	**41.5**	**40.1**	**38.8**	*41.3*	*41.9*	*43.8*	*40.6*	*40.0*	*40.8*	*43.1*	*40.0*	**38.8**	*40.6*	*40.0*
Distillate Fuel Oil	**126.7**	**175.4**	**171.7**	**158.4**	*149.1*	*146.7*	*148.6*	*150.2*	*139.5*	*144.1*	*150.8*	*151.5*	**158.4**	*150.2*	*151.5*
Residual Fuel Oil	**34.4**	**39.6**	**32.1**	**30.2**	*32.5*	*33.6*	*31.6*	*32.7*	*32.2*	*33.0*	*31.2*	*32.7*	**30.2**	*32.7*	*32.7*
Other Oils (g)	**62.0**	**59.2**	**48.6**	**52.5**	*60.1*	*58.8*	*53.0*	*55.1*	*64.0*	*61.7*	*52.3*	*53.6*	**52.5**	*55.1*	*53.6*
Total Commercial Inventory	**1320.8**	**1452.8**	**1422.0**	**1346.5**	*1278.8*	*1304.8*	*1311.8*	*1275.0*	*1278.3*	*1328.7*	*1326.1*	*1297.0*	**1346.5**	*1275.0*	*1297.0*
Crude Oil in SPR	**635.0**	**656.0**	**642.2**	**638.1**	*635.4*	*626.7*	*620.4*	*616.1*	*611.8*	*607.6*	*604.9*	*595.2*	**638.1**	*616.1*	*595.2*

(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

- = no data available

SPR: Strategic Petroleum Reserve

HC: Hydrocarbons

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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; and *Weekly Petroleum Status Report* , DOE/EIA-0208.

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

Forecasts: EIA Short-Term Integrated Forecasting System.

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 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
HGL Production															
Natural Gas Processing Plants															
Ethane	**1.93**	**1.92**	**2.14**	**2.08**	*2.00*	*2.22*	*2.26*	*2.35*	*2.38*	*2.54*	*2.57*	*2.65*	**2.02**	*2.21*	*2.54*
Propane	**1.72**	**1.61**	**1.68**	**1.70**	*1.69*	*1.70*	*1.71*	*1.70*	*1.64*	*1.68*	*1.71*	*1.72*	**1.68**	*1.70*	*1.69*
Butanes	**0.91**	**0.86**	**0.90**	**0.89**	*0.87*	*0.89*	*0.91*	*0.91*	*0.87*	*0.90*	*0.91*	*0.92*	**0.89**	*0.89*	*0.90*
Natural Gasoline (Pentanes Plus)	**0.56**	**0.57**	**0.62**	**0.56**	*0.55*	*0.59*	*0.61*	*0.58*	*0.54*	*0.58*	*0.61*	*0.58*	**0.58**	*0.58*	*0.58*
Refinery and Blender Net Production															
Ethane/Ethylene	**0.01**	**0.01**	**0.01**	**0.01**	*0.00*	*0.00*	*0.01*	*0.00*	*0.00*	*0.01*	*0.01*	*0.01*	**0.01**	*0.00*	*0.01*
Propane	**0.29**	**0.24**	**0.27**	**0.29**	*0.27*	*0.30*	*0.30*	*0.30*	*0.31*	*0.33*	*0.33*	*0.32*	**0.27**	*0.29*	*0.32*
Propylene (refinery-grade)	**0.25**	**0.26**	**0.26**	**0.28**	*0.27*	*0.28*	*0.28*	*0.28*	*0.28*	*0.28*	*0.28*	*0.28*	**0.26**	*0.28*	*0.28*
Butanes/Butylenes	**-0.08**	**0.18**	**0.13**	**-0.21**	*-0.09*	*0.26*	*0.18*	*-0.20*	*-0.08*	*0.26*	*0.19*	*-0.20*	**0.01**	*0.04*	*0.04*
Renewable Fuels and Oxygenate Plant Net Production															
Natural Gasoline (Pentanes Plus)	**-0.02**	**-0.01**	**-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	**-0.30**	**-0.28**	**-0.27**	**-0.30**	*-0.37*	*-0.37*	*-0.38*	*-0.40*	*-0.44*	*-0.45*	*-0.45*	*-0.46*	**-0.28**	*-0.38*	*-0.45*
Propane/Propylene	**-1.12**	**-1.08**	**-1.08**	**-1.23**	*-1.13*	*-1.15*	*-1.14*	*-1.13*	*-1.05*	*-1.16*	*-1.15*	*-1.15*	**-1.13**	*-1.14*	*-1.13*
Butanes/Butylenes	**-0.30**	**-0.31**	**-0.36**	**-0.34**	*-0.40*	*-0.39*	*-0.39*	*-0.33*	*-0.33*	*-0.38*	*-0.38*	*-0.33*	**-0.33**	*-0.38*	*-0.35*
Natural Gasoline (Pentanes Plus)	**-0.27**	**-0.19**	**-0.16**	**-0.21**	*-0.38*	*-0.33*	*-0.32*	*-0.31*	*-0.32*	*-0.30*	*-0.31*	*-0.29*	**-0.21**	*-0.34*	*-0.30*
HGL Refinery and Blender Net Inputs															
Butanes/Butylenes	**0.46**	**0.25**	**0.32**	**0.49**	*0.39*	*0.26*	*0.31*	*0.49*	*0.39*	*0.29*	*0.32*	*0.50*	**0.38**	*0.36*	*0.37*
Natural Gasoline (Pentanes Plus)	**0.15**	**0.10**	**0.15**	**0.13**	*0.13*	*0.17*	*0.17*	*0.16*	*0.17*	*0.18*	*0.19*	*0.18*	**0.13**	*0.16*	*0.18*
HGL Consumption															
Ethane/Ethylene	**1.70**	**1.65**	**1.66**	**1.78**	*1.89*	*1.87*	*1.89*	*1.93*	*1.95*	*2.07*	*2.12*	*2.17*	**1.70**	*1.90*	*2.08*
Propane	**1.09**	**0.59**	**0.58**	**1.06**	*1.14*	*0.61*	*0.62*	*0.99*	*1.16*	*0.62*	*0.64*	*1.01*	**0.83**	*0.84*	*0.86*
Propylene (refinery-grade)	**0.26**	**0.27**	**0.27**	**0.29**	*0.29*	*0.30*	*0.29*	*0.29*	*0.30*	*0.30*	*0.30*	*0.29*	**0.28**	*0.29*	*0.30*
Butanes/Butylenes	**0.17**	**0.20**	**0.17**	**0.23**	*0.18*	*0.23*	*0.21*	*0.21*	*0.19*	*0.23*	*0.21*	*0.21*	**0.19**	*0.21*	*0.21*
Natural Gasoline (Pentanes Plus)	**0.09**	**0.13**	**0.26**	**0.24**	*0.07*	*0.08*	*0.11*	*0.10*	*0.08*	*0.08*	*0.09*	*0.10*	**0.18**	*0.09*	*0.09*
HGL Inventories (million barrels)															
Ethane	**52.6**	**49.5**	**62.5**	**75.9**	*55.3*	*48.9*	*48.2*	*51.5*	*50.9*	*53.9*	*53.4*	*56.1*	**60.2**	*51.0*	*53.6*
Propane	**60.3**	**75.3**	**100.7**	**71.3**	*41.8*	*61.7*	*82.5*	*70.5*	*46.4*	*66.6*	*87.0*	*74.5*	**71.3**	*70.5*	*74.5*
Propylene (at refineries only)	**1.4**	**1.5**	**1.5**	**1.4**	*1.4*	*1.8*	*2.2*	*2.6*	*2.6*	*2.8*	*3.0*	*3.6*	**1.4**	*2.6*	*3.6*
Butanes/Butylenes	**43.6**	**69.3**	**86.0**	**51.8**	*34.5*	*58.7*	*76.1*	*46.5*	*36.5*	*60.6*	*78.3*	*48.8*	**51.8**	*46.5*	*48.8*
Natural Gasoline (Pentanes Plus)	**24.0**	**35.7**	**38.6**	**35.9**	*31.7*	*30.8*	*30.0*	*28.2*	*25.1*	*25.6*	*25.9*	*24.7*	**35.9**	*28.2*	*24.7*
Refinery and Blender Net Inputs															
Crude Oil	**15.77**	**13.16**	**14.03**	**13.93**	*14.44*	*14.98*	*15.72*	*15.18*	*15.09*	*16.56*	*16.99*	*16.16*	**14.22**	*15.08*	*16.20*
Hydrocarbon Gas Liquids	**0.61**	**0.35**	**0.47**	**0.62**	*0.53*	*0.43*	*0.48*	*0.65*	*0.55*	*0.47*	*0.51*	*0.69*	**0.51**	*0.52*	*0.55*
Other Hydrocarbons/Oxygenates	**1.12**	**0.95**	**1.11**	**1.07**	*1.08*	*1.14*	*1.17*	*1.16*	*1.14*	*1.20*	*1.19*	*1.18*	**1.06**	*1.14*	*1.18*
Unfinished Oils	**0.05**	**0.23**	**0.44**	**0.36**	*0.24*	*0.46*	*0.44*	*0.37*	*0.09*	*0.28*	*0.31*	*0.27*	**0.27**	*0.38*	*0.24*
Motor Gasoline Blend Components	**0.41**	**0.48**	**0.85**	**0.38**	*0.42*	*0.83*	*0.66*	*0.26*	*0.56*	*0.81*	*0.65*	*0.30*	**0.53**	*0.54*	*0.58*
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	**17.97**	**15.17**	**16.90**	**16.36**	*16.70*	*17.84*	*18.48*	*17.62*	*17.44*	*19.31*	*19.66*	*18.60*	**16.60**	*17.66*	*18.76*
Refinery Processing Gain	**1.02**	**0.82**	**0.94**	**0.98**	*1.01*	*1.06*	*1.06*	*1.04*	*1.05*	*1.09*	*1.13*	*1.13*	**0.94**	*1.04*	*1.10*
Refinery and Blender Net Production															
Hydrocarbon Gas Liquids	**0.47**	**0.69**	**0.67**	**0.37**	*0.47*	*0.84*	*0.77*	*0.39*	*0.51*	*0.88*	*0.80*	*0.41*	**0.55**	*0.62*	*0.65*
Finished Motor Gasoline	**9.30**	**7.52**	**9.14**	**8.95**	*8.84*	*9.53*	*9.72*	*9.54*	*9.30*	*9.89*	*9.99*	*9.81*	**8.73**	*9.41*	*9.75*
Jet Fuel	**1.63**	**0.62**	**0.83**	**1.02**	*1.32*	*1.44*	*1.52*	*1.44*	*1.51*	*1.62*	*1.68*	*1.57*	**1.02**	*1.43*	*1.60*
Distillate Fuel	**4.95**	**4.83**	**4.72**	**4.48**	*4.50*	*4.49*	*4.71*	*4.64*	*4.59*	*5.14*	*5.34*	*5.21*	**4.75**	*4.59*	*5.07*
Residual Fuel	**0.23**	**0.18**	**0.19**	**0.16**	*0.21*	*0.26*	*0.26*	*0.20*	*0.25*	*0.29*	*0.29*	*0.23*	**0.19**	*0.23*	*0.27*
Other Oils (a)	**2.41**	**2.14**	**2.28**	**2.37**	*2.37*	*2.33*	*2.56*	*2.45*	*2.33*	*2.58*	*2.68*	*2.50*	**2.30**	*2.43*	*2.52*
Total Refinery and Blender Net Production	**18.99**	**15.99**	**17.84**	**17.34**	*17.71*	*18.90*	*19.54*	*18.66*	*18.49*	*20.40*	*20.79*	*19.73*	**17.54**	*18.71*	*19.86*
Refinery Distillation Inputs	**16.36**	**13.65**	**14.55**	**14.34**	*14.87*	*15.38*	*16.11*	*15.58*	*15.45*	*16.75*	*17.21*	*16.44*	**14.72**	*15.49*	*16.47*
Refinery Operable Distillation Capacity	**18.98**	**18.75**	**18.55**	**18.39**	*18.39*	*18.39*	*18.39*	*18.39*	*18.39*	*18.39*	*18.39*	*18.39*	**18.66**	*18.39*	*18.39*
Refinery Distillation Utilization Factor	**0.86**	**0.73**	**0.78**	**0.78**	*0.81*	*0.84*	*0.88*	*0.85*	*0.84*	*0.91*	*0.94*	*0.89*	**0.79**	*0.84*	*0.90*

(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.

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Prices (cents per gallon)															
Refiner Wholesale Price	**153**	**104**	**137**	**134**	*167*	*173*	*165*	*153*	*153*	*173*	*176*	*164*	**133**	*164*	*167*
Gasoline Regular Grade Retail Prices Including Taxes															
PADD 1	**236**	**191**	**211**	**212**	*240*	*245*	*240*	*227*	*221*	*240*	*248*	*237*	**214**	*238*	*237*
PADD 2	**226**	**179**	**207**	**202**	*232*	*242*	*229*	*216*	*207*	*240*	*241*	*227*	**204**	*230*	*229*
PADD 3	**210**	**162**	**186**	**183**	*213*	*222*	*214*	*202*	*201*	*220*	*223*	*212*	**187**	*213*	*214*
PADD 4	**247**	**201**	**233**	**221**	*234*	*257*	*253*	*236*	*230*	*256*	*263*	*249*	**226**	*245*	*250*
PADD 5	**311**	**258**	**283**	**278**	*302*	*323*	*307*	*315*	*304*	*325*	*320*	*328*	**284**	*312*	*319*
U.S. Average	**241**	**194**	**218**	**215**	*244*	*254*	*245*	*235*	*228*	*252*	*255*	*246*	**218**	*244*	*246*
Gasoline All Grades Including Taxes	**251**	**203**	**227**	**224**	*254*	*266*	*258*	*248*	*242*	*266*	*269*	*260*	**227**	*256*	*259*
End-of-period Inventories (million barrels)															
Total Gasoline Inventories															
PADD 1	**71.0**	**73.0**	**61.6**	**67.8**	*59.5*	*60.9*	*58.0*	*59.6*	*64.8*	*67.3*	*62.6*	*68.7*	**67.8**	*59.6*	*68.7*
PADD 2	**60.2**	**52.6**	**46.2**	**51.1**	*54.4*	*53.9*	*50.8*	*50.3*	*53.9*	*53.2*	*51.2*	*51.3*	**51.1**	*50.3*	*51.3*
PADD 3	**84.8**	**90.5**	**79.7**	**82.1**	*82.9*	*80.6*	*80.6*	*85.3*	*85.6*	*87.7*	*82.4*	*89.5*	**82.1**	*85.3*	*89.5*
PADD 4	**9.2**	**7.7**	**7.6**	**8.6**	*8.1*	*7.9*	*7.5*	*8.0*	*7.8*	*7.9*	*7.7*	*8.2*	**8.6**	*8.0*	*8.2*
PADD 5	**35.6**	**29.4**	**31.5**	**31.4**	*30.6*	*29.3*	*29.4*	*31.0*	*30.0*	*29.4*	*29.3*	*31.7*	**31.4**	*31.0*	*31.7*
U.S. Total	**260.8**	**253.3**	**226.5**	**241.1**	*235.6*	*232.6*	*226.4*	*234.3*	*242.2*	*245.4*	*233.2*	*249.4*	**241.1**	*234.3*	*249.4*
Finished Gasoline Inventories															
U.S. Total	**22.6**	**23.5**	**22.4**	**25.3**	*21.3*	*23.2*	*22.1*	*24.4*	*24.2*	*23.8*	*23.1*	*26.1*	**25.3**	*24.4*	*26.1*
Gasoline Blending Components Inventories															
U.S. Total	**238.3**	**229.8**	**204.1**	**215.8**	*214.3*	*209.4*	*204.3*	*209.9*	*218.0*	*221.6*	*210.1*	*223.2*	**215.8**	*209.9*	*223.2*

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Prices are not adjusted for inflation.

