

Statistics report

Monthly OECD Electricity Statistics

Next release: 11 September 2020

Data up to May 2020

iea

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MONTHLY ELECTRICITY STATISTICS

May 2020

HIGHLIGHTS

In May 2020, the impacts of country confinement measures due to Covid-19 can be seen on the monthly electricity production, supply and consumption figures. A more detailed analysis by the IEA secretariat of the impacts can be found at: www.iea.org/reports/covid-19-impact-on-electricity

OECD

- In May 2020, total net electricity production in the OECD was 772.9 TWh, 7.2% lower than in May 2019 and 4.6% higher than in April 2020. Lockdown measures started easing in May 2020, but the impact of the Covid-19 crisis on electricity production was still noticeable.
- Renewable production was 277.0 TWh, up by 6.2% compared to May 2019 and by 6.0% compared to April 2020. Solar production in the OECD was 47.9 TWh, 23.9% higher than in May 2019, and 10.8% higher than in April 2020, due to increased capacity and higher irradiation, reaching the highest level of solar production on record.
- Conventional thermal production in the OECD was 374.2 TWh, down by 14.1% compared to May 2019 and up 4.3% compared to April 2020. In the first five months of 2020, the decrease in conventional thermal production was mainly driven by lower coal production, which was 23.3% lower than during the same period in 2019. In May 2020, production from coal was 16.5% of the total electricity mix compared to 20.2% in 2019.

OECD Americas

- Net electricity production in OECD Americas was 388.5 TWh in May 2020, 6.4% lower than in May 2019 and 8.5% higher than in April 2020. Renewable production 118.8 TWh, up by 4.0% compared to May 2019 and by 9.4% compared to April 2020. Renewable energy sources produced 30.6% of the total electricity production, to reach the highest production levels on record. This increase is driven by solar production which, at 14.7 TWh, was 32.6% higher than in May 2019 and 17.7% higher than in April 2020.
- In Mexico, renewable production was 5.8 TWh in May 2020, 9.0% higher than in May 2019. In the first five months of 2020, renewables sources produced 24.4 TWh of electricity, an increase of 7.2% compared to the same period in 2019. This rise in production is mainly due to solar production, which was 4.0 TWh in the first five months of 2020, up by 80.6% compared to the same period in 2019. Wind production also contributed to this increase, and was 8.2 TWh in the first five months of 2020, 13.9% higher than over the same period in 2019.
- In the United States, renewable production was 78.2 TWh in May 2020, up by 5.2% compared to May 2019 and by 15.2% compared to April 2020. This increase is driven by solar production, which was 12.9 TWh in May 2020, up by 33.6% compared to May 2019 and by 21.6% compared to April 2020. In the first quarter of 2020, 3.6 GW of solar capacity was installed following a dynamic trend which drove production levels upwards. In the first five months of 2020, solar production was 45.2 TWh, 23.1% higher than during the same period in 2019.

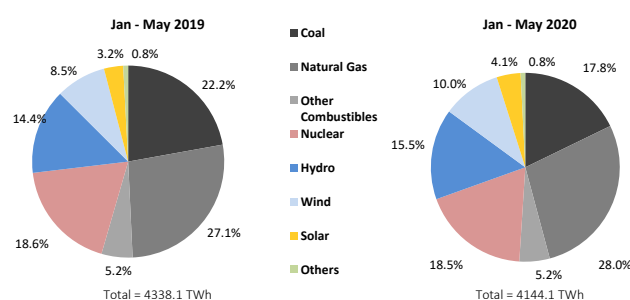
OECD Asia/Oceania

- Net electricity production was 134.9 TWh, down by 4.5% compared to May 2019. Renewable production was 32.4 TWh, and accounted for 24.0% of the total electricity mix. Non-renewable production was 102.6 TWh, down by 8.5% compared to May 2019. This decrease was a result of lower natural gas production, at 31.5 TWh in May 2020, down by 16.5% compared to May 2019 and by 6.8% compared to April 2020.
- Solar power in Korea produced 7.6 TWh of electricity in the first five months of 2020, 42.4% higher than during the same period last year. In May 2020, solar production was 1.8 TWh, up by 20.4% compared to May 2019, and accounted for 4.4% of the total mix. Total net production was still low, as a result of the Covid-19 crisis, 40.3 TWh, 7.6% lower than in May 2019 and 2.2% lower than in April 2020, due to lower natural gas production. Natural gas production was 7.6 TWh, 3.0 TWh lower than in May 2019 and produced 19.0% of the total electricity in May 2020 compared to 24.4% in May 2019.
- In Australia, renewables produced 4.9 TWh of electricity in May 2020, up by 14.3% compared to May 2019. In the first five months of 2020, renewable production rose by 14.7% compared to the same period in 2019 to reach 23.8 TWh. This increase is mainly due to wind and solar productions which increased by 18.3% and 11.8% respectively in the first five months of 2020 compared to the same period last year. In 2019, added solar and wind capacities of 3.8 GW and 840 MW respectively were installed, resulting in these high production levels.

OECD Europe

- In May 2020, total net production in OECD Europe was 249.4 TWh, down by 9.8% compared to May 2019 and up by 1.5% compared to April 2020. Renewables produced 125.8 TWh or 50.4% of the total electricity production, overtaking non-renewable energy sources for the first time. The main driver of this increase in May 2020 was solar power, which produced 20.9 TWh of electricity, 26.5% higher than in May 2020. As electricity demand declined because of the Covid-19 crisis and with favourable weather conditions, demand for non-renewables decreased by 22.4% in May 2020 compared to May 2019.
- At the end of April 2020, Sweden closed its last coal power plant two years ahead of schedule. This is a consequence of warmer than average temperatures in 2020 and lower demand due to the Covid-19 crisis. As a result, coal production in May 2020 was 0 GWh. Sweden is the third European country to shut down its main activity coal power plants, after Belgium and Austria.
- In Italy, renewables produced more electricity in May 2020 than non-renewable energy sources for the first time on record, with a share of 52.7% of the total mix or 11.3 TWh. Due to warm weather conditions and the Covid-19 crisis, demand for conventional thermal electricity decreased and its production fell by 14.4% in May 2020 compared to May 2019, down to 11.2 TWh. On the other hand, solar production increased by 25.1% compared to May 2019 and was 2.8 TWh in May 2020.
- In the Netherlands, solar production was 3.2 TWh during the first five months of 2020 or 69.5% higher than during the same period last year. Solar capacity increased by 2.4 GW in 2019 driving production in 2020 upwards. In May 2020, solar production was 1.3 TWh, up by 79.9% compared to May 2019 and accounted for 13.7% of the total electricity mix compared to 7.5% in May 2019.
- In Hungary, solar production was 259.3 GWh, 128.7% higher than in May 2020. Solar production has been increasing rapidly in Hungary, as new capacity is added continuously.

OECD Electricity Production by Fuel Type Year-to-Date Comparison



OECD Total

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|--------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|-----------------|--------------|
| | TWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | TWh | share |
| CONVENTIONAL THERMAL | 374.2 | -14.1% | 4.3% | 48.4% | 2 114.3 | 2 363.8 | -10.6% | 5 915.7 | 56.2% |
| Coal ⁵ | 127.2 | -24.5% | 5.4% | 16.5% | 737.7 | 961.8 | -23.3% | 2 310.2 | 22.0% |
| Oil ⁵ | 12.1 | -15.0% | 7.8% | 1.6% | 66.7 | 78.1 | -14.6% | 188.9 | 1.8% |
| Natural Gas ⁵ | 206.9 | -7.9% | 4.6% | 26.8% | 1 161.2 | 1 175.1 | -1.2% | 3 065.2 | 29.1% |
| Combustible Renewables ⁵ | 23.5 | 1.8% | -0.8% | 3.0% | 123.6 | 124.5 | -0.7% | 291.5 | 2.8% |
| Other Combustibles ⁵ | 4.6 | 1.4% | 2.9% | 0.6% | 25.2 | 24.4 | 3.4% | 59.8 | 0.6% |
| Nuclear | 143.3 | -8.8% | 1.9% | 18.5% | 766.6 | 808.4 | -5.2% | 1 898.2 | 18.0% |
| Hydro | 134.4 | 1.9% | 12.3% | 17.4% | 644.0 | 622.8 | 3.4% | 1 435.8 | 13.6% |
| Wind | 66.9 | 6.3% | -4.9% | 8.7% | 416.4 | 367.0 | 13.5% | 830.5 | 7.9% |
| Solar | 47.9 | 23.9% | 10.8% | 6.2% | 169.7 | 139.9 | 21.3% | 359.8 | 3.4% |
| Geothermal | 4.2 | 0.6% | 0.1% | 0.5% | 21.1 | 21.7 | -2.4% | 50.2 | 0.5% |
| Other Renewables | 0.1 | 19.2% | 7.0% | 0.0% | 0.4 | 0.4 | 6.7% | 1.0 | 0.0% |
| Non-Specified | 1.8 | -24.4% | 2.9% | 0.2% | 11.4 | 14.1 | -19.1% | 32.8 | 0.3% |
| RENEWABLES | 277.0 | 6.2% | 6.0% | 35.8% | 1 375.3 | 1 276.3 | 7.8% | 2 968.7 | 28.2% |
| NON-RENEWABLES | 495.9 | -13.3% | 3.9% | 64.2% | 2 768.8 | 3 061.9 | -9.6% | 7 555.1 | 71.8% |
| TOTAL NET PRODUCTION | 772.9 | -7.2% | 4.6% | | 4 144.1 | 4 338.1 | -4.5% | 10 523.8 | |
| + Imports | 39.5 | -2.2% | 6.5% | | 208.0 | 208.5 | -0.2% | 491.4 | |
| - Exports | 42.3 | 11.0% | 8.5% | | 214.7 | 201.3 | 6.7% | 484.0 | |
| = ELECTRICITY SUPPLIED | 770.1 | -7.8% | 4.5% | | 4 137.4 | 4 345.3 | -4.8% | 10 531.2 | |
| - Used for pumped storage ⁴ | 7.8 | 9.9% | 3.8% | | 35.6 | 32.5 | 9.7% | 83.0 | |
| - T&D Losses ⁴ | 51.2 | -8.9% | 25.5% | | 248.2 | 263.7 | -5.9% | 633.4 | |
| = ELECTRICITY CONSUMED | 711.0 | -7.9% | 3.3% | | 3 853.5 | 4 049.1 | -4.8% | 9 814.8 | |

¹ current month to month of last year change

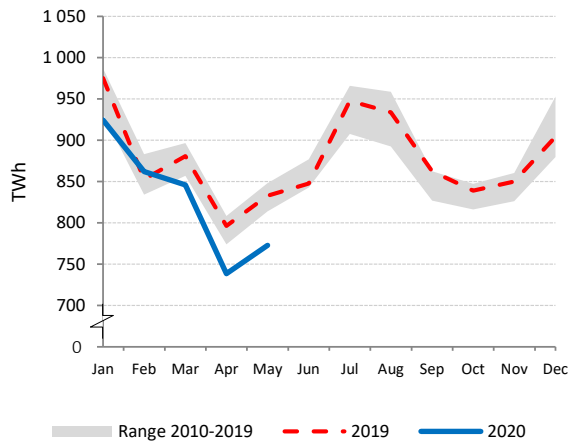
⁴ estimated for certain countries

² month-to-month change

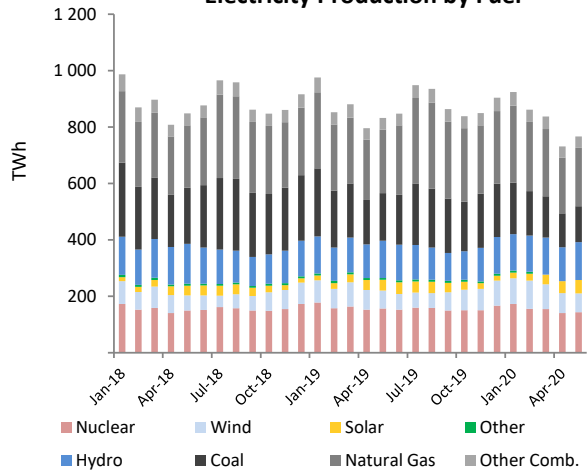
⁵ the breakdown of conventional thermal is estimated from annual data for Canada, Estonia and Italy

³ year-to-date compared to same period last year

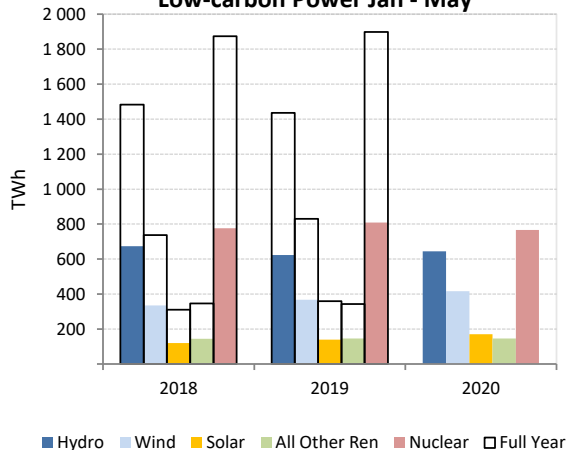
Electricity Production



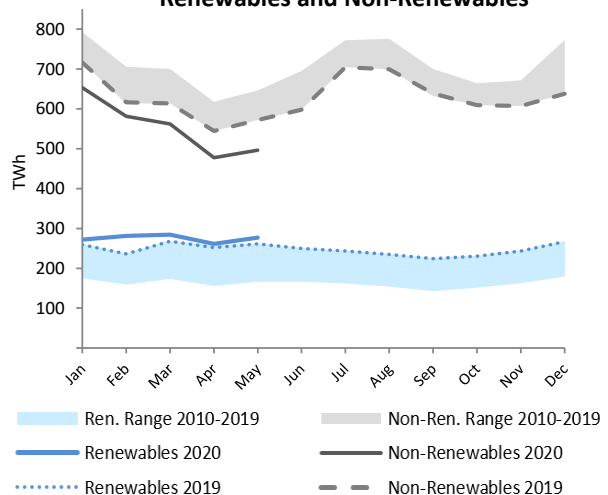
Electricity Production by Fuel



Low-carbon Power Jan - May



Renewables and Non-Renewables



OECD Americas

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|--------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | TWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | TWh | share |
| CONVENTIONAL THERMAL | 202.3 | -12.7% | 8.1% | 52.1% | 1 070.6 | 1 166.7 | -8.2% | 3 064.6 | 59.0% |
| Coal ⁵ | 54.8 | -33.4% | 11.9% | 14.1% | 305.6 | 446.5 | -31.6% | 1 097.1 | 21.1% |
| Oil ⁵ | 6.5 | -3.2% | 13.0% | 1.7% | 31.7 | 30.2 | 4.9% | 75.1 | 1.4% |
| Natural Gas ⁵ | 134.3 | -0.8% | 6.8% | 34.6% | 698.6 | 654.3 | 6.8% | 1 806.5 | 34.8% |
| Combustible Renewables ⁵ | 5.8 | -8.2% | 0.7% | 1.5% | 30.3 | 31.7 | -4.3% | 75.6 | 1.5% |
| Other Combustibles ⁵ | 0.9 | 5.4% | 2.9% | 0.2% | 4.5 | 4.0 | 10.7% | 10.4 | 0.2% |
| Nuclear | 72.8 | -2.8% | 7.4% | 18.7% | 372.4 | 371.2 | 0.3% | 915.6 | 17.6% |
| Hydro | 63.8 | -1.9% | 17.0% | 16.4% | 313.8 | 323.1 | -2.9% | 716.8 | 13.8% |
| Wind | 32.7 | 8.9% | -4.0% | 8.4% | 170.0 | 154.9 | 9.8% | 355.5 | 6.8% |
| Solar | 14.7 | 32.6% | 17.6% | 3.8% | 53.7 | 43.0 | 25.1% | 113.1 | 2.2% |
| Geothermal | 1.8 | 0.5% | 3.7% | 0.5% | 8.5 | 8.9 | -4.3% | 20.8 | 0.4% |
| Other Renewables | - | - | - | - | - | 0.0 | - | 0.0 | 0.0% |
| Non-Specified | 0.4 | -4.1% | -0.7% | 0.1% | 1.7 | 1.9 | -11.8% | 4.7 | 0.1% |
| RENEWABLES | 118.8 | 4.0% | 9.4% | 30.6% | 576.4 | 561.5 | 2.6% | 1 281.8 | 24.7% |
| NON-RENEWABLES | 269.7 | -10.3% | 8.1% | 69.4% | 1 414.4 | 1 508.1 | -6.2% | 3 909.3 | 75.3% |
| TOTAL NET PRODUCTION | 388.5 | -6.4% | 8.5% | | 1 990.8 | 2 069.6 | -3.8% | 5 191.1 | |
| + Imports | 6.2 | -3.3% | 16.1% | | 28.9 | 31.1 | -6.9% | 74.0 | |
| - Exports | 8.8 | 39.6% | 24.5% | | 36.9 | 32.0 | 15.5% | 81.3 | |
| = ELECTRICITY SUPPLIED | 385.9 | -7.0% | 8.3% | | 1 982.8 | 2 068.7 | -4.2% | 5 183.8 | |
| - Used for pumped storage ⁴ | 2.2 | -6.9% | 31.6% | | 9.3 | 9.7 | -4.5% | 26.2 | |
| - T&D Losses ⁴ | 28.7 | -8.5% | 60.5% | | 112.6 | 123.5 | -8.9% | 306.9 | |
| = ELECTRICITY CONSUMED | 355.0 | -6.9% | 5.4% | | 1 860.9 | 1 935.4 | -3.9% | 4 850.6 | |

¹ current month to month of last year change

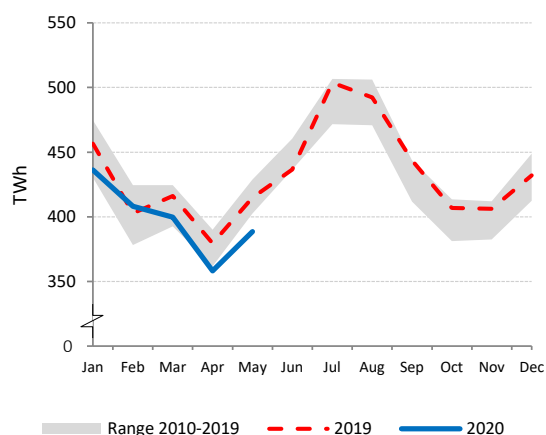
⁴ estimated for certain countries

² month-to-month change

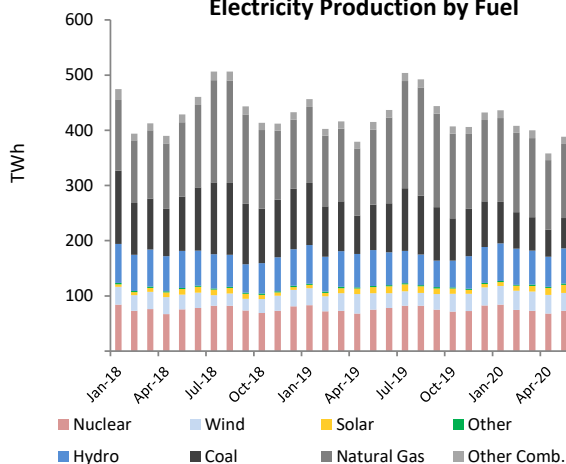
⁵ the breakdown of conventional thermal is estimated from annual data for Canada and Mexico

³ year-to-date compared to same period last year

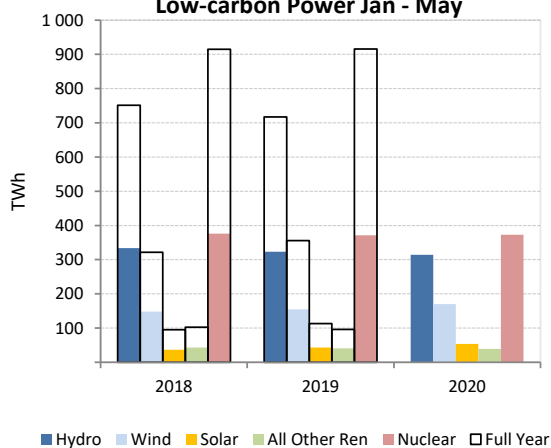
Electricity Production



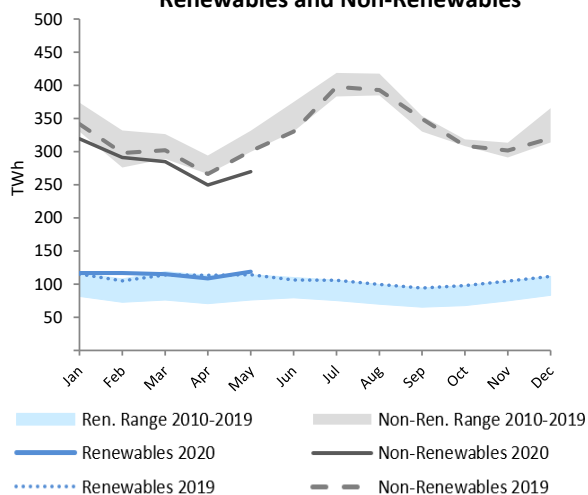
Electricity Production by Fuel



Low-carbon Power Jan - May



Renewables and Non-Renewables



OECD Asia Oceania

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|--------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|----------------|--------------|
| | TWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | TWh | share |
| CONVENTIONAL THERMAL | 85.4 | -8.6% | -3.1% | 63.3% | 514.7 | 561.7 | -8.4% | 1 341.8 | 72.8% |
| Coal | 47.1 | -1.3% | 0.7% | 34.9% | 263.6 | 276.8 | -4.7% | 676.0 | 36.7% |
| Oil | 2.8 | -28.1% | 6.7% | 2.1% | 19.0 | 28.9 | -34.4% | 68.3 | 3.7% |
| Natural Gas | 31.5 | -16.5% | -6.8% | 23.3% | 210.1 | 232.9 | -9.8% | 544.7 | 29.6% |
| Combustible Renewables | 2.6 | 11.7% | -2.8% | 1.9% | 13.2 | 14.5 | -8.5% | 31.3 | 1.7% |
| Other Combustibles | 1.5 | -0.2% | 0.8% | 1.1% | 8.9 | 8.5 | 4.3% | 21.6 | 1.2% |
| Nuclear | 18.7 | -3.3% | 6.4% | 13.9% | 88.3 | 94.0 | -6.1% | 203.7 | 11.1% |
| Hydro | 13.6 | 9.2% | 10.0% | 10.1% | 56.5 | 48.4 | 16.8% | 129.7 | 7.0% |
| Wind | 3.0 | 15.7% | -0.2% | 2.2% | 15.0 | 13.0 | 15.3% | 32.1 | 1.7% |
| Solar | 12.3 | 11.3% | 5.2% | 9.1% | 48.8 | 41.3 | 18.2% | 102.8 | 5.6% |
| Geothermal | 0.9 | 0.8% | 3.1% | 0.7% | 4.3 | 4.1 | 4.6% | 10.0 | 0.5% |
| Other Renewables | 0.1 | 39.6% | 12.9% | 0.0% | 0.2 | 0.2 | 13.9% | 0.5 | 0.0% |
| Non-Specified | 1.0 | -35.7% | 1.4% | 0.7% | 7.6 | 9.9 | -23.2% | 22.7 | 1.2% |
| RENEWABLES | 32.4 | 10.6% | 5.9% | 24.0% | 138.2 | 121.5 | 13.7% | 306.2 | 16.6% |
| NON-RENEWABLES | 102.6 | -8.5% | -1.5% | 76.0% | 597.4 | 651.1 | -8.3% | 1 536.9 | 83.4% |
| TOTAL NET PRODUCTION | 134.9 | -4.5% | 0.2% | | 735.5 | 772.6 | -4.8% | 1 843.1 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 134.9 | -4.5% | 0.2% | | 735.5 | 772.6 | -4.8% | 1 843.1 | |
| - Used for pumped storage ⁴ | 1.5 | 7.1% | 3.4% | | 6.4 | 6.1 | 4.5% | 15.6 | |
| - T&D Losses ⁴ | 5.8 | -4.3% | 0.6% | | 31.9 | 33.2 | -3.9% | 78.5 | |
| = ELECTRICITY CONSUMED | 127.6 | -4.7% | 0.1% | | 697.3 | 733.3 | -4.9% | 1 749.0 | |

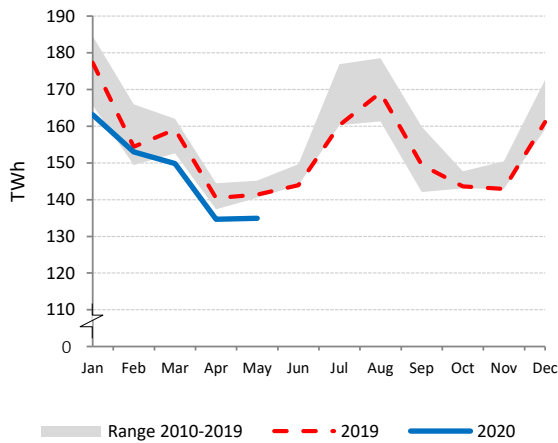
¹ current month to month of last year change

⁴ estimated for certain countries

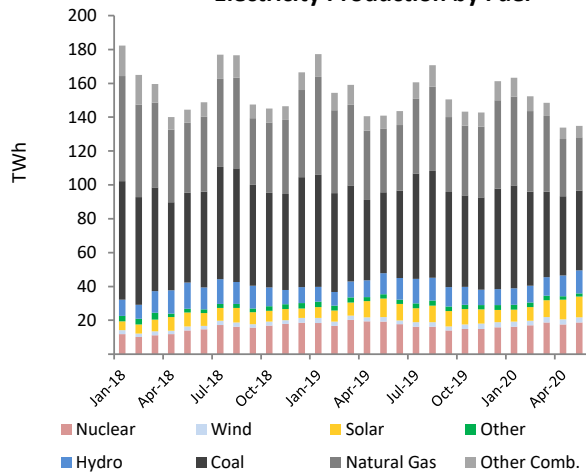
² month-to-month change

³ year-to-date compared to same period last year

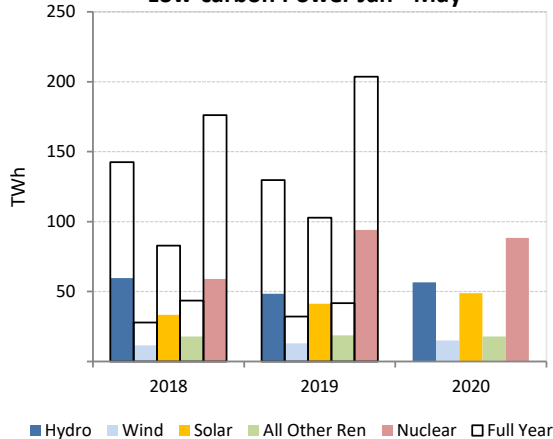
Electricity Production



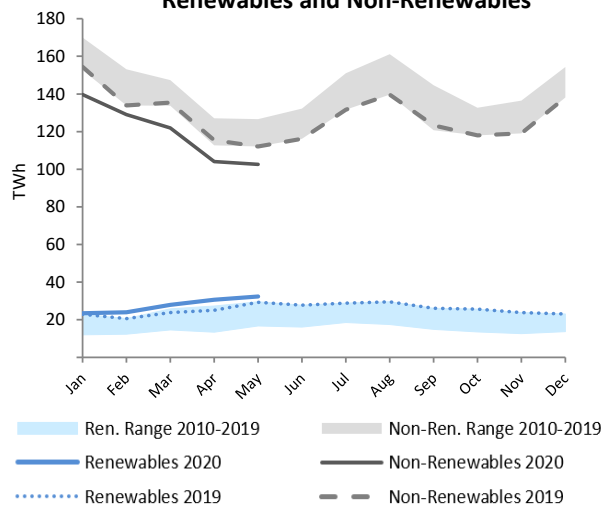
Electricity Production by Fuel



Low-carbon Power Jan - May



Renewables and Non-Renewables



OECD Europe

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|--------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | TWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | TWh | share |
| CONVENTIONAL THERMAL | 86.5 | -21.6% | 3.8% | 34.7% | 529.0 | 635.4 | -16.8% | 1 509.2 | 43.2% |
| Coal ⁵ | 25.4 | -34.4% | 1.3% | 10.2% | 168.6 | 238.4 | -29.3% | 537.1 | 15.4% |
| Oil ⁵ | 2.8 | -23.2% | -1.8% | 1.1% | 16.0 | 19.0 | -15.5% | 45.5 | 1.3% |
| Natural Gas ⁵ | 41.1 | -20.3% | 7.7% | 16.5% | 252.5 | 287.9 | -12.3% | 714.1 | 20.5% |
| Combustible Renewables ⁵ | 15.1 | 4.7% | -1.0% | 6.1% | 80.0 | 78.3 | 2.2% | 184.7 | 5.3% |
| Other Combustibles ⁵ | 2.2 | 0.9% | 4.4% | 0.9% | 11.8 | 11.8 | 0.2% | 27.9 | 0.8% |
| Nuclear | 51.8 | -17.6% | -6.2% | 20.8% | 305.9 | 343.3 | -10.9% | 778.8 | 22.3% |
| Hydro | 57.0 | 4.8% | 8.0% | 22.9% | 273.7 | 251.3 | 8.9% | 589.3 | 16.9% |
| Wind | 31.2 | 2.8% | -6.1% | 12.5% | 231.3 | 199.1 | 16.2% | 442.9 | 12.7% |
| Solar | 20.9 | 26.5% | 9.7% | 8.4% | 67.2 | 55.6 | 20.7% | 143.9 | 4.1% |
| Geothermal | 1.6 | 0.6% | -5.0% | 0.6% | 8.3 | 8.7 | -3.8% | 19.5 | 0.6% |
| Other Renewables | 0.0 | - | - | 0.0% | 0.2 | 0.2 | - | 0.5 | 0.0% |
| Non-Specified | 0.5 | -3.0% | 9.7% | 0.2% | 2.1 | 2.3 | -7.4% | 5.5 | 0.2% |
| RENEWABLES | 125.8 | 7.3% | 3.1% | 50.4% | 660.7 | 593.2 | 11.4% | 1 380.7 | 39.6% |
| NON-RENEWABLES | 123.6 | -22.4% | -0.1% | 49.6% | 757.0 | 902.6 | -16.1% | 2 108.9 | 60.4% |
| TOTAL NET PRODUCTION | 249.4 | -9.8% | 1.5% | | 1 417.7 | 1 495.9 | -5.2% | 3 489.6 | |
| + Imports | 33.3 | -1.9% | 4.9% | | 179.1 | 177.4 | 1.0% | 417.4 | |
| - Exports | 33.5 | 5.3% | 4.9% | | 177.8 | 169.4 | 5.0% | 402.7 | |
| = ELECTRICITY SUPPLIED | 249.3 | -10.6% | 1.5% | | 1 419.1 | 1 503.9 | -5.6% | 3 504.4 | |
| - Used for pumped storage ⁴ | 4.1 | 23.0% | -6.7% | | 19.9 | 16.6 | 19.9% | 41.2 | |
| - T&D Losses ⁴ | 16.8 | -11.0% | -2.5% | | 103.8 | 107.0 | -3.0% | 247.9 | |
| = ELECTRICITY CONSUMED | 228.4 | -11.0% | 2.0% | | 1 295.4 | 1 380.4 | -6.2% | 3 215.2 | |

¹ current month to month of last year change

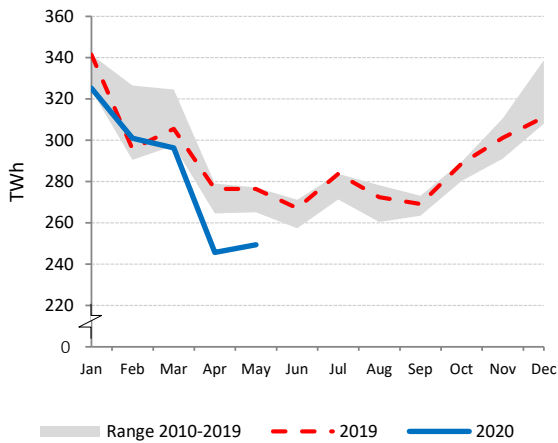
⁴ estimated for certain countries

² month-to-month change

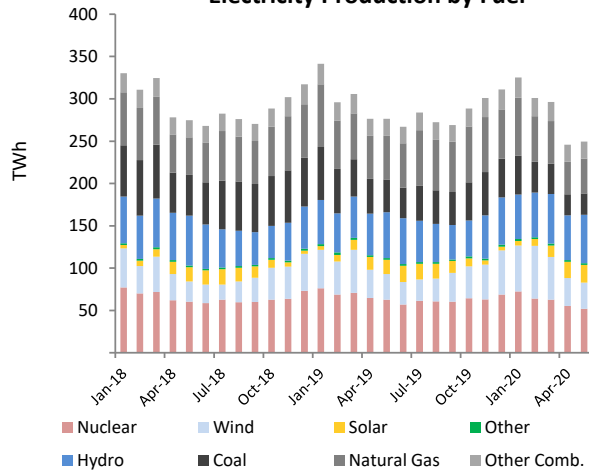
⁵ the breakdown of conventional thermal is estimated from annual data for Estonia and Italy

