



Statistical Review of World Energy

2021 | 70th edition



70

Reviewing world energy
data for 70 years

Nuclear energy

Consumption*

| Exajoules (input-equivalent) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Growth rate per annum | | Share 2020 | |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|--------------|---------------|
| | | | | | | | | | | | 2020 | 2020 | 2009-19 | |
| Canada | 0.85 | 0.87 | 0.87 | 0.95 | 0.98 | 0.92 | 0.91 | 0.91 | 0.90 | 0.90 | 0.87 | -3.6% | 0.6% | 3.6% |
| Mexico | 0.06 | 0.09 | 0.08 | 0.11 | 0.09 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | -0.8% | 0.3% | 0.4% |
| US | 7.97 | 7.76 | 7.51 | 7.66 | 7.69 | 7.64 | 7.68 | 7.63 | 7.60 | 7.60 | 7.39 | -3.0% | -0.4% | 30.8% |
| Total North America | 8.87 | 8.72 | 8.46 | 8.71 | 8.75 | 8.67 | 8.69 | 8.63 | 8.58 | 8.59 | 8.35 | -3.1% | -0.3% | 34.8% |
| Argentina | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.08 | 0.05 | 0.06 | 0.08 | 0.09 | 25.5% | -0.3% | 0.4% |
| Brazil | 0.14 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | -5.8% | 1.6% | 0.6% |
| Chile | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Colombia | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ecuador | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Peru | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Trinidad & Tobago | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Venezuela | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other S. & Cent. America | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total S. & Cent. America | 0.20 | 0.21 | 0.21 | 0.20 | 0.19 | 0.20 | 0.22 | 0.20 | 0.20 | 0.22 | 0.23 | 5.0% | 0.9% | 1.0% |
| Austria | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Belgium | 0.45 | 0.45 | 0.37 | 0.39 | 0.31 | 0.24 | 0.39 | 0.38 | 0.26 | 0.39 | 0.31 | -21.6% | -1.4% | 1.3% |
| Czech Republic | 0.26 | 0.26 | 0.28 | 0.28 | 0.28 | 0.24 | 0.22 | 0.26 | 0.27 | 0.27 | 0.27 | -1.3% | 0.5% | 1.1% |
| Finland | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 | 0.20 | 0.21 | 0.22 | 0.21 | -3.1% | -0.4% | 0.9% |
| France | 4.02 | 4.13 | 3.94 | 3.91 | 4.00 | 3.98 | 3.65 | 3.59 | 3.69 | 3.56 | 3.14 | -11.9% | -0.8% | 13.1% |
| Germany | 1.32 | 1.01 | 0.92 | 0.90 | 0.89 | 0.84 | 0.77 | 0.69 | 0.68 | 0.67 | 0.57 | -14.8% | -6.2% | 2.4% |
| Greece | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hungary | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.15 | 0.14 | 0.14 | 0.15 | 0.14 | -2.1% | ♦ | 0.6% |
| Italy | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Netherlands | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 3.8% | -1.4% | 0.2% |
| Norway | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Poland | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Portugal | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Romania | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 1.0% | -1.0% | 0.4% |
| Spain | 0.58 | 0.54 | 0.57 | 0.52 | 0.53 | 0.52 | 0.53 | 0.52 | 0.50 | 0.50 | 0.52 | -0.8% | 0.4% | 2.2% |
| Sweden | 0.54 | 0.56 | 0.59 | 0.61 | 0.59 | 0.51 | 0.57 | 0.59 | 0.61 | 0.59 | 0.48 | -19.1% | 1.8% | 2.0% |
| Switzerland | 0.25 | 0.25 | 0.24 | 0.24 | 0.25 | 0.21 | 0.19 | 0.18 | 0.22 | 0.23 | 0.20 | -9.6% | -1.4% | 0.9% |
| Turkey | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ukraine | 0.84 | 0.84 | 0.84 | 0.77 | 0.81 | 0.80 | 0.73 | 0.77 | 0.76 | 0.74 | 0.68 | -8.8% | -0.6% | 2.8% |
| United Kingdom | 0.58 | 0.64 | 0.65 | 0.65 | 0.58 | 0.64 | 0.65 | 0.63 | 0.58 | 0.50 | 0.45 | -11.1% | -2.6% | 1.9% |
| Other Europe | 0.33 | 0.35 | 0.34 | 0.32 | 0.35 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.6% | -2.5% | 1.4% |
| Total Europe | 9.69 | 9.55 | 9.26 | 9.09 | 9.09 | 8.82 | 8.53 | 8.43 | 8.38 | 8.29 | 7.44 | -10.5% | -1.3% | 31.0% |
| Azerbaijan | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Belarus | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Kazakhstan | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Russian Federation | 1.60 | 1.61 | 1.65 | 1.59 | 1.66 | 1.78 | 1.78 | 1.83 | 1.83 | 1.86 | 1.92 | 2.7% | 1.9% | 8.0% |
| Turkmenistan | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Uzbekistan | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other CIS | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | -5.1% | -1.8% | 0.1% |
| Total CIS | 1.62 | 1.64 | 1.67 | 1.61 | 1.68 | 1.81 | 1.80 | 1.85 | 1.85 | 1.88 | 1.94 | 2.6% | 1.8% | 8.1% |
| Iran | — | † | 0.01 | 0.04 | 0.04 | 0.03 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -1.9% | — | 0.2% |
| Iraq | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Israel | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Kuwait | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Oman | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Qatar | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Saudi Arabia | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| United Arab Emirates | — | — | — | — | — | — | — | — | — | — | 0.01 | — | — | 0.1% |
| Other Middle East | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total Middle East | — | ^ | 0.01 | 0.04 | 0.04 | 0.03 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 23.2% | n/a | 0.3% |
| Algeria | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Egypt | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Morocco | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| South Africa | 0.13 | 0.12 | 0.12 | 0.13 | 0.13 | 0.11 | 0.14 | 0.13 | 0.10 | 0.12 | 0.14 | 13.7% | ♦ | 0.6% |
| Other Africa | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total Africa | 0.13 | 0.12 | 0.12 | 0.13 | 0.13 | 0.11 | 0.14 | 0.13 | 0.10 | 0.12 | 0.14 | 13.7% | ♦ | 0.6% |
| Australia | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Bangladesh | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| China | 0.70 | 0.81 | 0.91 | 1.03 | 1.22 | 1.56 | 1.93 | 2.23 | 2.64 | 3.11 | 3.25 | 4.3% | 16.7% | 13.6% |
| China Hong Kong SAR | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| India | 0.22 | 0.30 | 0.31 | 0.31 | 0.32 | 0.35 | 0.34 | 0.34 | 0.35 | 0.40 | 0.40 | -1.8% | 9.7% | 1.7% |
| Indonesia | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Japan | 2.74 | 1.52 | 0.17 | 0.13 | — | 0.04 | 0.16 | 0.26 | 0.44 | 0.59 | 0.38 | -34.9% | -13.8% | 1.6% |
| Malaysia | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| New Zealand | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pakistan | 0.02 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.07 | 0.08 | 0.08 | 0.08 | 1.1% | 13.0% | 0.3% |
| Philippines | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Singapore | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| South Korea | 1.39 | 1.44 | 1.39 | 1.28 | 1.43 | 1.50 | 1.47 | 1.34 | 1.19 | 1.30 | 1.42 | 9.1% | -0.7% | 5.9% |
| Sri Lanka | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Taiwan | 0.39 | 0.39 | 0.37 | 0.38 | 0.39 | 0.33 | 0.29 | 0.20 | 0.25 | 0.29 | 0.28 | -3.4% | -3.0% | 1.2% |
| Thailand | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Vietnam | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Asia Pacific | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total Asia Pacific | 5.47 | 4.51 | 3.18 | 3.17 | 3.40 | 3.82 | 4.23 | 4.44 | 4.95 | 5.77 | 5.82 | 0.6% | 1.0% | 24.3% |
| Total World | 25.99 | 24.75 | 22.91 | 22.95 | 23.28 | 23.46 | 23.66 | 23.74 | 24.13 | 24.93 | 23.98 | -4.1% | -0.2% | 100.0% |
| of which: OECD | 21.61 | 20.14 | 18.19 | 18.21 | 18.22 | 17.98 | 17.86 | 17.64 | 17.59 | 17.78 | 16.67 | -6.5% | -1.8% | 69.5% |
| Non-OECD | 4.38 | 4.61 | 4.72 | 4.74 | 5.07 | 5.47 | 5.80 | 6.10 | 6.54 | 7.15 | 7.31 | 2.0% | 5.6% | 30.5% |
| European Union | 8.02 | 7.82 | 7.53 | 7.43 | 7.45 | 7.17 | 6.95 | 6.84 | 6.82 | 6.82 | 6.11 | -10.7% | -1.3% | 25.5% |