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 5a. U.S. Natural Gas Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Supply (billion cubic feet per day)															
Total Marketed Production	**102.27**	**96.83**	**97.55**	**98.65**	*98.68*	*97.95*	*98.26*	*98.47*	*97.83*	*98.09*	*99.41*	*100.35*	**98.82**	*98.34*	*98.93*
Alaska	**0.96**	**0.88**	**0.88**	**0.96**	*0.96*	*0.75*	*0.73*	*0.88*	*0.92*	*0.75*	*0.72*	*0.86*	**0.92**	*0.83*	*0.81*
Federal GOM (a)	**2.72**	**2.22**	**1.72**	**1.70**	*2.13*	*2.08*	*1.98*	*1.97*	*2.02*	*1.98*	*1.90*	*1.90*	**2.09**	*2.04*	*1.95*
Lower 48 States (excl GOM)	**98.58**	**93.74**	**94.95**	**95.98**	*95.59*	*95.12*	*95.56*	*95.62*	*94.89*	*95.35*	*96.79*	*97.58*	**95.81**	*95.47*	*96.16*
Total Dry Gas Production	**94.79**	**89.68**	**89.82**	**90.89**	*90.88*	*90.17*	*90.40*	*90.54*	*89.95*	*90.18*	*91.41*	*92.26*	**91.29**	*90.50*	*90.96*
LNG Gross Imports	**0.24**	**0.12**	**0.09**	**0.13**	*0.32*	*0.18*	*0.18*	*0.20*	*0.32*	*0.18*	*0.18*	*0.20*	**0.14**	*0.22*	*0.22*
LNG Gross Exports	**7.92**	**5.51**	**3.91**	**8.78**	*9.36*	*7.59*	*7.66*	*9.26*	*9.96*	*8.83*	*8.33*	*9.78*	**6.53**	*8.46*	*9.22*
Pipeline Gross Imports	**7.64**	**6.17**	**6.45**	**7.06**	*7.48*	*6.40*	*6.80*	*7.10*	*7.67*	*6.66*	*6.72*	*7.05*	**6.83**	*6.94*	*7.02*
Pipeline Gross Exports	**8.15**	**7.17**	**8.07**	**8.29**	*8.66*	*8.16*	*9.05*	*9.22*	*9.04*	*8.37*	*9.07*	*9.18*	**7.92**	*8.77*	*8.92*
Supplemental Gaseous Fuels	**0.19**	**0.17**	**0.15**	**0.17**	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	**0.17**	*0.17*	*0.17*
Net Inventory Withdrawals	**12.74**	**-12.24**	**-7.68**	**5.00**	*17.84*	*-11.22*	*-8.23*	*5.85*	*17.82*	*-11.46*	*-9.21*	*4.41*	**-0.55**	*1.00*	*0.33*
Total Supply	**99.53**	**71.22**	**76.85**	**86.19**	*98.67*	*69.95*	*72.62*	*85.38*	*96.92*	*68.53*	*71.88*	*85.14*	**83.44**	*81.59*	*80.56*
Balancing Item (b)	**-0.23**	**-0.39**	**0.02**	**0.10**	*0.27*	*0.12*	*-0.01*	*0.08*	*0.58*	*0.66*	*0.76*	*-0.17*	**-0.12**	*0.11*	*0.45*
Total Primary Supply	**99.31**	**70.83**	**76.87**	**86.28**	*98.94*	*70.07*	*72.60*	*85.46*	*97.49*	*69.19*	*72.63*	*84.96*	**83.31**	*81.71*	*81.01*
Consumption (billion cubic feet per day)															
Residential	**22.83**	**8.20**	**3.84**	**16.11**	*25.11*	*7.08*	*3.40*	*16.37*	*25.14*	*7.68*	*3.47*	*16.26*	**12.73**	*12.94*	*13.09*
Commercial	**13.93**	**5.82**	**4.37**	**10.20**	*14.64*	*6.59*	*4.75*	*10.64*	*14.82*	*6.21*	*4.66*	*10.66*	**8.57**	*9.13*	*9.07*
Industrial	**24.65**	**20.62**	**21.15**	**24.08**	*24.71*	*21.95*	*21.24*	*24.09*	*24.81*	*22.22*	*21.70*	*24.23*	**22.62**	*22.99*	*23.23*
Electric Power (c)	**29.55**	**29.04**	**40.12**	**28.26**	*26.68*	*27.31*	*36.02*	*26.73*	*24.86*	*25.71*	*35.41*	*25.99*	**31.76**	*29.20*	*28.01*
Lease and Plant Fuel	**5.17**	**4.90**	**4.93**	**4.99**	*4.99*	*4.95*	*4.97*	*4.98*	*4.95*	*4.96*	*5.03*	*5.07*	**5.00**	*4.97*	*5.00*
Pipeline and Distribution Use	**3.02**	**2.15**	**2.33**	**2.51**	*2.67*	*2.04*	*2.08*	*2.50*	*2.76*	*2.25*	*2.20*	*2.59*	**2.50**	*2.32*	*2.45*
Vehicle Use	**0.16**	**0.10**	**0.13**	**0.13**	*0.14*	*0.15*	*0.15*	*0.15*	*0.16*	*0.16*	*0.16*	*0.16*	**0.13**	*0.15*	*0.16*
Total Consumption	**99.31**	**70.83**	**76.87**	**86.28**	*98.94*	*70.07*	*72.60*	*85.46*	*97.49*	*69.19*	*72.63*	*84.96*	**83.31**	*81.71*	*81.01*
End-of-period Inventories (billion cubic feet)															
Working Gas Inventory	**2,030**	**3,133**	**3,840**	**3,375**	*1,770*	*2,791*	*3,548*	*3,010*	*1,406*	*2,449*	*3,296*	*2,890*	**3,375**	*3,010*	*2,890*
East Region (d)	**385**	**655**	**890**	**771**	*248*	*553*	*825*	*610*	*124*	*417*	*681*	*497*	**771**	*610*	*497*
Midwest Region (d)	**472**	**747**	**1,053**	**930**	*373*	*637*	*988*	*830*	*241*	*528*	*897*	*773*	**930**	*830*	*773*
South Central Region (d)	**857**	**1,221**	**1,313**	**1,166**	*770*	*1,103*	*1,173*	*1,095*	*700*	*996*	*1,104*	*1,054*	**1,166**	*1,095*	*1,054*
Mountain Region (d)	**92**	**177**	**235**	**197**	*118*	*151*	*193*	*159*	*107*	*159*	*224*	*205*	**197**	*159*	*205*
Pacific Region (d)	**200**	**308**	**318**	**283**	*238*	*325*	*346*	*293*	*211*	*327*	*367*	*339*	**283**	*293*	*339*
Alaska	**23**	**25**	**31**	**27**	*23*	*23*	*23*	*23*	*23*	*23*	*23*	*23*	**27**	*23*	*23*

(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)* .

- = no data available

LNG: liquefied natural gas.

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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: *Natural Gas Monthly* , DOE/EIA-0130; and *Electric Power Monthly* , Minor discrepancies with published historical data are due to independent rounding.

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 5b. U.S. Regional Natural Gas Prices (dollars per thousand cubic feet)

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Wholesale/Spot															
Henry Hub Spot Price	**1.98**	**1.77**	**2.07**	**2.63**	*2.97*	*2.99*	*3.11*	*3.20*	*3.41*	*3.34*	*3.37*	*3.46*	**2.11**	*3.07*	*3.40*
Residential Retail															
New England	**13.77**	**14.50**	**18.28**	**13.97**	*13.30*	*14.07*	*17.04*	*13.21*	*12.95*	*13.98*	*17.06*	*13.26*	**14.28**	*13.64*	*13.47*
Middle Atlantic	**10.77**	**11.85**	**17.85**	**11.72**	*10.23*	*12.22*	*16.81*	*10.98*	*10.14*	*12.52*	*17.33*	*11.54*	**11.75**	*11.25*	*11.37*
E. N. Central	**6.99**	**9.50**	**18.15**	**8.37**	*7.95*	*11.11*	*16.76*	*8.51*	*7.84*	*10.85*	*16.62*	*8.42*	**8.51**	*9.15*	*8.95*
W. N. Central	**6.85**	**9.89**	**17.36**	**8.86**	*8.10*	*11.10*	*17.17*	*9.24*	*8.04*	*10.96*	*17.17*	*9.27*	**8.54**	*9.43*	*9.30*
S. Atlantic	**12.12**	**15.52**	**24.11**	**15.99**	*13.01*	*17.24*	*22.92*	*12.75*	*11.34*	*16.53*	*22.78*	*12.82*	**14.72**	*14.28*	*13.31*
E. S. Central	**9.69**	**13.34**	**20.92**	**11.41**	*9.93*	*15.07*	*22.24*	*13.62*	*10.70*	*15.20*	*22.36*	*13.69*	**11.40**	*12.40*	*12.84*
W. S. Central	**8.52**	**14.22**	**20.58**	**11.48**	*9.04*	*14.74*	*20.80*	*12.05*	*9.08*	*14.59*	*20.67*	*11.91*	**11.34**	*11.65*	*11.58*
Mountain	**7.55**	**9.37**	**12.56**	**8.15**	*7.73*	*9.63*	*13.51*	*8.36*	*7.95*	*9.84*	*13.80*	*8.73*	**8.45**	*8.67*	*8.93*
Pacific	**13.41**	**14.47**	**14.50**	**13.40**	*13.44*	*14.15*	*14.92*	*13.83*	*14.00*	*14.74*	*15.53*	*14.49*	**13.73**	*13.86*	*14.46*
U.S. Average	**9.46**	**11.89**	**17.62**	**10.76**	*9.93*	*12.72*	*17.35*	*10.71*	*9.76*	*12.72*	*17.57*	*10.90*	**10.88**	*11.05*	*11.07*
Commercial Retail															
New England	**9.93**	**10.40**	**10.99**	**9.97**	*9.77*	*10.07*	*10.61*	*10.11*	*10.52*	*10.67*	*10.46*	*10.31*	**10.13**	*10.03*	*10.47*
Middle Atlantic	**7.91**	**7.00**	**6.78**	**7.35**	*7.49*	*7.31*	*6.84*	*7.40*	*7.86*	*7.72*	*7.33*	*7.88*	**7.45**	*7.35*	*7.77*
E. N. Central	**5.75**	**6.73**	**8.79**	**6.37**	*6.24*	*7.69*	*9.37*	*7.19*	*6.95*	*7.82*	*8.90*	*6.77*	**6.33**	*7.01*	*7.16*
W. N. Central	**5.43**	**6.53**	**8.14**	**6.63**	*6.93*	*7.64*	*8.98*	*7.33*	*7.20*	*7.77*	*9.08*	*7.25*	**6.15**	*7.31*	*7.43*
S. Atlantic	**8.51**	**9.21**	**9.53**	**9.07**	*8.66*	*9.53*	*9.97*	*8.99*	*8.59*	*9.45*	*9.75*	*8.77*	**8.92**	*9.06*	*8.92*
E. S. Central	**8.38**	**9.20**	**10.10**	**8.93**	*8.39*	*9.47*	*10.27*	*9.13*	*8.49*	*9.54*	*10.17*	*9.11*	**8.86**	*8.99*	*9.02*
W. S. Central	**5.99**	**7.18**	**8.05**	**7.59**	*7.19*	*7.83*	*8.71*	*8.07*	*7.23*	*7.76*	*8.29*	*7.60*	**6.93**	*7.77*	*7.57*
Mountain	**6.09**	**6.85**	**7.41**	**6.42**	*6.63*	*7.07*	*8.09*	*7.09*	*6.91*	*7.36*	*8.28*	*7.18*	**6.45**	*7.00*	*7.21*
Pacific	**9.58**	**9.30**	**9.59**	**9.59**	*9.53*	*9.41*	*9.81*	*9.27*	*9.24*	*9.17*	*9.71*	*9.40*	**9.54**	*9.47*	*9.35*
U.S. Average	**7.13**	**7.63**	**8.48**	**7.59**	*7.48*	*8.14*	*8.81*	*7.95*	*7.78*	*8.30*	*8.77*	*7.92*	**7.50**	*7.88*	*8.02*
Industrial Retail															
New England	**8.15**	**7.41**	**6.16**	**7.64**	*8.15*	*7.38*	*6.72*	*7.76*	*8.26*	*7.80*	*6.91*	*7.93*	**7.53**	*7.63*	*7.84*
Middle Atlantic	**7.43**	**6.76**	**7.00**	**7.36**	*7.56*	*7.14*	*7.25*	*7.48*	*8.08*	*7.86*	*7.80*	*8.23*	**7.23**	*7.42*	*8.04*
E. N. Central	**4.84**	**5.10**	**4.15**	**5.22**	*5.80*	*5.67*	*5.77*	*5.70*	*6.03*	*5.92*	*5.86*	*5.84*	**4.90**	*5.74*	*5.93*
W. N. Central	**3.97**	**3.30**	**3.15**	**4.34**	*4.97*	*4.36*	*4.47*	*5.01*	*5.32*	*4.75*	*4.66*	*5.18*	**3.75**	*4.74*	*5.01*
S. Atlantic	**4.15**	**3.70**	**3.72**	**4.58**	*5.19*	*4.82*	*4.93*	*5.23*	*5.47*	*5.03*	*4.97*	*5.24*	**4.06**	*5.06*	*5.20*
E. S. Central	**3.92**	**3.24**	**3.23**	**4.13**	*4.75*	*4.46*	*4.56*	*4.98*	*5.19*	*4.77*	*4.59*	*4.94*	**3.67**	*4.70*	*4.89*
W. S. Central	**2.19**	**1.92**	**2.19**	**2.87**	*3.08*	*3.15*	*3.36*	*3.41*	*3.53*	*3.50*	*3.55*	*3.62*	**2.32**	*3.25*	*3.55*
Mountain	**4.40**	**4.59**	**4.67**	**4.90**	*5.23*	*5.39*	*5.89*	*5.88*	*5.88*	*5.66*	*5.84*	*5.69*	**4.63**	*5.58*	*5.77*
Pacific	**7.46**	**6.28**	**6.18**	**7.11**	*7.33*	*6.63*	*6.98*	*7.09*	*7.19*	*6.75*	*7.05*	*7.11*	**6.83**	*7.03*	*7.04*
U.S. Average	**3.52**	**2.85**	**2.88**	**3.79**	*4.27*	*3.92*	*4.02*	*4.36*	*4.67*	*4.27*	*4.20*	*4.54*	**3.30**	*4.15*	*4.43*

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Prices are not adjusted for inflation.

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.

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Supply (million short tons)															
Production	**149.1**	**115.2**	**135.8**	**139.0**	*148.8*	*147.8*	*149.7*	*142.8*	*156.6*	*143.9*	*151.5*	*142.2*	**539.1**	*589.2*	*594.1*
Appalachia	**39.7**	**29.3**	**33.9**	**35.5**	*37.5*	*36.2*	*37.9*	*35.6*	*38.3*	*33.1*	*36.6*	*30.6*	**138.3**	*147.1*	*138.5*
Interior	**25.8**	**19.2**	**23.2**	**22.3**	*26.3*	*27.2*	*26.8*	*24.0*	*29.9*	*30.0*	*34.3*	*35.2*	**90.4**	*104.3*	*129.4*
Western	**83.6**	**66.7**	**78.8**	**81.2**	*85.1*	*84.4*	*85.0*	*83.2*	*88.4*	*80.9*	*80.6*	*76.3*	**310.3**	*337.7*	*326.2*
Primary Inventory Withdrawals	**0.5**	**1.3**	**2.0**	**-1.0**	*0.4*	*2.1*	*2.6*	*-0.6*	*-0.7*	*-0.6*	*-0.5*	*-3.6*	**2.8**	*4.4*	*-5.4*
Imports	**1.3**	**1.1**	**1.3**	**1.5**	*1.3*	*1.1*	*1.3*	*1.3*	*1.0*	*1.0*	*1.3*	*1.3*	**5.3**	*5.1*	*4.6*
Exports	**20.0**	**14.8**	**15.3**	**18.4**	*24.8*	*18.4*	*18.9*	*22.8*	*26.1*	*19.7*	*20.4*	*24.5*	**68.4**	*84.9*	*90.7*
Metallurgical Coal	**11.7**	**9.0**	**10.2**	**10.8**	*14.4*	*11.3*	*12.7*	*13.5*	*15.3*	*11.9*	*13.5*	*14.3*	**41.7**	*51.9*	*55.1*
Steam Coal	**8.3**	**5.8**	**5.1**	**7.6**	*10.4*	*7.2*	*6.2*	*9.2*	*10.8*	*7.7*	*6.9*	*10.2*	**26.8**	*33.0*	*35.6*
Total Primary Supply	**130.9**	**102.9**	**123.8**	**121.1**	*125.7*	*132.6*	*134.7*	*120.7*	*130.8*	*124.7*	*132.0*	*115.3*	**478.7**	*513.7*	*502.7*
Secondary Inventory Withdrawals	**-16.6**	**-5.0**	**21.5**	**-3.0**	*-6.3*	*-22.9*	*19.5*	*1.8*	*5.1*	*-8.7*	*25.8*	*11.7*	**-3.2**	*-7.9*	*33.9*
Waste Coal (a)	**2.3**	**2.3**	**2.3**	**2.3**	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	**9.2**	*8.0*	*7.8*
Total Supply	**116.6**	**100.1**	**147.6**	**120.3**	*121.4*	*111.7*	*156.2*	*124.6*	*137.8*	*118.0*	*159.7*	*129.0*	**484.6**	*513.9*	*544.5*
Consumption (million short tons)															
Coke Plants	**4.3**	**3.5**	**3.2**	**3.2**	*2.9*	*2.8*	*2.9*	*2.7*	*2.2*	*2.3*	*2.5*	*2.8*	**14.0**	*11.3*	*9.8*
Electric Power Sector (b)	**97.8**	**87.2**	**139.2**	**111.8**	*111.4*	*102.0*	*146.6*	*114.8*	*128.6*	*108.9*	*150.4*	*119.2*	**436.0**	*474.8*	*507.1*
Retail and Other Industry	**7.4**	**5.7**	**6.1**	**7.0**	*7.2*	*6.9*	*6.8*	*7.0*	*7.1*	*6.8*	*6.7*	*7.0*	**26.2**	*27.8*	*27.6*
Residential and Commercial	**0.3**	**0.1**	**0.1**	**0.2**	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	**0.8**	*0.8*	*0.7*
Other Industrial	**7.1**	**5.6**	**5.9**	**6.8**	*6.9*	*6.7*	*6.6*	*6.7*	*6.9*	*6.7*	*6.6*	*6.7*	**25.4**	*26.9*	*26.9*
Total Consumption	**109.5**	**96.4**	**148.4**	**122.0**	*121.4*	*111.7*	*156.2*	*124.6*	*137.8*	*118.0*	*159.7*	*129.0*	**476.3**	*513.9*	*544.5*
Discrepancy (c)	**7.1**	**3.8**	**-0.8**	**-1.7**	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	**8.3**	*0.0*	*0.0*
End-of-period Inventories (million short tons)															
Primary Inventories (d)	**30.8**	**29.5**	**27.5**	**28.5**	*28.1*	*26.1*	*23.5*	*24.1*	*24.8*	*25.4*	*25.8*	*29.5*	**28.5**	*24.1*	*29.5*
Secondary Inventories	**150.6**	**155.7**	**134.2**	**137.2**	*143.5*	*166.4*	*146.9*	*145.0*	*140.0*	*148.7*	*122.9*	*111.2*	**137.2**	*145.0*	*111.2*
Electric Power Sector	**145.2**	**150.4**	**129.1**	**131.5**	*138.0*	*160.7*	*141.0*	*139.5*	*134.7*	*143.2*	*117.3*	*105.9*	**131.5**	*139.5*	*105.9*
Retail and General Industry	**3.0**	**3.0**	**2.9**	**3.5**	*3.8*	*3.7*	*3.8*	*3.6*	*3.9*	*3.8*	*3.9*	*3.7*	**3.5**	*3.6*	*3.7*
Coke Plants	**2.1**	**2.0**	**2.0**	**2.0**	*1.5*	*1.8*	*1.9*	*1.7*	*1.2*	*1.5*	*1.6*	*1.4*	**2.0**	*1.7*	*1.4*
Commercial & Institutional	**0.2**	**0.2**	**0.2**	**0.2**	*0.2*	*0.2*	*0.2*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	**0.2**	*0.1*	*0.1*
Coal Market Indicators															
Coal Miner Productivity (Tons per hour)	**6.37**	**6.37**	**6.37**	**6.37**	*6.32*	*6.32*	*6.32*	*6.32*	*6.30*	*6.30*	*6.30*	*6.30*	**6.37**	*6.32*	*6.30*
Total Raw Steel Production (Million short tons per day)	**0.268**	**0.174**	**0.197**	**0.224**	*0.259*	*0.246*	*0.249*	*0.285*	*0.280*	*0.250*	*0.248*	*0.259*	**0.216**	*0.260*	*0.259*
Cost of Coal to Electric Utilities (Dollars per million Btu)	**1.93**	**1.91**	**1.91**	**1.94**	*2.07*	*2.07*	*2.04*	*2.05*	*2.07*	*2.08*	*2.06*	*2.07*	**1.93**	*2.05*	*2.07*

(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.