³ year-to-date compared to same period last year

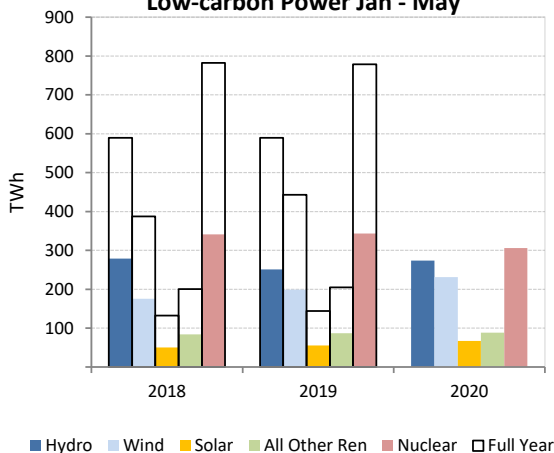
Electricity Production



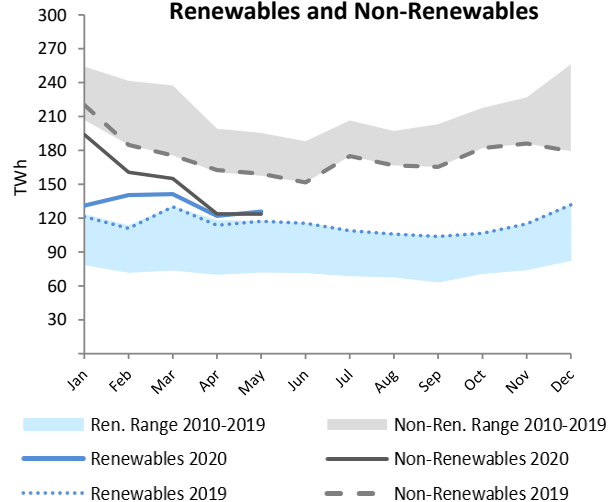
Electricity Production by Fuel



Low-carbon Power Jan - May



Renewables and Non-Renewables



IEA Total

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|--------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|-----------------|--------------|
| | TWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | TWh | share |
| CONVENTIONAL THERMAL | 369.0 | -14.2% | 4.4% | 48.4% | 2 089.5 | 2 339.2 | -10.7% | 5 859.2 | 56.3% |
| Coal ⁵ | 124.8 | -24.8% | 5.5% | 16.4% | 725.9 | 949.5 | -23.5% | 2 280.7 | 21.9% |
| Oil ⁵ | 11.6 | -15.9% | 5.8% | 1.5% | 64.8 | 76.9 | -15.7% | 185.9 | 1.8% |
| Natural Gas ⁵ | 205.1 | -8.0% | 4.7% | 26.9% | 1 152.7 | 1 166.6 | -1.2% | 3 047.0 | 29.3% |
| Combustible Renewables ⁵ | 23.0 | 2.0% | -0.7% | 3.0% | 120.9 | 121.9 | -0.8% | 285.9 | 2.7% |
| Other Combustibles ⁵ | 4.6 | 1.4% | 2.9% | 0.6% | 25.2 | 24.3 | 3.4% | 59.7 | 0.6% |
| Nuclear | 142.8 | -8.8% | 1.9% | 18.7% | 764.1 | 805.9 | -5.2% | 1 892.6 | 18.2% |
| Hydro | 131.5 | 2.3% | 12.3% | 17.2% | 627.8 | 606.2 | 3.6% | 1 394.5 | 13.4% |
| Wind | 66.4 | 6.3% | -4.8% | 8.7% | 413.7 | 364.7 | 13.4% | 824.0 | 7.9% |
| Solar | 47.4 | 23.9% | 11.1% | 6.2% | 166.7 | 137.3 | 21.4% | 353.2 | 3.4% |
| Geothermal | 3.7 | 0.0% | 0.1% | 0.5% | 18.5 | 19.1 | -3.3% | 44.1 | 0.4% |
| Other Renewables | 0.1 | 19.2% | 7.0% | 0.0% | 0.4 | 0.4 | 6.7% | 1.0 | 0.0% |
| Non-Specified | 1.8 | -24.0% | 2.9% | 0.2% | 11.4 | 14.0 | -18.6% | 32.6 | 0.3% |
| RENEWABLES | 272.1 | 6.5% | 6.1% | 35.7% | 1 348.1 | 1 249.7 | 7.9% | 2 902.6 | 27.9% |
| NON-RENEWABLES | 490.6 | -13.4% | 3.9% | 64.3% | 2 744.1 | 3 037.3 | -9.7% | 7 498.5 | 72.1% |
| TOTAL NET PRODUCTION | 762.7 | -7.2% | 4.7% | | 4 092.1 | 4 287.0 | -4.5% | 10 401.2 | |
| + Imports | 37.7 | -1.4% | 6.8% | | 197.7 | 197.0 | 0.3% | 464.5 | |
| - Exports | 41.0 | 11.8% | 8.2% | | 208.3 | 194.1 | 7.3% | 467.2 | |
| = ELECTRICITY SUPPLIED | 759.4 | -7.8% | 4.6% | | 4 081.5 | 4 289.9 | -4.9% | 10 398.5 | |
| - Used for pumped storage ⁴ | 7.7 | 9.6% | 3.8% | | 35.0 | 32.2 | 8.7% | 81.9 | |
| - T&D Losses ⁴ | 50.8 | -8.9% | 25.9% | | 245.4 | 260.7 | -5.9% | 626.7 | |
| = ELECTRICITY CONSUMED | 700.9 | -7.9% | 3.3% | | 3 801.1 | 3 996.9 | -4.9% | 9 689.8 | |

¹ current month to month of last year change

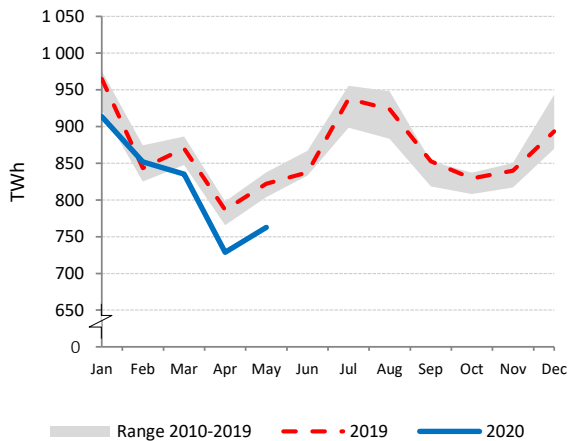
⁴ estimated for certain countries

² month-to-month change

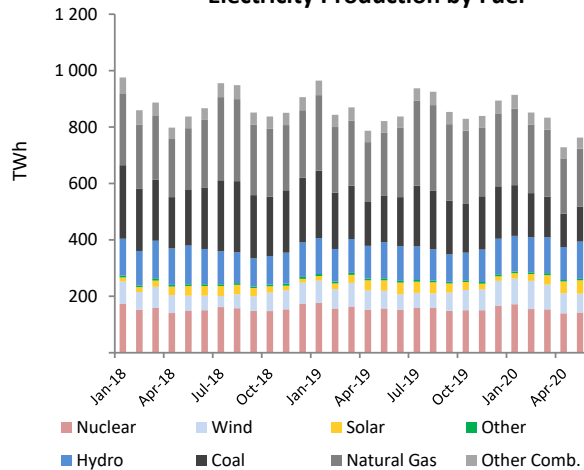
⁵ the breakdown of conventional thermal is estimated from annual data for Canada, Mexico, Estonia, and Italy

³ year-to-date compared to same period last year

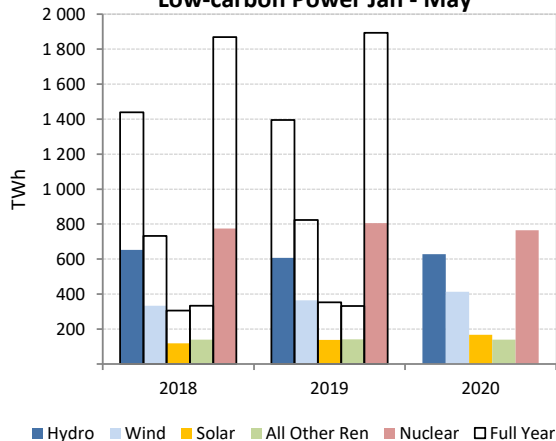
Electricity Production



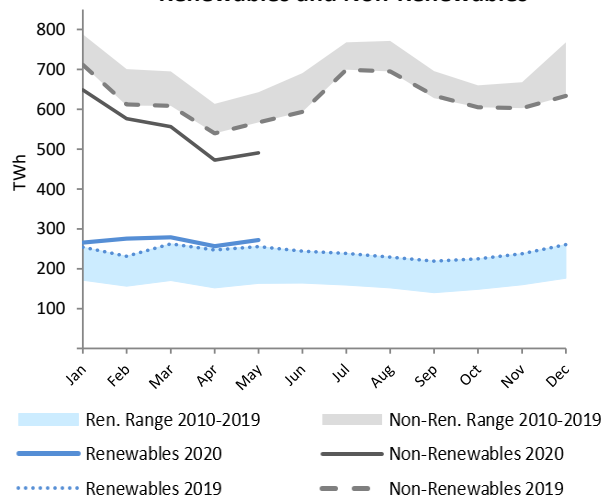
Electricity Production by Fuel



Low-carbon Power Jan - May



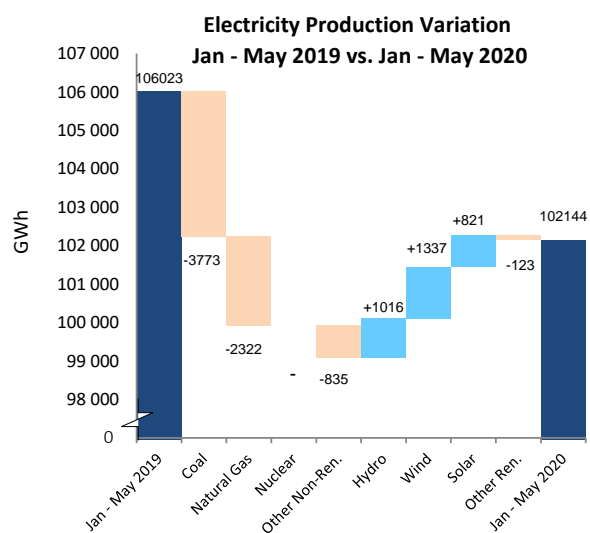
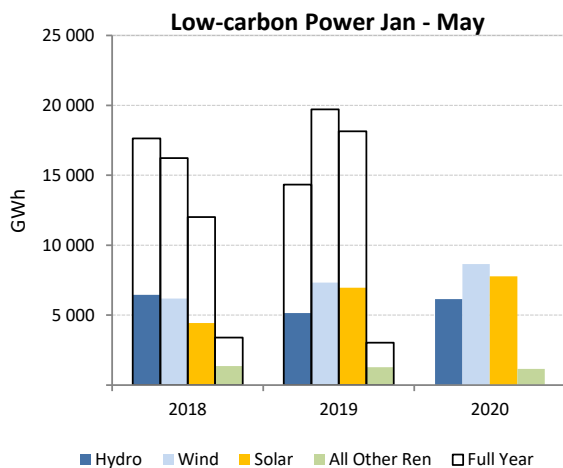
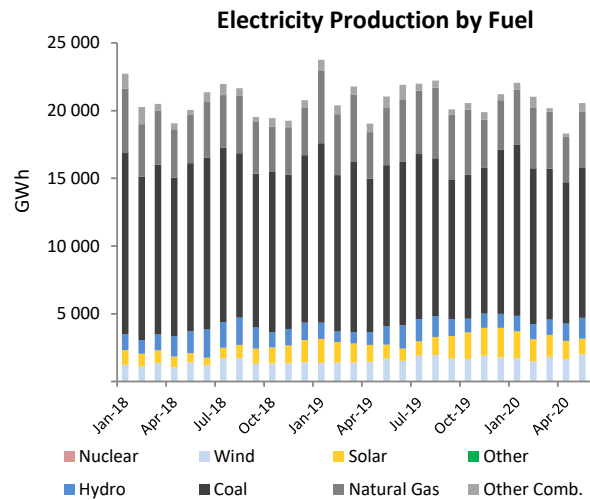
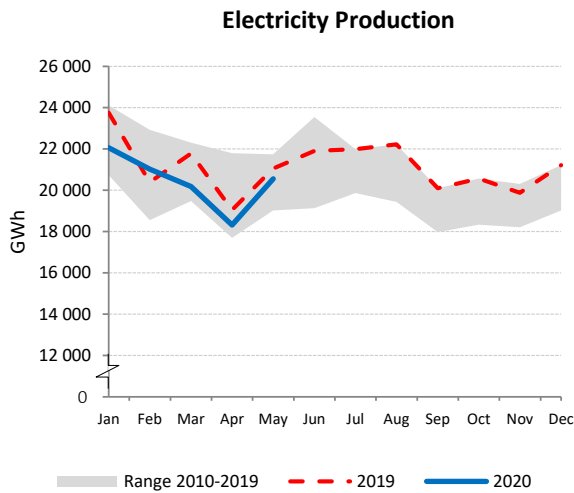
Renewables and Non-Renewables



AUSTRALIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 15 867 | -6.5% | 12.9% | 77.2% | 79 546 | 86 600 | -8.1% | 201 698 | 79.4% |
| Coal | 11 072 | -7.0% | 6.1% | 53.9% | 56 794 | 60 567 | -6.2% | 140 416 | 55.3% |
| Oil | 422 | -29.8% | 1069.5% | 2.1% | 1 361 | 2 196 | -38.0% | 4 435 | 1.7% |
| Natural Gas | 4 143 | -2.2% | 23.6% | 20.2% | 20 230 | 22 553 | -10.3% | 53 824 | 21.2% |
| Combustible Renewables | 230 | -1.4% | 0.2% | 1.1% | 1 162 | 1 284 | -9.5% | 3 024 | 1.2% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 1 535 | 14.5% | 21.0% | 7.5% | 6 158 | 5 142 | 19.8% | 14 345 | 5.6% |
| Wind | 1 998 | 18.2% | 20.5% | 9.7% | 8 661 | 7 324 | 18.3% | 19 718 | 7.8% |
| Solar | 1 157 | 11.0% | -13.9% | 5.6% | 7 778 | 6 958 | 11.8% | 18 153 | 7.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 4 920 | 14.3% | 9.3% | 23.9% | 23 759 | 20 708 | 14.7% | 55 239 | 21.8% |
| NON-RENEWABLES | 15 637 | -6.6% | 13.2% | 76.1% | 78 385 | 85 315 | -8.1% | 198 674 | 78.2% |
| TOTAL NET PRODUCTION | 20 557 | -2.3% | 12.2% | | 102 144 | 106 023 | -3.7% | 253 913 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 20 557 | -2.3% | 12.2% | | 102 144 | 106 023 | -3.7% | 253 913 | |
| - Used for pumped storage ⁴ | 44 | 14.5% | 21.0% | | 178 | 149 | 19.8% | 415 | |
| - T&D Losses ⁴ | 1 202 | -2.2% | 9.7% | | 5 953 | 6 116 | -2.7% | 14 625 | |
| = ELECTRICITY CONSUMED | 19 310 | -2.4% | 12.3% | | 96 013 | 99 758 | -3.8% | 238 873 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year



AUSTRIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 781 | -12.9% | -26.8% | 14.1% | 8 032 | 8 481 | -5.3% | 19 838 | 28.1% |
| Coal | 143 | -41.2% | 6.2% | 2.6% | 1 133 | 1 549 | -26.9% | 3 244 | 4.6% |
| Oil | 41 | -31.8% | 17.5% | 0.7% | 253 | 291 | -13.1% | 659 | 0.9% |
| Natural Gas | 166 | 9.0% | -63.2% | 3.0% | 4 442 | 4 410 | 0.7% | 10 759 | 15.3% |
| Combustible Renewables | 388 | 2.4% | -4.2% | 7.0% | 1 970 | 1 911 | 3.1% | 4 426 | 6.3% |
| Other Combustibles | 42 | -31.6% | 5.9% | 0.8% | 235 | 320 | -26.8% | 749 | 1.1% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 3 898 | -13.4% | 24.6% | 70.6% | 15 826 | 18 124 | -12.7% | 42 027 | 59.6% |
| Wind | 647 | -15.5% | 67.9% | 11.7% | 3 222 | 3 720 | -13.4% | 7 053 | 10.0% |
| Solar ⁴ | 195 | - | 2.4% | 3.5% | 683 | 683 | - | 1 618 | 2.3% |
| Geothermal | 0 | - | - | 0.0% | 0 | 0 | - | 0 | 0.0% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 1 | 7.7% | 16.0% | 0.0% | 5 | 5 | 3.9% | 12 | 0.0% |
| RENEWABLES | 5 129 | -12.2% | 24.8% | 92.9% | 21 700 | 24 438 | -11.2% | 55 124 | 78.1% |
| NON-RENEWABLES | 394 | -24.0% | -40.6% | 7.1% | 6 068 | 6 576 | -7.7% | 15 424 | 21.9% |
| TOTAL NET PRODUCTION | 5 524 | -13.1% | 15.7% | | 27 768 | 31 013 | -10.5% | 70 548 | |
| + Imports | 1 723 | 8.4% | -7.2% | | 11 368 | 11 457 | -0.8% | 26 047 | |
| - Exports | 1 842 | 1.5% | 27.3% | | 9 081 | 10 435 | -13.0% | 22 918 | |
| = ELECTRICITY SUPPLIED | 5 404 | -11.9% | 4.3% | | 30 055 | 32 035 | -6.2% | 73 676 | |
| - Used for pumped storage | 483 | 12.4% | 1.9% | | 2 174 | 2 012 | 8.0% | 4 826 | |
| - T&D Losses | 267 | -6.0% | 3.7% | | 1 565 | 1 615 | -3.1% | 3 767 | |
| = ELECTRICITY CONSUMED | 4 654 | -14.1% | 4.6% | | 26 316 | 28 407 | -7.4% | 65 083 | |

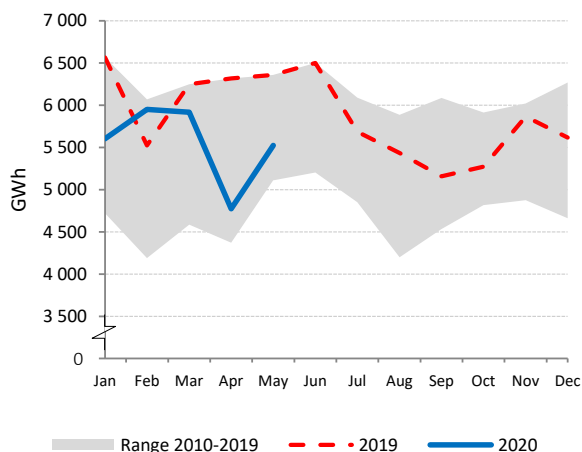
¹ current month to month of last year change

⁴ estimated by the IEA secretariat

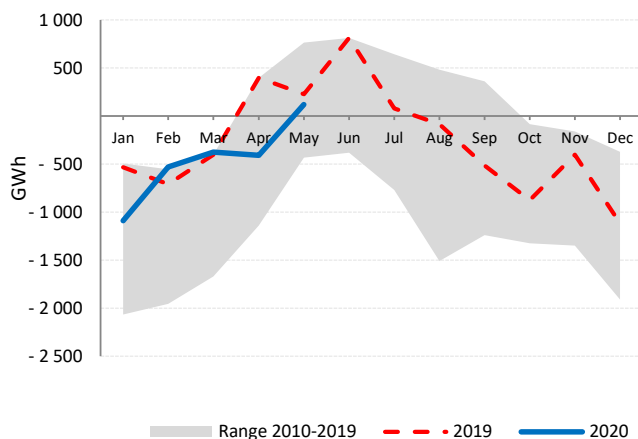
² month-to-month change

³ year-to-date compared to same period last year

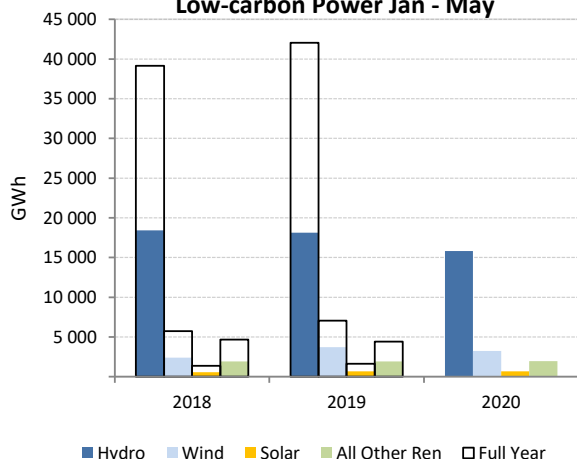
Electricity Production



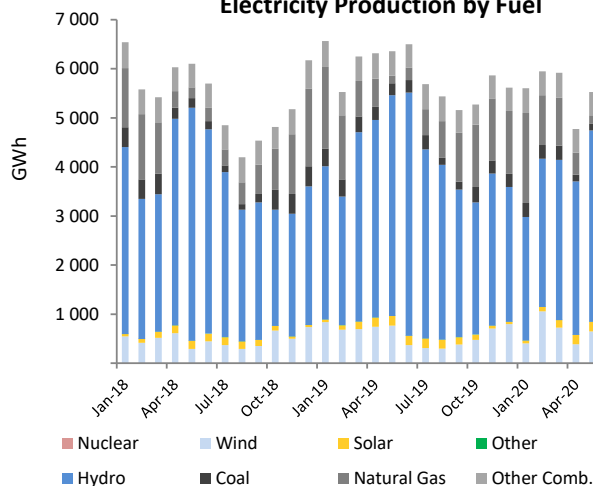
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



BELGIUM

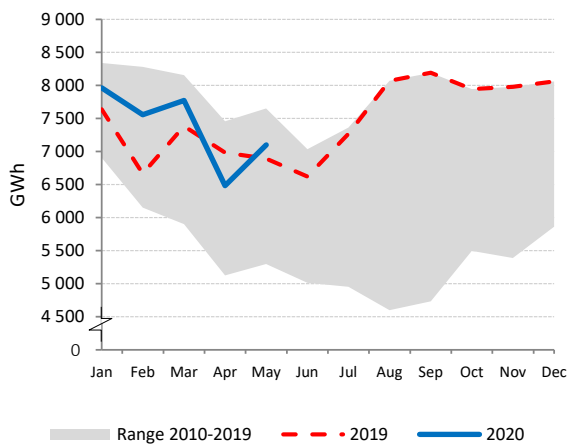
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 2 449 | 16.0% | 17.7% | 34.5% | 13 364 | 13 081 | 2.2% | 33 507 | 37.4% |
| Coal | 157 | -28.5% | 12.6% | 2.2% | 862 | 1 032 | -16.5% | 2 434 | 2.7% |
| Oil | 1 | 1.1% | 10.0% | 0.0% | 6 | 12 | -53.6% | 26 | 0.0% |
| Natural Gas | 1 715 | 15.3% | 25.7% | 24.2% | 9 733 | 9 548 | 1.9% | 24 729 | 27.6% |
| Combustible Renewables | 467 | 59.5% | 2.2% | 6.6% | 2 210 | 1 911 | 15.6% | 4 987 | 5.6% |
| Other Combustibles | 110 | -1.9% | -8.0% | 1.5% | 553 | 578 | -4.2% | 1 332 | 1.5% |
| Nuclear | 3 029 | -17.3% | 2.8% | 42.7% | 14 943 | 16 463 | -9.2% | 41 359 | 46.1% |
| Hydro | 90 | 1.8% | -20.9% | 1.3% | 597 | 539 | 10.8% | 1 147 | 1.3% |
| Wind | 735 | 48.9% | 10.8% | 10.4% | 5 736 | 3 789 | 51.4% | 9 369 | 10.4% |
| Solar | 759 | 51.6% | 17.6% | 10.7% | 2 076 | 1 510 | 37.5% | 3 919 | 4.4% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 37 | 3.9% | 8.9% | 0.5% | 163 | 184 | -11.6% | 408 | 0.5% |
| RENEWABLES | 2 051 | 49.1% | 9.1% | 28.9% | 10 618 | 7 749 | 37.0% | 19 421 | 21.6% |
| NON-RENEWABLES | 5 048 | -8.5% | 9.6% | 71.1% | 26 260 | 27 817 | -5.6% | 70 288 | 78.4% |
| TOTAL NET PRODUCTION | 7 098 | 3.0% | 9.5% | | 36 878 | 35 566 | 3.7% | 89 709 | |
| + Imports | 1 014 | -20.0% | -11.6% | | 5 289 | 6 623 | -20.1% | 12 735 | |
| - Exports | 1 499 | 31.2% | 16.5% | | 5 859 | 4 805 | 22.0% | 14 589 | |
| = ELECTRICITY SUPPLIED | 6 614 | -5.8% | 4.2% | | 36 308 | 37 385 | -2.9% | 87 855 | |
| - Used for pumped storage | 103 | 15.4% | -13.7% | | 590 | 502 | 17.5% | 1 162 | |
| - T&D Losses | 334 | -6.9% | 4.4% | | 1 839 | 1 905 | -3.4% | 4 472 | |
| = ELECTRICITY CONSUMED | 6 177 | -6.0% | 4.6% | | 33 879 | 34 978 | -3.1% | 82 220 | |

¹ current month to month of last year change

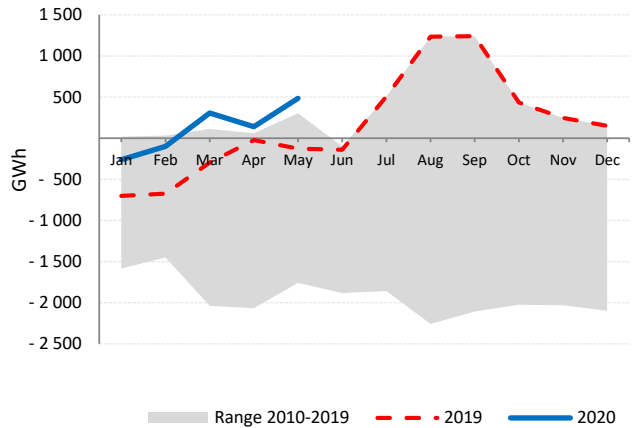
² month-to-month change

³ year-to-date compared to same period last year

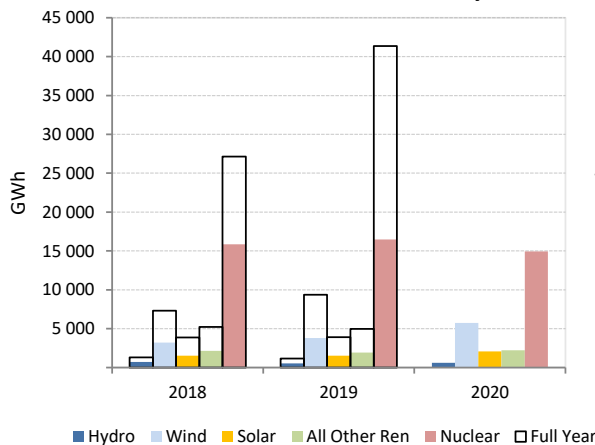
Electricity Production



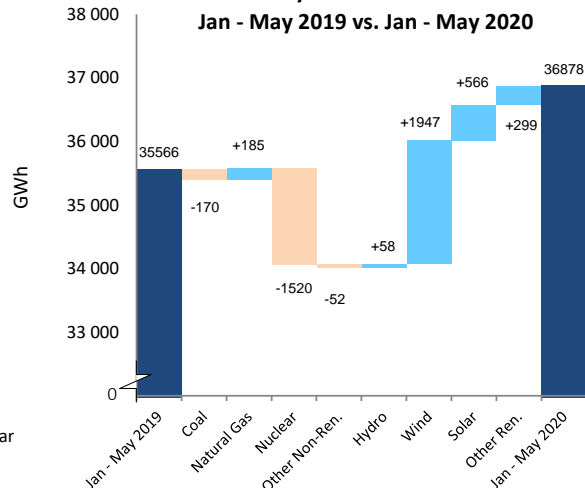
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



CANADA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 7 306 | -16.9% | -11.8% | 15.7% | 47 218 | 53 228 | -11.3% | 123 037 | 19.4% |
| Coal ⁴ | 2 706 | -16.9% | -11.8% | 5.8% | 17 488 | 19 714 | -11.3% | 45 570 | 7.2% |
| Oil ⁴ | 342 | -16.9% | -11.8% | 0.7% | 2 211 | 2 492 | -11.3% | 5 760 | 0.9% |
| Natural Gas ⁴ | 3 656 | -16.9% | -11.8% | 7.8% | 23 628 | 26 636 | -11.3% | 61 569 | 9.7% |
| Combustible Renewables ⁴ | 597 | -16.9% | -11.8% | 1.3% | 3 857 | 4 348 | -11.3% | 10 051 | 1.6% |
| Other Combustibles ⁴ | 5 | -16.9% | -11.8% | 0.0% | 34 | 38 | -11.3% | 88 | 0.0% |
| Nuclear | 7 480 | 3.3% | -0.8% | 16.0% | 39 292 | 36 239 | 8.4% | 95 461 | 15.0% |
| Hydro | 28 490 | -0.7% | -2.1% | 61.1% | 168 010 | 169 244 | -0.7% | 378 127 | 59.6% |
| Wind | 2 882 | 36.7% | -8.4% | 6.2% | 16 127 | 16 058 | 0.4% | 33 840 | 5.3% |
| Solar | 490 | 1.7% | 17.8% | 1.0% | 1 598 | 1 570 | 1.8% | 4 175 | 0.7% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | 1 | - | 1 | 0.0% |
| Non-Specified | 10 | -32.6% | 9.3% | 0.0% | 58 | 86 | -32.4% | 169 | 0.0% |
| RENEWABLES | 32 459 | 1.5% | -2.7% | 69.6% | 189 593 | 191 221 | -0.9% | 426 194 | 67.1% |
| NON-RENEWABLES | 14 200 | -7.3% | -6.3% | 30.4% | 82 711 | 85 205 | -2.9% | 208 617 | 32.9% |
| TOTAL NET PRODUCTION | 46 659 | -1.4% | -3.8% | | 272 304 | 276 426 | -1.5% | 634 811 | |
| + Imports | 905 | -24.9% | 15.4% | | 4 879 | 6 151 | -20.7% | 13 369 | |
| - Exports | 6 207 | 38.0% | 23.8% | | 26 523 | 22 262 | 19.1% | 60 376 | |
| = ELECTRICITY SUPPLIED | 41 357 | -6.1% | -6.6% | | 250 660 | 260 315 | -3.7% | 587 804 | |
| - Used for pumped storage ⁴ | 16 | -0.7% | -2.1% | | 93 | 94 | -0.7% | 210 | |
| - T&D Losses ⁴ | 2 593 | 0.1% | -3.5% | | 15 110 | 15 087 | 0.2% | 34 606 | |
| = ELECTRICITY CONSUMED | 38 749 | -6.4% | -6.8% | | 235 457 | 245 134 | -3.9% | 552 988 | |

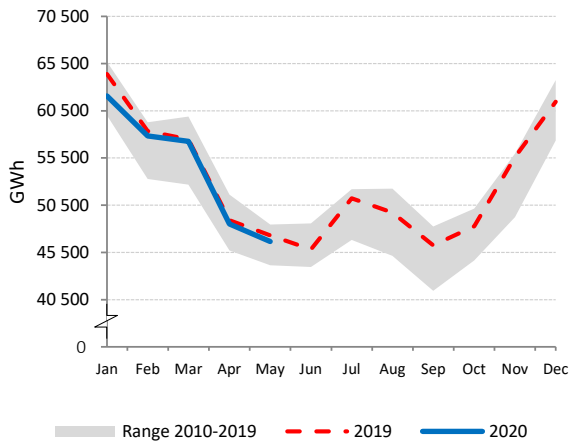
¹ current month to month of last year change