*Based on gross generation and not accounting for cross-border electricity supply. 'Input-equivalent' energy is the amount of fuel that would be required by thermal power stations to generate the reported electricity output. Details on thermal efficiency assumptions are available in the appendices and definitions page and at bp.com/statisticalreview.

†Less than 0.005%.

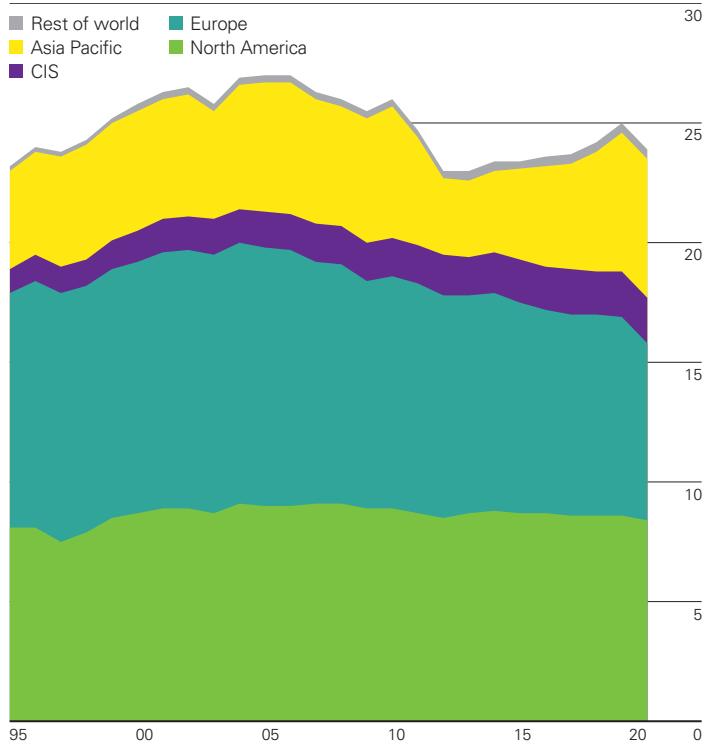
♦Less than 0.05%.

Notes: Growth rates are adjusted for leap years.

Nuclear data expressed in terawatt-hours is available at bp.com/statisticalreview.

Nuclear energy consumption by region

Exajoules



Nuclear consumption fell by 4.1% (on an input-equivalent basis), its sharpest decline since the Fukushima-related decline in 2011 and 2012. COVID-19 and the associated economic shock drove power generation lower, and nuclear generation fell the most in France (-0.4 EJ) and the US (-0.2 EJ).