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 7a. U.S. Electricity Industry Overview

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Electricity Supply (billion kilowatthours)															
Electricity Generation	**965**	**933**	**1,149**	**962**	*972*	*969*	*1,137*	*969*	*988*	*985*	*1,155*	*982*	**4,009**	*4,047*	*4,109*
Electric Power Sector (a)	**924**	**896**	**1,109**	**924**	*935*	*933*	*1,100*	*932*	*950*	*948*	*1,114*	*943*	**3,853**	*3,900*	*3,955*
Industrial Sector (b)	**38**	**34**	**36**	**35**	*34*	*33*	*34*	*34*	*34*	*34*	*37*	*36*	**142**	*134*	*141*
Commercial Sector (b)	**3**	**3**	**4**	**3**	*3*	*3*	*4*	*3*	*3*	*3*	*4*	*3*	**13**	*13*	*13*
Net Imports	**10**	**11**	**15**	**11**	*13*	*13*	*15*	*11*	*12*	*13*	*14*	*11*	**47**	*51*	*50*
Total Supply	**975**	**944**	**1,164**	**973**	*984*	*982*	*1,152*	*980*	*1,000*	*998*	*1,169*	*993*	**4,056**	*4,098*	*4,160*
Losses and Unaccounted for (c)	**52**	**67**	**72**	**61**	*54*	*67*	*58*	*55*	*46*	*68*	*59*	*55*	**252**	*235*	*229*
Electricity Consumption (billion kilowatthours unless noted)															
Retail Sales	**887**	**844**	**1,057**	**878**	*897*	*882*	*1,061*	*893*	*921*	*896*	*1,075*	*903*	**3,666**	*3,733*	*3,794*
Residential Sector	**340**	**334**	**453**	**330**	*361*	*344*	*447*	*336*	*374*	*349*	*452*	*340*	**1,458**	*1,489*	*1,515*
Commercial Sector	**314**	**293**	**360**	**311**	*304*	*306*	*365*	*318*	*312*	*312*	*370*	*321*	**1,278**	*1,293*	*1,316*
Industrial Sector	**231**	**216**	**241**	**236**	*230*	*230*	*247*	*237*	*233*	*234*	*251*	*240*	**924**	*945*	*957*
Transportation Sector	**2**	**1**	**2**	**2**	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	**7**	*6*	*6*
Direct Use (d)	**36**	**33**	**35**	**34**	*33*	*32*	*33*	*33*	*33*	*33*	*36*	*34*	**138**	*130*	*136*
Total Consumption	**923**	**877**	**1,091**	**912**	*930*	*914*	*1,094*	*926*	*954*	*929*	*1,110*	*937*	**3,803**	*3,864*	*3,931*
Average residential electricity usage per customer (kWh)	**2,527**	**2,480**	**3,365**	**2,448**	*2,644*	*2,518*	*3,270*	*2,460*	*2,705*	*2,519*	*3,268*	*2,458*	**10,821**	*10,891*	*10,950*
End-of-period Fuel Inventories Held by Electric Power Sector															
Coal (mmst)	**145.2**	**150.4**	**129.1**	**131.5**	*138.0*	*160.7*	*141.0*	*139.5*	*134.7*	*143.2*	*117.3*	*105.9*	**131.5**	*139.5*	*105.9*
Residual Fuel (mmb)	**8.3**	**8.5**	**8.2**	**8.4**	*8.6*	*8.8*	*8.9*	*9.3*	*8.7*	*8.7*	*8.7*	*9.2*	**8.4**	*9.3*	*9.2*
Distillate Fuel (mmb)	**16.5**	**16.5**	**17.0**	**16.8**	*16.9*	*16.8*	*16.7*	*16.9*	*16.8*	*16.6*	*16.6*	*16.9*	**16.8**	*16.9*	*16.9*
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**1.93**	**1.91**	**1.91**	**1.94**	*2.07*	*2.07*	*2.04*	*2.05*	*2.07*	*2.08*	*2.06*	*2.07*	**1.93**	*2.05*	*2.07*
Natural Gas	**2.39**	**2.08**	**2.26**	**2.84**	*3.40*	*3.09*	*3.18*	*3.45*	*3.88*	*3.48*	*3.46*	*3.70*	**2.38**	*3.27*	*3.61*
Residual Fuel Oil	**12.15**	**6.65**	**8.85**	**8.37**	*9.70*	*10.96*	*9.97*	*9.71*	*10.09*	*11.06*	*10.64*	*10.47*	**9.02**	*10.07*	*10.56*
Distillate Fuel Oil	**13.27**	**8.39**	**10.38**	**10.75**	*12.79*	*12.93*	*12.79*	*12.95*	*13.05*	*13.52*	*13.65*	*13.73*	**10.78**	*12.86*	*13.49*
Retail Prices (cents per kilowatthour)															
Residential Sector	**12.90**	**13.24**	**13.36**	**13.20**	*12.85*	*13.33*	*13.55*	*13.45*	*13.11*	*13.64*	*13.81*	*13.63*	**13.19**	*13.31*	*13.56*
Commercial Sector	**10.33**	**10.63**	**10.97**	**10.53**	*10.30*	*10.78*	*11.24*	*10.76*	*10.46*	*10.92*	*11.35*	*10.84*	**10.63**	*10.79*	*10.91*
Industrial Sector	**6.37**	**6.63**	**7.09**	**6.51**	*6.37*	*6.69*	*7.10*	*6.53*	*6.41*	*6.71*	*7.12*	*6.54*	**6.66**	*6.68*	*6.70*
Wholesale Electricity Prices (dollars per megawatthour)															
ERCOT North hub	**23.41**	**24.03**	**34.12**	**26.41**	*23.10*	*23.21*	*28.21*	*23.12*	*23.50*	*23.60*	*27.39*	*23.27*	**26.99**	*24.41*	*24.44*
CAISO SP15 zone	**28.64**	**19.21**	**61.94**	**42.80**	*32.49*	*31.46*	*39.89*	*32.10*	*33.79*	*31.47*	*40.97*	*34.99*	**38.15**	*33.99*	*35.30*
ISO-NE Internal hub	**24.61**	**20.25**	**27.20**	**34.03**	*43.60*	*29.85*	*32.50*	*35.90*	*44.99*	*30.22*	*32.67*	*34.65*	**26.52**	*35.46*	*35.63*
NYISO Hudson Valley zone	**21.82**	**18.13**	**24.38**	**27.05**	*28.97*	*26.69*	*29.12*	*27.71*	*31.08*	*27.73*	*29.89*	*26.77*	**22.85**	*28.13*	*28.87*
PJM Western hub	**22.47**	**20.79**	**28.24**	**26.44**	*27.93*	*28.18*	*31.86*	*28.40*	*31.37*	*29.84*	*33.12*	*28.99*	**24.49**	*29.09*	*30.83*
Midcontinent ISO Illinois hub	**24.43**	**23.00**	**29.35**	**24.94**	*28.27*	*28.31*	*31.89*	*29.12*	*31.38*	*31.04*	*33.49*	*30.06*	**25.43**	*29.40*	*31.49*
SPP ISO South hub	**20.06**	**19.54**	**26.27**	**24.34**	*24.32*	*24.20*	*29.20*	*24.70*	*25.91*	*26.17*	*31.42*	*26.14*	**22.55**	*25.60*	*27.41*
SERC index, Into Southern	**23.58**	**18.23**	**23.47**	**25.21**	*24.41*	*25.51*	*28.51*	*26.62*	*27.36*	*27.41*	*29.42*	*26.92*	**22.62**	*26.26*	*27.78*
FRCC index, Florida Reliability	**26.24**	**18.53**	**23.75**	**25.39**	*26.84*	*27.05*	*28.08*	*28.43*	*28.75*	*28.68*	*29.56*	*28.78*	**23.48**	*27.60*	*28.94*
Northwest index, Mid-Columbia	**22.77**	**14.49**	**33.56**	**31.00**	*25.14*	*23.82*	*29.32*	*26.23*	*25.88*	*22.94*	*29.95*	*28.23*	**25.46**	*26.13*	*26.75*
Southwest index, Palo Verde	**22.07**	**19.60**	**80.81**	**36.10**	*29.13*	*28.39*	*32.98*	*28.95*	*30.54*	*27.47*	*34.62*	*32.01*	**39.64**	*29.86*	*31.16*

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

kWh = kilowatthours. Btu = British thermal units.

Prices are not adjusted for inflation.

(a) Generation supplied by power plants with capacity of at least 1 megawatt operated by electric utilities and independent power producers.

(b) Generation supplied by power plants with capacity of at least 1 megawatt 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*.

Historical data sources:

(1) Electricity supply, consumption, fuel costs, and retail electricity prices: Latest data available from U.S. Energy Information Administration databases supporting the following reports: Electric Power Monthly, DOE/EIA-0226; and Electric Power Annual, DOE/EIA-0348

(2) Wholesale electricity prices (except for PJM RTO price): S&P Global Market Intelligence, SNL Energy Data

(3) PJM ISO Western Hub wholesale electricity prices: PJM Data Miner website

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

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 7b. U.S. Regional Electricity Retail Sales (billion kilowatthours)

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Residential Sector															
New England	**11.7**	**10.9**	**14.6**	**11.1**	*12.6*	*11.3*	*13.8*	*11.3*	*12.9*	*11.3*	*13.8*	*11.3*	**48.3**	*49.0*	*49.2*
Middle Atlantic	**32.2**	**30.6**	**43.5**	**30.4**	*34.5*	*30.9*	*40.7*	*31.0*	*35.3*	*30.9*	*40.7*	*31.0*	**136.7**	*137.0*	*137.9*
E. N. Central	**46.4**	**43.7**	**56.5**	**43.4**	*48.4*	*44.7*	*54.8*	*44.9*	*50.3*	*45.1*	*55.1*	*45.1*	**190.0**	*192.8*	*195.6*
W. N. Central	**27.6**	**23.7**	**30.0**	**24.3**	*28.3*	*25.7*	*31.2*	*26.3*	*31.9*	*27.4*	*33.0*	*27.7*	**105.6**	*111.6*	*120.0*
S. Atlantic	**84.3**	**86.3**	**114.7**	**83.0**	*92.5*	*89.1*	*113.9*	*83.3*	*94.4*	*89.9*	*114.8*	*84.0*	**368.3**	*378.7*	*383.1*
E. S. Central	**29.0**	**26.0**	**37.2**	**25.6**	*32.3*	*27.4*	*38.2*	*26.4*	*33.3*	*27.7*	*38.5*	*26.6*	**117.9**	*124.3*	*126.2*
W. S. Central	**48.8**	**52.9**	**76.3**	**48.7**	*51.1*	*55.0*	*77.7*	*50.7*	*53.6*	*55.7*	*78.8*	*51.5*	**226.7**	*234.6*	*239.6*
Mountain	**22.5**	**25.7**	**36.2**	**23.8**	*22.9*	*25.7*	*34.1*	*23.8*	*23.2*	*26.0*	*34.6*	*24.2*	**108.2**	*106.5*	*108.0*
Pacific contiguous	**36.7**	**33.2**	**43.0**	**38.2**	*37.5*	*33.4*	*41.6*	*37.3*	*38.3*	*33.5*	*41.7*	*37.5*	**151.1**	*149.8*	*150.9*
AK and HI	**1.3**	**1.1**	**1.2**	**1.3**	*1.3*	*1.1*	*1.2*	*1.3*	*1.3*	*1.1*	*1.2*	*1.3*	**4.9**	*4.9*	*4.9*
Total	**340.4**	**334.1**	**453.3**	**329.8**	*361.5*	*344.3*	*447.2*	*336.3*	*374.4*	*348.6*	*452.3*	*340.1*	**1,457.6**	*1,489.3*	*1,515.4*
Commercial Sector															
New England	**12.3**	**10.6**	**13.2**	**11.4**	*11.7*	*10.7*	*12.8*	*11.5*	*11.9*	*10.8*	*12.9*	*11.5*	**47.4**	*46.8*	*47.0*
Middle Atlantic	**35.9**	**31.0**	**38.9**	**33.2**	*33.7*	*33.8*	*39.2*	*34.5*	*35.0*	*34.9*	*40.1*	*35.0*	**138.9**	*141.2*	*145.0*
E. N. Central	**43.1**	**38.3**	**47.3**	**41.5**	*42.0*	*40.9*	*48.2*	*43.1*	*43.5*	*41.9*	*49.0*	*43.6*	**170.2**	*174.2*	*178.0*
W. N. Central	**24.7**	**21.6**	**26.3**	**23.6**	*24.7*	*22.2*	*27.0*	*24.2*	*25.5*	*22.8*	*27.7*	*24.8*	**96.3**	*98.2*	*100.8*
S. Atlantic	**72.0**	**70.0**	**85.7**	**73.5**	*70.4*	*73.3*	*87.2*	*74.7*	*72.8*	*74.9*	*88.5*	*75.4*	**301.3**	*305.6*	*311.6*
E. S. Central	**20.7**	**19.4**	**25.3**	**20.5**	*20.5*	*20.5*	*25.9*	*20.8*	*20.9*	*20.8*	*26.2*	*21.0*	**85.9**	*87.7*	*88.8*
W. S. Central	**44.3**	**44.6**	**55.0**	**45.7**	*42.9*	*46.4*	*56.5*	*47.3*	*44.4*	*47.4*	*57.6*	*48.1*	**189.6**	*193.1*	*197.5*
Mountain	**22.4**	**22.1**	**27.4**	**22.9**	*21.7*	*23.0*	*27.3*	*23.4*	*22.3*	*23.6*	*27.9*	*23.8*	**94.9**	*95.4*	*97.6*
Pacific contiguous	**37.0**	**33.9**	**39.8**	**37.5**	*34.7*	*34.1*	*39.3*	*36.8*	*34.6*	*33.9*	*38.9*	*36.3*	**148.2**	*144.9*	*143.6*
AK and HI	**1.4**	**1.2**	**1.3**	**1.3**	*1.3*	*1.4*	*1.5*	*1.5*	*1.4*	*1.4*	*1.4*	*1.4*	**5.2**	*5.6*	*5.6*
Total	**313.7**	**292.7**	**360.2**	**311.2**	*303.6*	*306.2*	*365.0*	*317.9*	*312.3*	*312.4*	*370.1*	*320.8*	**1,277.9**	*1,292.7*	*1,315.6*
Industrial Sector															
New England	**3.7**	**3.5**	**3.9**	**3.8**	*3.5*	*3.6*	*3.9*	*3.7*	*3.5*	*3.5*	*3.8*	*3.7*	**14.9**	*14.7*	*14.5*
Middle Atlantic	**18.0**	**16.2**	**18.6**	**17.7**	*18.3*	*17.1*	*18.9*	*17.8*	*18.4*	*17.4*	*19.2*	*18.1*	**70.5**	*72.1*	*73.1*
E. N. Central	**44.0**	**37.7**	**44.5**	**43.8**	*44.2*	*40.6*	*45.9*	*44.0*	*44.5*	*41.2*	*46.5*	*44.5*	**170.0**	*174.8*	*176.7*
W. N. Central	**21.7**	**20.3**	**23.2**	**22.6**	*21.8*	*22.4*	*24.0*	*22.9*	*22.2*	*22.9*	*24.7*	*23.5*	**87.8**	*91.1*	*93.4*
S. Atlantic	**32.8**	**31.0**	**34.2**	**34.7**	*32.7*	*32.9*	*34.9*	*34.7*	*32.7*	*33.1*	*35.1*	*34.8*	**132.7**	*135.3*	*135.8*
E. S. Central	**23.3**	**21.4**	**23.4**	**23.3**	*23.2*	*23.3*	*24.0*	*23.4*	*23.4*	*23.6*	*24.3*	*23.6*	**91.4**	*93.9*	*94.8*
W. S. Central	**46.7**	**44.9**	**47.7**	**48.7**	*47.0*	*48.2*	*49.0*	*49.5*	*48.0*	*49.4*	*50.4*	*50.8*	**188.0**	*193.7*	*198.7*
Mountain	**20.0**	**20.3**	**22.6**	**20.1**	*19.6*	*21.1*	*23.1*	*20.3*	*20.0*	*21.5*	*23.5*	*20.7*	**82.9**	*84.2*	*85.7*
Pacific contiguous	**19.2**	**19.7**	**22.1**	**19.7**	*18.9*	*20.0*	*22.2*	*19.6*	*18.6*	*19.8*	*22.0*	*19.4*	**80.8**	*80.6*	*79.8*
AK and HI	**1.2**	**1.0**	**1.2**	**1.2**	*1.1*	*1.1*	*1.2*	*1.2*	*1.1*	*1.1*	*1.2*	*1.2*	**4.5**	*4.6*	*4.6*
Total	**230.6**	**216.0**	**241.4**	**235.6**	*230.4*	*230.3*	*247.0*	*237.2*	*232.5*	*233.6*	*250.7*	*240.4*	**923.7**	*945.0*	*957.1*
Total All Sectors (a)															
New England	**27.8**	**25.1**	**31.8**	**26.4**	*28.0*	*25.7*	*30.7*	*26.7*	*28.3*	*25.7*	*30.6*	*26.6*	**111.1**	*111.0*	*111.2*
Middle Atlantic	**86.9**	**78.5**	**101.8**	**82.2**	*87.4*	*82.5*	*99.5*	*84.1*	*89.5*	*83.9*	*100.7*	*84.8*	**349.3**	*353.5*	*359.0*
E. N. Central	**133.7**	**119.7**	**148.4**	**128.8**	*134.8*	*126.3*	*149.0*	*132.2*	*138.5*	*128.3*	*150.8*	*133.3*	**530.7**	*542.3*	*550.9*
W. N. Central	**74.0**	**65.7**	**79.5**	**70.5**	*74.8*	*70.3*	*82.2*	*73.5*	*79.7*	*73.2*	*85.4*	*76.0*	**289.7**	*300.9*	*314.3*
S. Atlantic	**189.4**	**187.6**	**235.0**	**191.5**	*195.9*	*195.6*	*236.4*	*192.9*	*200.2*	*198.3*	*238.7*	*194.5*	**803.5**	*820.7*	*831.7*
E. S. Central	**73.0**	**66.8**	**85.9**	**69.4**	*76.0*	*71.2*	*88.1*	*70.6*	*77.5*	*72.1*	*89.0*	*71.2*	**295.2**	*305.9*	*309.8*
W. S. Central	**139.8**	**142.4**	**179.1**	**143.2**	*141.1*	*149.7*	*183.3*	*147.6*	*146.0*	*152.6*	*186.9*	*150.5*	**604.5**	*621.7*	*636.0*
Mountain	**64.9**	**68.2**	**86.3**	**66.8**	*64.3*	*69.8*	*84.5*	*67.6*	*65.5*	*71.2*	*86.0*	*68.7*	**286.2**	*286.3*	*291.5*
Pacific contiguous	**93.1**	**87.0**	**105.1**	**95.6**	*91.3*	*87.6*	*103.3*	*93.8*	*91.6*	*87.4*	*102.8*	*93.3*	**380.8**	*376.0*	*375.1*
AK and HI	**3.8**	**3.4**	**3.6**	**3.8**	*3.7*	*3.6*	*3.8*	*3.9*	*3.8*	*3.6*	*3.8*	*3.9*	**14.6**	*15.1*	*15.1*
Total	**886.6**	**844.3**	**1,056.5**	**878.3**	*897.3*	*882.4*	*1,060.8*	*893.0*	*920.8*	*896.2*	*1,074.6*	*902.8*	**3,665.6**	*3,733.5*	*3,794.4*