⁴ estimated from annual data

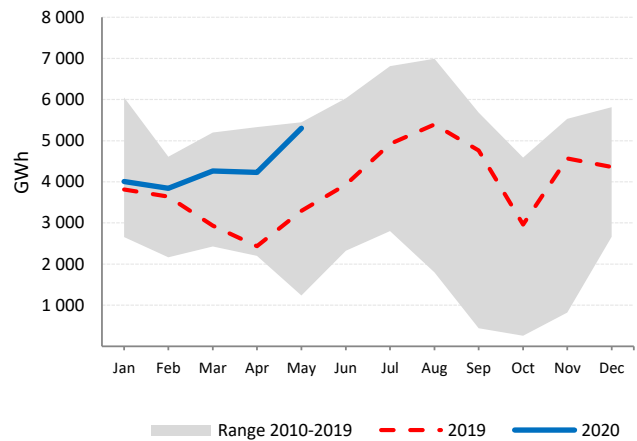
² month-to-month change

³ year-to-date compared to same period last year

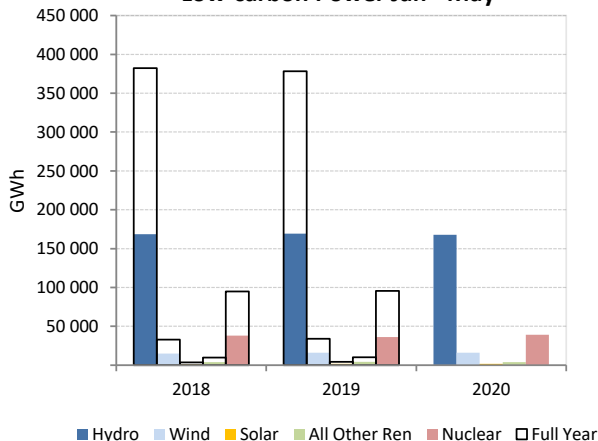
Electricity Production



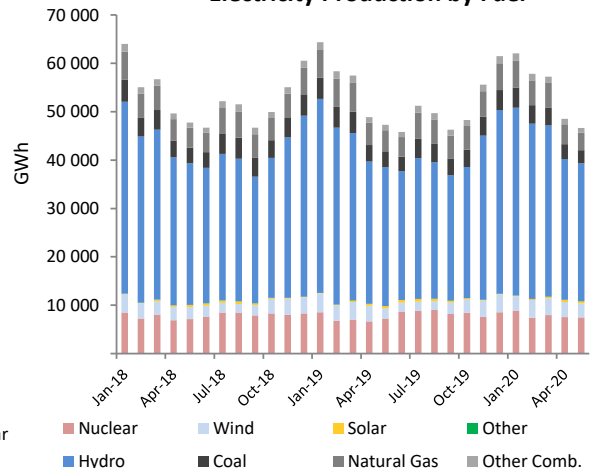
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



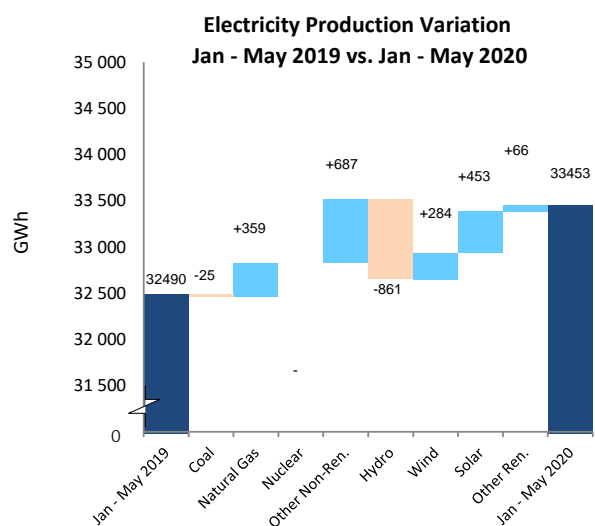
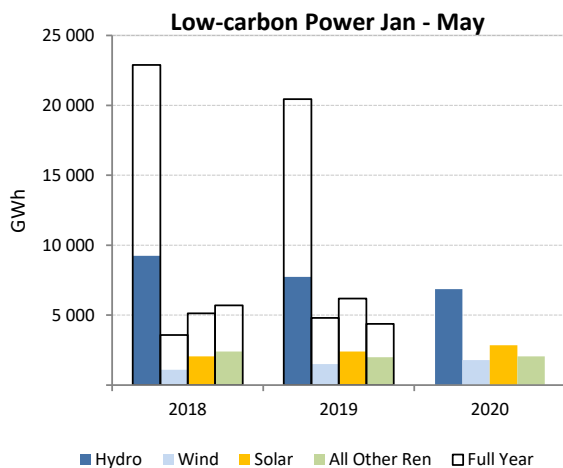
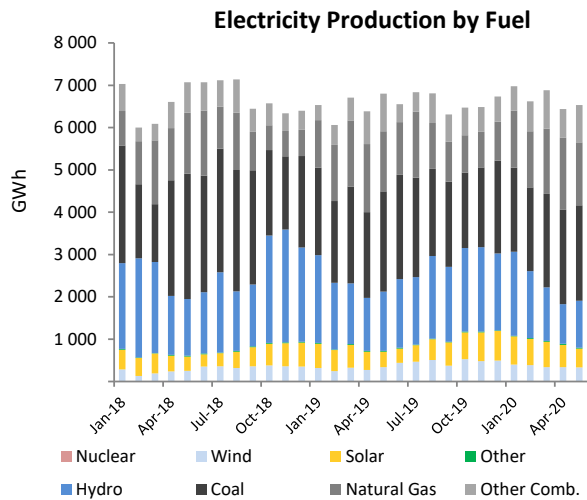
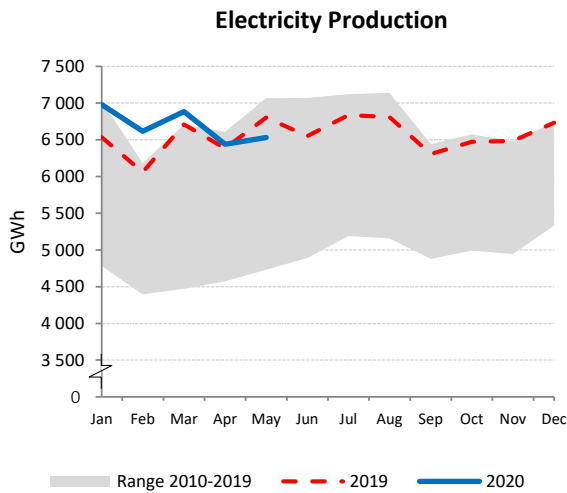
CHILE

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 4 622 | -1.2% | 0.1% | 70.8% | 21 821 | 20 756 | 5.1% | 47 041 | 59.8% |
| Coal | 2 256 | -4.6% | 1.2% | 34.5% | 10 654 | 10 680 | -0.2% | 25 431 | 32.3% |
| Oil | 498 | 9.7% | 85.9% | 7.6% | 1 804 | 1 116 | 61.6% | 2 911 | 3.7% |
| Natural Gas | 1 484 | 4.3% | -13.1% | 22.7% | 7 410 | 7 051 | 5.1% | 14 521 | 18.5% |
| Combustible Renewables | 384 | -11.7% | -6.9% | 5.9% | 1 953 | 1 910 | 2.3% | 4 177 | 5.3% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 1 110 | -20.7% | 19.1% | 17.0% | 6 869 | 7 730 | -11.1% | 20 456 | 26.0% |
| Wind | 330 | -2.9% | -3.2% | 5.1% | 1 793 | 1 509 | 18.8% | 4 800 | 6.1% |
| Solar | 445 | 22.1% | -15.5% | 6.8% | 2 858 | 2 405 | 18.8% | 6 188 | 7.9% |
| Geothermal | 25 | 13.9% | 2.8% | 0.4% | 111 | 89 | 25.2% | 202 | 0.3% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 2 294 | -10.4% | 2.6% | 35.1% | 13 584 | 13 643 | -0.4% | 35 823 | 45.5% |
| NON-RENEWABLES | 4 238 | -0.1% | 0.8% | 64.9% | 19 868 | 18 847 | 5.4% | 42 864 | 54.5% |
| TOTAL NET PRODUCTION | 6 532 | -4.0% | 1.4% | | 33 453 | 32 490 | 3.0% | 78 686 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 6 532 | -4.0% | 1.4% | | 33 453 | 32 490 | 3.0% | 78 686 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 269 | -5.0% | 0.4% | | 1 390 | 1 614 | -13.9% | 3 560 | |
| = ELECTRICITY CONSUMED | 6 263 | -3.9% | 1.5% | | 32 063 | 30 876 | 3.8% | 75 126 | |

¹ current month to month of last year change

² month-to-month change

³ year-to-date compared to same period last year



CZECH REPUBLIC

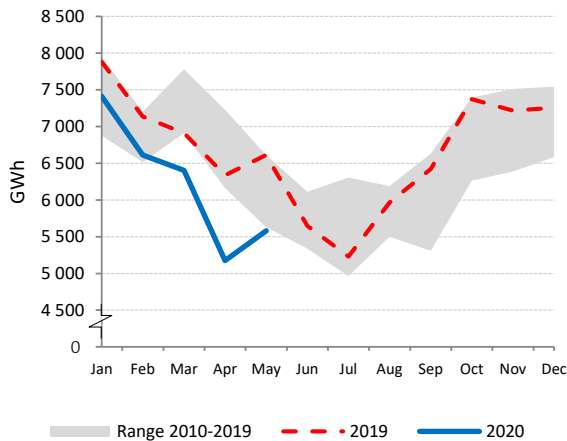
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 2 517 | -23.9% | -9.2% | 45.1% | 17 376 | 19 911 | -12.7% | 45 231 | 56.5% |
| Coal | 1 734 | -36.0% | -14.9% | 31.1% | 13 085 | 16 264 | -19.5% | 35 362 | 44.2% |
| Oil | 3 | -55.2% | 8.9% | 0.1% | 29 | 41 | -29.7% | 104 | 0.1% |
| Natural Gas | 386 | 81.9% | 11.8% | 6.9% | 2 285 | 1 716 | 33.2% | 5 180 | 6.5% |
| Combustible Renewables | 388 | 3.6% | 2.1% | 7.0% | 1 942 | 1 859 | 4.4% | 4 509 | 5.6% |
| Other Combustibles | 5 | -11.6% | -16.8% | 0.1% | 35 | 31 | 13.3% | 76 | 0.1% |
| Nuclear | 2 504 | -8.7% | 43.0% | 44.9% | 11 095 | 12 060 | -8.0% | 28 555 | 35.7% |
| Hydro | 228 | -14.9% | -17.3% | 4.1% | 1 322 | 1 639 | -19.3% | 3 142 | 3.9% |
| Wind | 46 | -9.8% | -5.1% | 0.8% | 358 | 339 | 5.8% | 689 | 0.9% |
| Solar | 275 | 18.7% | -13.9% | 4.9% | 983 | 885 | 11.1% | 2 257 | 2.8% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 10 | 10.3% | 16.3% | 0.2% | 48 | 47 | 2.1% | 112 | 0.1% |
| RENEWABLES | 937 | 1.3% | -8.5% | 16.8% | 4 605 | 4 721 | -2.5% | 10 597 | 13.2% |
| NON-RENEWABLES | 4 644 | -18.4% | 11.9% | 83.2% | 26 577 | 30 159 | -11.9% | 69 388 | 86.8% |
| TOTAL NET PRODUCTION | 5 581 | -15.6% | 7.8% | | 31 183 | 34 881 | -10.6% | 79 985 | |
| + Imports | 1 004 | 59.1% | -9.2% | | 6 342 | 4 693 | 35.1% | 11 026 | |
| - Exports | 1 795 | 0.4% | 19.6% | | 9 563 | 10 248 | -6.7% | 24 123 | |
| = ELECTRICITY SUPPLIED | 4 790 | -12.2% | 0.2% | | 27 962 | 29 326 | -4.6% | 66 888 | |
| - Used for pumped storage | 153 | 25.9% | -13.5% | | 767 | 601 | 27.6% | 1 508 | |
| - T&D Losses | 255 | -24.5% | -15.3% | | 1 830 | 1 926 | -5.0% | 4 460 | |
| = ELECTRICITY CONSUMED | 4 381 | -12.3% | 1.8% | | 25 365 | 26 799 | -5.3% | 60 921 | |

¹ current month to month of last year change

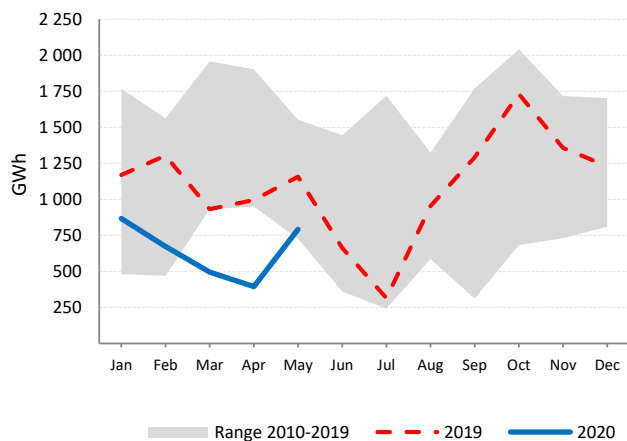
² month-to-month change

³ year-to-date compared to same period last year

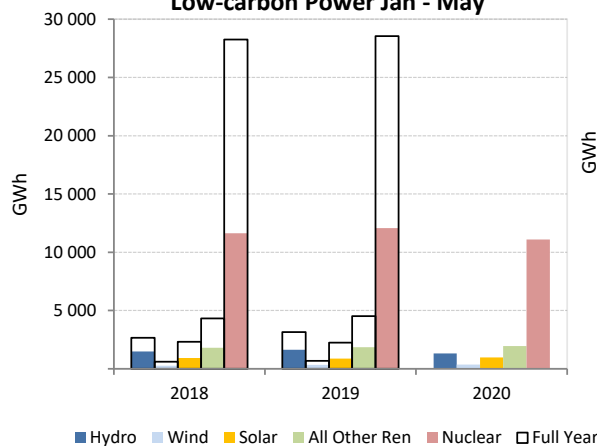
Electricity Production



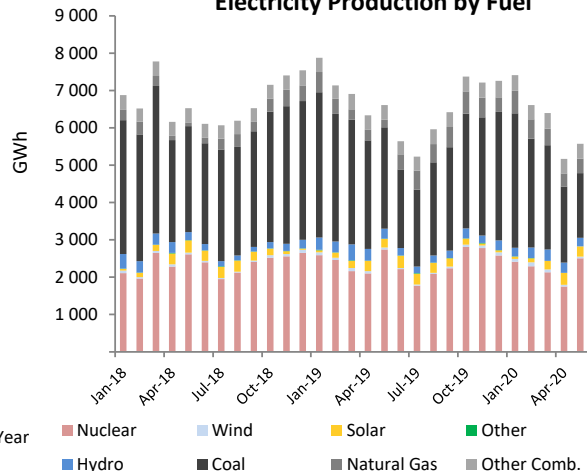
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



DENMARK

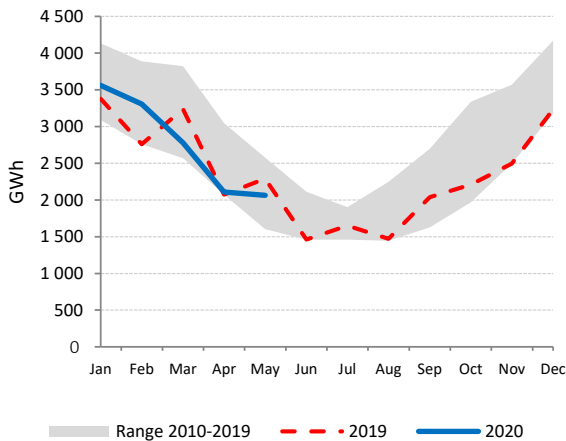
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 626 | -6.4% | -14.9% | 30.3% | 5 035 | 5 980 | -15.8% | 11 164 | 39.5% |
| Coal | 224 | 37.5% | 11.4% | 10.9% | 1 687 | 2 010 | -16.1% | 2 983 | 10.5% |
| Oil | 11 | -30.4% | -16.8% | 0.5% | 75 | 93 | -19.6% | 218 | 0.8% |
| Natural Gas | 60 | -37.2% | -4.8% | 2.9% | 473 | 893 | -47.0% | 1 702 | 6.0% |
| Combustible Renewables | 268 | -19.6% | -33.1% | 13.0% | 2 495 | 2 672 | -6.6% | 5 550 | 19.6% |
| Other Combustibles | 63 | 2.6% | 8.3% | 3.1% | 304 | 312 | -2.5% | 711 | 2.5% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 1 | 17.4% | -17.5% | 0.1% | 9 | 7 | 30.2% | 16 | 0.1% |
| Wind | 1 250 | -15.8% | 3.0% | 60.6% | 8 280 | 7 342 | 12.8% | 16 150 | 57.1% |
| Solar | 186 | 36.5% | 20.2% | 9.0% | 489 | 406 | 20.4% | 963 | 3.4% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 1 705 | -12.8% | -3.7% | 82.6% | 11 273 | 10 427 | 8.1% | 22 679 | 80.2% |
| NON-RENEWABLES | 358 | 6.7% | 6.7% | 17.4% | 2 540 | 3 309 | -23.2% | 5 614 | 19.8% |
| TOTAL NET PRODUCTION | 2 063 | -10.0% | -2.0% | | 13 813 | 13 736 | 0.6% | 28 293 | |
| + Imports | 1 477 | 23.0% | -7.9% | | 7 322 | 5 839 | 25.4% | 15 982 | |
| - Exports | 846 | 15.4% | -16.9% | | 6 364 | 5 198 | 22.4% | 10 171 | |
| = ELECTRICITY SUPPLIED | 2 694 | -2.4% | 0.1% | | 14 771 | 14 377 | 2.7% | 34 105 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 187 | 14.3% | 2.7% | | 1 022 | 873 | 17.1% | 2 042 | |
| = ELECTRICITY CONSUMED | 2 506 | -3.4% | -0.1% | | 13 749 | 13 504 | 1.8% | 32 063 | |

¹ current month to month of last year change

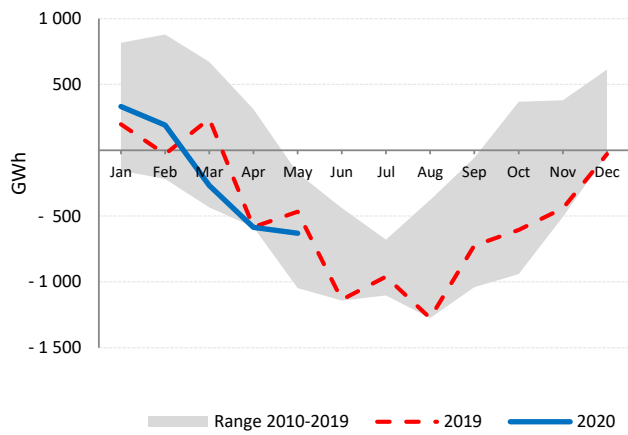
² month-to-month change

³ year-to-date compared to same period last year

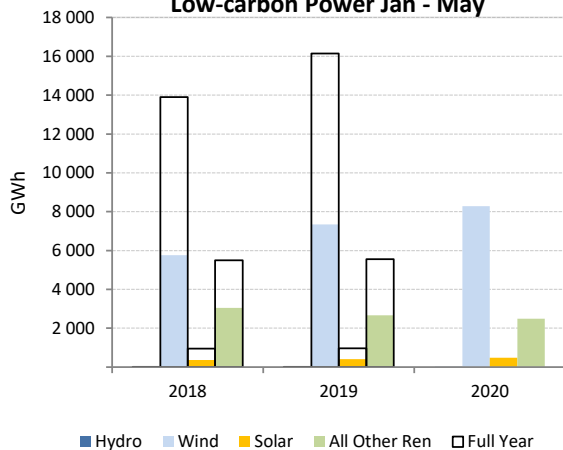
Electricity Production



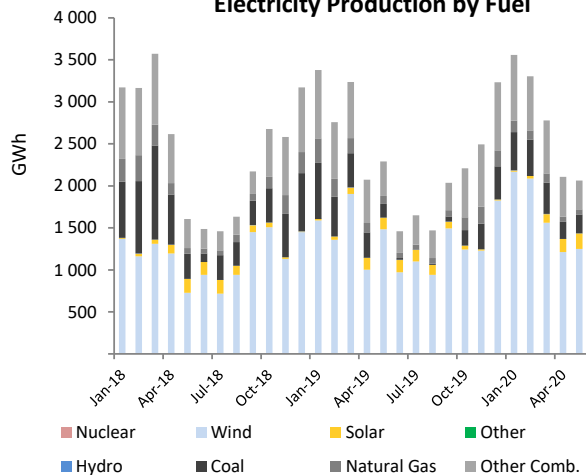
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



ESTONIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|--------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 237 | -45.8% | 13.2% | 80.5% | 1 366 | 3 246 | -57.9% | 5 916 | 88.6% |
| Coal ⁴ | 185 | -45.8% | 13.2% | 62.8% | 1 067 | 2 535 | -57.9% | 4 619 | 69.2% |
| Oil ⁴ | 1 | -45.8% | 13.2% | 0.3% | 5 | 13 | -57.9% | 23 | 0.3% |
| Natural Gas ⁴ | 1 | -45.8% | 13.2% | 0.4% | 8 | 18 | -57.9% | 33 | 0.5% |
| Combustible Renewables ⁴ | 47 | -45.8% | 13.2% | 15.8% | 269 | 639 | -57.9% | 1 165 | 17.4% |
| Other Combustibles ⁴ | 3 | -45.8% | 13.2% | 1.0% | 18 | 42 | -57.9% | 76 | 1.1% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 3 | 87.5% | -25.0% | 1.0% | 20 | 10 | 110.5% | 19 | 0.3% |
| Wind | 50 | 10.6% | -35.1% | 16.9% | 422 | 317 | 33.3% | 687 | 10.3% |
| Solar | 5 | - | - | 1.5% | 23 | 23 | - | 54 | 0.8% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 104 | -24.2% | -17.8% | 35.4% | 734 | 988 | -25.7% | 1 925 | 28.8% |
| NON-RENEWABLES | 190 | -45.8% | 13.2% | 64.6% | 1 097 | 2 607 | -57.9% | 4 751 | 71.2% |
| TOTAL NET PRODUCTION | 295 | -39.7% | -0.1% | | 1 831 | 3 595 | -49.1% | 6 676 | |
| + Imports | 664 | 43.7% | 2.8% | | 3 224 | 1 600 | 101.5% | 4 862 | |
| - Exports | 301 | 10.3% | 15.3% | | 1 257 | 1 268 | -0.9% | 2 703 | |
| = ELECTRICITY SUPPLIED | 658 | -2.9% | -3.3% | | 3 798 | 3 928 | -3.3% | 8 835 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses ⁴ | 52 | 0.8% | 1.9% | | 276 | 284 | -2.7% | 631 | |
| = ELECTRICITY CONSUMED | 605 | -3.3% | -3.7% | | 3 522 | 3 644 | -3.3% | 8 204 | |

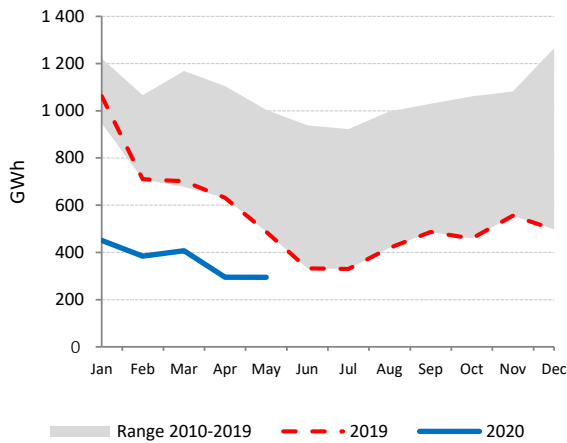
¹ current month to month of last year change

⁴ estimated from annual data

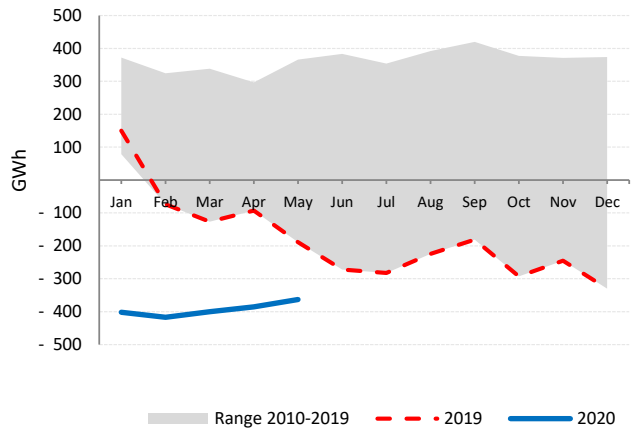
² month-to-month change

³ year-to-date compared to same period last year

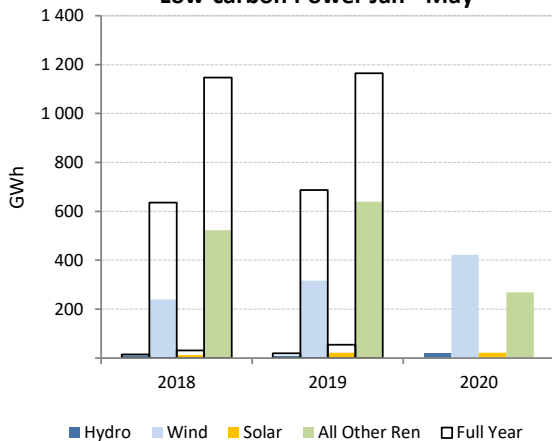
Electricity Production



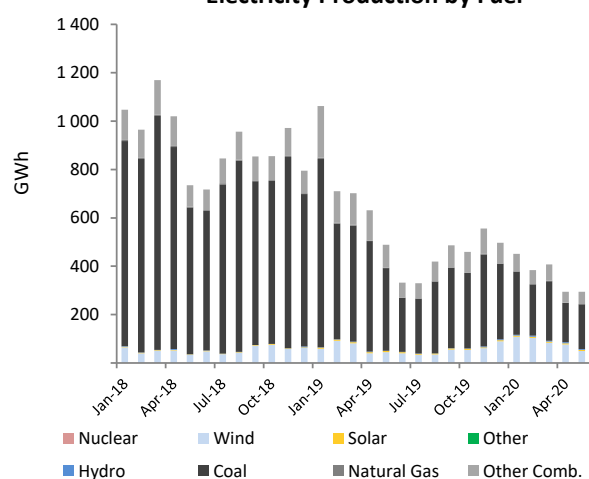
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



FINLAND

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|---------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 1 468 | -9.0% | -15.4% | 28.8% | 9 417 | 12 473 | -24.5% | 24 506 | 37.0% |
| Coal | 308 | -37.2% | -42.1% | 6.0% | 2 885 | 4 112 | -29.8% | 7 607 | 11.5% |
| Oil | 13 | -20.0% | -7.7% | 0.3% | 81 | 110 | -26.0% | 242 | 0.4% |
| Natural Gas | 288 | 112.1% | 33.8% | 5.6% | 1 611 | 2 155 | -25.2% | 3 769 | 5.7% |
| Combustible Renewables | 824 | -12.1% | -11.9% | 16.2% | 4 648 | 5 876 | -20.9% | 12 393 | 18.7% |
| Other Combustibles ⁴ | 35 | 3.6% | -10.8% | 0.7% | 192 | 221 | -12.9% | 496 | 0.7% |
| Nuclear | 1 615 | 7.3% | -16.2% | 31.7% | 9 606 | 9 511 | 1.0% | 22 927 | 34.7% |
| Hydro | 1 566 | -0.2% | 18.3% | 30.8% | 7 148 | 5 441 | 31.4% | 12 299 | 18.6% |
| Wind | 374 | -20.1% | -38.8% | 7.3% | 3 599 | 2 779 | 29.5% | 5 985 | 9.0% |
| Solar | 49 | 106.8% | 72.6% | 1.0% | 102 | 55 | 85.8% | 178 | 0.3% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 21 | - | - | 0.4% | 104 | 104 | - | 249 | 0.4% |
| RENEWABLES | 2 813 | -6.2% | -2.9% | 55.2% | 15 496 | 14 151 | 9.5% | 30 855 | 46.6% |
| NON-RENEWABLES | 2 280 | 3.5% | -17.0% | 44.8% | 14 479 | 16 212 | -10.7% | 35 290 | 53.4% |
| TOTAL NET PRODUCTION | 5 093 | -2.1% | -9.8% | | 29 975 | 30 363 | -1.3% | 66 144 | |
| + Imports | 1 743 | -4.1% | -0.7% | | 9 003 | 9 747 | -7.6% | 23 938 | |
| - Exports | 591 | 47.3% | -0.7% | | 2 863 | 1 273 | 125.0% | 3 896 | |
| = ELECTRICITY SUPPLIED | 6 246 | -5.6% | -8.2% | | 36 115 | 38 837 | -7.0% | 86 186 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 211 | -5.5% | -8.0% | | 1 222 | 1 314 | -7.0% | 2 913 | |
| = ELECTRICITY CONSUMED | 6 035 | -5.6% | -8.3% | | 34 894 | 37 523 | -7.0% | 83 273 | |

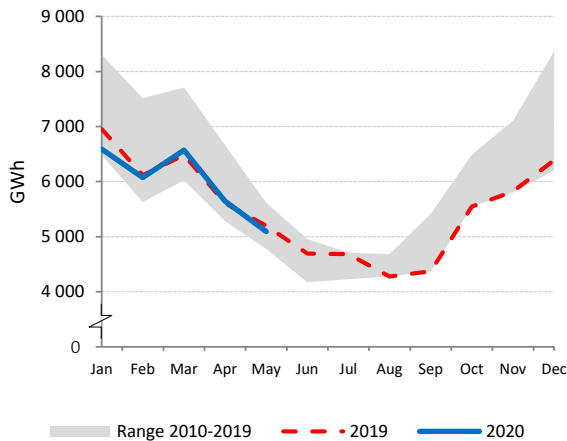
¹ current month to month of last year change

⁴ includes generation from peat

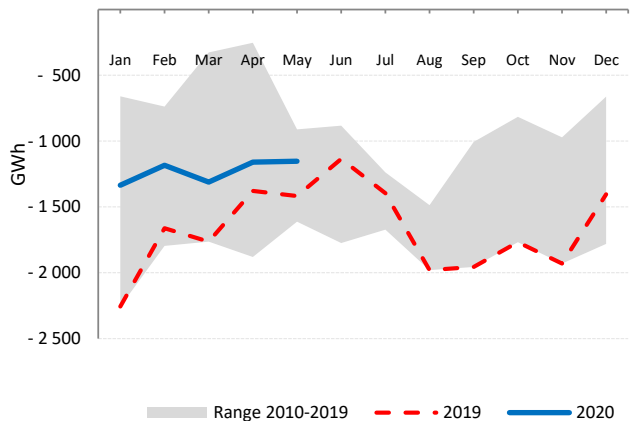
² month-to-month change

³ year-to-date compared to same period last year

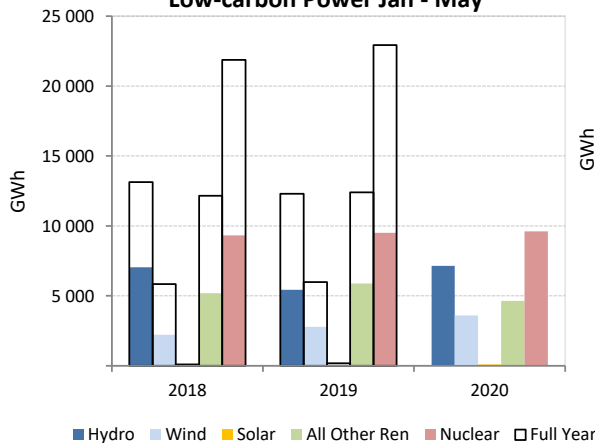
Electricity Production



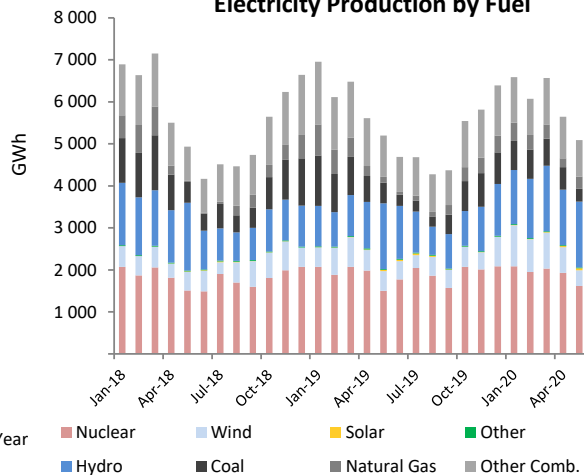
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