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

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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*

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

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Residential Sector															
New England	**21.76**	**21.33**	**20.96**	**20.96**	*21.76*	*21.74*	*21.90*	*22.37*	*23.54*	*23.56*	*23.61*	*23.86*	**21.24**	*21.94*	*23.64*
Middle Atlantic	**15.47**	**15.96**	**16.18**	**16.00**	*15.53*	*16.24*	*16.68*	*16.47*	*15.86*	*16.49*	*16.89*	*16.64*	**15.92**	*16.24*	*16.48*
E. N. Central	**13.13**	**13.75**	**13.33**	**13.71**	*13.18*	*13.90*	*13.62*	*13.93*	*13.41*	*14.19*	*13.89*	*14.20*	**13.47**	*13.65*	*13.91*
W. N. Central	**10.99**	**12.59**	**12.89**	**11.54**	*11.15*	*12.63*	*13.14*	*11.56*	*10.86*	*12.49*	*12.99*	*11.42*	**12.01**	*12.15*	*11.95*
S. Atlantic	**11.80**	**11.81**	**12.06**	**11.78**	*11.49*	*11.73*	*12.18*	*12.04*	*11.84*	*12.09*	*12.50*	*12.24*	**11.88**	*11.88*	*12.18*
E. S. Central	**11.25**	**11.57**	**11.29**	**11.53**	*11.12*	*11.62*	*11.49*	*11.78*	*11.34*	*11.83*	*11.64*	*11.90*	**11.39**	*11.49*	*11.66*
W. S. Central	**11.05**	**11.42**	**11.30**	**11.22**	*10.74*	*11.20*	*11.30*	*11.33*	*10.79*	*11.30*	*11.41*	*11.47*	**11.26**	*11.16*	*11.26*
Mountain	**11.42**	**12.08**	**12.19**	**11.22**	*11.47*	*12.18*	*12.35*	*11.36*	*11.62*	*12.29*	*12.41*	*11.42*	**11.79**	*11.90*	*11.99*
Pacific	**15.69**	**16.18**	**17.79**	**16.67**	*16.29*	*17.03*	*18.31*	*16.95*	*16.85*	*17.88*	*18.90*	*17.21*	**16.64**	*17.18*	*17.74*
U.S. Average	**12.90**	**13.24**	**13.36**	**13.20**	*12.85*	*13.33*	*13.55*	*13.45*	*13.11*	*13.64*	*13.81*	*13.63*	**13.19**	*13.31*	*13.56*
Commercial Sector															
New England	**16.24**	**15.66**	**15.96**	**15.70**	*16.10*	*15.83*	*16.53*	*16.42*	*16.89*	*16.55*	*17.14*	*16.90*	**15.90**	*16.23*	*16.88*
Middle Atlantic	**11.69**	**12.53**	**13.22**	**12.38**	*11.64*	*12.76*	*13.51*	*12.71*	*11.81*	*12.90*	*13.58*	*12.68*	**12.47**	*12.69*	*12.77*
E. N. Central	**9.95**	**10.38**	**10.19**	**10.25**	*10.01*	*10.53*	*10.41*	*10.49*	*10.21*	*10.73*	*10.61*	*10.67*	**10.18**	*10.36*	*10.56*
W. N. Central	**9.07**	**10.12**	**10.33**	**9.16**	*9.27*	*10.32*	*10.68*	*9.33*	*9.14*	*10.22*	*10.55*	*9.23*	**9.68**	*9.91*	*9.79*
S. Atlantic	**9.24**	**9.03**	**9.09**	**9.01**	*8.98*	*8.93*	*9.18*	*9.21*	*9.16*	*9.05*	*9.29*	*9.28*	**9.09**	*9.08*	*9.20*
E. S. Central	**10.75**	**10.83**	**10.60**	**10.67**	*10.68*	*10.81*	*10.77*	*10.92*	*10.88*	*10.98*	*10.94*	*11.09*	**10.70**	*10.79*	*10.97*
W. S. Central	**7.84**	**7.87**	**7.90**	**8.08**	*8.05*	*8.28*	*8.37*	*8.24*	*8.24*	*8.43*	*8.51*	*8.34*	**7.92**	*8.25*	*8.39*
Mountain	**9.01**	**9.82**	**10.09**	**9.14**	*9.15*	*9.98*	*10.28*	*9.18*	*9.12*	*9.95*	*10.23*	*9.19*	**9.54**	*9.68*	*9.65*
Pacific	**13.50**	**14.79**	**17.20**	**14.79**	*13.58*	*15.15*	*17.77*	*15.06*	*13.75*	*15.42*	*18.00*	*15.32*	**15.11**	*15.46*	*15.69*
U.S. Average	**10.33**	**10.63**	**10.97**	**10.53**	*10.30*	*10.78*	*11.24*	*10.76*	*10.46*	*10.92*	*11.35*	*10.84*	**10.63**	*10.79*	*10.91*
Industrial Sector															
New England	**12.29**	**12.23**	**12.52**	**12.39**	*11.97*	*12.27*	*12.72*	*12.66*	*12.23*	*12.50*	*12.91*	*12.81*	**12.36**	*12.42*	*12.62*
Middle Atlantic	**6.36**	**6.35**	**6.41**	**6.30**	*6.35*	*6.38*	*6.34*	*6.19*	*6.26*	*6.26*	*6.22*	*6.05*	**6.36**	*6.32*	*6.20*
E. N. Central	**6.50**	**6.78**	**6.75**	**6.65**	*6.59*	*6.92*	*6.84*	*6.75*	*6.68*	*7.00*	*6.91*	*6.81*	**6.67**	*6.77*	*6.85*
W. N. Central	**6.93**	**7.32**	**7.89**	**6.69**	*7.10*	*7.40*	*8.03*	*6.84*	*7.24*	*7.54*	*8.16*	*6.95*	**7.21**	*7.35*	*7.48*
S. Atlantic	**5.98**	**6.10**	**6.50**	**6.04**	*5.99*	*6.31*	*6.60*	*6.10*	*6.03*	*6.34*	*6.63*	*6.10*	**6.16**	*6.25*	*6.28*
E. S. Central	**5.45**	**5.51**	**5.70**	**5.47**	*5.40*	*5.60*	*5.75*	*5.47*	*5.42*	*5.61*	*5.75*	*5.46*	**5.53**	*5.56*	*5.56*
W. S. Central	**5.04**	**4.98**	**5.23**	**4.97**	*4.77*	*4.71*	*5.04*	*4.81*	*4.66*	*4.60*	*4.90*	*4.70*	**5.06**	*4.83*	*4.72*
Mountain	**5.73**	**6.16**	**6.91**	**5.87**	*5.80*	*6.28*	*6.83*	*5.87*	*5.84*	*6.32*	*6.89*	*5.92*	**6.19**	*6.22*	*6.27*
Pacific	**8.97**	**10.34**	**12.37**	**10.72**	*9.47*	*10.84*	*12.57*	*10.99*	*9.79*	*11.17*	*12.98*	*11.37*	**10.66**	*11.03*	*11.40*
U.S. Average	**6.37**	**6.63**	**7.09**	**6.51**	*6.37*	*6.69*	*7.10*	*6.53*	*6.41*	*6.71*	*7.12*	*6.54*	**6.66**	*6.68*	*6.70*
All Sectors (a)															
New England	**18.01**	**17.62**	**17.80**	**17.40**	*18.08*	*17.90*	*18.44*	*18.39*	*19.30*	*19.04*	*19.49*	*19.26*	**17.72**	*18.21*	*19.28*
Middle Atlantic	**11.97**	**12.58**	**13.24**	**12.39**	*12.06*	*12.74*	*13.44*	*12.71*	*12.26*	*12.85*	*13.51*	*12.71*	**12.58**	*12.76*	*12.86*
E. N. Central	**9.92**	**10.47**	**10.35**	**10.19**	*10.02*	*10.56*	*10.49*	*10.41*	*10.24*	*10.75*	*10.66*	*10.57*	**10.23**	*10.37*	*10.55*
W. N. Central	**9.15**	**10.15**	**10.58**	**9.19**	*9.35*	*10.24*	*10.84*	*9.35*	*9.30*	*10.23*	*10.80*	*9.32*	**9.78**	*9.97*	*9.93*
S. Atlantic	**9.81**	**9.82**	**10.17**	**9.67**	*9.67*	*9.76*	*10.25*	*9.87*	*9.91*	*9.97*	*10.44*	*9.98*	**9.88**	*9.90*	*10.09*
E. S. Central	**9.25**	**9.41**	**9.56**	**9.24**	*9.25*	*9.42*	*9.72*	*9.44*	*9.43*	*9.55*	*9.83*	*9.53*	**9.38**	*9.47*	*9.59*
W. S. Central	**8.02**	**8.28**	**8.64**	**8.09**	*7.93*	*8.21*	*8.72*	*8.15*	*8.00*	*8.24*	*8.76*	*8.18*	**8.28**	*8.28*	*8.32*
Mountain	**8.84**	**9.58**	**10.14**	**8.90**	*8.95*	*9.67*	*10.17*	*8.95*	*9.00*	*9.71*	*10.19*	*8.99*	**9.42**	*9.49*	*9.52*
Pacific	**13.41**	**14.31**	**16.41**	**14.70**	*13.84*	*14.87*	*16.86*	*14.95*	*14.23*	*15.39*	*17.28*	*15.24*	**14.77**	*15.18*	*15.59*
U.S. Average	**10.29**	**10.64**	**11.11**	**10.45**	*10.32*	*10.71*	*11.25*	*10.65*	*10.51*	*10.88*	*11.40*	*10.75*	**10.64**	*10.75*	*10.91*

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

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Prices are not adjusted for inflation.

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*

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

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 7d part 1. U.S. Regional Electricity Generation, Electric Power Sector (billion kilowatthours), *continues on Table 7d part 2*

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
United States															
Natural Gas	**354.7**	**342.5**	**474.4**	**341.8**	*328.2*	*332.5*	*438.1*	*331.3*	*311.8*	*321.6*	*437.1*	*326.5*	**1,513.4**	*1,430.0*	*1,397.1*
Coal	**170.3**	**151.1**	**248.0**	**198.2**	*193.7*	*176.3*	*261.1*	*204.2*	*222.6*	*187.0*	*267.9*	*210.9*	**767.6**	*835.4*	*888.4*
Nuclear	**204.1**	**190.7**	**204.1**	**191.4**	*198.9*	*189.4*	*205.4*	*188.8*	*188.8*	*185.5*	*196.6*	*185.4*	**790.3**	*782.4*	*756.2*
Renewable Energy Sources:	**189.1**	**206.5**	**177.4**	**187.7**	*208.9*	*229.7*	*190.7*	*202.5*	*222.0*	*248.3*	*208.4*	*214.3*	**760.6**	*831.8*	*892.9*
Conventional Hydropower	**74.9**	**81.3**	**70.9**	**63.2**	*73.2*	*80.8*	*63.4*	*58.1*	*69.1*	*80.5*	*63.9*	*58.3*	**290.3**	*275.4*	*271.8*
Wind	**86.4**	**87.2**	**68.1**	**96.1**	*101.4*	*102.4*	*80.1*	*109.8*	*111.4*	*110.2*	*86.7*	*115.8*	**337.8**	*393.7*	*424.1*
Solar (a)	**16.7**	**27.1**	**27.3**	**17.7**	*22.0*	*34.8*	*35.4*	*23.5*	*28.2*	*44.8*	*45.2*	*28.5*	**88.7**	*115.6*	*146.7*
Biomass	**7.2**	**6.7**	**7.0**	**6.7**	*8.3*	*7.5*	*7.7*	*7.3*	*9.1*	*8.5*	*8.3*	*7.8*	**27.6**	*30.8*	*33.8*
Geothermal	**3.9**	**4.2**	**4.2**	**3.9**	*3.9*	*4.2*	*4.2*	*3.9*	*4.1*	*4.2*	*4.3*	*4.0*	**16.2**	*16.2*	*16.5*
Pumped Storage Hydropower	**-1.0**	**-1.2**	**-2.0**	**-1.3**	*-1.1*	*-1.2*	*-2.1*	*-1.2*	*-0.9*	*-1.2*	*-2.2*	*-1.3*	**-5.5**	*-5.6*	*-5.5*
Petroleum (b)	**4.0**	**4.0**	**4.6**	**3.8**	*3.3*	*4.1*	*4.4*	*3.9*	*3.4*	*4.3*	*4.4*	*4.0*	**16.4**	*15.7*	*16.1*
Other Gases	**1.0**	**0.4**	**0.8**	**0.9**	*1.0*	*0.3*	*0.6*	*0.9*	*0.9*	*0.4*	*0.7*	*0.9*	**3.1**	*2.9*	*2.8*
Other Nonrenewable Fuels (c)	**1.9**	**1.8**	**1.9**	**1.8**	*1.8*	*1.9*	*1.7*	*1.8*	*1.8*	*1.9*	*1.7*	*1.9*	**7.4**	*7.2*	*7.2*
Total Generation	**924.1**	**895.8**	**1,109.2**	**924.2**	*934.7*	*933.0*	*1,100.0*	*932.3*	*950.3*	*947.7*	*1,114.5*	*942.6*	**3,853.3**	*3,899.9*	*3,955.0*
New England (ISO-NE)															
Natural Gas	**10.8**	**10.0**	**16.1**	**10.7**	*11.2*	*9.8*	*16.5*	*12.4*	*11.2*	*12.2*	*17.5*	*12.4*	**47.6**	*49.9*	*53.3*
Coal	**0.1**	**0.0**	**0.0**	**0.0**	*0.1*	*0.0*	*0.0*	*0.1*	*0.3*	*0.0*	*0.0*	*0.0*	**0.1**	*0.1*	*0.4*
Nuclear	**7.3**	**4.9**	**7.3**	**6.1**	*7.0*	*7.1*	*7.2*	*5.6*	*7.0*	*6.2*	*7.2*	*7.2*	**25.7**	*26.9*	*27.6*
Conventional hydropower	**2.2**	**2.1**	**1.8**	**1.8**	*2.0*	*2.2*	*1.3*	*1.7*	*2.0*	*2.3*	*1.4*	*1.7*	**7.8**	*7.2*	*7.3*
Nonhydro renewables (d)	**2.6**	**2.7**	**2.4**	**2.7**	*3.4*	*3.0*	*2.6*	*3.1*	*3.7*	*3.3*	*2.8*	*3.4*	**10.5**	*12.2*	*13.4*
Other energy sources (e)	**0.3**	**0.3**	**0.4**	**0.4**	*0.4*	*0.4*	*0.3*	*0.4*	*0.4*	*0.4*	*0.4*	*0.4*	**1.4**	*1.5*	*1.6*
Total generation	**23.3**	**20.1**	**28.0**	**21.7**	*24.0*	*22.6*	*28.0*	*23.3*	*24.7*	*24.4*	*29.3*	*25.2*	**93.1**	*97.9*	*103.6*
Net energy for load (f)	**27.8**	**25.2**	**32.3**	**27.6**	*29.6*	*27.0*	*31.9*	*28.3*	*29.7*	*27.2*	*32.1*	*28.4*	**112.9**	*116.7*	*117.5*
New York (NYISO)															
Natural Gas	**12.4**	**11.4**	**20.6**	**13.1**	*15.6*	*15.8*	*20.8*	*15.6*	*16.7*	*15.3*	*21.3*	*15.7*	**57.4**	*67.8*	*68.9*
Coal	**0.1**	**0.0**	**0.0**	**0.0**	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	**0.1**	*0.0*	*0.0*
Nuclear	**10.7**	**9.2**	**9.0**	**9.6**	*9.1*	*7.5*	*7.1*	*6.8*	*6.5*	*7.0*	*6.7*	*7.0*	**38.6**	*30.5*	*27.2*
Conventional hydropower	**8.0**	**8.0**	**7.8**	**7.8**	*7.6*	*7.1*	*6.9*	*7.4*	*7.4*	*7.0*	*6.8*	*7.3*	**31.6**	*29.0*	*28.5*
Nonhydro renewables (d)	**2.0**	**2.0**	**1.7**	**2.2**	*2.1*	*2.2*	*1.9*	*2.6*	*2.8*	*2.9*	*2.5*	*3.3*	**7.9**	*8.8*	*11.5*
Other energy sources (e)	**0.2**	**0.1**	**0.1**	**0.2**	*0.2*	*0.2*	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	*0.2*	**0.6**	*0.6*	*0.6*
Total generation	**33.4**	**30.7**	**39.2**	**32.9**	*34.6*	*32.8*	*36.8*	*32.5*	*33.5*	*32.4*	*37.4*	*33.4*	**136.2**	*136.8*	*136.7*
Net energy for load (f)	**35.2**	**32.4**	**42.9**	**34.6**	*36.5*	*35.4*	*42.6*	*36.2*	*37.0*	*36.1*	*43.3*	*36.6*	**145.2**	*150.7*	*152.9*
Mid-Atlantic (PJM)															
Natural Gas	**78.4**	**69.9**	**97.6**	**64.5**	*80.2*	*77.7*	*89.6*	*71.2*	*74.6*	*79.5*	*95.3*	*75.7*	**310.3**	*318.7*	*325.0*
Coal	**33.7**	**29.6**	**46.6**	**38.7**	*42.4*	*34.7*	*48.9*	*44.1*	*51.2*	*36.4*	*49.4*	*42.9*	**148.6**	*170.0*	*179.9*
Nuclear	**68.9**	**67.1**	**70.9**	**68.8**	*68.0*	*65.7*	*72.3*	*62.3*	*58.9*	*59.1*	*62.7*	*57.9*	**275.6**	*268.4*	*238.6*
Conventional hydropower	**3.1**	**2.9**	**2.1**	**1.9**	*2.6*	*2.6*	*1.5*	*2.0*	*2.5*	*2.6*	*1.5*	*2.0*	**9.9**	*8.7*	*8.7*
Nonhydro renewables (d)	**10.3**	**10.2**	**7.8**	**11.3**	*11.9*	*12.3*	*9.2*	*13.0*	*12.9*	*13.6*	*10.2*	*13.9*	**39.6**	*46.4*	*50.6*
Other energy sources (e)	**0.6**	**0.5**	**0.4**	**0.7**	*0.6*	*0.3*	*0.3*	*0.9*	*0.6*	*0.5*	*0.4*	*0.9*	**2.2**	*2.0*	*2.4*
Total generation	**195.0**	**180.2**	**225.4**	**185.8**	*205.7*	*193.3*	*221.8*	*193.4*	*200.7*	*191.7*	*219.4*	*193.3*	**786.3**	*814.2*	*805.1*
Net energy for load (f)	**182.2**	**163.4**	**209.6**	**176.8**	*192.6*	*173.0*	*205.3*	*181.3*	*195.4*	*176.5*	*208.4*	*183.5*	**732.0**	*752.3*	*763.7*
Southeast (SERC)															
Natural Gas	**61.9**	**59.1**	**74.7**	**59.1**	*60.9*	*57.4*	*71.4*	*58.3*	*61.7*	*56.2*	*69.5*	*51.5*	**254.8**	*248.0*	*239.0*
Coal	**23.8**	**22.1**	**44.4**	**27.6**	*29.9*	*28.2*	*47.9*	*31.6*	*32.7*	*31.1*	*50.9*	*38.2*	**117.9**	*137.7*	*152.9*
Nuclear	**53.0**	**50.5**	**54.1**	**52.7**	*52.7*	*52.1*	*55.2*	*53.4*	*54.0*	*55.0*	*58.1*	*55.8*	**210.3**	*213.4*	*222.8*
Conventional hydropower	**11.1**	**10.2**	**8.8**	**8.8**	*10.6*	*7.4*	*6.4*	*7.7*	*10.1*	*7.3*	*6.4*	*7.6*	**38.9**	*32.0*	*31.4*
Nonhydro renewables (d)	**3.5**	**5.0**	**5.0**	**3.8**	*4.0*	*5.8*	*6.1*	*4.4*	*4.9*	*7.3*	*7.8*	*5.2*	**17.2**	*20.3*	*25.3*
Other energy sources (e)	**-0.1**	**-0.3**	**-0.6**	**-0.3**	*-0.1*	*-0.3*	*-0.6*	*-0.3*	*0.0*	*-0.4*	*-0.8*	*-0.3*	**-1.2**	*-1.2*	*-1.5*
Total generation	**153.2**	**146.7**	**186.4**	**151.7**	*158.1*	*150.6*	*186.4*	*155.1*	*163.4*	*156.6*	*191.9*	*158.0*	**637.9**	*650.1*	*669.9*
Net energy for load (f)	**157.5**	**152.7**	**186.5**	**152.6**	*162.5*	*158.6*	*188.5*	*156.6*	*164.5*	*161.2*	*191.0*	*158.3*	**649.3**	*666.3*	*675.0*
Florida (FRCC)															
Natural Gas	**40.0**	**45.7**	**52.8**	**41.2**	*33.8*	*42.5*	*47.0*	*36.4*	*33.7*	*41.7*	*46.3*	*36.3*	**179.7**	*159.7*	*158.1*
Coal	**2.1**	**3.5**	**5.7**	**4.5**	*4.0*	*6.4*	*5.9*	*4.9*	*4.3*	*6.8*	*6.4*	*4.6*	**15.8**	*21.2*	*22.2*
Nuclear	**7.3**	**7.6**	**7.6**	**7.0**	*7.8*	*7.0*	*7.9*	*6.8*	*7.8*	*7.3*	*8.0*	*7.1*	**29.5**	*29.6*	*30.3*
Conventional hydropower	**0.1**	**0.1**	**0.0**	**0.0**	*0.1*	*0.0*	*0.0*	*0.0*	*0.1*	*0.0*	*0.0*	*0.0*	**0.2**	*0.2*	*0.2*
Nonhydro renewables (d)	**1.8**	**2.4**	**2.3**	**1.9**	*2.6*	*3.3*	*3.0*	*2.5*	*3.3*	*4.2*	*3.4*	*2.7*	**8.4**	*11.4*	*13.6*
Other energy sources (e)	**0.9**	**0.8**	**0.9**	**0.7**	*0.8*	*0.7*	*0.8*	*0.7*	*0.9*	*0.7*	*0.8*	*0.7*	**3.3**	*3.1*	*3.1*
Total generation	**52.1**	**60.0**	**69.3**	**55.3**	*49.1*	*60.0*	*64.6*	*51.3*	*50.1*	*60.7*	*65.1*	*51.4*	**236.8**	*225.0*	*227.4*
Net energy for load (f)	**50.1**	**54.0**	**71.3**	**55.8**	*47.3*	*57.8*	*66.8*	*52.2*	*48.3*	*58.6*	*67.4*	*52.7*	**231.3**	*224.2*	*227.0*

(a) Solar generation from large-scale power plants with more than 1 megawatt of capacity. Excludes generation from small-scale solar photovoltaic systems.

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

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

(d) Wind, large-scale solar, biomass, and geothermal

(e) Pumped storage hydroelectric, petroleum, other gases, batteries, and other nonrenewable fuels. See notes (b) and (c).

(f) Regional generation from generating units operated by electric power sector, plus energy receipts from minus energy deliveries to U.S. balancing authorities outside region.

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

Data reflect generation supplied by power plants with a combined capacity of at least 1 megawatt operated by electric utilities and independent power producers.

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

Table 7d part 2. U.S. Regional Electricity Generation, Electric Power Sector (billion kilowatthours), *continued from Table 7d part 1*

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Midwest (MISO)															
Natural Gas	**43.9**	**43.2**	**53.4**	**38.6**	*37.6*	*39.6*	*47.6*	*35.0*	*34.1*	*38.8*	*49.8*	*38.1*	**179.1**	*159.8*	*160.7*
Coal	**51.0**	**41.1**	**68.5**	**57.2**	*57.1*	*50.6*	*75.0*	*58.6*	*68.6*	*54.8*	*77.5*	*57.7*	**218.0**	*241.3*	*258.5*
Nuclear	**26.6**	**22.9**	**24.4**	**21.3**	*24.6*	*23.2*	*24.9*	*24.3*	*24.0*	*22.3*	*23.5*	*22.7*	**95.2**	*96.9*	*92.6*
Conventional hydropower	**3.1**	**3.2**	**2.9**	**2.6**	*2.4*	*2.5*	*2.0*	*1.8*	*2.0*	*2.4*	*1.9*	*1.8*	**11.6**	*8.8*	*8.2*
Nonhydro renewables (d)	**20.3**	**20.1**	**16.3**	**24.8**	*24.6*	*24.5*	*19.3*	*27.2*	*26.3*	*25.9*	*20.7*	*28.0*	**81.5**	*95.5*	*101.0*
Other energy sources (e)	**1.5**	**1.3**	**1.4**	**0.9**	*0.9*	*1.5*	*1.2*	*0.9*	*0.8*	*1.6*	*1.2*	*1.0*	**5.1**	*4.5*	*4.6*
Total generation	**146.4**	**131.7**	**166.8**	**145.5**	*147.1*	*141.9*	*169.9*	*147.7*	*155.8*	*145.9*	*174.7*	*149.3*	**590.4**	*606.6*	*625.6*
Net energy for load (f)	**152.8**	**141.5**	**174.6**	**149.6**	*153.3*	*150.3*	*174.9*	*154.8*	*157.7*	*154.0*	*178.4*	*157.5*	**618.4**	*633.3*	*647.6*
Central (Southwest Power Pool)															
Natural Gas	**17.5**	**16.3**	**24.2**	**14.9**	*13.8*	*13.2*	*22.1*	*14.6*	*13.7*	*12.7*	*22.6*	*14.8*	**72.9**	*63.7*	*63.9*
Coal	**17.0**	**15.7**	**26.7**	**17.7**	*17.3*	*16.0*	*26.4*	*16.6*	*20.0*	*17.1*	*27.5*	*19.1*	**77.1**	*76.4*	*83.7*
Nuclear	**4.4**	**4.4**	**4.2**	**3.9**	*3.9*	*3.3*	*4.4*	*4.4*	*4.3*	*4.3*	*3.9*	*2.8*	**16.8**	*16.0*	*15.3*
Conventional hydropower	**5.9**	**6.0**	**5.2**	**4.6**	*3.6*	*4.0*	*3.7*	*3.2*	*3.1*	*4.0*	*3.7*	*3.2*	**21.7**	*14.5*	*13.9*
Nonhydro renewables (d)	**20.3**	**21.4**	**16.6**	**24.1**	*24.9*	*25.6*	*20.2*	*28.2*	*27.8*	*28.3*	*22.6*	*30.0*	**82.3**	*98.9*	*108.6*
Other energy sources (e)	**0.1**	**0.1**	**0.1**	**0.2**	*0.1*	*0.1*	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	*0.2*	**0.5**	*0.5*	*0.5*
Total generation	**65.1**	**63.8**	**77.0**	**65.4**	*63.7*	*62.3*	*76.9*	*67.2*	*69.0*	*66.5*	*80.4*	*70.1*	**271.3**	*270.0*	*286.0*
Net energy for load (f)	**62.8**	**63.7**	**74.9**	**60.5**	*60.5*	*61.3*	*74.3*	*61.2*	*64.7*	*64.4*	*77.7*	*63.9*	**262.0**	*257.3*	*270.6*
Texas (ERCOT)															
Natural Gas	**37.2**	**42.1**	**59.3**	**37.1**	*31.6*	*38.2*	*51.2*	*30.7*	*28.1*	*32.6*	*46.6*	*27.7*	**175.7**	*151.7*	*135.0*
Coal	**13.1**	**15.8**	**20.3**	**17.1**	*13.5*	*15.6*	*21.2*	*15.0*	*12.0*	*14.3*	*19.3*	*14.2*	**66.4**	*65.2*	*59.9*
Nuclear	**10.4**	**9.7**	**11.0**	**10.3**	*10.8*	*10.6*	*10.7*	*10.5*	*10.7*	*10.6*	*11.0*	*10.7*	**41.4**	*42.6*	*43.0*
Conventional hydropower	**0.3**	**0.3**	**0.3**	**0.2**	*0.2*	*0.2*	*0.1*	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	**1.1**	*0.7*	*0.7*
Nonhydro renewables (d)	**22.5**	**24.8**	**20.8**	**24.3**	*27.2*	*31.3*	*27.8*	*30.1*	*32.2*	*37.1*	*33.3*	*33.1*	**92.4**	*116.3*	*135.7*
Other energy sources (e)	**0.4**	**0.3**	**0.4**	**0.4**	*0.4*	*0.3*	*0.4*	*0.4*	*0.4*	*0.3*	*0.4*	*0.4*	**1.5**	*1.5*	*1.5*
Total generation	**84.1**	**93.0**	**112.1**	**89.5**	*83.7*	*96.3*	*111.3*	*86.8*	*83.7*	*95.1*	*110.7*	*86.2*	**378.6**	*378.1*	*375.7*
Net energy for load (f)	**84.1**	**93.0**	**112.1**	**89.5**	*83.7*	*96.3*	*111.3*	*86.8*	*83.7*	*95.1*	*110.7*	*86.2*	**378.6**	*378.1*	*375.7*
Northwest															
Natural Gas	**23.7**	**17.1**	**27.5**	**23.7**	*18.6*	*14.7*	*28.4*	*22.8*	*17.2*	*11.7*	*26.1*	*21.9*	**91.9**	*84.5*	*76.9*
Coal	**22.2**	**16.1**	**24.5**	**26.0**	*21.4*	*17.8*	*24.9*	*25.1*	*24.3*	*18.9*	*26.5*	*26.2*	**88.9**	*89.2*	*96.0*
Nuclear	**2.4**	**2.0**	**2.4**	**2.5**	*2.4*	*1.2*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	**9.5**	*8.5*	*9.6*
Conventional hydropower	**35.0**	**38.7**	**32.6**	**29.5**	*37.0*	*43.1*	*30.6*	*27.6*	*34.1*	*43.0*	*31.0*	*27.7*	**135.7**	*138.2*	*135.7*
Nonhydro renewables (d)	**13.7**	**14.4**	**12.7**	**13.6**	*16.0*	*16.6*	*14.5*	*15.7*	*18.2*	*18.5*	*16.0*	*16.9*	**54.2**	*62.8*	*69.7*
Other energy sources (e)	**0.2**	**0.2**	**0.1**	**0.2**	*0.1*	*0.2*	*0.1*	*0.2*	*0.1*	*0.1*	*0.1*	*0.2*	**0.7**	*0.6*	*0.5*
Total generation	**97.2**	**88.5**	**99.9**	**95.5**	*95.6*	*93.5*	*100.9*	*93.8*	*96.2*	*94.6*	*102.2*	*95.3*	**381.0**	*383.8*	*388.4*
Net energy for load (f)	**90.8**	**82.2**	**92.7**	**89.2**	*89.2*	*84.4*	*94.7*	*89.5*	*89.6*	*85.1*	*95.3*	*89.9*	**354.9**	*357.9*	*359.8*
Southwest															
Natural Gas	**11.8**	**14.7**	**20.4**	**14.5**	*9.0*	*11.6*	*19.6*	*12.0*	*5.2*	*8.7*	*18.7*	*10.8*	**61.4**	*52.3*	*43.4*
Coal	**5.3**	**5.3**	**8.8**	**6.5**	*6.2*	*5.4*	*8.4*	*5.7*	*7.4*	*6.0*	*7.6*	*5.4*	**25.8**	*25.7*	*26.5*
Nuclear	**8.3**	**7.6**	**8.7**	**7.0**	*8.5*	*7.6*	*8.6*	*7.7*	*8.4*	*7.5*	*8.6*	*7.7*	**31.6**	*32.4*	*32.2*
Conventional hydropower	**2.7**	**4.0**	**3.7**	**2.5**	*2.9*	*3.9*	*3.9*	*2.6*	*3.0*	*3.9*	*3.9*	*2.6*	**12.9**	*13.3*	*13.4*
Nonhydro renewables (d)	**2.5**	**3.1**	**2.5**	**2.3**	*3.3*	*3.8*	*3.2*	*3.2*	*4.4*	*4.8*	*4.2*	*4.0*	**10.4**	*13.5*	*17.3*
Other energy sources (e)	**0.0**	**0.1**	**0.1**	**0.0**	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	**0.2**	*0.2*	*0.2*
Total generation	**30.5**	**34.8**	**44.2**	**32.8**	*30.0*	*32.4*	*43.8*	*31.2*	*28.4*	*30.9*	*43.2*	*30.6*	**142.3**	*137.4*	*133.0*
Net energy for load (f)	**19.7**	**23.8**	**32.5**	**21.4**	*19.2*	*24.1*	*31.3*	*20.9*	*19.2*	*24.3*	*31.6*	*21.0*	**97.4**	*95.5*	*96.1*
California															
Natural Gas	**16.7**	**12.6**	**27.0**	**24.1**	*15.2*	*11.4*	*23.3*	*21.4*	*14.9*	*11.6*	*22.6*	*21.0*	**80.4**	*71.2*	*70.0*
Coal	**1.4**	**1.2**	**2.1**	**2.2**	*1.4*	*1.2*	*2.1*	*2.2*	*1.3*	*1.1*	*2.1*	*2.2*	**7.0**	*6.9*	*6.7*
Nuclear	**4.8**	**4.9**	**4.5**	**2.1**	*4.0*	*4.0*	*4.7*	*4.7*	*4.6*	*3.8*	*4.4*	*4.0*	**16.3**	*17.3*	*16.9*
Conventional hydropower	**3.1**	**5.6**	**5.4**	**3.1**	*4.0*	*7.3*	*6.5*	*3.5*	*4.4*	*7.6*	*6.7*	*3.7*	**17.2**	*21.2*	*22.4*
Nonhydro renewables (d)	**14.3**	**18.9**	**18.0**	**13.2**	*15.2*	*19.9*	*19.2*	*14.1*	*15.9*	*21.4*	*20.5*	*14.9*	**64.4**	*68.4*	*72.6*
Other energy sources (e)	**0.0**	**0.1**	**0.1**	**0.0**	*-0.1*	*0.0*	*0.1*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	**0.1**	*0.1*	*0.3*
Total generation	**40.3**	**43.2**	**57.1**	**44.7**	*39.6*	*43.8*	*55.8*	*45.9*	*41.1*	*45.6*	*56.5*	*45.8*	**185.4**	*185.2*	*188.9*
Net energy for load (f)	**57.4**	**60.5**	**75.9**	**62.5**	*56.9*	*61.2*	*74.6*	*60.5*	*57.0*	*61.7*	*75.0*	*60.8*	**256.4**	*253.2*	*254.4*