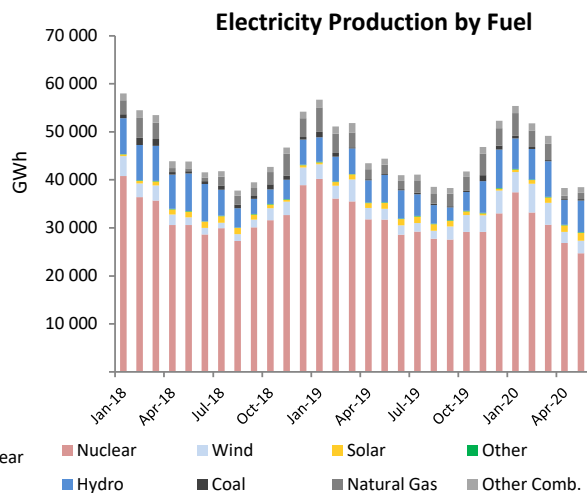
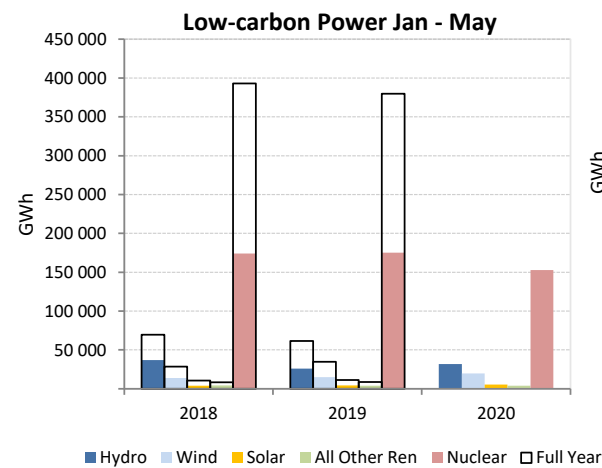
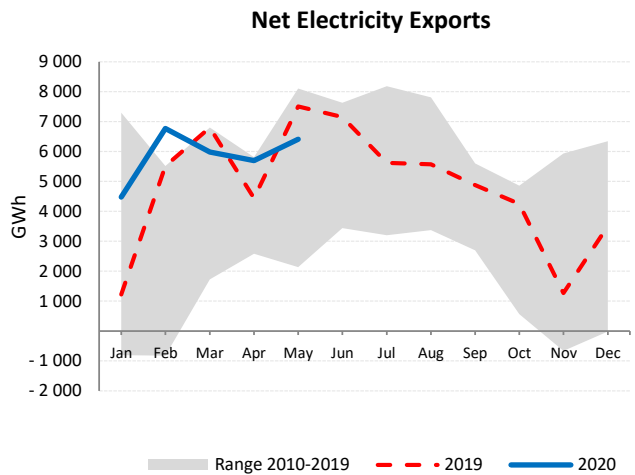
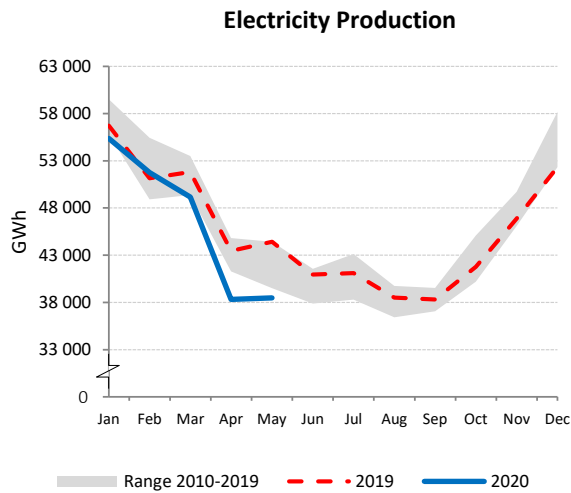
FRANCE

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 2 766 | -18.6% | 9.9% | 7.2% | 22 622 | 26 407 | -14.3% | 58 888 | 10.8% |
| Coal | 300 | 41.3% | 48.4% | 0.8% | 1 729 | 2 650 | -34.8% | 6 101 | 1.1% |
| Oil | 505 | 2.7% | 0.8% | 1.3% | 2 621 | 2 537 | 3.3% | 6 133 | 1.1% |
| Natural Gas | 1 283 | -33.6% | 80.3% | 3.3% | 13 537 | 16 235 | -16.6% | 36 078 | 6.6% |
| Combustible Renewables | 577 | -8.0% | -43.8% | 1.5% | 3 837 | 3 916 | -2.0% | 8 188 | 1.5% |
| Other Combustibles | 99 | -24.5% | 36.9% | 0.3% | 899 | 1 069 | -15.9% | 2 388 | 0.4% |
| Nuclear | 24 741 | -22.0% | -7.9% | 64.3% | 152 858 | 175 359 | -12.8% | 379 870 | 69.4% |
| Hydro | 6 630 | 16.6% | 28.8% | 17.2% | 31 924 | 25 887 | 23.3% | 61 376 | 11.2% |
| Wind | 2 600 | 13.6% | 12.5% | 6.8% | 19 682 | 14 883 | 32.2% | 34 648 | 6.3% |
| Solar | 1 644 | 32.4% | 18.6% | 4.3% | 5 473 | 4 492 | 21.9% | 11 357 | 2.1% |
| Geothermal ⁴ | 9 | -2.7% | - | 0.0% | 47 | 49 | -2.7% | 117 | 0.0% |
| Other Renewables | 40 | - | - | 0.1% | 198 | 198 | - | 474 | 0.1% |
| Non-Specified | 55 | - | - | 0.1% | 275 | 275 | - | 659 | 0.1% |
| RENEWABLES | 11 500 | 16.3% | 15.9% | 29.9% | 61 161 | 49 424 | 23.7% | 116 159 | 21.2% |
| NON-RENEWABLES | 26 984 | -21.8% | -5.0% | 70.1% | 171 918 | 198 124 | -13.2% | 431 229 | 78.8% |
| TOTAL NET PRODUCTION | 38 484 | -13.4% | 0.4% | | 233 079 | 247 548 | -5.8% | 547 388 | |
| + Imports | 583 | 128.2% | -24.7% | | 4 475 | 5 930 | -24.5% | 15 593 | |
| - Exports | 6 992 | -9.9% | 8.1% | | 33 819 | 31 428 | 7.6% | 73 352 | |
| = ELECTRICITY SUPPLIED | 32 075 | -13.1% | -1.7% | | 203 735 | 222 050 | -8.2% | 489 629 | |
| - Used for pumped storage | 567 | -3.3% | -1.1% | | 2 894 | 2 509 | 15.4% | 6 327 | |
| - T&D Losses | 2 548 | -8.6% | -3.8% | | 17 534 | 18 539 | -5.4% | 39 849 | |
| = ELECTRICITY CONSUMED | 28 959 | -13.6% | -1.5% | | 183 307 | 201 002 | -8.8% | 443 452 | |

¹ current month to month of last year change

² month-to-month change

³ year-to-date compared to same period last year



GERMANY

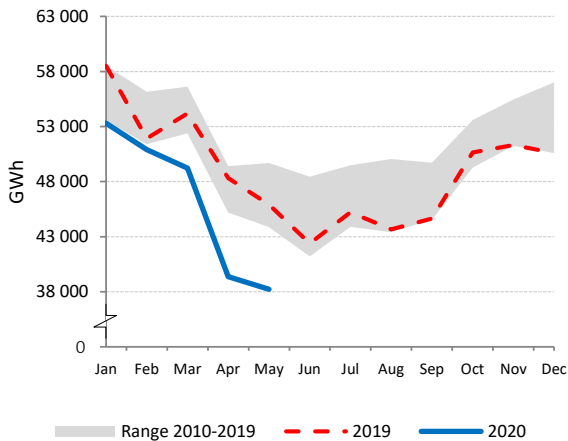
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 16 946 | -31.9% | 2.8% | 44.3% | 105 162 | 140 238 | -25.0% | 318 151 | 54.2% |
| Coal | 6 792 | -51.2% | 1.2% | 17.8% | 47 232 | 79 710 | -40.7% | 172 439 | 29.4% |
| Oil | 268 | -29.6% | -8.0% | 0.7% | 1 685 | 1 985 | -15.1% | 4 725 | 0.8% |
| Natural Gas | 5 571 | -10.1% | 5.8% | 14.6% | 34 118 | 36 273 | -5.9% | 87 812 | 15.0% |
| Combustible Renewables | 3 902 | 1.6% | 2.3% | 10.2% | 19 820 | 19 642 | 0.9% | 46 897 | 8.0% |
| Other Combustibles | 413 | -23.4% | 0.1% | 1.1% | 2 308 | 2 628 | -12.2% | 6 277 | 1.1% |
| Nuclear | 4 286 | -7.1% | -9.3% | 11.2% | 25 385 | 30 014 | -15.4% | 70 983 | 12.1% |
| Hydro | 2 148 | -7.0% | 7.9% | 5.6% | 10 742 | 11 272 | -4.7% | 25 901 | 4.4% |
| Wind | 7 630 | -7.6% | -12.8% | 20.0% | 66 975 | 58 810 | 13.9% | 123 606 | 21.0% |
| Solar | 7 121 | 23.9% | -2.9% | 18.6% | 22 296 | 18 039 | 23.6% | 47 517 | 8.1% |
| Geothermal | 13 | -22.2% | -30.0% | 0.0% | 85 | 80 | 6.0% | 170 | 0.0% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 81 | -3.9% | 43.9% | 0.2% | 362 | 396 | -8.8% | 992 | 0.2% |
| RENEWABLES | 20 814 | 3.2% | -5.0% | 54.5% | 119 918 | 107 844 | 11.2% | 244 092 | 41.6% |
| NON-RENEWABLES | 17 410 | -32.3% | -0.3% | 45.5% | 111 090 | 151 007 | -26.4% | 343 228 | 58.4% |
| TOTAL NET PRODUCTION | 38 224 | -16.7% | -2.9% | | 231 007 | 258 850 | -10.8% | 587 320 | |
| + Imports | 5 892 | 29.7% | 19.5% | | 21 144 | 13 064 | 61.9% | 40 123 | |
| - Exports | 4 092 | -9.3% | -8.4% | | 29 531 | 34 060 | -13.3% | 72 792 | |
| = ELECTRICITY SUPPLIED | 40 025 | -12.9% | 0.5% | | 222 620 | 237 854 | -6.4% | 554 651 | |
| - Used for pumped storage | 835 | 35.5% | -8.0% | | 4 049 | 3 497 | 15.8% | 8 178 | |
| - T&D Losses | 1 785 | -10.5% | -6.3% | | 11 683 | 11 724 | -0.4% | 26 548 | |
| = ELECTRICITY CONSUMED | 37 404 | -13.7% | 1.1% | | 206 888 | 222 632 | -7.1% | 519 925 | |

¹ current month to month of last year change

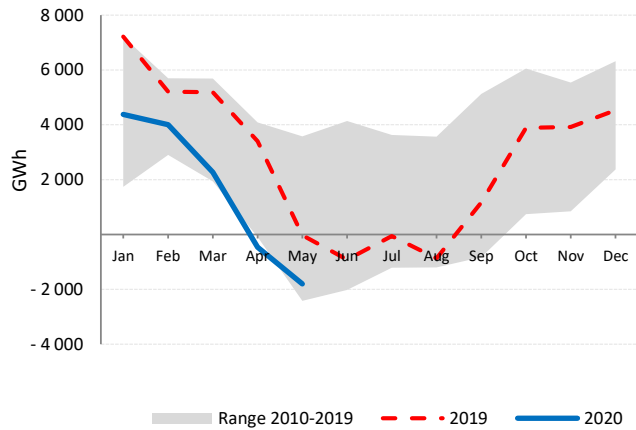
² month-to-month change

³ year-to-date compared to same period last year

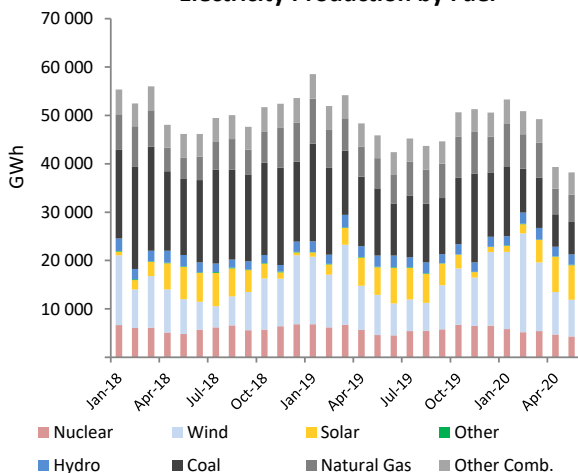
Electricity Production



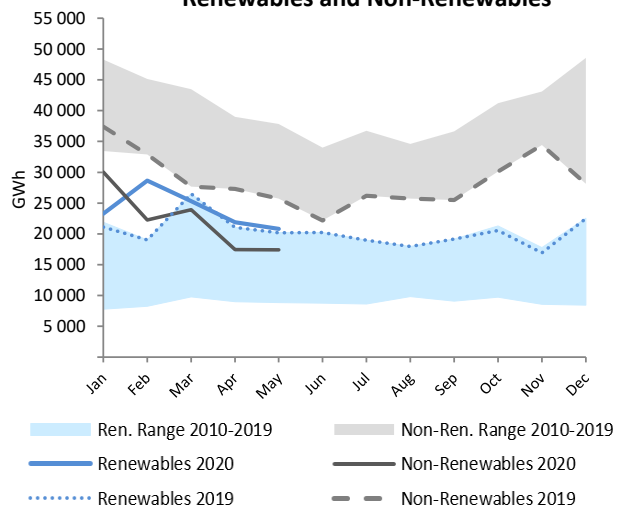
Net Electricity Exports



Electricity Production by Fuel



Renewables and Non-Renewables



GREECE

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 1 695 | -15.5% | 4.2% | 56.9% | 10 354 | 12 390 | -16.4% | 30 286 | 66.7% |
| Coal | 198 | -71.3% | -37.7% | 6.6% | 2 623 | 4 602 | -43.0% | 9 782 | 21.5% |
| Oil | 215 | -34.7% | 1.6% | 7.2% | 1 278 | 1 482 | -13.8% | 4 047 | 8.9% |
| Natural Gas | 1 141 | 32.7% | 18.4% | 38.3% | 5 740 | 5 625 | 2.0% | 14 759 | 32.5% |
| Combustible Renewables ⁴ | 126 | 9.3% | 2.4% | 4.2% | 632 | 598 | 5.6% | 1 429 | 3.1% |
| Other Combustibles ⁴ | 16 | 13.8% | 44.3% | 0.5% | 81 | 82 | -1.0% | 267 | 0.6% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 283 | -4.7% | 3.0% | 9.5% | 1 233 | 1 634 | -24.5% | 3 892 | 8.6% |
| Wind | 558 | 32.4% | -27.9% | 18.7% | 3 742 | 2 922 | 28.1% | 7 278 | 16.0% |
| Solar | 444 | 12.9% | 20.5% | 14.9% | 1 688 | 1 479 | 14.1% | 3 961 | 8.7% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 1 411 | 15.0% | -8.4% | 47.3% | 7 295 | 6 633 | 10.0% | 16 561 | 36.5% |
| NON-RENEWABLES | 1 570 | -17.0% | 4.4% | 52.7% | 9 722 | 11 792 | -17.5% | 28 856 | 63.5% |
| TOTAL NET PRODUCTION | 2 980 | -4.4% | -2.1% | | 17 018 | 18 425 | -7.6% | 45 417 | |
| + Imports | 756 | -27.0% | 7.3% | | 4 581 | 4 653 | -1.5% | 11 067 | |
| - Exports | 27 | 20.3% | -53.6% | | 126 | 620 | -79.7% | 1 123 | |
| = ELECTRICITY SUPPLIED | 3 709 | -10.2% | 0.5% | | 21 473 | 22 458 | -4.4% | 55 361 | |
| - Used for pumped storage | 4 | -41.3% | -68.0% | | 67 | 23 | 193.3% | 56 | |
| - T&D Losses | 220 | -6.9% | -3.4% | | 1 240 | 1 343 | -7.6% | 3 260 | |
| = ELECTRICITY CONSUMED | 3 485 | -10.4% | 1.0% | | 20 166 | 21 092 | -4.4% | 52 045 | |

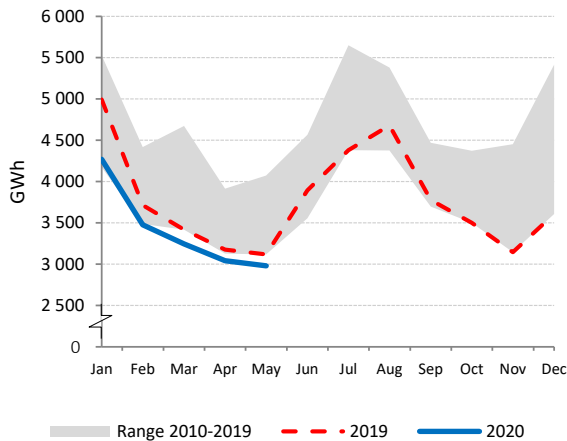
¹ current month to month of last year change

⁴ estimated from annual data

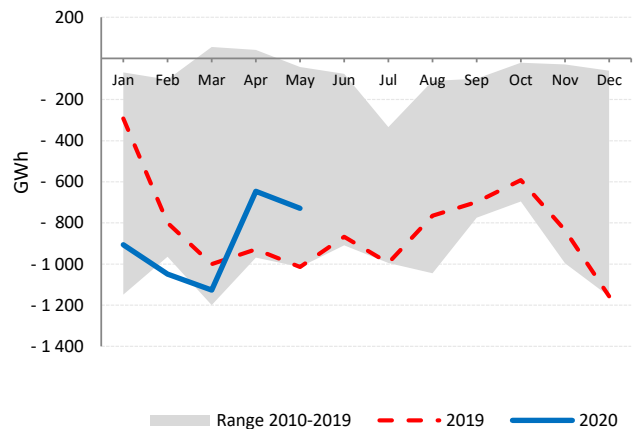
² month-to-month change

³ year-to-date compared to same period last year

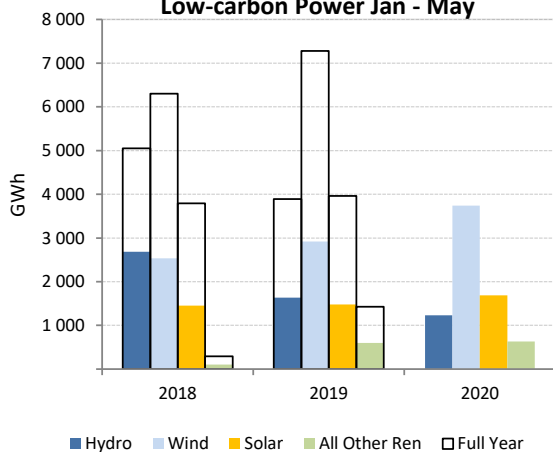
Electricity Production



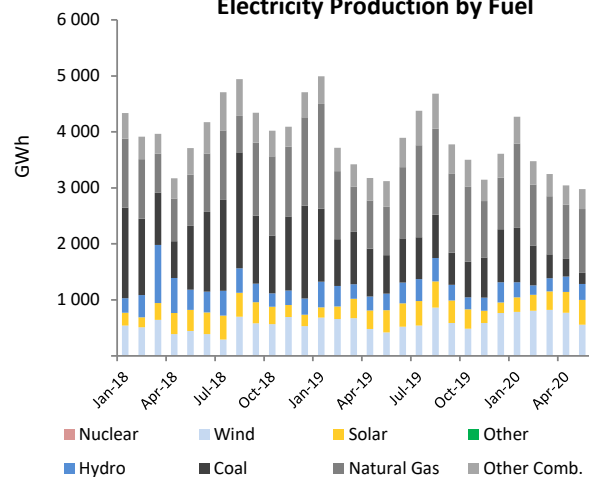
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



HUNGARY

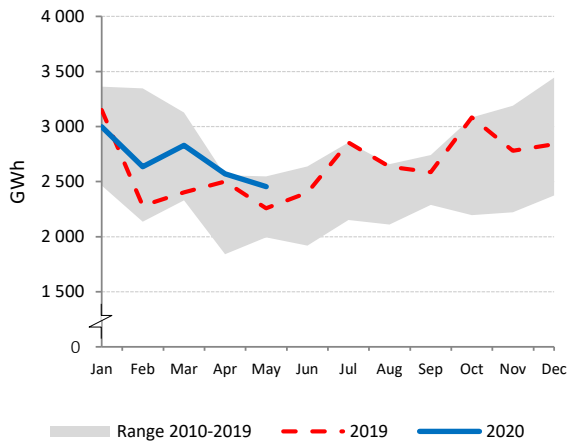
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 807 | 1.7% | -2.0% | 32.9% | 5 590 | 5 486 | 1.9% | 13 947 | 43.9% |
| Coal | 199 | -4.2% | -8.7% | 8.1% | 1 453 | 1 544 | -5.9% | 3 813 | 12.0% |
| Oil | 4 | -1.0% | -8.1% | 0.2% | 18 | 24 | -25.2% | 62 | 0.2% |
| Natural Gas | 427 | 4.2% | -4.2% | 17.4% | 3 346 | 2 967 | 12.8% | 7 815 | 24.6% |
| Combustible Renewables | 161 | 5.4% | 17.4% | 6.5% | 692 | 860 | -19.5% | 2 029 | 6.4% |
| Other Combustibles | 16 | -17.2% | -15.5% | 0.6% | 81 | 90 | -10.6% | 228 | 0.7% |
| Nuclear | 1 284 | 2.9% | -7.0% | 52.3% | 6 485 | 6 120 | 6.0% | 15 386 | 48.4% |
| Hydro | 23 | 57.5% | 5.2% | 0.9% | 97 | 97 | 0.0% | 213 | 0.7% |
| Wind | 69 | -9.8% | 87.6% | 2.8% | 317 | 381 | -16.7% | 708 | 2.2% |
| Solar | 259 | 128.7% | -12.2% | 10.6% | 936 | 450 | 108.2% | 1 373 | 4.3% |
| Geothermal | 1 | -14.2% | -15.0% | 0.0% | 6 | 6 | 8.2% | 14 | 0.0% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 11 | - | - | 0.4% | 54 | 54 | - | 130 | 0.4% |
| RENEWABLES | 513 | 43.2% | 4.3% | 20.9% | 2 049 | 1 794 | 14.2% | 4 337 | 13.7% |
| NON-RENEWABLES | 1 941 | 2.2% | -6.6% | 79.1% | 11 438 | 10 800 | 5.9% | 27 434 | 86.3% |
| TOTAL NET PRODUCTION | 2 454 | 8.7% | -4.5% | | 13 487 | 12 593 | 7.1% | 31 771 | |
| + Imports | 1 543 | -15.9% | 23.9% | | 8 239 | 9 088 | -9.3% | 19 854 | |
| - Exports | 709 | 58.2% | 20.8% | | 3 421 | 2 992 | 14.4% | 7 269 | |
| = ELECTRICITY SUPPLIED | 3 288 | -9.8% | 1.8% | | 18 305 | 18 690 | -2.1% | 44 356 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 269 | -5.1% | 0.8% | | 1 601 | 1 748 | -8.4% | 3 906 | |
| = ELECTRICITY CONSUMED | 3 019 | -10.2% | 1.9% | | 16 704 | 16 941 | -1.4% | 40 450 | |

¹ current month to month of last year change

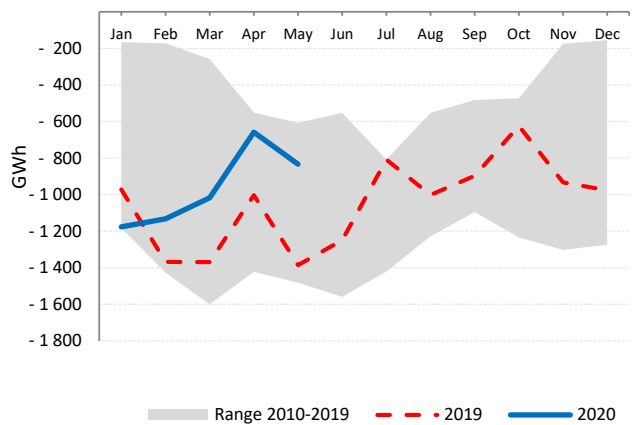
² month-to-month change

³ year-to-date compared to same period last year

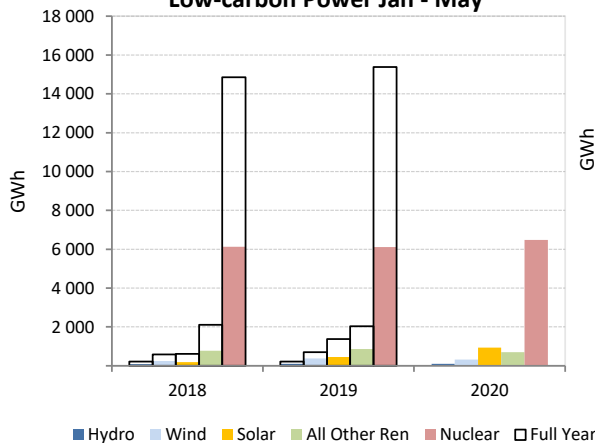
Electricity Production



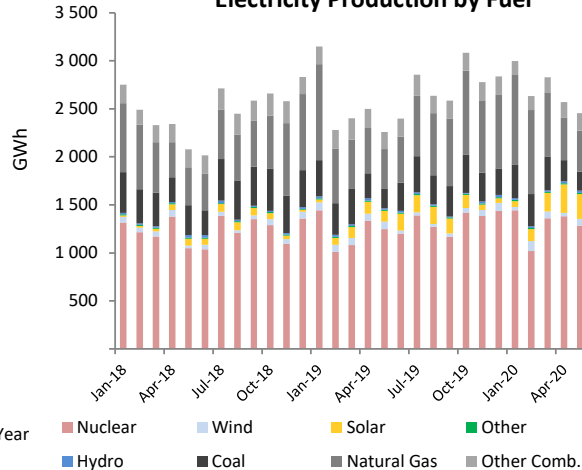
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



ICELAND

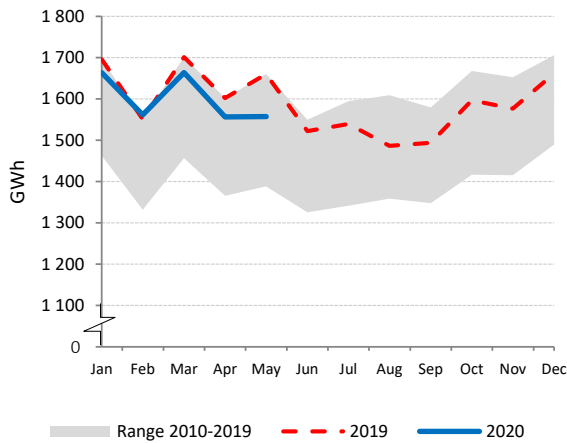
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|---------------|--------------|--------------|---------------------|---------------|---------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 0 | -7.5% | 30.8% | 0.0% | 2 | 1 | 210.1% | 3 | 0.0% |
| Coal | - | - | - | - | - | - | - | - | - |
| Oil | 0 | -7.5% | 30.8% | 0.0% | 2 | 1 | 210.1% | 3 | 0.0% |
| Natural Gas | - | - | - | - | - | - | - | - | - |
| Combustible Renewables | - | - | - | - | - | - | - | - | - |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 1 047 | -10.7% | -0.2% | 67.3% | 5 457 | 5 749 | -5.1% | 13 236 | 69.3% |
| Wind | 1 | 51.1% | 3.9% | 0.0% | 3 | 3 | 18.7% | 7 | 0.0% |
| Solar | - | - | - | - | - | - | - | - | - |
| Geothermal | 509 | 4.7% | 0.5% | 32.7% | 2 542 | 2 459 | 3.4% | 5 843 | 30.6% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 1 557 | -6.2% | 0.0% | 100.0% | 8 002 | 8 211 | -2.5% | 19 086 | 100.0% |
| NON-RENEWABLES | 0 | -7.5% | 32.0% | 0.0% | 2 | 1 | 211.0% | 3 | 0.0% |
| TOTAL NET PRODUCTION | 1 557 | -6.2% | 0.0% | | 8 004 | 8 212 | -2.5% | 19 089 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 1 557 | -6.2% | 0.0% | | 8 004 | 8 212 | -2.5% | 19 089 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 45 | -4.0% | - | | 228 | 232 | -2.0% | 552 | |
| = ELECTRICITY CONSUMED | 1 512 | -6.3% | 0.0% | | 7 776 | 7 979 | -2.5% | 18 537 | |

¹ current month to month of last year change

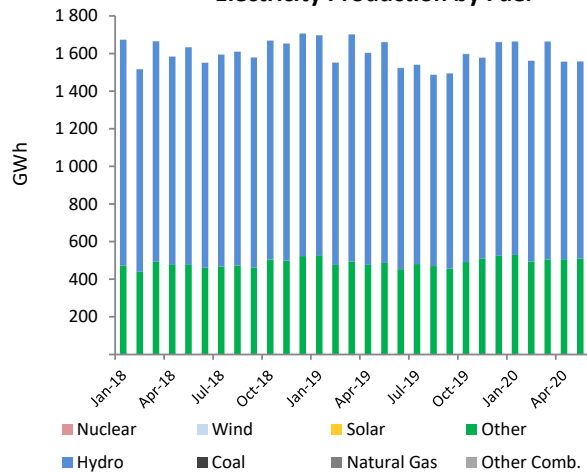
² month-to-month change

³ year-to-date compared to same period last year

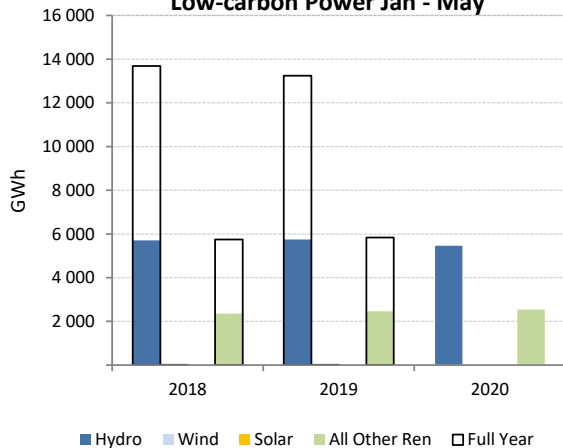
Electricity Production



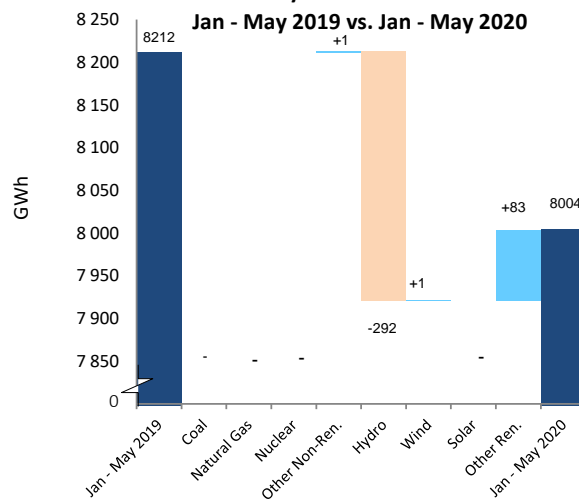
Electricity Production by Fuel



Low-carbon Power Jan - May



**Electricity Production Variation
Jan - May 2019 vs. Jan - May 2020**



IRELAND

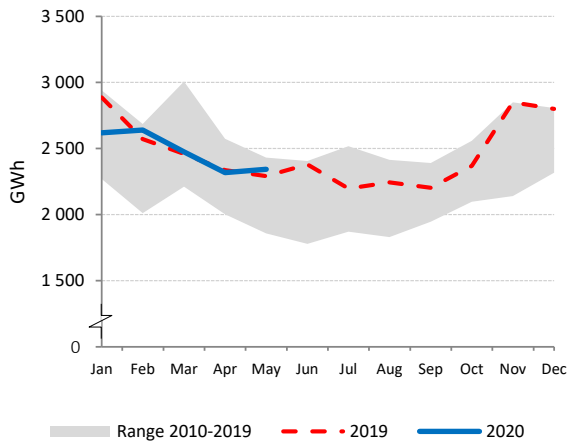
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 1 614 | -7.3% | -7.0% | 68.9% | 7 253 | 7 990 | -9.2% | 19 050 | 64.4% |
| Coal | 40 | 533.3% | -86.6% | 1.7% | 473 | 1 182 | -60.0% | 2 350 | 7.9% |
| Oil | 23 | -35.1% | 62.3% | 1.0% | 92 | 134 | -31.0% | 270 | 0.9% |
| Natural Gas | 1 449 | -9.7% | 10.7% | 61.8% | 6 116 | 6 232 | -1.9% | 15 382 | 52.0% |
| Combustible Renewables | 93 | 26.8% | -6.7% | 4.0% | 488 | 325 | 50.3% | 786 | 2.7% |
| Other Combustibles | 9 | -59.8% | -23.6% | 0.4% | 84 | 119 | -29.1% | 262 | 0.9% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 40 | 24.4% | -34.8% | 1.7% | 516 | 438 | 17.7% | 1 120 | 3.8% |
| Wind | 686 | 33.0% | 32.5% | 29.3% | 4 618 | 4 109 | 12.4% | 9 400 | 31.8% |
| Solar | 3 | - | 29.3% | 0.1% | 9 | 9 | - | 21 | 0.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 822 | 31.6% | 20.7% | 35.1% | 5 630 | 4 881 | 15.3% | 11 328 | 38.3% |
| NON-RENEWABLES | 1 521 | -8.8% | -7.1% | 64.9% | 6 765 | 7 666 | -11.7% | 18 264 | 61.7% |
| TOTAL NET PRODUCTION | 2 343 | 2.2% | 1.1% | | 12 396 | 12 547 | -1.2% | 29 591 | |
| + Imports | 117 | -13.6% | -48.0% | | 886 | 951 | -6.8% | 2 180 | |
| - Exports | 174 | 58.3% | 119.8% | | 764 | 643 | 18.9% | 1 535 | |
| = ELECTRICITY SUPPLIED | 2 286 | -1.4% | -7.2% | | 12 518 | 12 855 | -2.6% | 30 236 | |
| - Used for pumped storage | 47 | 123.5% | 0.3% | | 237 | 193 | 22.9% | 478 | |
| - T&D Losses | 173 | 1.4% | -3.3% | | 933 | 948 | -1.6% | 2 232 | |
| = ELECTRICITY CONSUMED | 2 066 | -2.8% | -7.7% | | 11 348 | 11 714 | -3.1% | 27 525 | |

¹ current month to month of last year change

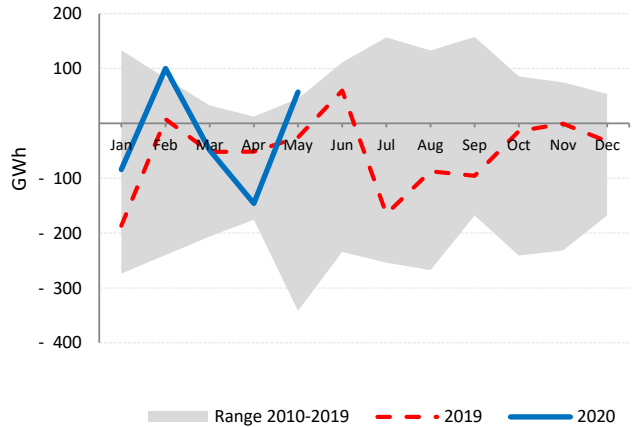
² month-to-month change

³ year-to-date compared to same period last year

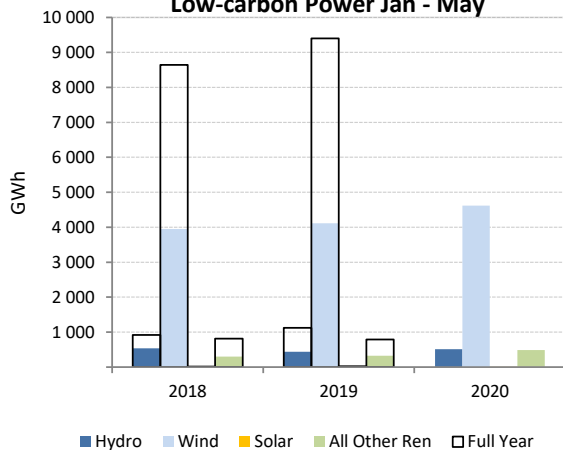
Electricity Production



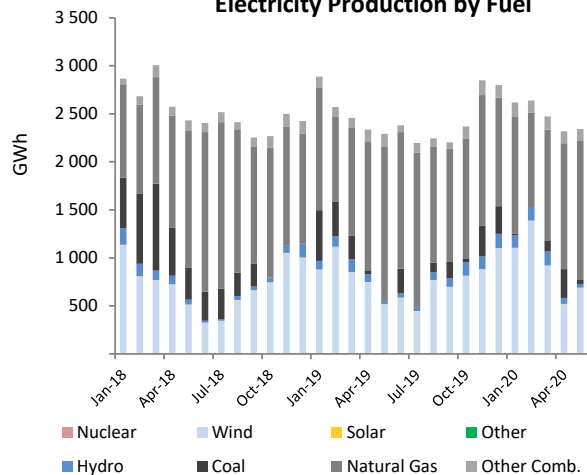
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



ITALY

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 11 206 | -14.4% | 0.5% | 52.2% | 66 944 | 76 501 | -12.5% | 185 146 | 65.7% |
| Coal ⁵ | 1 037 | -14.4% | 0.5% | 4.8% | 6 195 | 7 079 | -12.5% | 17 134 | 6.1% |
| Oil ⁵ | 628 | -14.4% | 0.5% | 2.9% | 3 753 | 4 289 | -12.5% | 10 381 | 3.7% |
| Natural Gas ⁵ | 8 292 | -14.4% | 0.5% | 38.6% | 49 532 | 56 603 | -12.5% | 136 990 | 48.6% |
| Combustible Renewables ⁵ | 1 106 | -14.4% | 0.5% | 5.1% | 6 605 | 7 548 | -12.5% | 18 269 | 6.5% |
| Other Combustibles ⁵ | 144 | -14.4% | 0.5% | 0.7% | 858 | 980 | -12.5% | 2 373 | 0.8% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 5 216 | 12.2% | 44.6% | 24.3% | 17 706 | 15 478 | 14.4% | 46 955 | 16.7% |
| Wind | 1 755 | 6.3% | 39.0% | 8.2% | 8 950 | 10 230 | -12.5% | 20 054 | 7.1% |
| Solar | 2 772 | 25.1% | 3.5% | 12.9% | 10 358 | 9 224 | 12.3% | 23 313 | 8.3% |
| Geothermal | 477 | -2.2% | 0.4% | 2.2% | 2 391 | 2 366 | 1.1% | 5 658 | 2.0% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 51 | - | - | 0.2% | 255 | 255 | - | 612 | 0.2% |
| RENEWABLES | 11 326 | 10.0% | 24.1% | 52.7% | 46 010 | 44 847 | 2.6% | 114 249 | 40.6% |
| NON-RENEWABLES | 10 152 | -14.4% | 0.5% | 47.3% | 60 594 | 69 208 | -12.4% | 167 490 | 59.4% |
| TOTAL NET PRODUCTION | 21 477 | -3.0% | 11.7% | | 106 603 | 114 054 | -6.5% | 281 738 | |
| + Imports | 2 321 | -34.8% | 29.4% | | 17 227 | 18 305 | -5.9% | 43 980 | |
| - Exports | 1 053 | 164.2% | 7.6% | | 3 825 | 2 180 | 75.5% | 5 817 | |
| = ELECTRICITY SUPPLIED | 22 745 | -10.1% | 13.5% | | 120 004 | 130 179 | -7.8% | 319 901 | |
| - Used for pumped storage | 255 | 28.8% | -15.3% | | 1 217 | 1 082 | 12.5% | 2 412 | |
| - T&D Losses ⁴ | 1 357 | -7.4% | 13.2% | | 7 063 | 7 549 | -6.4% | 18 578 | |
| = ELECTRICITY CONSUMED | 21 132 | -10.6% | 14.0% | | 111 725 | 121 548 | -8.1% | 298 911 | |

¹ current month to month of last year change

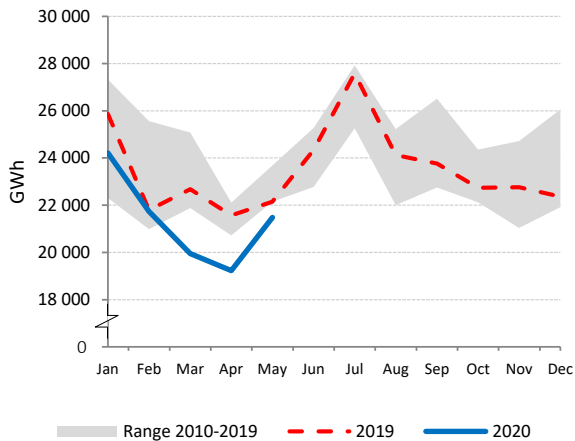
⁴ estimated

² month-to-month change

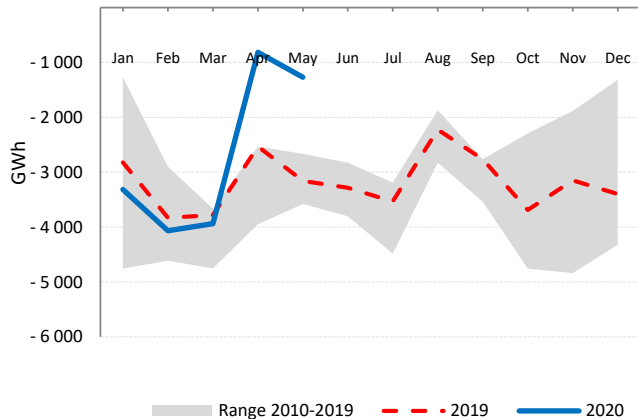
⁵ estimated from annual data

³ year-to-date compared to same period last year

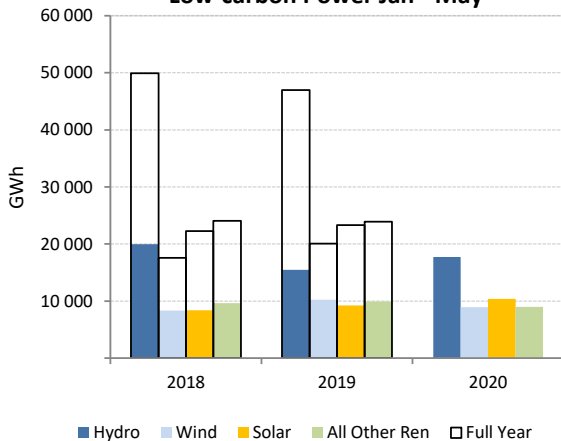
Electricity Production



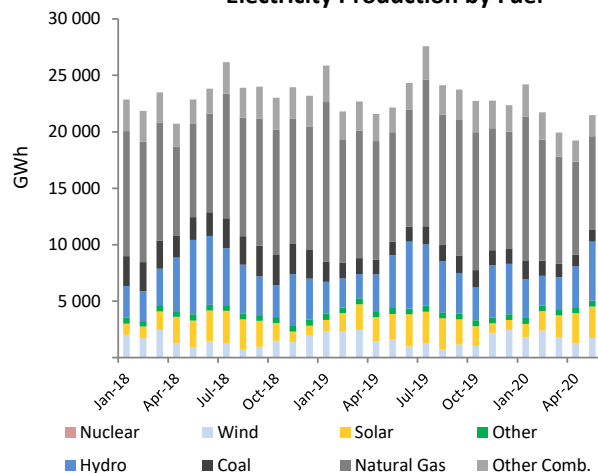
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



JAPAN

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 46 014 | -5.7% | -5.0% | 65.3% | 288 347 | 311 665 | -7.5% | 736 442 | 74.6% |
| Coal | 21 329 | 3.0% | -1.4% | 30.3% | 128 633 | 128 964 | 0.0% | 307 690 | 31.2% |
| Oil | 2 043 | -20.3% | -5.0% | 2.9% | 14 414 | 19 627 | -26.6% | 49 739 | 5.0% |
| Natural Gas | 19 241 | -14.2% | -6.0% | 27.3% | 126 994 | 146 594 | -13.4% | 339 604 | 34.4% |
| Combustible Renewables | 1 956 | 54.2% | 2.9% | 2.8% | 9 719 | 8 291 | 17.2% | 18 703 | 1.9% |
| Other Combustibles ⁴ | 1 444 | 0.4% | 1.1% | 2.0% | 8 585 | 8 189 | 4.8% | 20 706 | 2.1% |
| Nuclear | 4 169 | -20.8% | -8.2% | 5.9% | 23 564 | 30 947 | -23.9% | 64 805 | 6.6% |
| Hydro | 9 361 | 11.5% | 9.2% | 13.3% | 37 676 | 30 908 | 21.9% | 83 849 | 8.5% |
| Wind | 608 | 23.2% | -29.5% | 0.9% | 4 025 | 3 595 | 12.0% | 7 481 | 0.8% |
| Solar | 9 303 | 9.7% | 12.2% | 13.2% | 33 365 | 28 939 | 15.3% | 71 534 | 7.2% |
| Geothermal | 215 | -1.0% | -0.1% | 0.3% | 1 101 | 993 | 10.8% | 2 445 | 0.2% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 809 | -40.9% | 1.7% | 1.1% | 6 584 | 8 882 | -25.9% | 20 245 | 2.1% |
| RENEWABLES | 21 444 | 13.7% | 8.0% | 30.4% | 85 887 | 72 727 | 18.1% | 184 012 | 18.6% |
| NON-RENEWABLES | 49 035 | -9.5% | -5.5% | 69.6% | 308 776 | 343 203 | -10.0% | 802 788 | 81.4% |
| TOTAL NET PRODUCTION | 70 479 | -3.5% | -1.8% | | 394 662 | 415 929 | -5.1% | 986 800 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 70 479 | -3.5% | -1.8% | | 394 662 | 415 929 | -5.1% | 986 800 | |
| - Used for pumped storage ⁴ | 1 088 | 5.4% | 5.4% | | 4 195 | 4 008 | 4.7% | 10 554 | |
| - T&D Losses ⁴ | 2 987 | -3.5% | -1.8% | | 17 092 | 18 016 | -5.1% | 42 209 | |
| = ELECTRICITY CONSUMED | 66 405 | -3.6% | -1.9% | | 373 376 | 393 906 | -5.2% | 934 037 | |

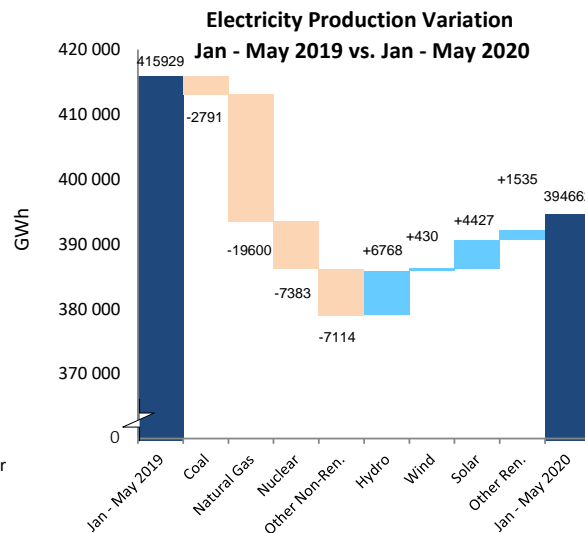
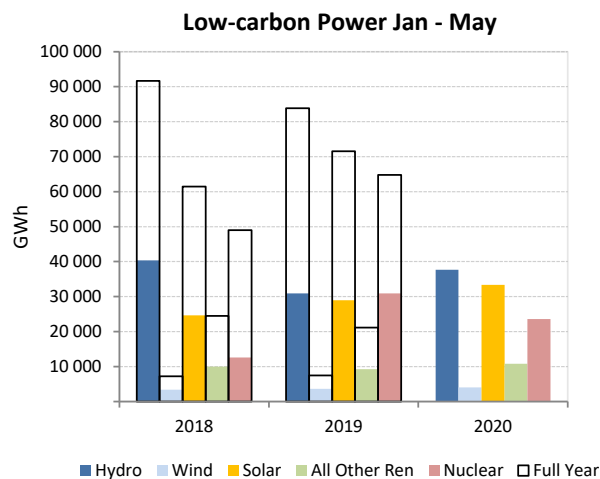
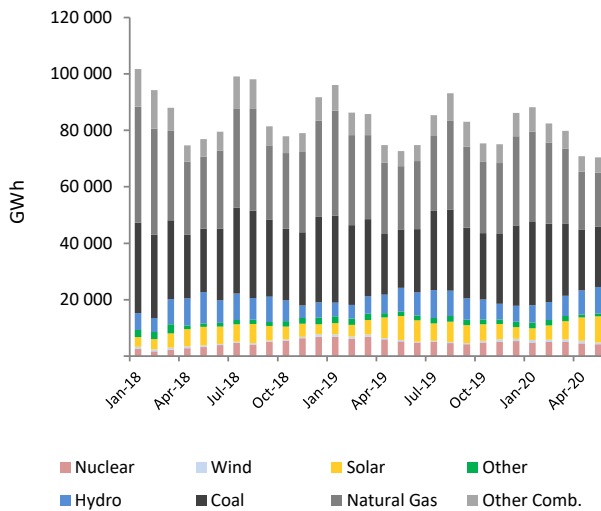
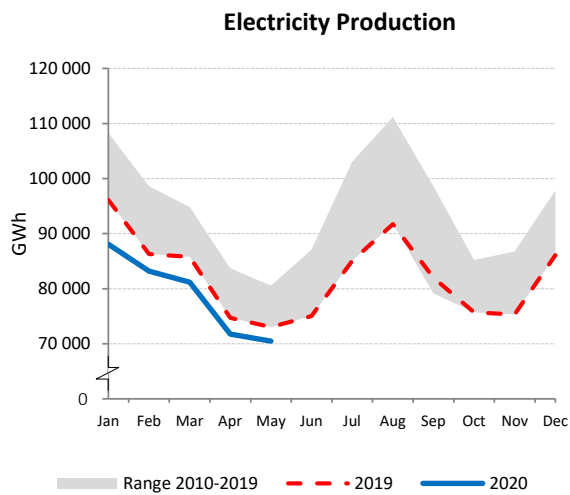
¹ current month to month of last year change

⁴ estimated from annual data

² month-to-month change

May 2020 is estimated by the IEA Secretariat using usual monthly patterns

³ year-to-date compared to same period last year

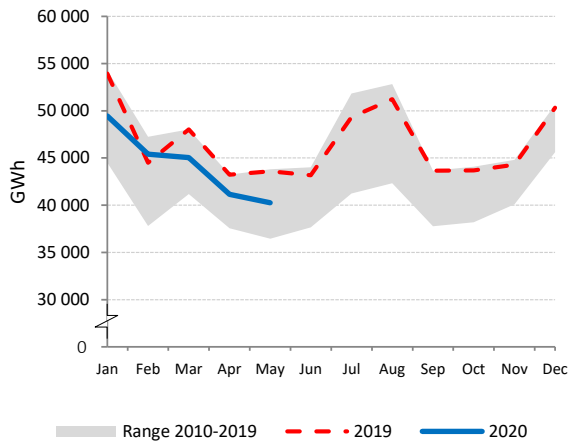


KOREA

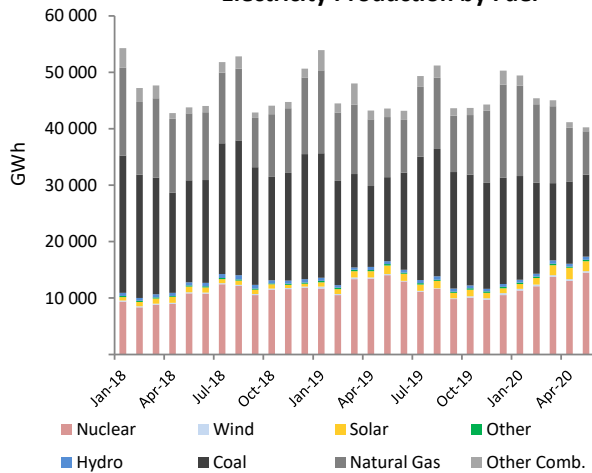
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|--|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 22 925 | -15.3% | -8.6% | 56.9% | 143 610 | 159 926 | -10.2% | 395 505 | 70.8% |
| Coal | 14 563 | -2.1% | -0.2% | 36.2% | 77 314 | 86 265 | -10.4% | 225 750 | 40.4% |
| Oil | 330 | -54.3% | -23.8% | 0.8% | 3 188 | 7 079 | -55.0% | 14 101 | 2.5% |
| Natural Gas | 7 641 | -28.3% | -19.7% | 19.0% | 60 671 | 61 590 | -1.5% | 145 812 | 26.1% |
| Combustible Renewables | 340 | -54.9% | -27.7% | 0.8% | 2 112 | 4 638 | -54.5% | 8 968 | 1.6% |
| Other Combustibles | 52 | -13.3% | -8.6% | 0.1% | 325 | 353 | -8.1% | 874 | 0.2% |
| Nuclear | 14 523 | 3.3% | 11.5% | 36.1% | 64 724 | 63 054 | 2.6% | 138 884 | 24.8% |
| Hydro | 553 | 4.9% | 9.8% | 1.4% | 2 743 | 2 506 | 9.5% | 6 139 | 1.1% |
| Wind | 217 | -3.1% | -30.2% | 0.5% | 1 435 | 1 286 | 11.5% | 2 665 | 0.5% |
| Solar | 1 792 | 20.4% | -10.7% | 4.4% | 7 612 | 5 345 | 42.4% | 12 974 | 2.3% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | 54 | 39.6% | 12.9% | 0.1% | 228 | 200 | 13.9% | 474 | 0.1% |
| Non-Specified | 196 | - | - | 0.5% | 981 | 981 | - | 2 355 | 0.4% |
| RENEWABLES | 2 955 | -2.5% | -11.4% | 7.3% | 14 130 | 13 975 | 1.1% | 31 220 | 5.6% |
| NON-RENEWABLES | 37 305 | -8.0% | -1.4% | 92.7% | 207 204 | 219 324 | -5.5% | 527 776 | 94.4% |
| TOTAL NET PRODUCTION | 40 259 | -7.6% | -2.2% | | 221 334 | 233 299 | -5.1% | 558 996 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 40 259 | -7.6% | -2.2% | | 221 334 | 233 299 | -5.1% | 558 996 | |
| - Used for pumped storage ⁴ | 378 | 11.2% | -3.6% | | 2 003 | 1 947 | 2.9% | 4 588 | |
| - T&D Losses ⁴ | 1 348 | -7.6% | -2.2% | | 7 408 | 7 809 | -5.1% | 18 711 | |
| = ELECTRICITY CONSUMED | 38 534 | -7.8% | -2.2% | | 211 923 | 223 544 | -5.2% | 535 698 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year

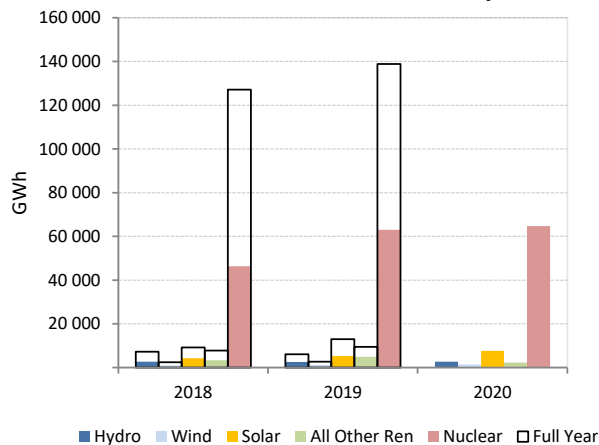
Electricity Production



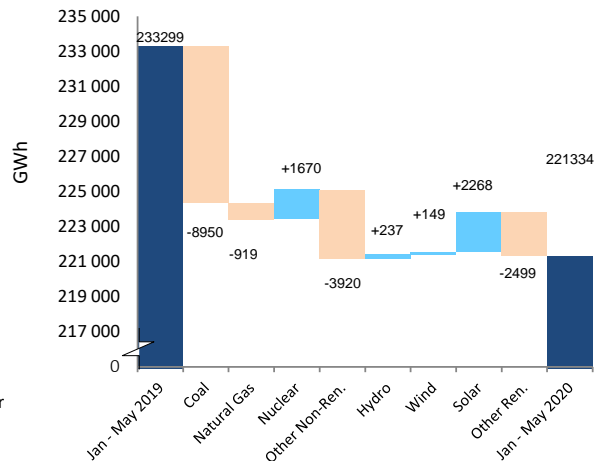
Electricity Production by Fuel



Low-carbon Power Jan - May



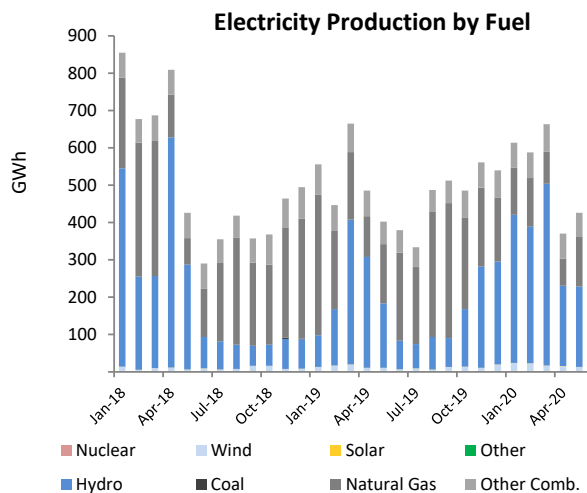
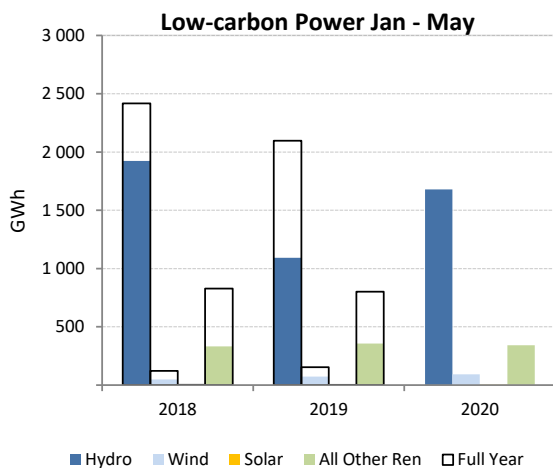
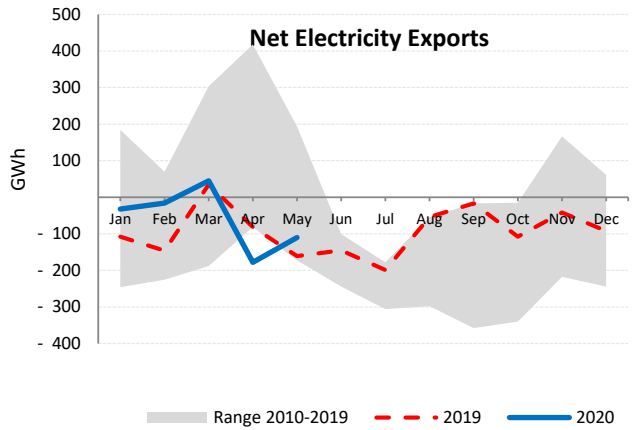
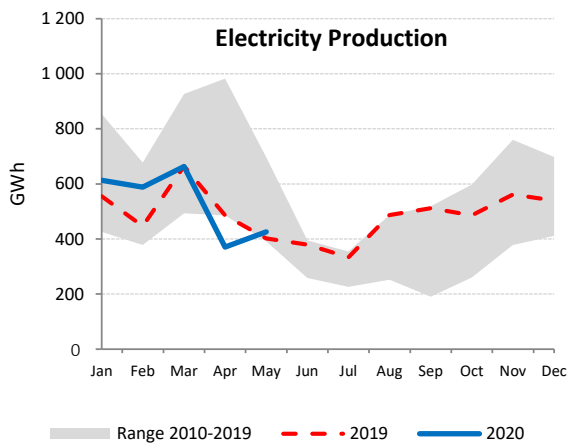
Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



LATVIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|--------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 198 | -9.7% | 41.0% | 46.4% | 891 | 1 390 | -35.9% | 3 601 | 61.5% |
| Coal | 0 | - | - | - | 0 | 0 | - | 0 | 0.0% |
| Oil | - | - | - | - | - | - | - | - | - |
| Natural Gas | 132 | -16.5% | 81.5% | 31.1% | 548 | 1 034 | -47.0% | 2 801 | 47.8% |
| Combustible Renewables | 65 | 8.1% | -2.9% | 15.3% | 343 | 356 | -3.8% | 800 | 13.7% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 215 | 25.0% | - | 50.5% | 1 678 | 1 092 | 53.7% | 2 097 | 35.8% |
| Wind | 13 | 18.2% | -13.3% | 3.1% | 92 | 72 | 27.8% | 153 | 2.6% |
| Solar | 0 | - | 16.7% | 0.1% | 1 | 1 | - | 3 | 0.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 294 | 20.5% | -1.3% | 68.9% | 2 114 | 1 522 | 39.0% | 3 053 | 52.2% |
| NON-RENEWABLES | 132 | -16.5% | 81.5% | 31.1% | 548 | 1 034 | -47.0% | 2 801 | 47.8% |
| TOTAL NET PRODUCTION | 426 | 5.9% | 15.0% | | 2 662 | 2 555 | 4.2% | 5 854 | |
| + Imports | 335 | -23.5% | 0.9% | | 1 582 | 2 008 | -21.3% | 4 611 | |
| - Exports | 225 | -18.8% | 46.1% | | 1 291 | 1 547 | -16.6% | 3 493 | |
| = ELECTRICITY SUPPLIED | 536 | -4.8% | -2.3% | | 2 953 | 3 016 | -2.1% | 6 972 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses ⁴ | 35 | -9.4% | 8.3% | | 196 | 211 | -7.0% | 484 | |
| = ELECTRICITY CONSUMED | 501 | -4.5% | -2.9% | | 2 757 | 2 805 | -1.7% | 6 488 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year



LITHUANIA

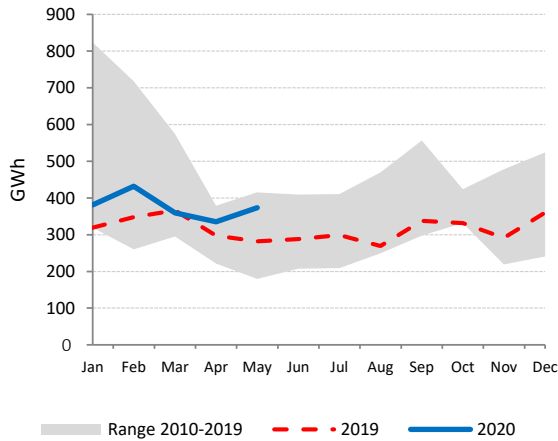
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 167 | 87.0% | 62.2% | 44.7% | 601 | 461 | 30.3% | 1 060 | 28.0% |
| Coal | - | - | - | - | - | - | - | - | - |
| Oil | 13 | 409.7% | 74.7% | 3.5% | 45 | 17 | 163.8% | 59 | 1.6% |
| Natural Gas | 105 | 98.1% | 161.3% | 28.2% | 280 | 218 | 28.8% | 459 | 12.1% |
| Combustible Renewables | 42 | 58.6% | -15.0% | 11.2% | 242 | 193 | 25.2% | 467 | 12.3% |
| Other Combustibles | 7 | -5.8% | 11.2% | 1.8% | 34 | 34 | 1.9% | 75 | 2.0% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 73 | 10.4% | -6.6% | 19.6% | 460 | 343 | 34.3% | 932 | 24.6% |
| Wind | 120 | 17.5% | -15.7% | 32.2% | 783 | 688 | 13.8% | 1 491 | 39.4% |
| Solar | 13 | 13.5% | 17.3% | 3.5% | 37 | 36 | 2.9% | 90 | 2.4% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | 84 | - | 216 | 5.7% |
| RENEWABLES | 248 | 20.3% | -11.7% | 66.5% | 1 523 | 1 260 | 20.8% | 2 980 | 78.6% |
| NON-RENEWABLES | 125 | 65.4% | 132.3% | 33.5% | 359 | 352 | 1.9% | 809 | 21.4% |
| TOTAL NET PRODUCTION | 374 | 32.4% | 11.4% | | 1 882 | 1 612 | 16.7% | 3 789 | |
| + Imports | 962 | -7.7% | 1.2% | | 5 276 | 5 373 | -1.8% | 13 268 | |
| - Exports | 349 | 24.8% | 3.7% | | 1 814 | 1 579 | 14.9% | 3 924 | |
| = ELECTRICITY SUPPLIED | 986 | -5.6% | 4.0% | | 5 344 | 5 407 | -1.2% | 13 133 | |
| - Used for pumped storage | 75 | 32.4% | 8.3% | | 404 | 186 | 117.4% | 810 | |
| - T&D Losses | 80 | 8.7% | -5.9% | | 562 | 482 | 16.7% | 1 068 | |
| = ELECTRICITY CONSUMED | 831 | -9.1% | 4.6% | | 4 378 | 4 739 | -7.6% | 11 254 | |