(a) Large-scale solar generation from power plants with more than 1 megawatt of capacity. Excludes generation from small-scale solar photovoltaic systems.

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

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

(d) Wind, large-scale solar, biomass, and geothermal

(e) Pumped storage hydroelectric, petroleum, other gases, batteries, and other nonrenewable fuels. See notes (b) and (c).

(f) Regional generation from generating units operated by electric power sector, plus energy receipts from minus energy deliveries to U.S. balancing authorities outside region.

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

Data reflect generation supplied by power plants with a combined capacity of at least 1 megawatt operated by electric utilities and independent power producers.

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Table 8a. U.S. Renewable Energy Consumption (Quadrillion Btu)

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Electric Power Sector															
Geothermal	**0.036**	**0.038**	**0.038**	**0.035**	*0.036*	*0.038*	*0.038*	*0.036*	*0.037*	*0.038*	*0.039*	*0.036*	**0.147**	*0.146*	*0.149*
Hydroelectric Power (a)	**0.667**	**0.724**	**0.631**	**0.569**	*0.691*	*0.694*	*0.599*	*0.559*	*0.691*	*0.694*	*0.597*	*0.556*	**2.591**	*2.543*	*2.538*
Solar (b)	**0.152**	**0.246**	**0.248**	**0.161**	*0.200*	*0.317*	*0.322*	*0.214*	*0.257*	*0.408*	*0.412*	*0.259*	**0.808**	*1.053*	*1.335*
Waste Biomass (c)	**0.062**	**0.058**	**0.059**	**0.059**	*0.065*	*0.064*	*0.061*	*0.061*	*0.069*	*0.066*	*0.065*	*0.063*	**0.238**	*0.251*	*0.263*
Wood Biomass	**0.049**	**0.043**	**0.048**	**0.046**	*0.063*	*0.052*	*0.058*	*0.052*	*0.072*	*0.066*	*0.064*	*0.057*	**0.185**	*0.224*	*0.259*
Wind	**0.786**	**0.794**	**0.620**	**0.875**	*0.923*	*0.932*	*0.729*	*0.999*	*1.015*	*1.003*	*0.789*	*1.054*	**3.075**	*3.584*	*3.861*
Subtotal	**1.752**	**1.904**	**1.643**	**1.745**	*1.979*	*2.096*	*1.807*	*1.920*	*2.140*	*2.275*	*1.966*	*2.025*	**7.044**	*7.802*	*8.405*
Industrial Sector															
Biofuel Losses and Co-products (d)	**0.197**	**0.135**	**0.179**	**0.187**	*0.179*	*0.184*	*0.195*	*0.195*	*0.190*	*0.194*	*0.197*	*0.200*	**0.698**	*0.754*	*0.781*
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**	**0.002**	**0.002**	**0.002**	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	**0.009**	*0.009*	*0.009*
Solar (b)	**0.007**	**0.010**	**0.010**	**0.007**	*0.007*	*0.011*	*0.011*	*0.008*	*0.008*	*0.012*	*0.012*	*0.008*	**0.033**	*0.037*	*0.041*
Waste Biomass (c)	**0.041**	**0.039**	**0.036**	**0.040**	*0.040*	*0.038*	*0.037*	*0.040*	*0.039*	*0.038*	*0.037*	*0.039*	**0.156**	*0.155*	*0.155*
Wood Biomass	**0.350**	**0.341**	**0.337**	**0.353**	*0.346*	*0.342*	*0.354*	*0.357*	*0.348*	*0.345*	*0.357*	*0.360*	**1.381**	*1.399*	*1.410*
Subtotal	**0.596**	**0.522**	**0.559**	**0.588**	*0.573*	*0.572*	*0.594*	*0.599*	*0.584*	*0.586*	*0.600*	*0.607*	**2.265**	*2.338*	*2.377*
Commercial Sector															
Geothermal	**0.006**	**0.006**	**0.006**	**0.006**	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	**0.024**	*0.024*	*0.024*
Solar (b)	**0.025**	**0.037**	**0.037**	**0.025**	*0.029*	*0.042*	*0.042*	*0.030*	*0.034*	*0.049*	*0.049*	*0.033*	**0.124**	*0.143*	*0.164*
Waste Biomass (c)	**0.010**	**0.008**	**0.009**	**0.009**	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	**0.036**	*0.036*	*0.036*
Wood Biomass	**0.021**	**0.021**	**0.021**	**0.021**	*0.020*	*0.020*	*0.021*	*0.021*	*0.020*	*0.020*	*0.021*	*0.021*	**0.083**	*0.082*	*0.082*
Subtotal	**0.068**	**0.077**	**0.079**	**0.067**	*0.070*	*0.083*	*0.085*	*0.072*	*0.075*	*0.090*	*0.091*	*0.076*	**0.291**	*0.309*	*0.332*
Residential Sector															
Geothermal	**0.010**	**0.010**	**0.010**	**0.010**	*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	**0.040**	*0.040*	*0.040*
Solar (e)	**0.058**	**0.087**	**0.087**	**0.062**	*0.068*	*0.102*	*0.103*	*0.071*	*0.076*	*0.115*	*0.115*	*0.078*	**0.294**	*0.343*	*0.384*
Wood Biomass	**0.124**	**0.124**	**0.125**	**0.131**	*0.124*	*0.124*	*0.125*	*0.131*	*0.124*	*0.124*	*0.125*	*0.131*	**0.503**	*0.503*	*0.503*
Subtotal	**0.191**	**0.220**	**0.222**	**0.203**	*0.201*	*0.236*	*0.238*	*0.211*	*0.210*	*0.248*	*0.250*	*0.219*	**0.836**	*0.886*	*0.926*
Transportation Sector															
Biomass-based Diesel (f)	**0.061**	**0.064**	**0.073**	**0.076**	*0.073*	*0.074*	*0.073*	*0.079*	*0.081*	*0.083*	*0.089*	*0.092*	**0.274**	*0.299*	*0.345*
Ethanol (f)	**0.257**	**0.220**	**0.267**	**0.262**	*0.247*	*0.267*	*0.281*	*0.277*	*0.259*	*0.283*	*0.285*	*0.283*	**1.006**	*1.071*	*1.110*
Subtotal	**0.318**	**0.284**	**0.340**	**0.337**	*0.320*	*0.341*	*0.354*	*0.355*	*0.340*	*0.367*	*0.373*	*0.375*	**1.280**	*1.370*	*1.455*
All Sectors Total															
Biomass-based Diesel (f)	**0.061**	**0.064**	**0.073**	**0.076**	*0.073*	*0.074*	*0.073*	*0.079*	*0.081*	*0.083*	*0.089*	*0.092*	**0.274**	*0.299*	*0.345*
Biofuel Losses and Co-products (d)	**0.197**	**0.135**	**0.179**	**0.187**	*0.179*	*0.184*	*0.195*	*0.195*	*0.190*	*0.194*	*0.197*	*0.200*	**0.698**	*0.754*	*0.781*
Ethanol (f)	**0.267**	**0.228**	**0.278**	**0.272**	*0.257*	*0.277*	*0.292*	*0.287*	*0.269*	*0.294*	*0.296*	*0.294*	**1.045**	*1.112*	*1.153*
Geothermal	**0.052**	**0.054**	**0.054**	**0.052**	*0.052*	*0.054*	*0.055*	*0.052*	*0.053*	*0.055*	*0.055*	*0.053*	**0.212**	*0.214*	*0.216*
Hydroelectric Power (a)	**0.670**	**0.727**	**0.634**	**0.571**	*0.694*	*0.697*	*0.602*	*0.562*	*0.694*	*0.697*	*0.600*	*0.558*	**2.602**	*2.554*	*2.549*
Solar (b)(e)	**0.238**	**0.373**	**0.376**	**0.254**	*0.304*	*0.472*	*0.478*	*0.321*	*0.375*	*0.583*	*0.587*	*0.379*	**1.240**	*1.575*	*1.924*
Waste Biomass (c)	**0.113**	**0.105**	**0.104**	**0.108**	*0.114*	*0.111*	*0.107*	*0.110*	*0.118*	*0.113*	*0.111*	*0.112*	**0.430**	*0.442*	*0.454*
Wood Biomass	**0.544**	**0.529**	**0.531**	**0.550**	*0.553*	*0.538*	*0.558*	*0.560*	*0.564*	*0.554*	*0.568*	*0.568*	**2.153**	*2.209*	*2.254*
Wind	**0.786**	**0.794**	**0.620**	**0.875**	*0.923*	*0.932*	*0.729*	*0.999*	*1.015*	*1.003*	*0.789*	*1.054*	**3.075**	*3.584*	*3.861*
Total Consumption	**2.926**	**3.007**	**2.844**	**2.940**	*3.143*	*3.328*	*3.077*	*3.158*	*3.349*	*3.566*	*3.280*	*3.302*	**11.717**	*12.706*	*13.496*

(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)

(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

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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*

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

Forecasts: EIA Short-Term Integrated Forecasting System.

Table 8b. U.S. Renewable Electricity Generation and Capacity

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Renewable Energy Electric Generating Capacity (megawatts, end of period)															
Electric Power Sector (a)															
Biomass	**6,632**	**6,551**	**6,590**	**6,592**	*6,485*	*6,487*	*6,412*	*6,498*	*6,543*	*6,544*	*6,544*	*6,544*	**6,592**	*6,498*	*6,544*
Waste	**3,943**	**3,862**	**3,864**	**3,865**	*3,902*	*3,904*	*3,829*	*3,914*	*3,917*	*3,918*	*3,918*	*3,918*	**3,865**	*3,914*	*3,918*
Wood	**2,689**	**2,689**	**2,727**	**2,727**	*2,584*	*2,584*	*2,584*	*2,584*	*2,626*	*2,626*	*2,626*	*2,626*	**2,727**	*2,584*	*2,626*
Conventional Hydroelectric	**79,499**	**79,486**	**79,656**	**79,607**	*79,748*	*79,696*	*79,774*	*79,816*	*79,828*	*79,833*	*79,868*	*79,871*	**79,607**	*79,816*	*79,871*
Geothermal	**2,506**	**2,506**	**2,506**	**2,506**	*2,506*	*2,506*	*2,506*	*2,548*	*2,548*	*2,548*	*2,548*	*2,548*	**2,506**	*2,548*	*2,548*
Large-Scale Solar (b)	**39,004**	**41,228**	**42,848**	**48,310**	*50,804*	*53,221*	*56,010*	*64,550*	*65,603*	*70,390*	*71,660*	*76,866*	**48,310**	*64,550*	*76,866*
Wind	**105,743**	**107,197**	**108,869**	**120,867**	*125,980*	*126,928*	*128,199*	*136,157*	*136,713*	*137,456*	*137,536*	*139,778*	**120,867**	*136,157*	*139,778*
Other Sectors (c)															
Biomass	**6,443**	**6,443**	**6,443**	**6,458**	*6,460*	*6,440*	*6,440*	*6,440*	*6,440*	*6,444*	*6,444*	*6,444*	**6,458**	*6,440*	*6,444*
Waste	**786**	**786**	**786**	**802**	*804*	*804*	*804*	*804*	*804*	*804*	*804*	*804*	**802**	*804*	*804*
Wood	**5,656**	**5,656**	**5,656**	**5,656**	*5,656*	*5,636*	*5,636*	*5,636*	*5,636*	*5,641*	*5,641*	*5,641*	**5,656**	*5,636*	*5,641*
Conventional Hydroelectric	**289**	**289**	**289**	**289**	*289*	*292*	*290*	*290*	*290*	*290*	*290*	*290*	**289**	*290*	*290*
Large-Scale Solar (b)	**441**	**453**	**458**	**459**	*471*	*471*	*471*	*486*	*486*	*486*	*486*	*486*	**459**	*486*	*486*
Small-Scale Solar (d)	**24,434**	**25,370**	**26,506**	**27,402**	*28,407*	*29,461*	*30,580*	*31,728*	*32,840*	*33,835*	*34,821*	*35,837*	**27,402**	*31,728*	*35,837*
Residential Sector	**15,072**	**15,700**	**16,428**	**17,133**	*17,775*	*18,423*	*19,094*	*19,789*	*20,490*	*21,111*	*21,750*	*22,410*	**17,133**	*19,789*	*22,410*
Commercial Sector	**7,486**	**7,730**	**8,079**	**8,232**	*8,536*	*8,879*	*9,261*	*9,649*	*9,997*	*10,311*	*10,599*	*10,897*	**8,232**	*9,649*	*10,897*
Industrial Sector	**1,875**	**1,939**	**1,998**	**2,038**	*2,097*	*2,159*	*2,225*	*2,290*	*2,353*	*2,413*	*2,471*	*2,530*	**2,038**	*2,290*	*2,530*
Wind	**118**	**344**	**353**	**353**	*353*	*353*	*353*	*353*	*353*	*353*	*353*	*353*	**353**	*353*	*353*
Renewable Electricity Generation (billion kilowatthours)															
Electric Power Sector (a)															
Biomass	**7.2**	**6.7**	**7.0**	**6.7**	*8.3*	*7.5*	*7.7*	*7.3*	*9.1*	*8.5*	*8.3*	*7.8*	**27.6**	*30.8*	*33.8*
Waste	**4.1**	**4.0**	**4.0**	**3.9**	*4.4*	*4.3*	*4.1*	*4.1*	*4.7*	*4.5*	*4.4*	*4.3*	**16.1**	*17.0*	*17.8*
Wood	**3.0**	**2.7**	**3.0**	**2.8**	*3.9*	*3.2*	*3.6*	*3.2*	*4.5*	*4.1*	*4.0*	*3.5*	**11.5**	*13.9*	*16.0*
Conventional Hydroelectric	**74.9**	**81.3**	**70.9**	**63.2**	*73.2*	*80.8*	*63.4*	*58.1*	*69.1*	*80.5*	*63.9*	*58.3*	**290.3**	*275.4*	*271.8*
Geothermal	**3.9**	**4.2**	**4.2**	**3.9**	*3.9*	*4.2*	*4.2*	*3.9*	*4.1*	*4.2*	*4.3*	*4.0*	**16.2**	*16.2*	*16.5*
Large-Scale Solar (b)	**16.7**	**27.1**	**27.3**	**17.7**	*22.0*	*34.8*	*35.4*	*23.5*	*28.2*	*44.8*	*45.2*	*28.5*	**88.7**	*115.6*	*146.7*
Wind	**86.4**	**87.2**	**68.1**	**96.1**	*101.4*	*102.4*	*80.1*	*109.8*	*111.4*	*110.2*	*86.7*	*115.8*	**337.8**	*393.7*	*424.1*
Other Sectors (c)															
Biomass	**7.4**	**7.1**	**7.0**	**7.2**	*7.3*	*7.1*	*7.0*	*7.2*	*7.3*	*7.1*	*7.0*	*7.2*	**28.6**	*28.5*	*28.5*
Waste	**0.7**	**0.7**	**0.7**	**0.7**	*0.7*	*0.7*	*0.7*	*0.7*	*0.7*	*0.7*	*0.7*	*0.7*	**2.8**	*2.7*	*2.7*
Wood	**6.7**	**6.4**	**6.3**	**6.5**	*6.6*	*6.4*	*6.3*	*6.5*	*6.6*	*6.4*	*6.3*	*6.5*	**25.9**	*25.8*	*25.8*
Conventional Hydroelectric	**0.3**	**0.3**	**0.3**	**0.3**	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	**1.2**	*1.2*	*1.2*
Large-Scale Solar (b)	**0.2**	**0.2**	**0.2**	**0.2**	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	**0.8**	*0.8*	*0.8*
Small-Scale Solar (d)	**8.4**	**12.4**	**12.4**	**8.7**	*9.8*	*14.6*	*14.7*	*10.1*	*11.3*	*16.8*	*16.7*	*11.5*	**41.9**	*49.2*	*56.3*
Residential Sector	**5.0**	**7.5**	**7.5**	**5.4**	*6.0*	*9.0*	*9.0*	*6.2*	*6.9*	*10.3*	*10.3*	*7.1*	**25.4**	*30.3*	*34.5*
Commercial Sector	**2.7**	**3.8**	**3.9**	**2.6**	*3.0*	*4.4*	*4.5*	*3.1*	*3.6*	*5.1*	*5.1*	*3.5*	**13.0**	*15.0*	*17.3*
Industrial Sector	**0.7**	**1.0**	**1.1**	**0.7**	*0.8*	*1.2*	*1.2*	*0.8*	*0.9*	*1.3*	*1.3*	*0.9*	**3.5**	*3.9*	*4.4*
Wind	**0.1**	**0.1**	**0.2**	**0.3**	*0.3*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	**0.8**	*0.9*	*0.9*