¹ current month to month of last year change

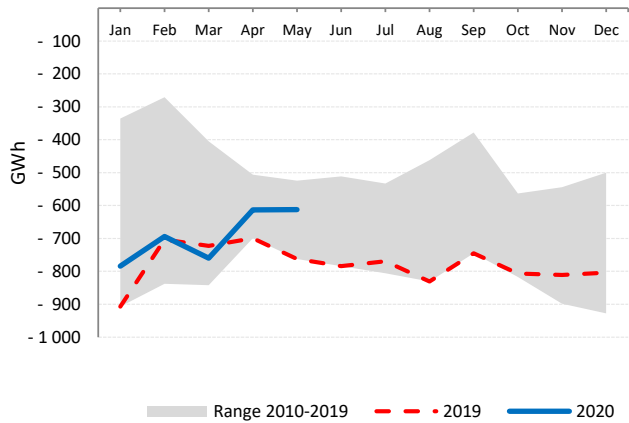
² month-to-month change

³ year-to-date compared to same period last year

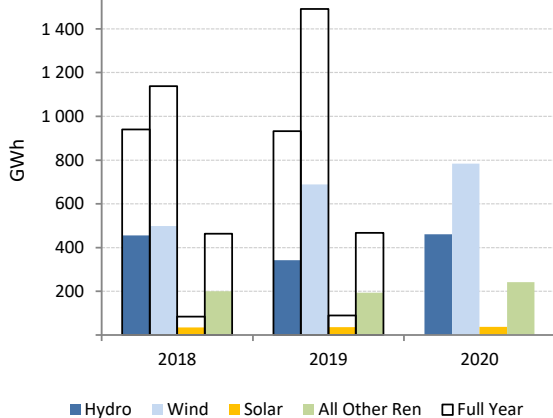
Electricity Production



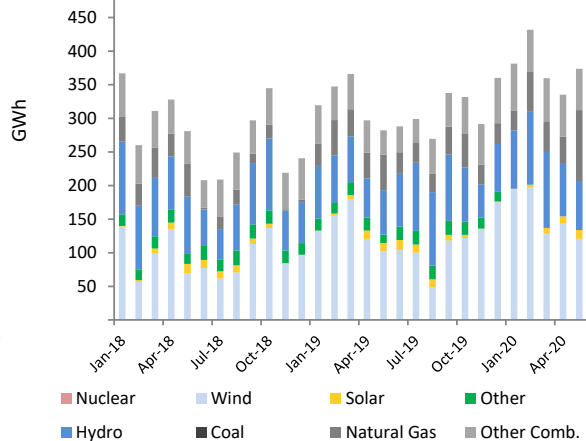
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel

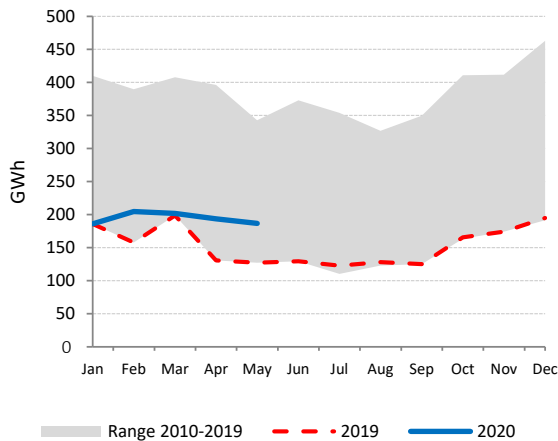


LUXEMBOURG

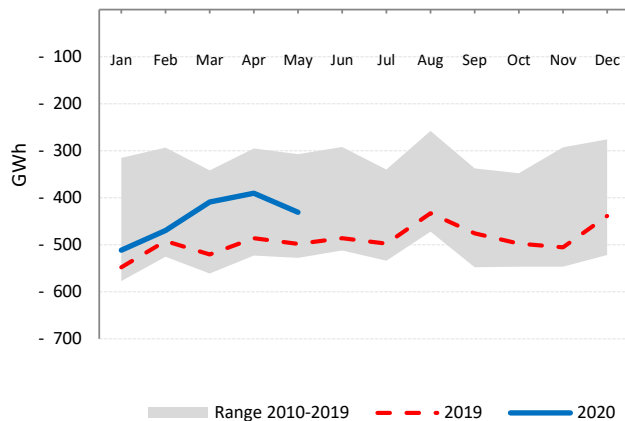
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|--------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 46 | 26.6% | 1.0% | 24.5% | 259 | 211 | 22.8% | 510 | 27.7% |
| Coal | - | - | - | - | - | - | - | - | - |
| Oil | - | - | - | - | - | - | - | - | - |
| Natural Gas | 9 | -33.0% | -19.0% | 4.6% | 78 | 94 | -16.6% | 170 | 9.2% |
| Combustible Renewables | 33 | 100.5% | 8.0% | 17.5% | 154 | 87 | 76.3% | 266 | 14.4% |
| Other Combustibles | 5 | -36.1% | 1.0% | 2.4% | 27 | 30 | -9.9% | 75 | 4.1% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 95 | 61.6% | -8.1% | 51.0% | 483 | 418 | 15.6% | 942 | 51.2% |
| Wind | 18 | 3.2% | -20.0% | 9.6% | 161 | 128 | 25.6% | 276 | 15.0% |
| Solar | 28 | 85.9% | 25.0% | 14.9% | 70 | 44 | 60.0% | 112 | 6.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 174 | 61.4% | -2.8% | 93.0% | 868 | 677 | 28.2% | 1 597 | 86.7% |
| NON-RENEWABLES | 13 | -34.1% | -13.0% | 7.0% | 105 | 123 | -15.0% | 244 | 13.3% |
| TOTAL NET PRODUCTION | 187 | 46.6% | -3.5% | | 973 | 801 | 21.5% | 1 841 | |
| + Imports | 518 | -7.2% | 6.7% | | 2 643 | 3 007 | -12.1% | 6 818 | |
| - Exports | 88 | 45.4% | -7.8% | | 431 | 462 | -6.7% | 939 | |
| = ELECTRICITY SUPPLIED | 617 | -1.3% | 5.7% | | 3 185 | 3 346 | -4.8% | 7 720 | |
| - Used for pumped storage | 126 | 63.6% | -5.4% | | 612 | 525 | 16.6% | 1 203 | |
| - T&D Losses | 10 | -11.0% | 8.8% | | 52 | 57 | -8.9% | 132 | |
| = ELECTRICITY CONSUMED | 481 | -10.4% | 9.0% | | 2 521 | 2 764 | -8.8% | 6 385 | |

¹ current month to month of last year change
² month-to-month change
³ year-to-date compared to same period last year

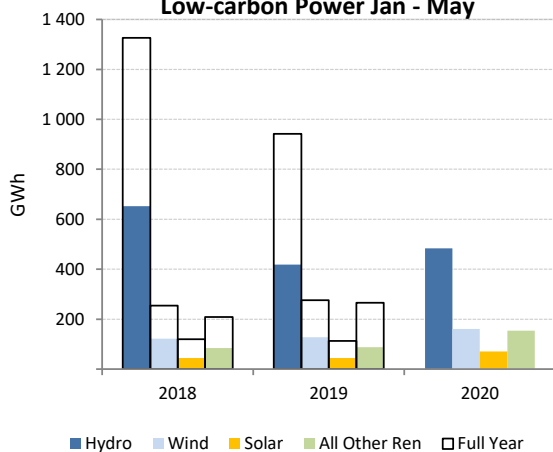
Electricity Production



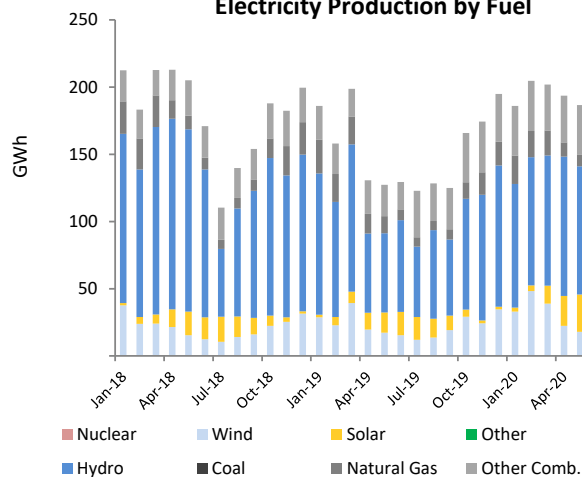
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



MEXICO

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 20 307 | -8.4% | 9.4% | 75.3% | 98 858 | 99 071 | -0.2% | 252 920 | 80.0% |
| Coal | 1 417 | -36.3% | 7.8% | 5.3% | 7 808 | 11 925 | -34.5% | 28 131 | 8.9% |
| Oil ⁴ | 2 731 | -5.3% | 9.5% | 10.1% | 13 165 | 12 601 | 4.5% | 32 503 | 10.3% |
| Natural Gas ⁴ | 15 920 | -5.3% | 9.5% | 59.0% | 76 733 | 73 442 | 4.5% | 189 440 | 59.9% |
| Combustible Renewables ⁴ | 199 | -5.3% | 9.5% | 0.7% | 960 | 919 | 4.5% | 2 371 | 0.7% |
| Other Combustibles ⁴ | 40 | -5.3% | 9.5% | 0.1% | 192 | 184 | 4.5% | 474 | 0.2% |
| Nuclear | 1 028 | 76.3% | -8.8% | 3.8% | 5 535 | 3 802 | 45.6% | 11 111 | 3.5% |
| Hydro | 2 858 | 0.2% | 20.8% | 10.6% | 9 220 | 10 299 | -10.5% | 23 713 | 7.5% |
| Wind | 1 457 | 17.9% | 20.8% | 5.4% | 8 151 | 7 159 | 13.9% | 16 763 | 5.3% |
| Solar | 905 | 48.6% | -8.3% | 3.4% | 4 046 | 2 240 | 80.6% | 6 544 | 2.1% |
| Geothermal | 408 | -7.1% | 0.4% | 1.5% | 2 052 | 2 180 | -5.9% | 5 060 | 1.6% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 5 828 | 9.0% | 13.2% | 21.6% | 24 428 | 22 797 | 7.2% | 54 450 | 17.2% |
| NON-RENEWABLES | 21 136 | -6.2% | 8.4% | 78.4% | 103 433 | 101 955 | 1.4% | 261 660 | 82.8% |
| TOTAL NET PRODUCTION | 26 964 | -3.3% | 9.4% | | 127 861 | 124 752 | 2.5% | 316 111 | |
| + Imports | 54 | -52.6% | 40.0% | | 232 | 703 | -67.0% | 1 590 | |
| - Exports | 87 | 105.2% | 24.2% | | 328 | 478 | -31.4% | 963 | |
| = ELECTRICITY SUPPLIED | 26 931 | -3.7% | 9.4% | | 127 766 | 124 977 | 2.2% | 316 738 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses ⁴ | 3 746 | -3.5% | 9.4% | | 17 758 | 17 392 | 2.1% | 44 044 | |
| = ELECTRICITY CONSUMED | 23 185 | -3.7% | 9.4% | | 110 008 | 107 585 | 2.3% | 272 694 | |

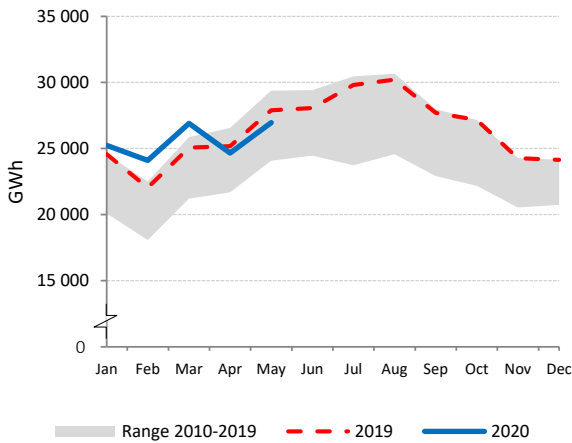
¹ current month to month of last year change

⁴ estimated based on annual data

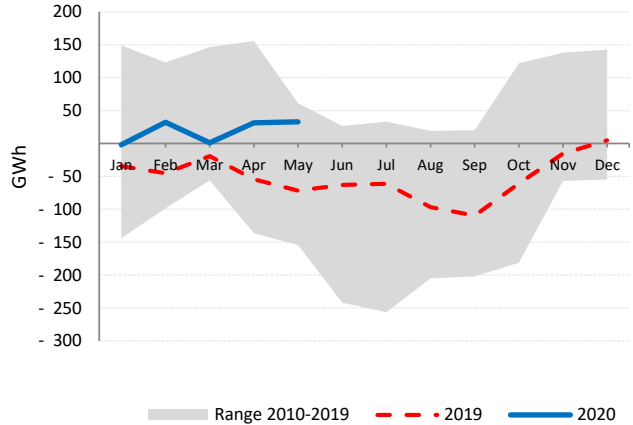
² month-to-month change

³ year-to-date compared to same period last year

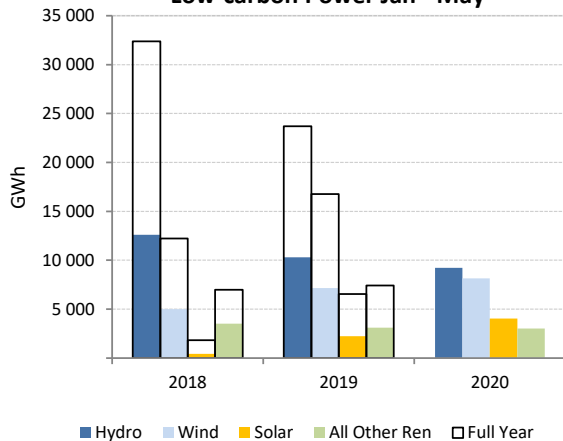
Electricity Production



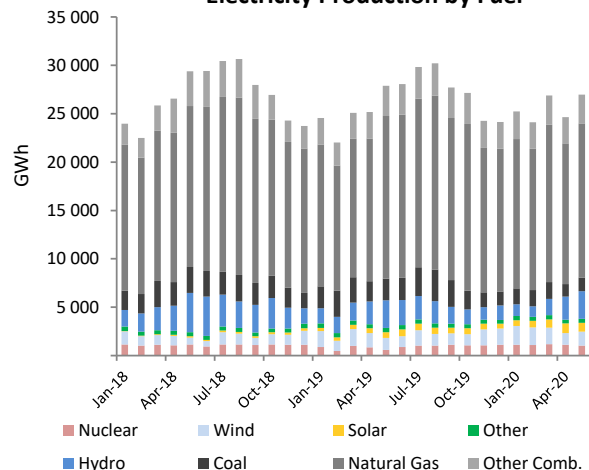
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel

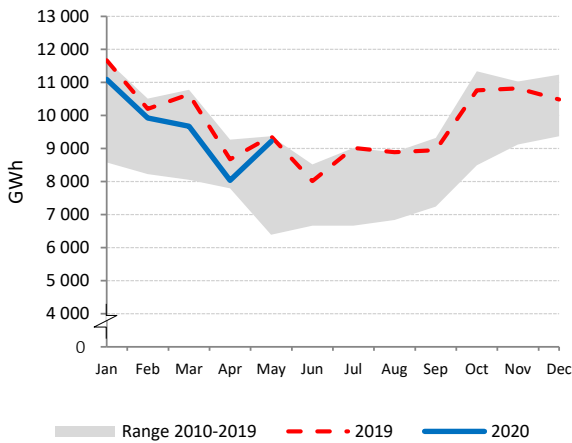


NETHERLANDS

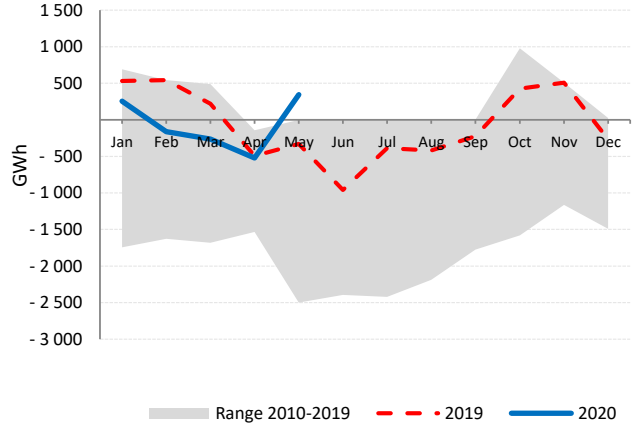
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 6 793 | -10.5% | 16.5% | 73.7% | 36 448 | 41 573 | -12.3% | 96 489 | 82.1% |
| Coal | 499 | -63.0% | 4.8% | 5.4% | 3 693 | 10 023 | -63.2% | 19 274 | 16.4% |
| Oil | 68 | -47.9% | -37.5% | 0.7% | 588 | 589 | -0.2% | 1 353 | 1.2% |
| Natural Gas | 5 329 | -4.2% | 18.4% | 57.8% | 28 210 | 28 059 | 0.5% | 68 634 | 58.4% |
| Combustible Renewables | 702 | 78.3% | 21.9% | 7.6% | 3 147 | 2 054 | 53.2% | 5 413 | 4.6% |
| Other Combustibles | 196 | 26.1% | 15.2% | 2.1% | 810 | 848 | -4.5% | 1 815 | 1.5% |
| Nuclear | 315 | -5.6% | -10.3% | 3.4% | 1 730 | 1 665 | 3.9% | 3 749 | 3.2% |
| Hydro | 4 | -56.2% | -44.1% | 0.0% | 29 | 44 | -33.7% | 74 | 0.1% |
| Wind | 795 | 14.8% | -0.4% | 8.6% | 6 323 | 5 172 | 22.2% | 11 508 | 9.8% |
| Solar | 1 263 | 79.9% | 25.9% | 13.7% | 3 190 | 1 882 | 69.5% | 5 159 | 4.4% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 46 | - | - | 0.5% | 228 | 228 | - | 547 | 0.5% |
| RENEWABLES | 2 763 | 53.8% | 15.9% | 30.0% | 12 689 | 9 152 | 38.6% | 22 155 | 18.9% |
| NON-RENEWABLES | 6 452 | -14.8% | 14.1% | 70.0% | 35 259 | 41 412 | -14.9% | 95 371 | 81.1% |
| TOTAL NET PRODUCTION | 9 215 | -1.7% | 14.7% | | 47 948 | 50 564 | -5.2% | 117 526 | |
| + Imports | 1 899 | -10.9% | -6.4% | | 9 373 | 8 439 | 11.1% | 20 403 | |
| - Exports | 2 244 | 24.6% | 48.8% | | 9 025 | 8 906 | 1.3% | 19 548 | |
| = ELECTRICITY SUPPLIED | 8 871 | -8.6% | 3.6% | | 48 296 | 50 098 | -3.6% | 118 381 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses ⁴ | 450 | -1.5% | 0.3% | | 2 393 | 2 429 | -1.5% | 5 731 | |
| = ELECTRICITY CONSUMED | 8 421 | -8.9% | 3.8% | | 45 903 | 47 669 | -3.7% | 112 650 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year

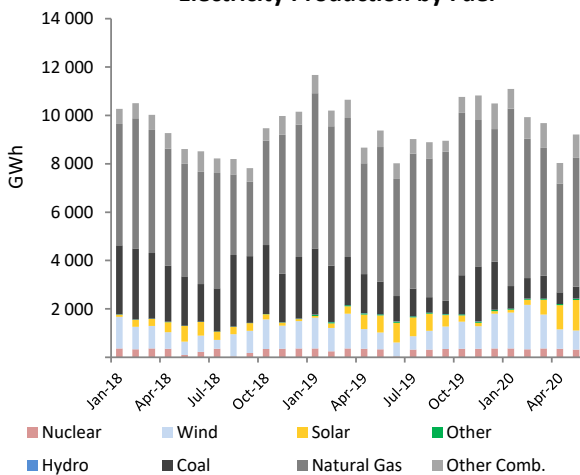
Electricity Production



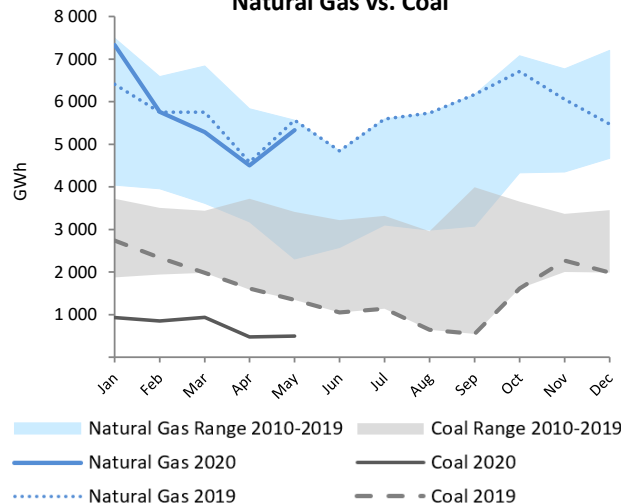
Net Electricity Exports



Electricity Production by Fuel



Natural Gas vs. Coal



NEW ZEALAND

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 638 | -2.5% | 7.7% | 17.6% | 3 235 | 3 500 | -7.6% | 8 175 | 18.8% |
| Coal | 152 | -30.3% | 18.0% | 4.2% | 814 | 1 055 | -22.8% | 2 159 | 5.0% |
| Oil | 0 | -6.4% | - | 0.0% | 1 | 1 | -63.4% | 4 | 0.0% |
| Natural Gas | 433 | 13.2% | 5.0% | 11.9% | 2 166 | 2 188 | -1.0% | 5 445 | 12.5% |
| Combustible Renewables | 52 | -1.0% | 2.5% | 1.4% | 254 | 257 | -1.2% | 567 | 1.3% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 2 119 | -1.8% | 6.4% | 58.3% | 9 967 | 9 861 | 1.1% | 25 330 | 58.3% |
| Wind | 191 | -3.6% | 1.3% | 5.3% | 909 | 835 | 8.8% | 2 233 | 5.1% |
| Solar | 13 | 25.9% | 7.0% | 0.4% | 60 | 48 | 25.9% | 125 | 0.3% |
| Geothermal | 669 | 1.4% | 4.2% | 18.4% | 3 201 | 3 119 | 2.6% | 7 509 | 17.3% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 4 | - | - | 0.1% | 21 | 21 | - | 51 | 0.1% |
| RENEWABLES | 3 044 | -1.1% | 5.5% | 83.8% | 14 391 | 14 120 | 1.9% | 35 763 | 82.4% |
| NON-RENEWABLES | 590 | -2.6% | 8.1% | 16.2% | 3 002 | 3 265 | -8.0% | 7 659 | 17.6% |
| TOTAL NET PRODUCTION | 3 634 | -1.4% | 5.9% | | 17 393 | 17 385 | 0.0% | 43 421 | |
| + Imports | - | - | - | | - | - | - | - | |
| - Exports | - | - | - | | - | - | - | - | |
| = ELECTRICITY SUPPLIED | 3 634 | -1.4% | 5.9% | | 17 393 | 17 385 | 0.0% | 43 421 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses | 251 | -5.2% | 5.9% | | 1 431 | 1 246 | 14.9% | 2 995 | |
| = ELECTRICITY CONSUMED | 3 383 | -1.1% | 5.9% | | 15 962 | 16 139 | -1.1% | 40 426 | |

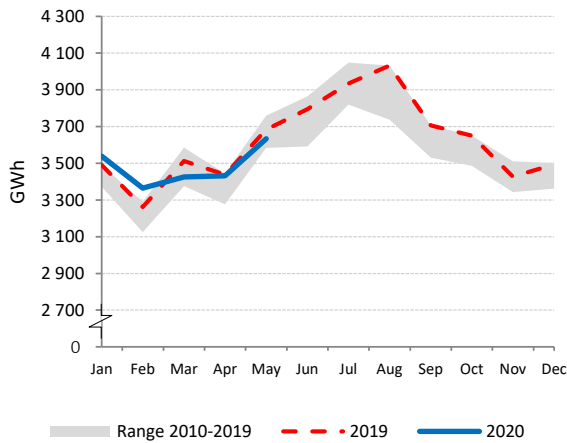
¹ current month to month of last year change

May 2020 is estimated by the IEA Secretariat using usual monthly patterns

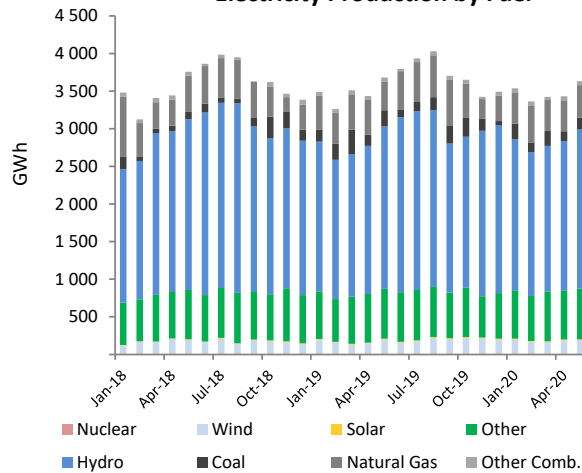
² month-to-month change

³ year-to-date compared to same period last year

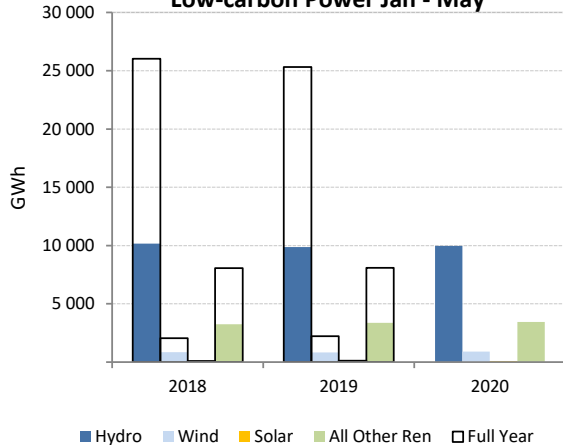
Electricity Production



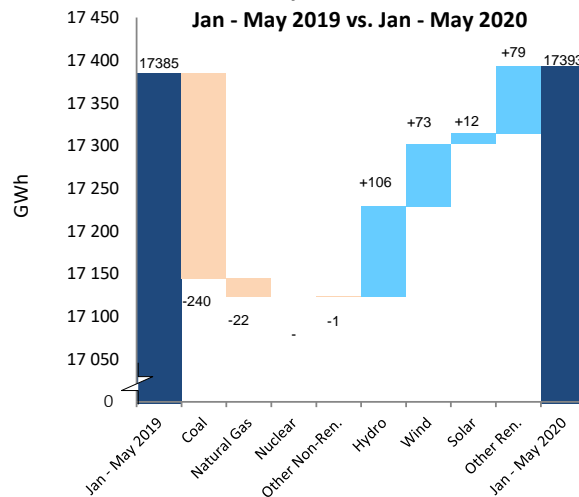
Electricity Production by Fuel



Low-carbon Power Jan - May



Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



NORWAY

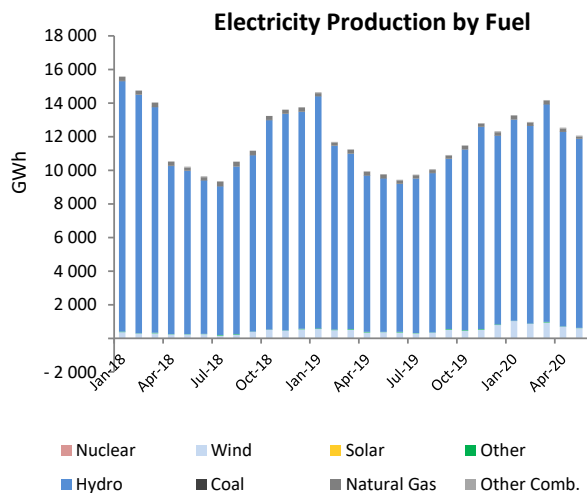
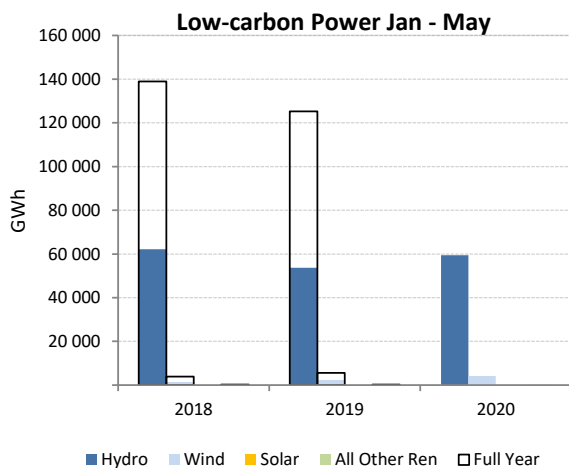
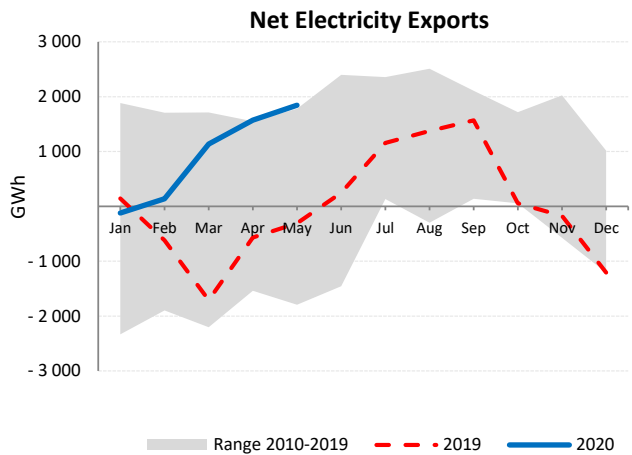
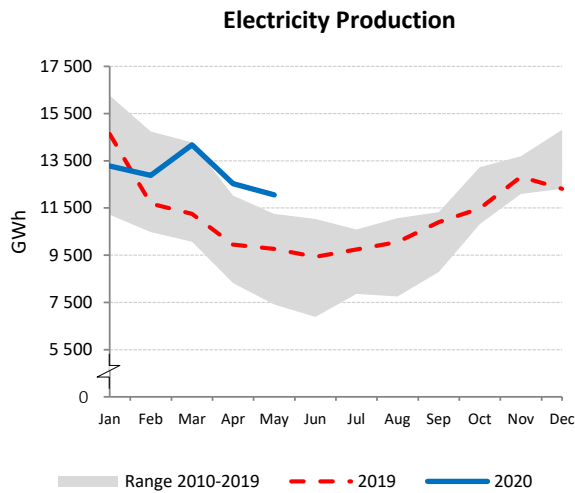
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 195 | -23.2% | -23.4% | 1.6% | 1 207 | 1 250 | -3.5% | 2 943 | 2.2% |
| Coal ⁴ | 11 | -20.7% | -21.3% | 0.1% | 67 | 70 | -4.1% | 162 | 0.1% |
| Oil ⁴ | 1 | -20.7% | -21.3% | 0.0% | 7 | 7 | -4.1% | 17 | 0.0% |
| Natural Gas | 142 | -30.3% | -28.3% | 1.2% | 938 | 982 | -4.5% | 2 317 | 1.7% |
| Combustible Renewables | 25 | 31.8% | 2.7% | 0.2% | 108 | 97 | 10.7% | 241 | 0.2% |
| Other Combustibles | 16 | -1.8% | -6.7% | 0.1% | 87 | 94 | -6.9% | 205 | 0.2% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 11 233 | 23.1% | -2.9% | 93.2% | 59 473 | 53 623 | 10.9% | 125 243 | 93.4% |
| Wind | 600 | 67.6% | -12.5% | 5.0% | 4 106 | 2 284 | 79.8% | 5 535 | 4.1% |
| Solar | - | - | - | - | - | - | - | - | - |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 27 | - | - | 0.2% | 137 | 137 | - | 328 | 0.2% |
| RENEWABLES | 11 858 | 24.8% | -3.4% | 98.4% | 63 687 | 56 004 | 13.7% | 131 020 | 97.7% |
| NON-RENEWABLES | 198 | -24.8% | -23.4% | 1.6% | 1 235 | 1 289 | -4.2% | 3 030 | 2.3% |
| TOTAL NET PRODUCTION | 12 056 | 23.4% | -3.8% | | 64 922 | 57 293 | 13.3% | 134 049 | |
| + Imports | 267 | -74.5% | -33.5% | | 3 283 | 6 670 | -50.8% | 12 353 | |
| - Exports | 2 111 | 185.7% | 6.9% | | 7 857 | 3 607 | 117.8% | 12 309 | |
| = ELECTRICITY SUPPLIED | 10 212 | 1.4% | -6.8% | | 60 349 | 60 357 | 0.0% | 134 093 | |
| - Used for pumped storage | 57 | -62.9% | 246.5% | | 220 | 254 | -13.5% | 1 262 | |
| - T&D Losses | 776 | 23.4% | -3.8% | | 4 179 | 3 690 | 13.3% | 8 630 | |
| = ELECTRICITY CONSUMED | 9 378 | 0.9% | -7.5% | | 55 949 | 56 413 | -0.8% | 124 201 | |

¹ current month to month of last year change

⁴ estimated from annual data

² month-to-month change

³ year-to-date compared to same period last year



POLAND

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 9 076 | -15.0% | 2.1% | 85.6% | 49 776 | 55 058 | -9.6% | 131 012 | 87.9% |
| Coal | 7 139 | -20.6% | 2.5% | 67.3% | 39 644 | 46 726 | -13.8% | 108 915 | 73.0% |
| Oil ⁴ | - | - | - | - | - | - | - | 1 617 | 1.1% |
| Natural Gas | 1 158 | 8.0% | -2.4% | 10.9% | 6 034 | 5 607 | 7.6% | 13 566 | 9.1% |
| Combustible Renewables | 575 | 23.0% | 7.0% | 5.4% | 2 984 | 2 541 | 17.4% | 6 453 | 4.3% |
| Other Combustibles | 204 | 466.6% | 2.0% | 1.9% | 1 114 | 184 | 506.5% | 461 | 0.3% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 201 | -35.2% | 9.6% | 1.9% | 1 218 | 1 409 | -13.6% | 2 633 | 1.8% |
| Wind | 1 116 | 11.5% | -8.3% | 10.5% | 7 799 | 7 052 | 10.6% | 14 677 | 9.8% |
| Solar | 206 | 208.1% | -17.7% | 1.9% | 706 | 209 | 238.0% | 712 | 0.5% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 7 | - | - | 0.1% | 35 | 35 | - | 85 | 0.1% |
| RENEWABLES | 2 099 | 13.6% | -4.1% | 19.8% | 12 706 | 11 210 | 13.3% | 24 475 | 16.4% |
| NON-RENEWABLES | 8 508 | -16.7% | 1.8% | 80.2% | 46 828 | 52 552 | -10.9% | 124 643 | 83.6% |
| TOTAL NET PRODUCTION | 10 606 | -12.0% | 0.6% | | 59 533 | 63 763 | -6.6% | 149 118 | |
| + Imports | 1 714 | 11.9% | 8.1% | | 8 730 | 6 862 | 27.2% | 17 868 | |
| - Exports | 450 | -26.9% | -19.4% | | 3 681 | 3 305 | 11.4% | 7 245 | |
| = ELECTRICITY SUPPLIED | 11 870 | -8.5% | 2.6% | | 64 583 | 67 320 | -4.1% | 159 741 | |
| - Used for pumped storage | 88 | 10.1% | 11.3% | | 515 | 438 | 17.6% | 1 033 | |
| - T&D Losses | 1 057 | 50.3% | 31.5% | | 4 505 | 3 409 | 32.2% | 9 463 | |
| = ELECTRICITY CONSUMED | 10 725 | -12.0% | 0.3% | | 59 563 | 63 474 | -6.2% | 149 246 | |

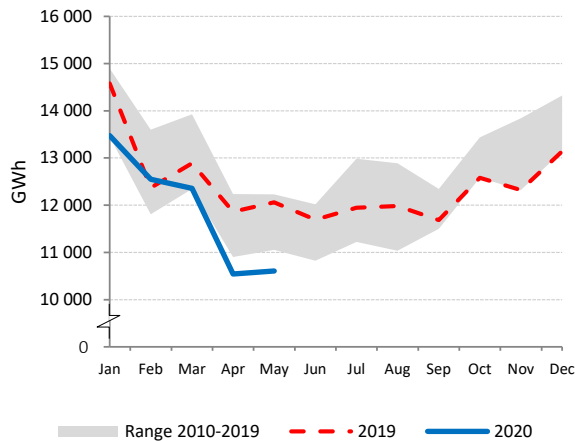
¹ current month to month of last year change

⁴ monthly figures are confidential

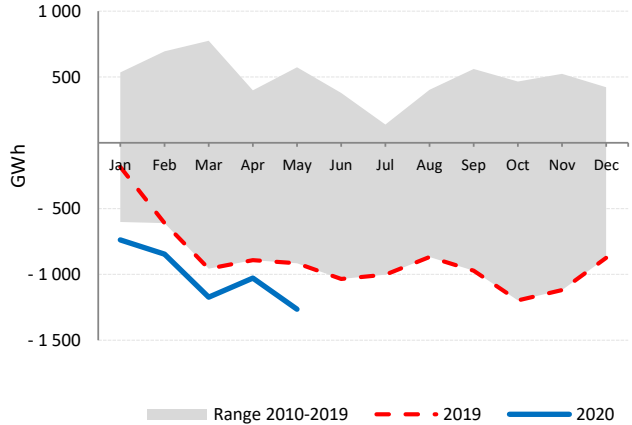
² month-to-month change

³ year-to-date compared to same period last year

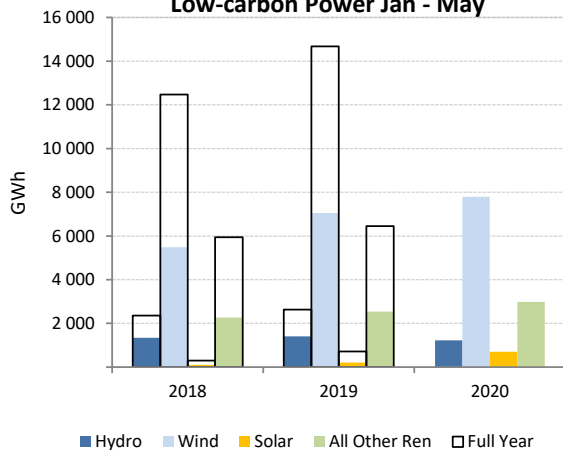
Electricity Production



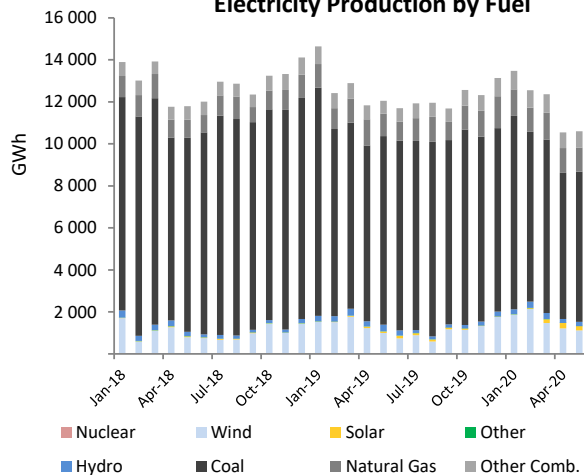
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



PORTUGAL

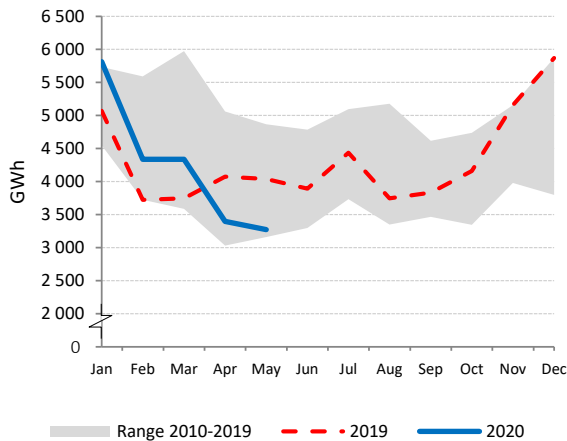
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 1 313 | -37.7% | 34.8% | 40.1% | 7 738 | 10 046 | -23.0% | 26 621 | 51.4% |
| Coal | 18 | -95.0% | - | 0.5% | 166 | 3 199 | -94.8% | 5 378 | 10.4% |
| Oil | 76 | -14.5% | -19.2% | 2.3% | 468 | 413 | 13.2% | 1 163 | 2.2% |
| Natural Gas | 928 | -33.4% | 62.3% | 28.3% | 5 537 | 5 077 | 9.1% | 16 582 | 32.0% |
| Combustible Renewables | 266 | 8.4% | -7.3% | 8.1% | 1 449 | 1 241 | 16.8% | 3 222 | 6.2% |
| Other Combustibles | 25 | 10.6% | 19.7% | 0.8% | 118 | 117 | 0.5% | 276 | 0.5% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 1 088 | 77.3% | -20.3% | 33.2% | 7 675 | 4 205 | 82.5% | 10 054 | 19.4% |
| Wind | 688 | -40.9% | -25.0% | 21.0% | 5 050 | 5 817 | -13.2% | 13 605 | 26.3% |
| Solar | 168 | 23.1% | 31.7% | 5.1% | 617 | 498 | 23.8% | 1 274 | 2.5% |
| Geothermal | 17 | -3.5% | 8.1% | 0.5% | 85 | 87 | -2.1% | 192 | 0.4% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 2 226 | 2.3% | -17.9% | 68.0% | 14 875 | 11 847 | 25.6% | 28 346 | 54.8% |
| NON-RENEWABLES | 1 047 | -43.7% | 52.4% | 32.0% | 6 289 | 8 805 | -28.6% | 23 399 | 45.2% |
| TOTAL NET PRODUCTION | 3 274 | -18.9% | -3.7% | | 21 164 | 20 652 | 2.5% | 51 745 | |
| + Imports | 878 | 18.6% | 8.9% | | 3 484 | 3 874 | -10.1% | 8 099 | |
| - Exports | 279 | -16.0% | -5.2% | | 2 496 | 1 505 | 65.8% | 4 700 | |
| = ELECTRICITY SUPPLIED | 3 872 | -12.9% | -1.0% | | 22 153 | 23 021 | -3.8% | 55 144 | |
| - Used for pumped storage | 150 | 14.4% | -25.9% | | 887 | 742 | 19.6% | 1 827 | |
| - T&D Losses | 356 | -5.7% | 0.1% | | 2 029 | 1 946 | 4.2% | 4 668 | |
| = ELECTRICITY CONSUMED | 3 366 | -14.5% | 0.4% | | 19 237 | 20 333 | -5.4% | 48 649 | |

¹ current month to month of last year change

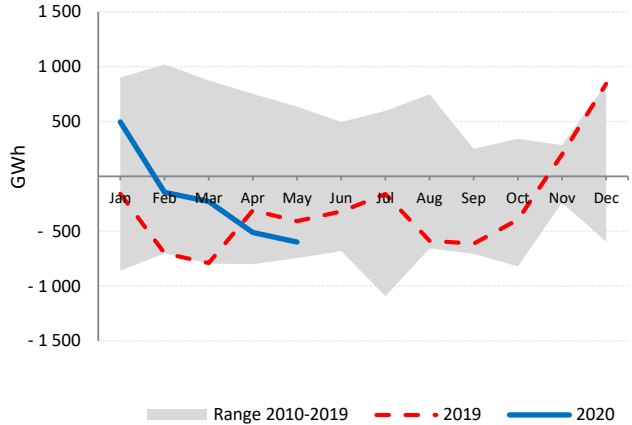
² month-to-month change

³ year-to-date compared to same period last year

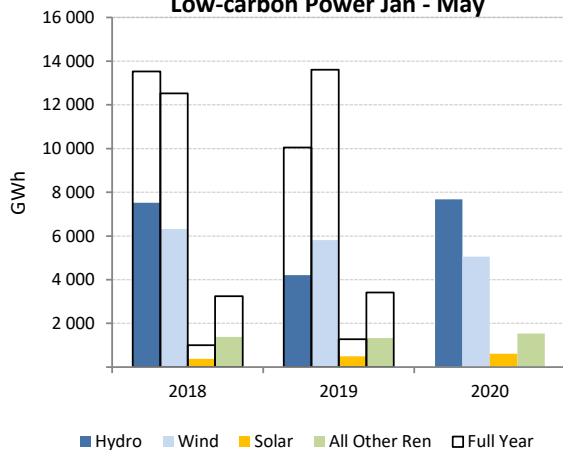
Electricity Production



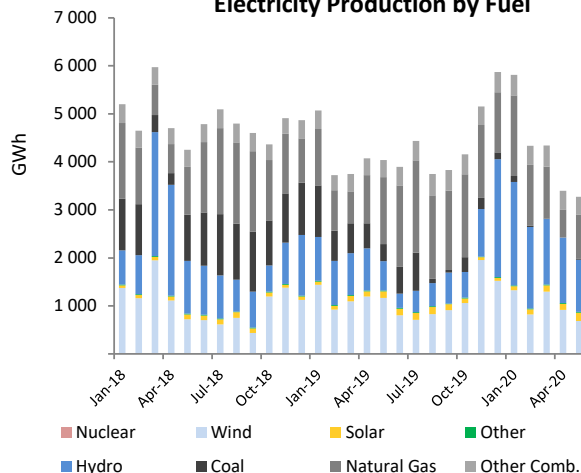
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel

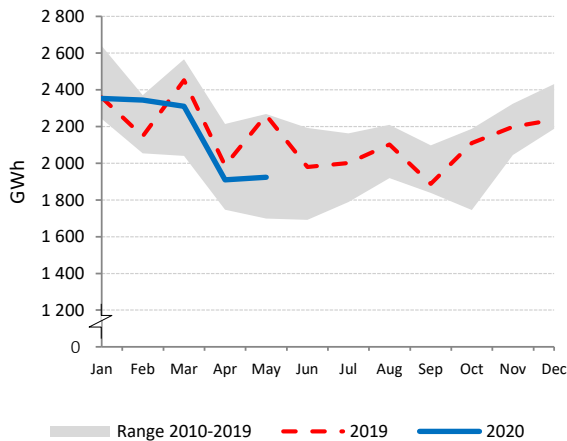


SLOVAK REPUBLIC

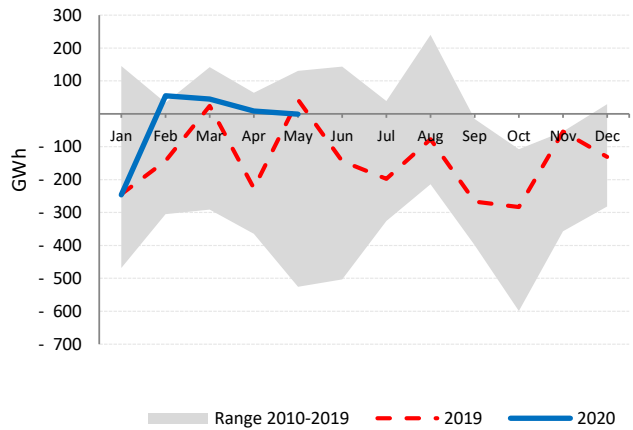
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 412 | -10.5% | -0.8% | 21.4% | 2 576 | 2 671 | -3.5% | 6 174 | 24.0% |
| Coal | 76 | -48.3% | -17.6% | 3.9% | 756 | 1 057 | -28.5% | 2 233 | 8.7% |
| Oil | 26 | 36.8% | -10.3% | 1.4% | 154 | 147 | 4.8% | 399 | 1.6% |
| Natural Gas | 235 | 22.0% | 10.1% | 12.2% | 1 248 | 972 | 28.4% | 2 478 | 9.6% |
| Combustible Renewables | 75 | -26.4% | -7.0% | 3.9% | 413 | 489 | -15.6% | 1 052 | 4.1% |
| Other Combustibles | 1 | - | 2.6% | 0.1% | 5 | 5 | 5.8% | 11 | 0.0% |
| Nuclear | 1 126 | -6.5% | 1.4% | 58.5% | 6 093 | 6 015 | 1.3% | 14 407 | 56.0% |
| Hydro | 301 | -44.2% | 5.7% | 15.7% | 1 855 | 2 276 | -18.5% | 4 489 | 17.5% |
| Wind | - | - | - | - | - | 2 | - | 5 | 0.0% |
| Solar | 79 | 49.1% | -16.0% | 4.1% | 296 | 224 | 32.1% | 589 | 2.3% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 5 | - | 33.3% | 0.3% | 22 | 22 | 0.0% | 59 | 0.2% |
| RENEWABLES | 455 | -34.5% | -1.0% | 23.7% | 2 563 | 2 990 | -14.3% | 6 135 | 23.9% |
| NON-RENEWABLES | 1 469 | -6.4% | 1.3% | 76.3% | 8 279 | 8 219 | 0.7% | 19 588 | 76.1% |
| TOTAL NET PRODUCTION | 1 924 | -15.0% | 0.7% | | 10 842 | 11 209 | -3.3% | 25 723 | |
| + Imports | 954 | -2.8% | 6.5% | | 6 034 | 5 786 | 4.3% | 13 538 | |
| - Exports | 953 | -6.9% | 5.3% | | 5 895 | 5 239 | 12.5% | 11 838 | |
| = ELECTRICITY SUPPLIED | 1 925 | -13.3% | 1.3% | | 10 980 | 11 755 | -6.6% | 27 423 | |
| - Used for pumped storage | 24 | 26.3% | -27.3% | | 146 | 123 | 18.7% | 295 | |
| - T&D Losses ⁴ | 106 | -11.3% | 2.6% | | 621 | 625 | -0.7% | 1 445 | |
| = ELECTRICITY CONSUMED | 1 795 | -13.8% | 1.7% | | 10 213 | 11 007 | -7.2% | 25 683 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year

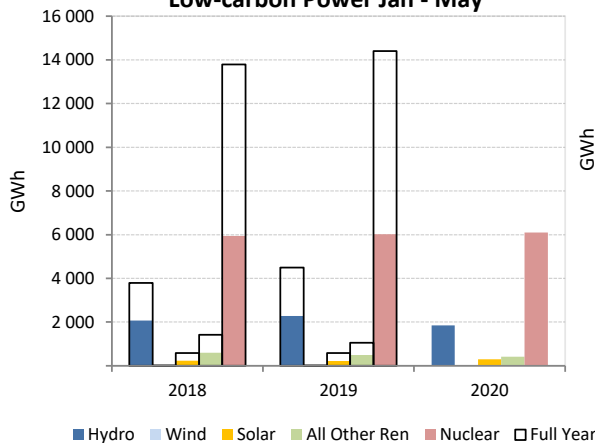
Electricity Production



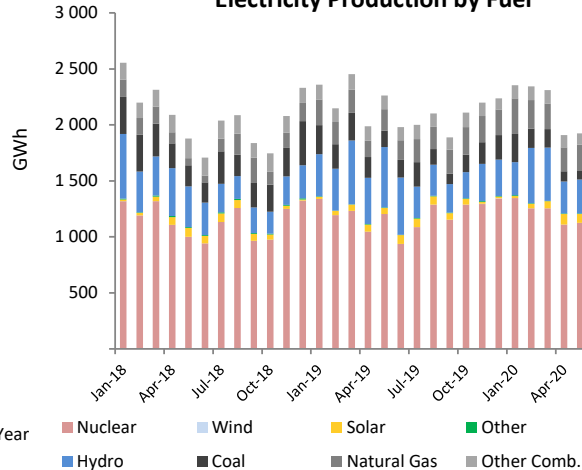
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



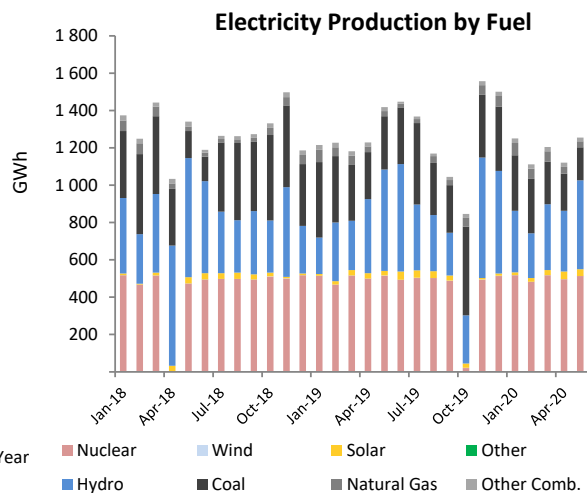
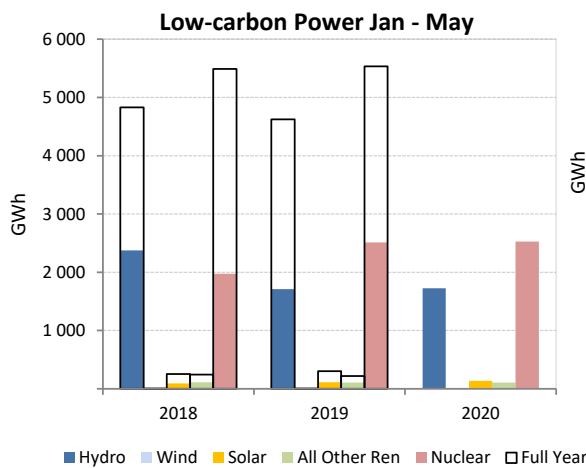
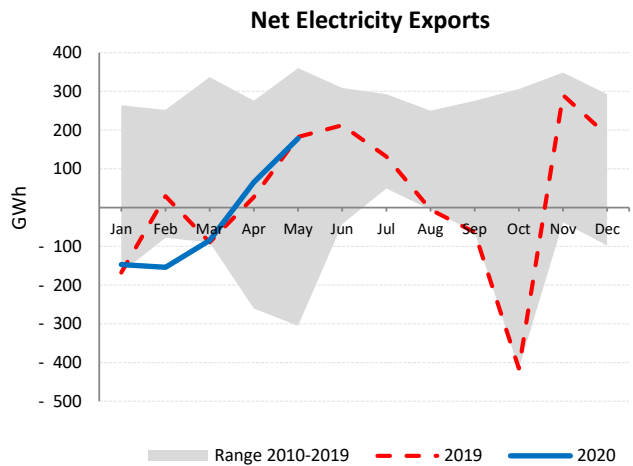
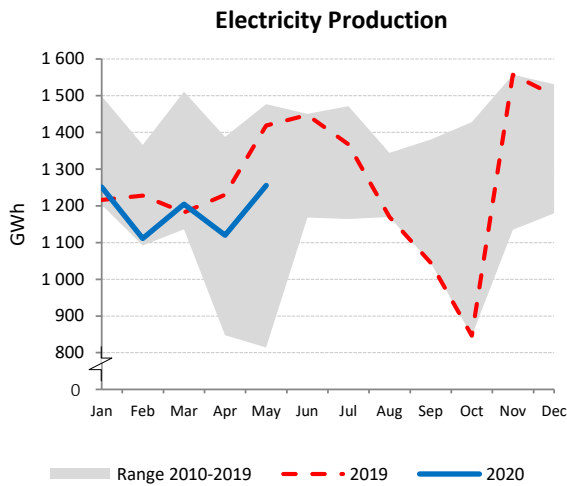
SLOVENIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 229 | -31.6% | -10.8% | 18.3% | 1 550 | 1 937 | -20.0% | 4 747 | 31.2% |
| Coal | 176 | -38.5% | -11.3% | 14.1% | 1 195 | 1 600 | -25.3% | 4 028 | 26.5% |
| Oil | 0 | -77.4% | 46.8% | 0.0% | 1 | 5 | -73.5% | 7 | 0.0% |
| Natural Gas | 32 | 18.9% | -11.3% | 2.6% | 243 | 220 | 10.2% | 482 | 3.2% |
| Combustible Renewables | 20 | 1.7% | -2.8% | 1.6% | 107 | 108 | -1.0% | 221 | 1.5% |
| Other Combustibles | 0 | -60.2% | -67.8% | 0.0% | 4 | 4 | -2.0% | 9 | 0.1% |
| Nuclear | 514 | -0.4% | 3.4% | 40.9% | 2 529 | 2 514 | 0.6% | 5 531 | 36.4% |
| Hydro | 476 | -12.4% | 46.3% | 37.9% | 1 723 | 1 712 | 0.7% | 4 622 | 30.4% |
| Wind | 1 | 41.4% | -3.3% | 0.0% | 3 | 3 | 3.1% | 6 | 0.0% |
| Solar | 37 | 47.4% | -10.6% | 2.9% | 138 | 109 | 26.1% | 303 | 2.0% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 533 | -9.3% | 37.5% | 42.4% | 1 972 | 1 932 | 2.0% | 5 152 | 33.9% |
| NON-RENEWABLES | 723 | -13.0% | -1.4% | 57.6% | 3 971 | 4 342 | -8.5% | 10 056 | 66.1% |
| TOTAL NET PRODUCTION | 1 256 | -11.5% | 12.1% | | 5 943 | 6 274 | -5.3% | 15 208 | |
| + Imports | 567 | -21.4% | 3.2% | | 3 492 | 4 072 | -14.3% | 9 021 | |
| - Exports | 745 | -17.6% | 21.3% | | 3 350 | 4 054 | -17.4% | 9 340 | |
| = ELECTRICITY SUPPLIED | 1 077 | -12.9% | 2.1% | | 6 085 | 6 293 | -3.3% | 14 889 | |
| - Used for pumped storage | 36 | 20.1% | -0.4% | | 179 | 45 | 296.2% | 272 | |
| - T&D Losses | 55 | -19.5% | -2.5% | | 426 | 459 | -7.1% | 987 | |
| = ELECTRICITY CONSUMED | 987 | -13.3% | 2.5% | | 5 480 | 5 789 | -5.3% | 13 630 | |

¹ current month to month of last year change

² month-to-month change

³ year-to-date compared to same period last year



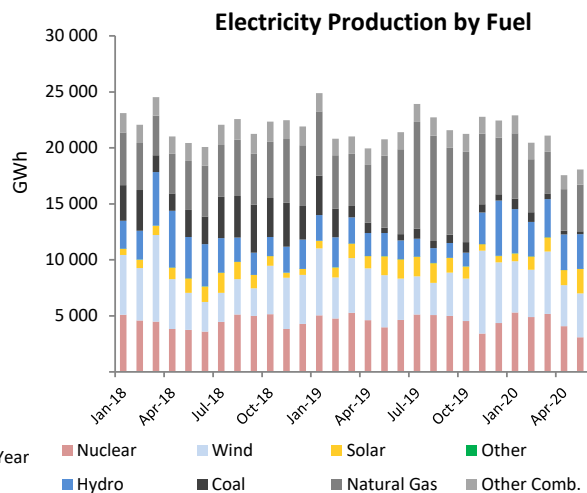
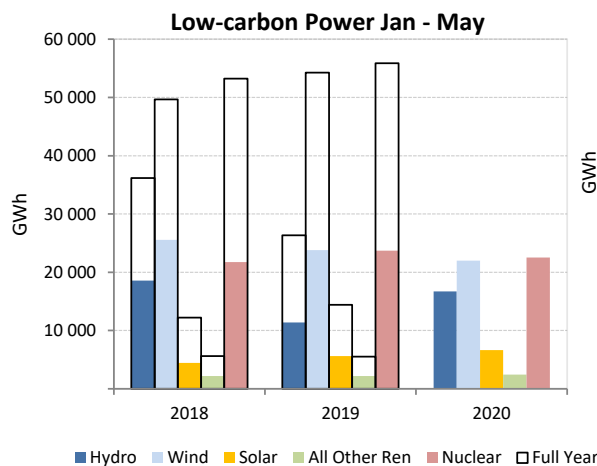
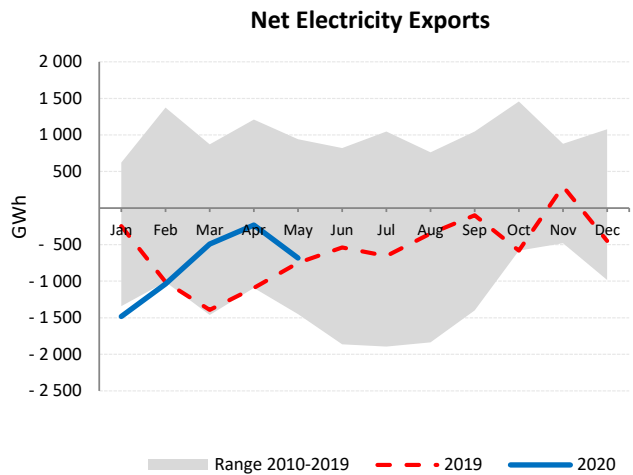
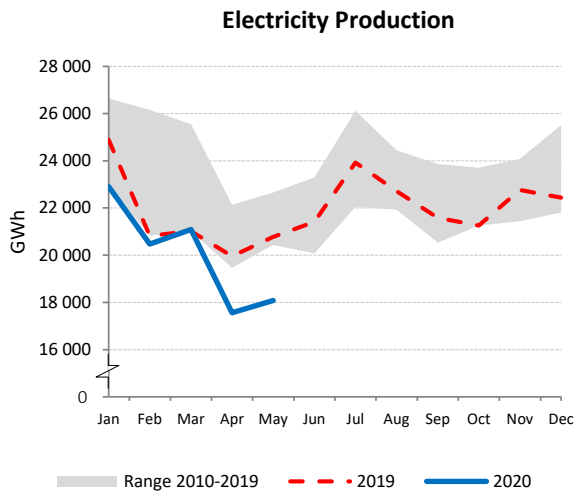
SPAIN

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 5 789 | -30.9% | 9.4% | 32.0% | 32 188 | 42 881 | -24.9% | 112 593 | 42.7% |
| Coal | 260 | -47.7% | -20.4% | 1.4% | 2 901 | 8 544 | -66.1% | 13 562 | 5.1% |
| Oil | 774 | -20.5% | 4.7% | 4.3% | 4 331 | 4 958 | -12.6% | 12 056 | 4.6% |
| Natural Gas | 4 173 | -35.1% | 12.2% | 23.1% | 22 147 | 26 734 | -17.2% | 80 466 | 30.5% |
| Combustible Renewables | 518 | 26.9% | 15.8% | 2.9% | 2 455 | 2 217 | 10.7% | 5 523 | 2.1% |
| Other Combustibles | 64 | -13.6% | 4.4% | 0.4% | 354 | 428 | -17.2% | 985 | 0.4% |
| Nuclear | 3 082 | -22.6% | -24.6% | 17.0% | 22 538 | 23 706 | -4.9% | 55 883 | 21.2% |
| Hydro | 3 101 | 50.5% | -2.3% | 17.1% | 16 709 | 11 397 | 46.6% | 26 349 | 10.0% |
| Wind | 3 933 | -15.3% | 7.3% | 21.7% | 21 979 | 23 814 | -7.7% | 54 235 | 20.6% |
| Solar | 2 168 | 28.0% | 62.9% | 12.0% | 6 647 | 5 617 | 18.3% | 14 399 | 5.5% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 9 | - | - | 0.1% | 47 | 47 | - | 112 | 0.0% |
| RENEWABLES | 9 719 | 10.4% | 12.8% | 53.8% | 47 789 | 43 045 | 11.0% | 100 507 | 38.1% |
| NON-RENEWABLES | 8 362 | -30.1% | -6.5% | 46.2% | 52 318 | 64 416 | -18.8% | 163 064 | 61.9% |
| TOTAL NET PRODUCTION | 18 082 | -12.9% | 3.0% | | 100 107 | 107 461 | -6.8% | 263 571 | |
| + Imports | 1 748 | 11.1% | 26.3% | | 8 991 | 9 463 | -5.0% | 18 720 | |
| - Exports | 1 064 | 28.9% | -7.5% | | 5 063 | 4 974 | 1.8% | 11 858 | |
| = ELECTRICITY SUPPLIED | 18 765 | -12.8% | 5.5% | | 104 035 | 111 950 | -7.1% | 270 433 | |
| - Used for pumped storage | 392 | 106.4% | -40.7% | | 2 397 | 1 372 | 74.7% | 3 025 | |
| - T&D Losses | 1 722 | -13.7% | 7.3% | | 9 524 | 10 333 | -7.8% | 24 991 | |
| = ELECTRICITY CONSUMED | 16 652 | -13.9% | 7.2% | | 92 113 | 100 245 | -8.1% | 242 417 | |