(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 1 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 1 megawatt).

(d) Solar photovoltaic systems smaller than one megawatt.

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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 Electric Power Monthly, DOE/EIA-0226.

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

Forecasts: EIA Short-Term Integrated Forecasting System.

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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Macroeconomic															
Real Gross Domestic Product															
(billion chained 2012 dollars - SAAR)	**19,011**	**17,303**	**18,597**	**18,726**	*18,820*	*18,967*	*19,221*	*19,444*	*19,661*	*19,848*	*20,003*	*20,134*	**18,409**	*19,113*	*19,911*
Real Personal Consumption Expend.															
(billion chained 2012 dollars - SAAR)	**13,118**	**11,860**	**12,925**	**13,045**	*12,979*	*13,117*	*13,346*	*13,502*	*13,629*	*13,732*	*13,813*	*13,899*	**12,737**	*13,236*	*13,768*
Real Private Fixed Investment															
(billion chained 2012 dollars - SAAR)	**3,375**	**3,096**	**3,315**	**3,416**	*3,494*	*3,513*	*3,532*	*3,553*	*3,575*	*3,599*	*3,627*	*3,652*	**3,301**	*3,523*	*3,613*
Business Inventory Change															
(billion chained 2012 dollars - SAAR)	**-52**	**-298**	**-1**	**60**	*95*	*88*	*82*	*111*	*139*	*142*	*142*	*137*	**-73**	*94*	*140*
Real Government Expenditures															
(billion chained 2012 dollars - SAAR)	**3,348**	**3,369**	**3,327**	**3,296**	*3,328*	*3,348*	*3,353*	*3,359*	*3,356*	*3,362*	*3,367*	*3,363*	**3,335**	*3,347*	*3,362*
Real Exports of Goods & Services															
(billion chained 2012 dollars - SAAR)	**2,495**	**1,927**	**2,167**	**2,258**	*2,336*	*2,390*	*2,453*	*2,526*	*2,598*	*2,663*	*2,717*	*2,764*	**2,212**	*2,426*	*2,686*
Real Imports of Goods & Services															
(billion chained 2012 dollars - SAAR)	**3,283**	**2,702**	**3,186**	**3,355**	*3,487*	*3,570*	*3,624*	*3,678*	*3,695*	*3,698*	*3,700*	*3,711*	**3,132**	*3,590*	*3,701*
Real Disposable Personal Income															
(billion chained 2012 dollars - SAAR)	**15,061**	**16,630**	**15,905**	**15,573**	*16,312*	*15,524*	*15,435*	*15,418*	*15,531*	*15,591*	*15,669*	*15,744*	**15,792**	*15,672*	*15,634*
Non-Farm Employment															
(millions)	**151.9**	**133.7**	**140.8**	**142.6**	*143.8*	*145.4*	*147.5*	*149.1*	*150.4*	*151.2*	*151.8*	*152.1*	**142.3**	*146.4*	*151.4*
Civilian Unemployment Rate															
(percent)	**3.8**	**13.1**	**8.8**	**6.8**	*6.0*	*5.6*	*4.9*	*4.4*	*4.0*	*3.8*	*3.8*	*3.9*	**8.1**	*5.2*	*3.9*
Housing Starts															
(millions - SAAR)	**1.48**	**1.08**	**1.43**	**1.55**	*1.58*	*1.51*	*1.44*	*1.40*	*1.34*	*1.32*	*1.29*	*1.26*	**1.39**	*1.48*	*1.30*
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	**107.7**	**93.7**	**102.4**	**104.5**	*106.1*	*106.6*	*107.5*	*108.6*	*110.1*	*111.5*	*112.4*	*113.1*	**102.1**	*107.2*	*111.8*
Manufacturing	**104.4**	**89.3**	**99.9**	**102.6**	*104.1*	*104.3*	*104.9*	*106.0*	*107.5*	*108.8*	*109.6*	*110.3*	**99.1**	*104.8*	*109.1*
Food	**116.5**	**107.9**	**113.5**	**115.7**	*117.0*	*117.6*	*117.8*	*118.3*	*118.9*	*119.5*	*120.0*	*120.5*	**113.4**	*117.7*	*119.7*
Paper	**94.7**	**87.2**	**87.0**	**91.7**	*92.7*	*92.8*	*93.1*	*93.6*	*94.3*	*95.1*	*95.6*	*95.8*	**90.1**	*93.0*	*95.2*
Petroleum and Coal Products	**105.0**	**82.7**	**89.3**	**90.8**	*91.2*	*92.2*	*93.2*	*94.3*	*95.1*	*95.6*	*95.8*	*95.9*	**91.9**	*92.7*	*95.6*
Chemicals	**99.8**	**93.7**	**96.3**	**98.0**	*102.4*	*106.4*	*109.4*	*110.9*	*111.5*	*111.7*	*112.0*	*112.6*	**97.0**	*107.3*	*111.9*
Nonmetallic Mineral Products	**122.2**	**106.3**	**113.0**	**117.0**	*116.0*	*115.3*	*115.5*	*115.7*	*116.0*	*116.2*	*116.8*	*117.6*	**114.6**	*115.6*	*116.7*
Primary Metals	**94.4**	**69.6**	**79.3**	**88.2**	*87.1*	*86.1*	*86.0*	*86.6*	*88.2*	*89.8*	*90.7*	*91.2*	**82.9**	*86.4*	*90.0*
Coal-weighted Manufacturing (a)	**106.5**	**94.1**	**100.7**	**104.2**	*104.8*	*104.9*	*105.5*	*106.3*	*107.5*	*108.5*	*109.2*	*109.8*	**101.4**	*105.4*	*108.7*
Distillate-weighted Manufacturing (a)	**98.8**	**85.6**	**92.2**	**95.1**	*95.6*	*95.8*	*96.1*	*96.5*	*97.1*	*97.6*	*98.2*	*98.6*	**92.9**	*96.0*	*97.9*
Electricity-weighted Manufacturing (a)	**105.1**	**89.4**	**98.3**	**102.2**	*102.5*	*102.6*	*103.1*	*104.0*	*105.3*	*106.5*	*107.2*	*107.7*	**98.7**	*103.1*	*106.7*
Natural Gas-weighted Manufacturing (a)	**107.8**	**94.0**	**100.2**	**103.9**	*104.2*	*104.5*	*105.3*	*106.3*	*107.7*	*108.9*	*109.6*	*110.1*	**101.5**	*105.1*	*109.1*
Price Indexes															
Consumer Price Index (all urban consumers)															
(index, 1982-1984=1.00)	**2.59**	**2.56**	**2.60**	**2.61**	*2.63*	*2.65*	*2.66*	*2.67*	*2.69*	*2.70*	*2.72*	*2.73*	**2.59**	*2.65*	*2.71*
Producer Price Index: All Commodities															
(index, 1982=1.00)	**1.97**	**1.87**	**1.94**	**1.98**	*2.01*	*2.03*	*2.03*	*2.03*	*2.04*	*2.06*	*2.06*	*2.06*	**1.94**	*2.03*	*2.06*
Producer Price Index: Petroleum															
(index, 1982=1.00)	**1.71**	**1.05**	**1.47**	**1.51**	*1.71*	*1.75*	*1.69*	*1.64*	*1.64*	*1.76*	*1.79*	*1.73*	**1.43**	*1.70*	*1.73*
GDP Implicit Price Deflator															
(index, 2012=100)	**113.4**	**112.9**	**113.8**	**114.3**	*114.6*	*115.1*	*115.6*	*116.2*	*116.6*	*117.3*	*118.0*	*118.6*	**113.6**	*115.4*	*117.6*
Miscellaneous															
Vehicle Miles Traveled (b)															
(million miles/day)	**7,751**	**6,869**	**8,287**	**7,968**	*7,639*	*8,501*	*8,789*	*8,727*	*8,129*	*9,170*	*9,179*	*8,879*	**7,721**	*8,418*	*8,842*
Air Travel Capacity															
(Available ton-miles/day, thousands)	**628**	**362**	**475**	**566**	*597*	*577*	*607*	*648*	*646*	*705*	*722*	*694*	**508**	*607*	*692*
Aircraft Utilization															
(Revenue ton-miles/day, thousands)	**328**	**152**	**208**	**268**	*302*	*305*	*350*	*377*	*399*	*447*	*455*	*432*	**239**	*334*	*433*
Airline Ticket Price Index															
(index, 1982-1984=100)	**250.8**	**203.7**	**200.6**	**215.1**	*194.4*	*189.5*	*181.6*	*189.0*	*187.5*	*207.2*	*213.3*	*229.2*	**217.5**	*188.6*	*209.3*
Raw Steel Production															
(million short tons per day)	**0.268**	**0.174**	**0.197**	**0.224**	*0.259*	*0.246*	*0.249*	*0.285*	*0.280*	*0.250*	*0.248*	*0.259*	**0.216**	*0.260*	*0.259*
Carbon Dioxide (CO2) Emissions (million metric tons)															
Petroleum	**552**	**442**	**518**	**519**	*519*	*538*	*556*	*564*	*555*	*572*	*581*	*581*	**2,031**	*2,178*	*2,289*
Natural Gas	**493**	**351**	**385**	**433**	*486*	*347*	*364*	*429*	*479*	*343*	*364*	*426*	**1,662**	*1,626*	*1,612*
Coal	**202**	**177**	**271**	**223**	*222*	*204*	*285*	*229*	*251*	*215*	*291*	*237*	**874**	*939*	*993*
Total Energy (c)	**1,250**	**973**	**1,177**	**1,177**	*1,229*	*1,093*	*1,208*	*1,224*	*1,287*	*1,133*	*1,238*	*1,247*	**4,578**	*4,754*	*4,905*

(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.

- = no data available

SAAR = Seasonally-adjusted annual rate

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

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

Forecasts: EIA Short-Term Integrated Forecasting System. U.S. macroeconomic forecasts 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 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Real Gross State Product (Billion $2009)															
New England	**993**	**901**	**969**	**973**	*978*	*986*	*999*	*1,010*	*1,021*	*1,030*	*1,038*	*1,044*	**959**	*993*	*1,033*
Middle Atlantic	**2,774**	**2,486**	**2,669**	**2,701**	*2,711*	*2,736*	*2,774*	*2,814*	*2,851*	*2,883*	*2,911*	*2,932*	**2,658**	*2,759*	*2,894*
E. N. Central	**2,502**	**2,266**	**2,458**	**2,464**	*2,475*	*2,495*	*2,524*	*2,550*	*2,575*	*2,595*	*2,612*	*2,627*	**2,423**	*2,511*	*2,602*
W. N. Central	**1,188**	**1,084**	**1,168**	**1,172**	*1,175*	*1,181*	*1,195*	*1,206*	*1,217*	*1,227*	*1,237*	*1,244*	**1,153**	*1,189*	*1,231*
S. Atlantic	**3,388**	**3,114**	**3,337**	**3,356**	*3,368*	*3,395*	*3,440*	*3,476*	*3,514*	*3,543*	*3,568*	*3,591*	**3,299**	*3,420*	*3,554*
E. S. Central	**828**	**742**	**809**	**814**	*817*	*822*	*832*	*840*	*849*	*857*	*863*	*868*	**798**	*828*	*859*
W. S. Central	**2,317**	**2,125**	**2,267**	**2,292**	*2,301*	*2,316*	*2,346*	*2,373*	*2,402*	*2,428*	*2,451*	*2,472*	**2,250**	*2,334*	*2,438*
Mountain	**1,283**	**1,177**	**1,265**	**1,275**	*1,280*	*1,289*	*1,306*	*1,320*	*1,334*	*1,345*	*1,354*	*1,364*	**1,250**	*1,299*	*1,350*
Pacific	**3,769**	**3,436**	**3,684**	**3,710**	*3,747*	*3,780*	*3,837*	*3,886*	*3,931*	*3,972*	*4,001*	*4,025*	**3,650**	*3,813*	*3,982*
Industrial Output, Manufacturing (Index, Year 2012=100)															
New England	**97.6**	**83.5**	**92.6**	**95.6**	*97.1*	*97.6*	*98.2*	*99.3*	*100.3*	*101.3*	*101.9*	*102.5*	**92.3**	*98.0*	*101.5*
Middle Atlantic	**97.1**	**80.3**	**91.0**	**92.9**	*94.3*	*94.7*	*95.5*	*96.8*	*98.4*	*99.9*	*100.9*	*101.8*	**90.3**	*95.3*	*100.2*
E. N. Central	**105.1**	**86.1**	**99.3**	**101.8**	*103.5*	*103.9*	*104.2*	*105.8*	*107.2*	*108.4*	*109.3*	*110.0*	**98.1**	*104.3*	*108.7*
W. N. Central	**103.7**	**90.3**	**100.5**	**102.9**	*104.4*	*104.5*	*104.9*	*106.0*	*107.4*	*108.6*	*109.5*	*110.2*	**99.3**	*104.9*	*108.9*
S. Atlantic	**109.2**	**94.4**	**105.1**	**108.1**	*109.8*	*109.8*	*110.6*	*111.7*	*113.1*	*114.5*	*115.2*	*115.8*	**104.2**	*110.5*	*114.6*
E. S. Central	**109.0**	**90.1**	**104.2**	**107.5**	*109.5*	*109.4*	*109.8*	*111.0*	*112.1*	*113.1*	*113.8*	*114.1*	**102.7**	*109.9*	*113.3*
W. S. Central	**99.8**	**87.8**	**95.5**	**98.2**	*99.2*	*99.0*	*99.7*	*100.9*	*102.7*	*104.2*	*105.1*	*105.7*	**95.3**	*99.7*	*104.4*
Mountain	**114.7**	**102.7**	**114.0**	**117.4**	*119.0*	*119.0*	*119.5*	*120.5*	*121.9*	*123.2*	*124.1*	*124.8*	**112.2**	*119.5*	*123.5*
Pacific	**102.4**	**86.8**	**95.6**	**97.4**	*98.6*	*98.7*	*99.6*	*100.6*	*102.3*	*104.0*	*105.0*	*105.9*	**95.5**	*99.4*	*104.3*
Real Personal Income (Billion $2009)															
New England	**890**	**978**	**937**	**906**	*942*	*905*	*901*	*901*	*907*	*911*	*916*	*921*	**928**	*912*	*914*
Middle Atlantic	**2,305**	**2,509**	**2,426**	**2,357**	*2,448*	*2,336*	*2,328*	*2,327*	*2,348*	*2,360*	*2,374*	*2,386*	**2,399**	*2,360*	*2,367*
E. N. Central	**2,453**	**2,695**	**2,577**	**2,515**	*2,618*	*2,507*	*2,497*	*2,496*	*2,511*	*2,520*	*2,532*	*2,543*	**2,560**	*2,529*	*2,526*
W. N. Central	**1,158**	**1,259**	**1,190**	**1,182**	*1,231*	*1,185*	*1,178*	*1,173*	*1,177*	*1,180*	*1,185*	*1,191*	**1,197**	*1,192*	*1,183*
S. Atlantic	**3,272**	**3,511**	**3,416**	**3,370**	*3,514*	*3,379*	*3,369*	*3,363*	*3,385*	*3,398*	*3,416*	*3,436*	**3,392**	*3,406*	*3,408*
E. S. Central	**909**	**989**	**937**	**927**	*975*	*934*	*930*	*927*	*933*	*935*	*940*	*944*	**941**	*942*	*938*
W. S. Central	**2,037**	**2,201**	**2,115**	**2,083**	*2,173*	*2,090*	*2,078*	*2,074*	*2,093*	*2,104*	*2,119*	*2,134*	**2,109**	*2,103*	*2,113*
Mountain	**1,216**	**1,322**	**1,267**	**1,246**	*1,296*	*1,246*	*1,243*	*1,241*	*1,249*	*1,254*	*1,260*	*1,268*	**1,263**	*1,257*	*1,258*
Pacific	**2,833**	**3,042**	**2,988**	**2,955**	*3,083*	*2,928*	*2,917*	*2,912*	*2,932*	*2,946*	*2,961*	*2,977*	**2,954**	*2,960*	*2,954*
Households (Thousands)															
New England	**5,896**	**5,877**	**5,900**	**5,924**	*5,937*	*5,950*	*5,963*	*5,975*	*5,987*	*5,997*	*6,006*	*6,014*	**5,924**	*5,975*	*6,014*
Middle Atlantic	**16,161**	**16,102**	**16,164**	**16,234**	*16,274*	*16,311*	*16,344*	*16,374*	*16,402*	*16,428*	*16,448*	*16,471*	**16,234**	*16,374*	*16,471*
E. N. Central	**18,864**	**18,814**	**18,901**	**18,988**	*19,040*	*19,094*	*19,143*	*19,190*	*19,232*	*19,258*	*19,280*	*19,305*	**18,988**	*19,190*	*19,305*
W. N. Central	**8,646**	**8,631**	**8,677**	**8,732**	*8,764*	*8,794*	*8,820*	*8,846*	*8,868*	*8,890*	*8,910*	*8,926*	**8,732**	*8,846*	*8,926*
S. Atlantic	**25,669**	**25,649**	**25,815**	**25,999**	*26,124*	*26,241*	*26,349*	*26,456*	*26,553*	*26,649*	*26,734*	*26,814*	**25,999**	*26,456*	*26,814*
E. S. Central	**7,659**	**7,647**	**7,689**	**7,738**	*7,768*	*7,795*	*7,819*	*7,843*	*7,865*	*7,885*	*7,903*	*7,918*	**7,738**	*7,843*	*7,918*
W. S. Central	**14,887**	**14,880**	**14,981**	**15,097**	*15,173*	*15,245*	*15,312*	*15,378*	*15,439*	*15,498*	*15,553*	*15,603*	**15,097**	*15,378*	*15,603*
Mountain	**9,464**	**9,470**	**9,544**	**9,628**	*9,688*	*9,745*	*9,799*	*9,852*	*9,901*	*9,945*	*9,986*	*10,022*	**9,628**	*9,852*	*10,022*
Pacific	**18,779**	**18,739**	**18,838**	**18,950**	*19,012*	*19,068*	*19,121*	*19,172*	*19,222*	*19,264*	*19,305*	*19,338*	**18,950**	*19,172*	*19,338*
Total Non-farm Employment (Millions)															
New England	**7.5**	**6.4**	**6.8**	**6.9**	*7.0*	*7.1*	*7.2*	*7.3*	*7.4*	*7.4*	*7.4*	*7.5*	**6.9**	*7.1*	*7.4*
Middle Atlantic	**20.1**	**16.8**	**18.0**	**18.3**	*18.5*	*18.7*	*19.0*	*19.3*	*19.5*	*19.8*	*19.9*	*20.0*	**18.3**	*18.9*	*19.8*
E. N. Central	**22.3**	**19.3**	**20.6**	**20.8**	*21.0*	*21.3*	*21.5*	*21.8*	*22.0*	*22.1*	*22.1*	*22.2*	**20.8**	*21.4*	*22.1*
W. N. Central	**10.8**	**9.8**	**10.2**	**10.3**	*10.4*	*10.4*	*10.5*	*10.6*	*10.7*	*10.7*	*10.8*	*10.8*	**10.3**	*10.5*	*10.7*
S. Atlantic	**29.4**	**26.4**	**27.6**	**28.0**	*28.2*	*28.4*	*28.8*	*29.1*	*29.4*	*29.5*	*29.6*	*29.6*	**27.8**	*28.6*	*29.5*
E. S. Central	**8.3**	**7.5**	**7.9**	**8.0**	*8.1*	*8.1*	*8.2*	*8.3*	*8.3*	*8.3*	*8.3*	*8.3*	**8.0**	*8.2*	*8.3*
W. S. Central	**18.0**	**16.4**	**16.9**	**17.2**	*17.3*	*17.4*	*17.6*	*17.8*	*18.0*	*18.1*	*18.1*	*18.2*	**17.1**	*17.5*	*18.1*
Mountain	**11.2**	**10.2**	**10.6**	**10.8**	*10.8*	*10.9*	*11.1*	*11.2*	*11.3*	*11.3*	*11.4*	*11.4*	**10.7**	*11.0*	*11.3*
Pacific	**24.0**	**20.9**	**21.8**	**22.1**	*22.4*	*22.8*	*23.1*	*23.4*	*23.7*	*23.8*	*23.9*	*24.0*	**22.2**	*22.9*	*23.8*

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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.

Forecasts: U.S. macroeconomic forecasts 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 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Heating Degree Days															
New England	**2,736**	**971**	**114**	**1,994**	*3,016*	*853*	*124*	*2,097*	*3,070*	*851*	*124*	*2,097*	**5,815**	*6,090*	*6,142*
Middle Atlantic	**2,471**	**837**	**86**	**1,838**	*2,786*	*675*	*75*	*1,917*	*2,867*	*677*	*75*	*1,917*	**5,233**	*5,454*	*5,536*
E. N. Central	**2,788**	**847**	**126**	**2,100**	*2,993*	*706*	*114*	*2,231*	*3,146*	*718*	*114*	*2,231*	**5,861**	*6,045*	*6,210*
W. N. Central	**3,036**	**797**	**168**	**2,309**	*3,051*	*682*	*156*	*2,452*	*3,250*	*699*	*156*	*2,452*	**6,310**	*6,341*	*6,558*
South Atlantic	**1,108**	**252**	**17**	**875**	*1,349*	*184*	*10*	*906*	*1,368*	*188*	*10*	*905*	**2,252**	*2,450*	*2,471*
E. S. Central	**1,482**	**336**	**20**	**1,224**	*1,731*	*232*	*17*	*1,256*	*1,809*	*246*	*17*	*1,256*	**3,062**	*3,235*	*3,328*
W. S. Central	**970**	**102**	**8**	**736**	*1,043*	*69*	*4*	*773*	*1,162*	*85*	*4*	*772*	**1,815**	*1,888*	*2,023*
Mountain	**2,213**	**672**	**127**	**1,769**	*2,175*	*665*	*144*	*1,824*	*2,189*	*667*	*144*	*1,823*	**4,781**	*4,808*	*4,823*
Pacific	**1,541**	**526**	**65**	**1,080**	*1,479*	*577*	*86*	*1,198*	*1,518*	*576*	*86*	*1,198*	**3,212**	*3,339*	*3,378*
U.S. Average	**1,876**	**540**	**71**	**1,417**	*2,014*	*470*	*70*	*1,494*	*2,090*	*476*	*70*	*1,492*	**3,903**	*4,048*	*4,128*
Heating Degree Days, Prior 10-year Average															
New England	**3,152**	**823**	**105**	**2,128**	*3,133*	*856*	*107*	*2,099*	*3,101*	*860*	*111*	*2,121*	**6,207**	*6,195*	*6,193*
Middle Atlantic	**2,948**	**644**	**69**	**1,944**	*2,913*	*677*	*72*	*1,912*	*2,884*	*685*	*73*	*1,928*	**5,606**	*5,574*	*5,571*
E. N. Central	**3,197**	**698**	**102**	**2,197**	*3,157*	*731*	*105*	*2,170*	*3,124*	*727*	*102*	*2,196*	**6,194**	*6,162*	*6,149*
W. N. Central	**3,287**	**702**	**132**	**2,379**	*3,247*	*728*	*133*	*2,367*	*3,201*	*722*	*132*	*2,398*	**6,500**	*6,474*	*6,452*
South Atlantic	**1,459**	**169**	**10**	**952**	*1,393*	*180*	*11*	*914*	*1,378*	*184*	*11*	*915*	**2,589**	*2,498*	*2,487*
E. S. Central	**1,850**	**214**	**15**	**1,277**	*1,772*	*231*	*16*	*1,249*	*1,757*	*235*	*14*	*1,250*	**3,356**	*3,268*	*3,257*
W. S. Central	**1,199**	**83**	**3**	**794**	*1,140*	*86*	*3*	*786*	*1,119*	*88*	*3*	*782*	**2,078**	*2,015*	*1,992*
Mountain	**2,192**	**718**	**135**	**1,844**	*2,181*	*701*	*134*	*1,843*	*2,161*	*682*	*135*	*1,829*	**4,889**	*4,859*	*4,808*
Pacific	**1,456**	**580**	**85**	**1,162**	*1,462*	*553*	*81*	*1,147*	*1,447*	*532*	*80*	*1,136*	**3,284**	*3,243*	*3,195*
U.S. Average	**2,149**	**472**	**64**	**1,509**	*2,108*	*482*	*65*	*1,484*	*2,082*	*478*	*64*	*1,488*	**4,194**	*4,138*	*4,112*
Cooling Degree Days															
New England	**0**	**103**	**545**	**0**	*0*	*88*	*424*	*2*	*0*	*88*	*424*	*2*	**648**	*514*	*514*
Middle Atlantic	**0**	**157**	**679**	**5**	*0*	*160*	*558*	*5*	*0*	*160*	*558*	*5*	**840**	*723*	*723*
E. N. Central	**2**	**216**	**608**	**2**	*0*	*227*	*555*	*7*	*0*	*226*	*555*	*7*	**828**	*789*	*789*
W. N. Central	**6**	**296**	**664**	**3**	*3*	*273*	*678*	*10*	*3*	*271*	*677*	*10*	**968**	*964*	*962*
South Atlantic	**196**	**620**	**1,233**	**302**	*114*	*666*	*1,190*	*250*	*132*	*669*	*1,191*	*251*	**2,352**	*2,220*	*2,243*
E. S. Central	**73**	**424**	**1,061**	**81**	*24*	*535*	*1,089*	*75*	*28*	*530*	*1,088*	*75*	**1,638**	*1,723*	*1,722*
W. S. Central	**174**	**840**	**1,501**	**212**	*93*	*920*	*1,535*	*214*	*87*	*899*	*1,535*	*214*	**2,726**	*2,762*	*2,735*
Mountain	**10**	**465**	**1,082**	**113**	*18*	*442*	*941*	*80*	*20*	*443*	*942*	*80*	**1,670**	*1,481*	*1,485*
Pacific	**24**	**197**	**716**	**126**	*26*	*170*	*589*	*59*	*27*	*169*	*589*	*59*	**1,064**	*844*	*844*
U.S. Average	**71**	**396**	**935**	**122**	*42*	*416*	*875*	*100*	*45*	*414*	*876*	*100*	**1,524**	*1,433*	*1,437*
Cooling Degree Days, Prior 10-year Average															
New England	**0**	**83**	**471**	**1**	*0*	*81*	*474*	*1*	*0*	*82*	*469*	*1*	**554**	*556*	*552*
Middle Atlantic	**0**	**170**	**609**	**6**	*0*	*163*	*609*	*6*	*0*	*160*	*601*	*7*	**785**	*779*	*767*
E. N. Central	**3**	**240**	**579**	**8**	*3*	*234*	*572*	*7*	*3*	*235*	*564*	*7*	**829**	*816*	*809*
W. N. Central	**7**	**296**	**696**	**11**	*7*	*294*	*686*	*10*	*7*	*295*	*675*	*10*	**1,010**	*998*	*987*
South Atlantic	**127**	**696**	**1,202**	**247**	*143*	*680*	*1,196*	*261*	*143*	*674*	*1,192*	*266*	**2,272**	*2,279*	*2,275*
E. S. Central	**36**	**557**	**1,082**	**72**	*42*	*532*	*1,065*	*74*	*42*	*528*	*1,064*	*79*	**1,747**	*1,713*	*1,713*
W. S. Central	**100**	**892**	**1,576**	**207**	*114*	*880*	*1,567*	*210*	*113*	*868*	*1,542*	*214*	**2,774**	*2,772*	*2,737*
Mountain	**24**	**432**	**939**	**81**	*24*	*444*	*954*	*86*	*24*	*453*	*948*	*86*	**1,476**	*1,508*	*1,511*
Pacific	**31**	**185**	**624**	**78**	*31*	*193*	*647*	*85*	*31*	*199*	*652*	*85*	**917**	*956*	*967*
U.S. Average	**47**	**420**	**892**	**100**	*52*	*415*	*894*	*105*	*53*	*414*	*888*	*107*	**1,459**	*1,466*	*1,462*

- = no data available

Notes: EIA completed modeling and analysis for this report on Thursday February 4, 2021.

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

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

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.

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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).

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

Appendix to the February 2021 *Short-Term Energy Outlook*

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.

This appendix is published in the *Short-Term Energy Outlook* in even numbered months.

Table a1. Summary of Estimated Petroleum and Other Liquids Quantities

	Dec 2020	Jan 2021	Dec 2020 - Jan 2021 Average	Dec 2019 - Jan 2020 Average	2017 - 2019 Average
Global Petroleum and Other Liquids (million barrels per day)					
Global Petroleum and Other Liquids Production (a)	93.8	94.0	93.9	101.5	99.9
Global Petroleum and Other Liquids Consumption (b)	96.2	93.9	95.1	99.5	100.0
Biofuels Production (c)	2.0	1.9	2.0	2.1	2.5
Biofuels Consumption (c)	2.3	2.2	2.2	2.3	2.3
Iran Liquid Fuels Production	2.9	2.9	2.9	2.9	4.1
Iran Liquid Fuels Consumption	2.0	2.1	2.1	1.8	1.8
Petroleum and Petroleum Products Produced and Consumed in Countries Other Than Iran (million barrels per day)					
Production (d)	88.9	89.1	89.0	96.5	93.3
Consumption (d)	91.9	89.5	90.7	95.4	95.9
Production minus Consumption	-3.0	-0.5	-1.7	1.1	-2.6
World Inventory Net Withdrawals Including Iran	2.4	-0.1	1.2	-2.0	0.1
Estimated OECD Inventory Level (e) (million barrels)	3,045	3,030	3,038	2,891	2,910
Surplus Production Capacity (million barrels per day)					
OPEC Surplus Crude Oil Production Capacity (f)	7.7	6.7	7.2	2.9	2.0

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	Dec 2020	Jan 2021	Dec 2020 - Jan 2021 Average	Dec 2019 - Jan 2020 Average	2017 - 2019 Average
Brent Front Month Futures Price ($ per barrel)	50.22	55.32	52.58	64.47	63.53
WTI Front Month Futures Price ($ per barrel)	47.07	52.10	49.40	58.75	57.60
Dubai Front Month Futures Price ($ per barrel)	50.13	54.91	52.35	65.16	62.36
Brent 1st - 13th Month Futures Spread ($ per barrel)	0.87	2.76	1.75	5.38	2.02
WTI 1st - 13th Month Futures Spread ($ per barrel)	0.63	2.70	1.59	4.18	1.39
RBOB Front Month Futures Price ($ per gallon)	1.33	1.53	1.42	1.64	1.76
Heating Oil Front Month Futures Price ($ per gallon)	1.45	1.58	1.51	1.92	1.90
RBOB - Brent Futures Crack Spread ($ per gallon)	0.13	0.21	0.17	0.11	0.24
Heating Oil - Brent Futures Crack Spread ($ per gallon)	50.22	55.32	52.58	64.47	63.53
Heating Oil - Brent Futures Crack Spread ($ per gallon)	0.25	0.26	0.26	0.39	0.39

(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.
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