¹ current month to month of last year change

² month-to-month change

³ year-to-date compared to same period last year



SWEDEN

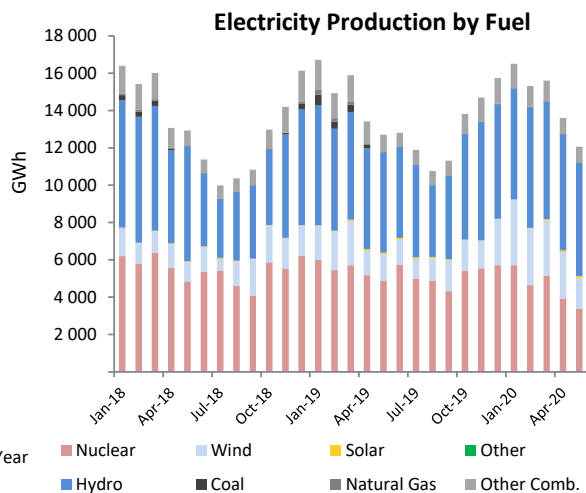
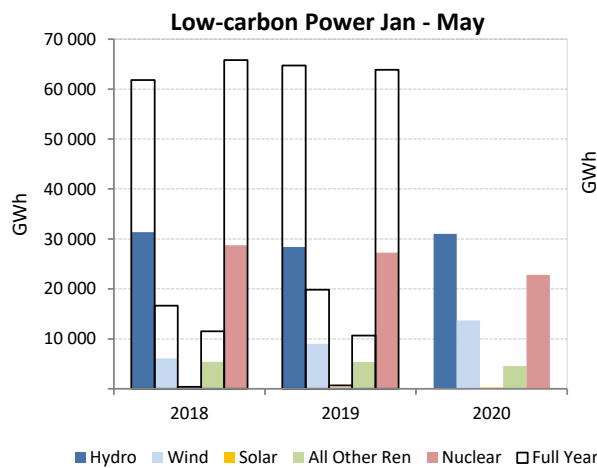
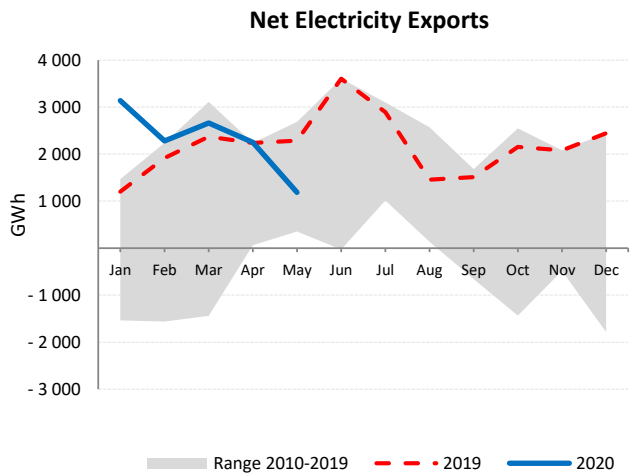
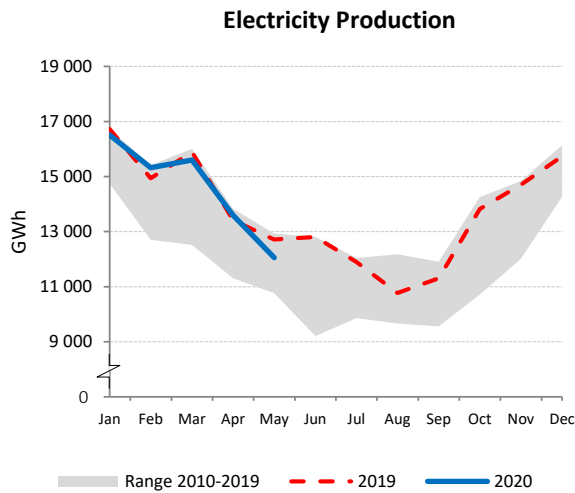
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 838 | -11.0% | -3.4% | 7.0% | 5 297 | 8 717 | -39.2% | 15 640 | 9.5% |
| Coal | 0 | - | -100.0% | - | 7 | 1 558 | -99.5% | 1 579 | 1.0% |
| Oil | 11 | 5.9% | -9.8% | 0.1% | 46 | 163 | -71.6% | 265 | 0.2% |
| Natural Gas | 4 | 2.0% | 759.3% | 0.0% | 43 | 644 | -93.3% | 728 | 0.4% |
| Combustible Renewables | 699 | -10.4% | -4.3% | 5.8% | 4 529 | 5 332 | -15.1% | 10 640 | 6.5% |
| Other Combustibles | 123 | -15.5% | 0.8% | 1.0% | 671 | 1 019 | -34.2% | 2 427 | 1.5% |
| Nuclear | 3 374 | -31.1% | -14.0% | 28.0% | 22 814 | 27 255 | -16.3% | 63 881 | 38.8% |
| Hydro | 6 086 | 13.2% | -2.2% | 50.5% | 31 005 | 28 410 | 9.1% | 64 698 | 39.3% |
| Wind | 1 664 | 18.4% | -33.3% | 13.8% | 13 673 | 9 010 | 51.8% | 19 846 | 12.0% |
| Solar⁴ | 94 | - | 12.9% | 0.8% | 285 | 285 | - | 663 | 0.4% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 8 543 | 11.6% | -10.4% | 70.9% | 49 493 | 43 037 | 15.0% | 95 847 | 58.2% |
| NON-RENEWABLES | 3 512 | -30.5% | -13.5% | 29.1% | 23 582 | 30 640 | -23.0% | 68 880 | 41.8% |
| TOTAL NET PRODUCTION | 12 055 | -5.1% | -11.3% | | 73 074 | 73 677 | -0.8% | 164 728 | |
| + Imports | 782 | 114.3% | 43.0% | | 2 778 | 3 595 | -22.7% | 9 070 | |
| - Exports | 1 969 | -25.7% | -29.6% | | 14 302 | 13 608 | 5.1% | 35 231 | |
| = ELECTRICITY SUPPLIED | 10 868 | 4.3% | -4.2% | | 61 550 | 63 664 | -3.3% | 138 567 | |
| - Used for pumped storage | - | - | - | | 13 | 24 | -46.1% | 32 | |
| - T&D Losses | 750 | 7.0% | -10.6% | | 4 833 | 4 898 | -1.3% | 10 477 | |
| = ELECTRICITY CONSUMED | 10 118 | 4.2% | -3.7% | | 56 705 | 58 743 | -3.5% | 128 058 | |

¹ current month to month of last year change

⁴ estimated by the IEA secretariat

² month-to-month change

³ year-to-date compared to same period last year



SWITZERLAND

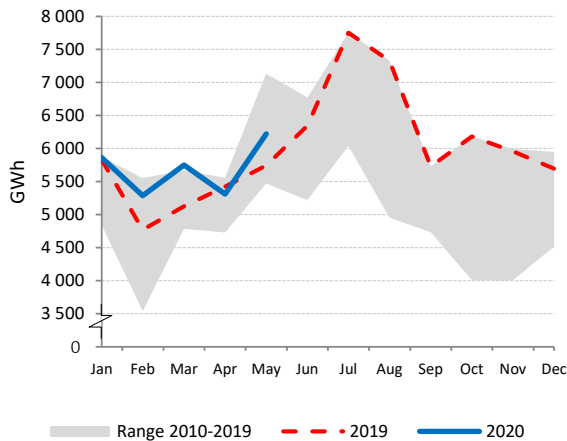
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 286 | -6.0% | 8.5% | 4.6% | 1 599 | 1 545 | 3.5% | 3 791 | 5.3% |
| Coal | - | - | - | - | - | - | - | - | - |
| Oil | 1 | -50.0% | 100.0% | 0.0% | 5 | 10 | -52.7% | 24 | 0.0% |
| Natural Gas | 41 | -18.8% | 7.7% | 0.7% | 229 | 257 | -11.1% | 632 | 0.9% |
| Combustible Renewables | 142 | -4.6% | 8.4% | 2.3% | 796 | 757 | 5.1% | 1 859 | 2.6% |
| Other Combustibles | 102 | -0.9% | 8.4% | 1.6% | 570 | 520 | 9.5% | 1 277 | 1.8% |
| Nuclear | 1 944 | -4.6% | -1.5% | 31.2% | 10 337 | 11 133 | -7.1% | 25 280 | 35.2% |
| Hydro | 3 672 | 16.9% | 32.3% | 59.0% | 15 410 | 13 355 | 15.4% | 40 556 | 56.4% |
| Wind | 10 | -16.7% | 42.9% | 0.2% | 73 | 67 | 9.0% | 146 | 0.2% |
| Solar | 309 | 23.6% | 6.4% | 5.0% | 1 014 | 795 | 27.5% | 2 111 | 2.9% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 4 133 | 16.4% | 29.0% | 66.4% | 17 292 | 14 973 | 15.5% | 44 672 | 62.1% |
| NON-RENEWABLES | 2 088 | -4.8% | -0.9% | 33.6% | 11 140 | 11 921 | -6.5% | 27 212 | 37.9% |
| TOTAL NET PRODUCTION | 6 221 | 8.3% | 17.2% | | 28 432 | 26 894 | 5.7% | 71 884 | |
| + Imports | 1 605 | -21.9% | -9.1% | | 12 431 | 14 567 | -14.7% | 29 505 | |
| - Exports | 2 700 | 11.6% | 17.6% | | 13 752 | 12 894 | 6.7% | 35 765 | |
| = ELECTRICITY SUPPLIED | 5 127 | -4.7% | 7.2% | | 27 111 | 28 566 | -5.1% | 65 624 | |
| - Used for pumped storage | 600 | 56.3% | 39.9% | | 1 767 | 1 451 | 21.8% | 4 133 | |
| - T&D Losses | 384 | -10.1% | -1.8% | | 2 108 | 2 265 | -6.9% | 5 153 | |
| = ELECTRICITY CONSUMED | 4 143 | -9.3% | 4.6% | | 23 235 | 24 850 | -6.5% | 56 338 | |

¹ current month to month of last year change

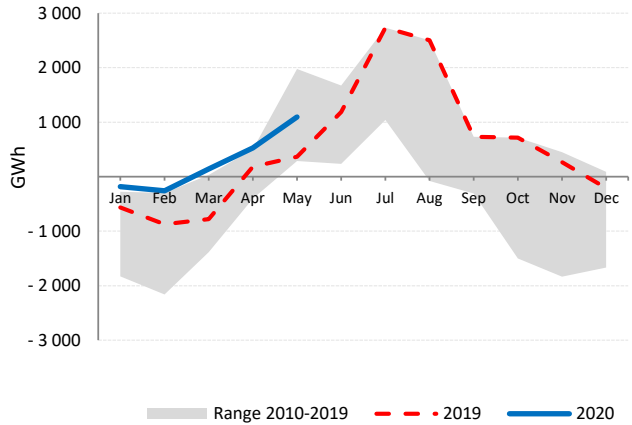
² month-to-month change

³ year-to-date compared to same period last year

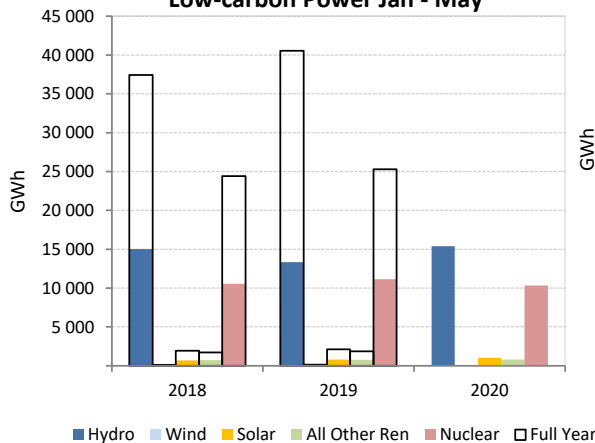
Electricity Production



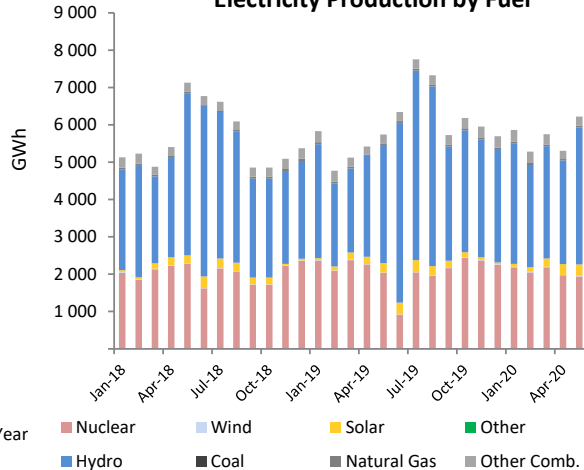
Net Electricity Exports



Low-carbon Power Jan - May



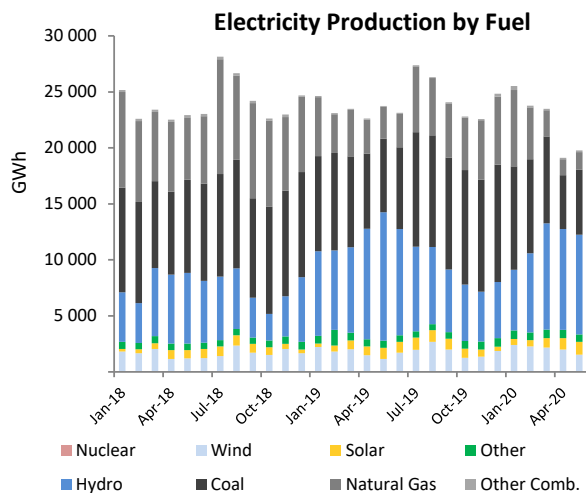
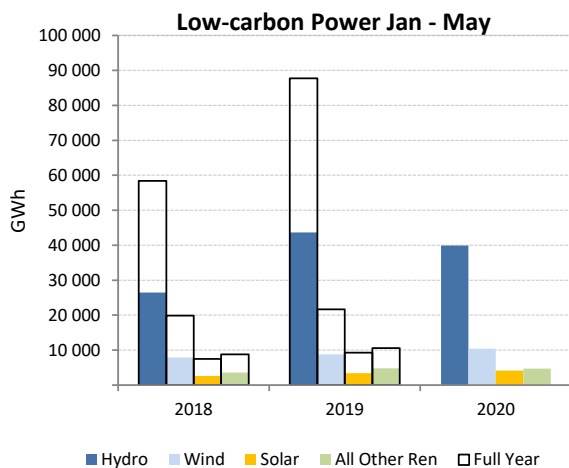
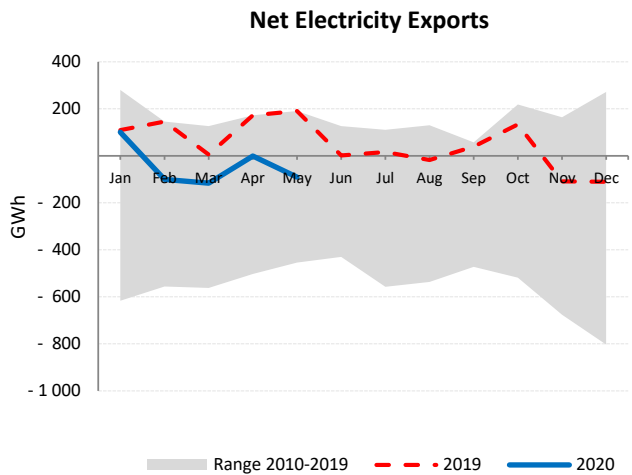
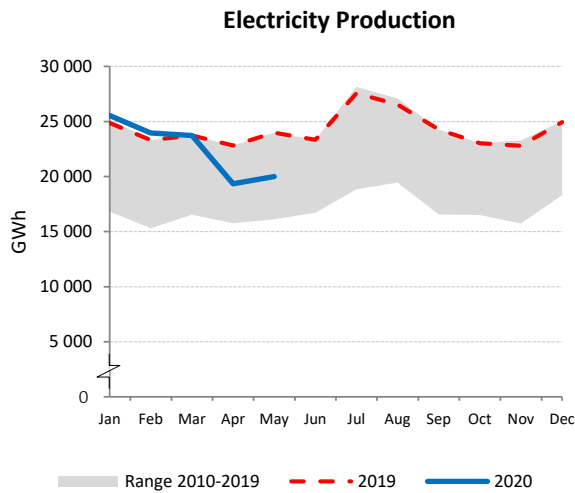
Electricity Production by Fuel



TURKEY

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 7 753 | -20.4% | 17.8% | 38.7% | 54 605 | 58 928 | -7.3% | 164 146 | 56.4% |
| Coal | 5 788 | -11.8% | 20.6% | 28.9% | 35 971 | 38 581 | -6.8% | 106 744 | 36.7% |
| Oil | 47 | -47.3% | -13.3% | 0.2% | 242 | 395 | -38.8% | 692 | 0.2% |
| Natural Gas | 1 590 | -44.1% | 12.7% | 7.9% | 16 807 | 18 725 | -10.2% | 53 615 | 18.4% |
| Combustible Renewables | 326 | 34.8% | 3.3% | 1.6% | 1 570 | 1 214 | 29.3% | 3 069 | 1.1% |
| Other Combustibles | 2 | -23.6% | -25.2% | 0.0% | 15 | 12 | 27.0% | 26 | 0.0% |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 8 916 | -22.2% | -1.2% | 44.6% | 39 900 | 43 636 | -8.6% | 87 697 | 30.1% |
| Wind | 1 545 | 32.0% | -23.1% | 7.7% | 10 399 | 8 752 | 18.8% | 21 630 | 7.4% |
| Solar | 1 150 | 17.4% | 13.3% | 5.7% | 4 109 | 3 380 | 21.6% | 9 286 | 3.2% |
| Geothermal | 554 | 0.4% | -13.2% | 2.8% | 3 179 | 3 619 | -12.2% | 7 475 | 2.6% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 90 | -0.4% | 11.6% | 0.4% | 387 | 417 | -7.2% | 929 | 0.3% |
| RENEWABLES | 12 491 | -13.3% | -3.9% | 62.4% | 59 157 | 60 601 | -2.4% | 129 157 | 44.4% |
| NON-RENEWABLES | 7 516 | -21.6% | 18.4% | 37.6% | 53 422 | 58 131 | -8.1% | 162 007 | 55.6% |
| TOTAL NET PRODUCTION | 20 007 | -16.6% | 3.4% | | 112 579 | 118 732 | -5.2% | 291 164 | |
| + Imports | 211 | 54.2% | 28.7% | | 1 093 | 835 | 30.9% | 2 212 | |
| - Exports | 121 | -63.1% | -26.1% | | 887 | 1 458 | -39.2% | 2 789 | |
| = ELECTRICITY SUPPLIED | 20 097 | -15.6% | 3.9% | | 112 785 | 118 108 | -4.5% | 290 587 | |
| - Used for pumped storage | - | - | - | | - | - | - | - | |
| - T&D Losses ⁴ | 2 442 | -16.2% | 3.6% | | 13 731 | 14 443 | -4.9% | 35 439 | |
| = ELECTRICITY CONSUMED | 17 655 | -15.5% | 3.9% | | 99 054 | 103 665 | -4.4% | 255 148 | |

¹ current month to month of last year change ⁴ estimated
² month-to-month change
³ year-to-date compared to same period last year

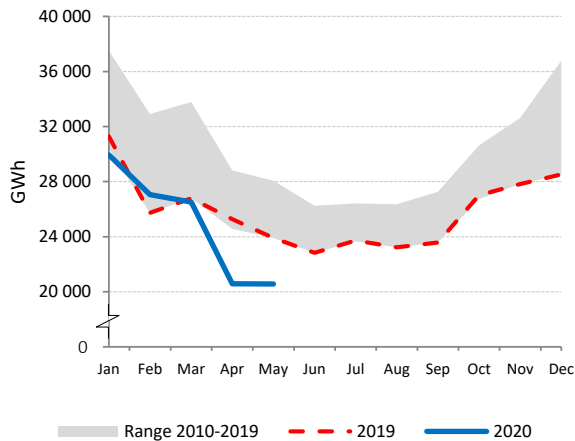


UNITED KINGDOM

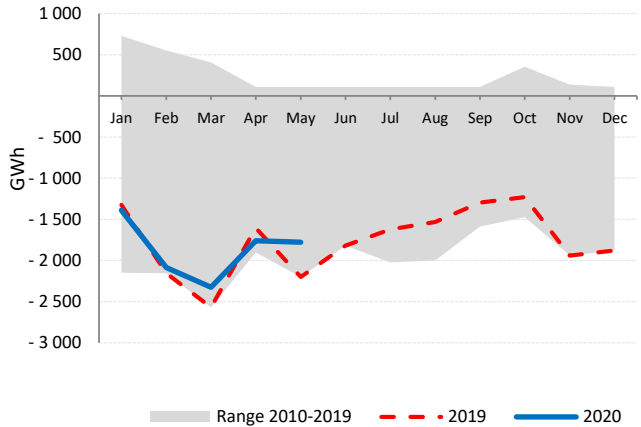
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 10 282 | -28.2% | -2.0% | 50.0% | 61 717 | 76 571 | -19.4% | 174 277 | 56.3% |
| Coal | 76 | 72.8% | -54.9% | 0.4% | 3 739 | 3 622 | 3.2% | 7 326 | 2.4% |
| Oil | 19 | -75.8% | -49.6% | 0.1% | 242 | 425 | -43.0% | 991 | 0.3% |
| Natural Gas | 6 453 | -40.2% | -5.1% | 31.4% | 39 258 | 56 615 | -30.7% | 126 155 | 40.7% |
| Combustible Renewables | 3 260 | 9.1% | 7.3% | 15.9% | 16 127 | 13 892 | 16.1% | 34 813 | 11.2% |
| Other Combustibles | 474 | 16.0% | 6.1% | 2.3% | 2 351 | 2 018 | 16.5% | 4 992 | 1.6% |
| Nuclear | 3 967 | -9.8% | 8.6% | 19.3% | 19 525 | 21 450 | -9.0% | 51 032 | 16.5% |
| Hydro | 375 | 23.2% | -19.2% | 1.8% | 3 446 | 3 076 | 12.0% | 7 576 | 2.4% |
| Wind | 4 270 | 33.0% | -6.9% | 20.8% | 34 980 | 26 587 | 31.6% | 64 134 | 20.7% |
| Solar | 1 670 | -0.9% | 21.5% | 8.1% | 4 963 | 5 315 | -6.6% | 12 677 | 4.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | 1 | - | - | 0.0% | 5 | 5 | - | 13 | 0.0% |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 9 577 | 16.9% | 1.2% | 46.6% | 59 522 | 48 875 | 21.8% | 119 213 | 38.5% |
| NON-RENEWABLES | 10 989 | -30.1% | -1.0% | 53.4% | 65 114 | 84 130 | -22.6% | 190 496 | 61.5% |
| TOTAL NET PRODUCTION | 20 566 | -14.0% | 0.0% | | 124 637 | 133 005 | -6.3% | 309 709 | |
| + Imports | 2 061 | -12.3% | -1.4% | | 10 831 | 10 921 | -0.8% | 24 556 | |
| - Exports | 285 | 90.7% | -13.7% | | 1 494 | 1 068 | 39.9% | 3 385 | |
| = ELECTRICITY SUPPLIED | 22 342 | -14.4% | 0.1% | | 133 974 | 142 859 | -6.2% | 330 880 | |
| - Used for pumped storage | 113 | -16.0% | -15.7% | | 806 | 1 048 | -23.1% | 2 360 | |
| - T&D Losses | 846 | -56.1% | -43.2% | | 10 562 | 11 716 | -9.9% | 26 070 | |
| = ELECTRICITY CONSUMED | 21 383 | -11.1% | 3.3% | | 122 606 | 130 094 | -5.8% | 302 449 | |

¹ current month to month of last year change
² month-to-month change
³ year-to-date compared to same period last year

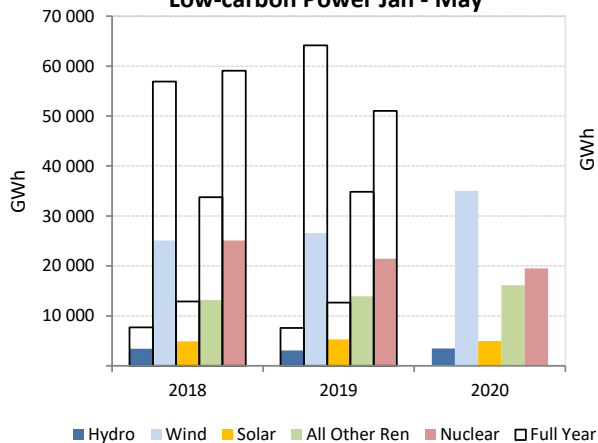
Electricity Production



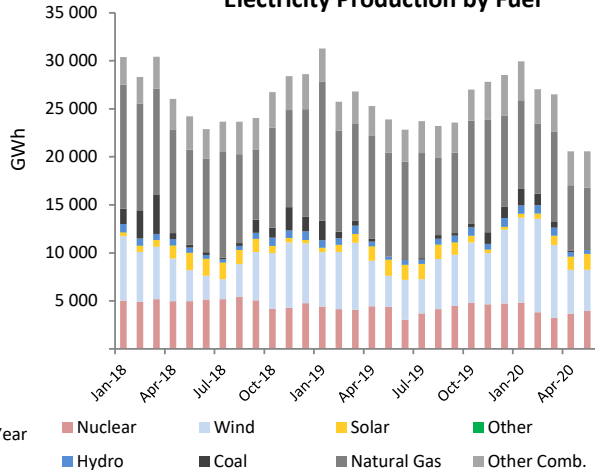
Net Electricity Exports



Low-carbon Power Jan - May



Electricity Production by Fuel



UNITED STATES

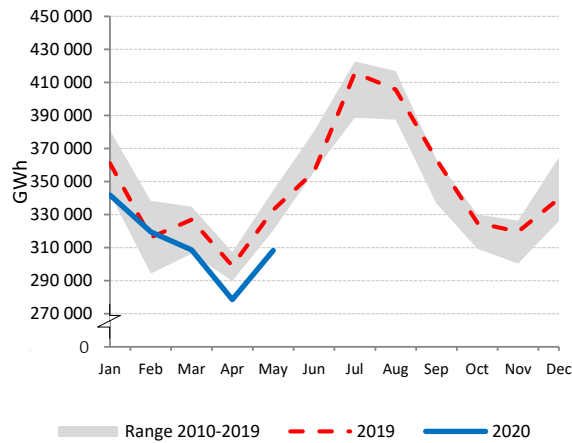
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------|----------------|---------------------|---------------------|--------------|------------------|------------------|---------------------|------------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 170 061 | -13.2% | 9.2% | 55.2% | 902 731 | 993 623 | -9.1% | 2 641 607 | 63.5% |
| Coal | 48 375 | -35.0% | 14.3% | 15.7% | 269 633 | 404 189 | -33.3% | 997 975 | 24.0% |
| Oil | 2 959 | -1.3% | 12.4% | 1.0% | 14 508 | 14 001 | 3.6% | 33 903 | 0.8% |
| Natural Gas | 113 225 | 0.4% | 7.4% | 36.7% | 590 800 | 547 127 | 8.0% | 1 540 929 | 37.0% |
| Combustible Renewables | 4 642 | -6.7% | 2.9% | 1.5% | 23 536 | 24 480 | -3.9% | 59 007 | 1.4% |
| Other Combustibles | 859 | 6.2% | 2.7% | 0.3% | 4 254 | 3 827 | 11.2% | 9 793 | 0.2% |
| Nuclear | 64 325 | -4.1% | 8.7% | 20.9% | 327 591 | 331 131 | -1.1% | 809 070 | 19.4% |
| Hydro | 31 389 | -2.4% | 41.6% | 10.2% | 129 710 | 135 849 | -4.5% | 294 530 | 7.1% |
| Wind | 28 008 | 6.4% | -4.6% | 9.1% | 143 928 | 130 136 | 10.6% | 300 089 | 7.2% |
| Solar | 12 858 | 33.6% | 21.6% | 4.2% | 45 239 | 36 744 | 23.1% | 96 195 | 2.3% |
| Geothermal | 1 349 | 2.8% | 4.7% | 0.4% | 6 341 | 6 619 | -4.2% | 15 492 | 0.4% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | 355 | -2.9% | -1.0% | 0.1% | 1 638 | 1 837 | -10.8% | 4 497 | 0.1% |
| RENEWABLES | 78 246 | 5.2% | 15.2% | 25.4% | 348 754 | 333 829 | 4.5% | 765 312 | 18.4% |
| NON-RENEWABLES | 230 098 | -11.0% | 9.2% | 74.6% | 1 208 425 | 1 302 112 | -7.2% | 3 396 166 | 81.6% |
| TOTAL NET PRODUCTION | 308 345 | -7.4% | 10.7% | | 1 557 179 | 1 635 940 | -4.8% | 4 161 478 | |
| + Imports | 5 250 | 2.9% | 16.0% | | 23 796 | 24 203 | -1.7% | 59 052 | |
| - Exports | 2 526 | 41.9% | 26.3% | | 10 073 | 9 216 | 9.3% | 20 008 | |
| = ELECTRICITY SUPPLIED | 311 069 | -7.5% | 10.7% | | 1 570 901 | 1 650 927 | -4.8% | 4 200 523 | |
| - Used for pumped storage | 2 206 | -6.9% | 31.9% | | 9 206 | 9 640 | -4.5% | 26 033 | |
| - T&D Losses | 22 078 | -10.2% | 92.1% | | 78 304 | 89 447 | -12.5% | 224 697 | |
| = ELECTRICITY CONSUMED | 286 784 | -7.3% | 7.0% | | 1 483 391 | 1 551 840 | -4.4% | 3 949 792 | |

¹ current month to month of last year change

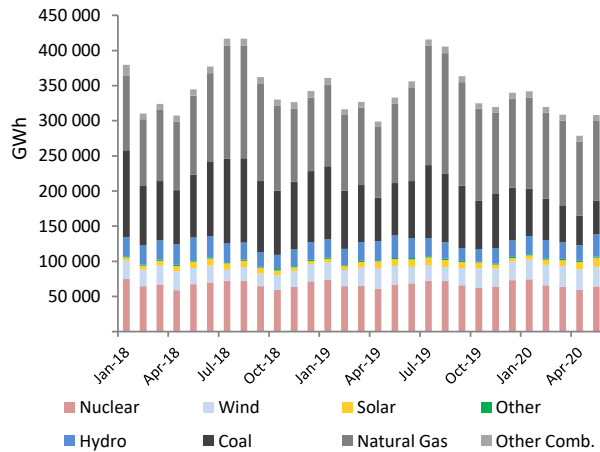
² month-to-month change

³ year-to-date compared to same period last year

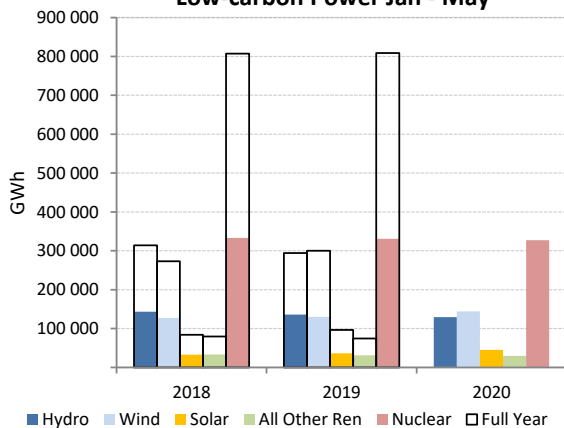
Electricity Production



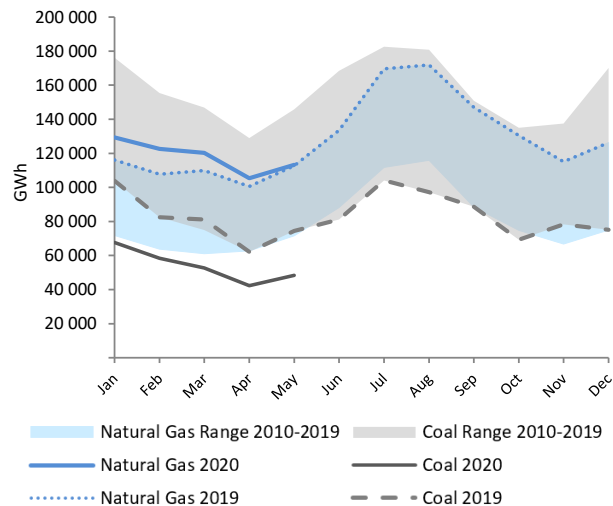
Electricity Production by Fuel



Low-carbon Power Jan - May

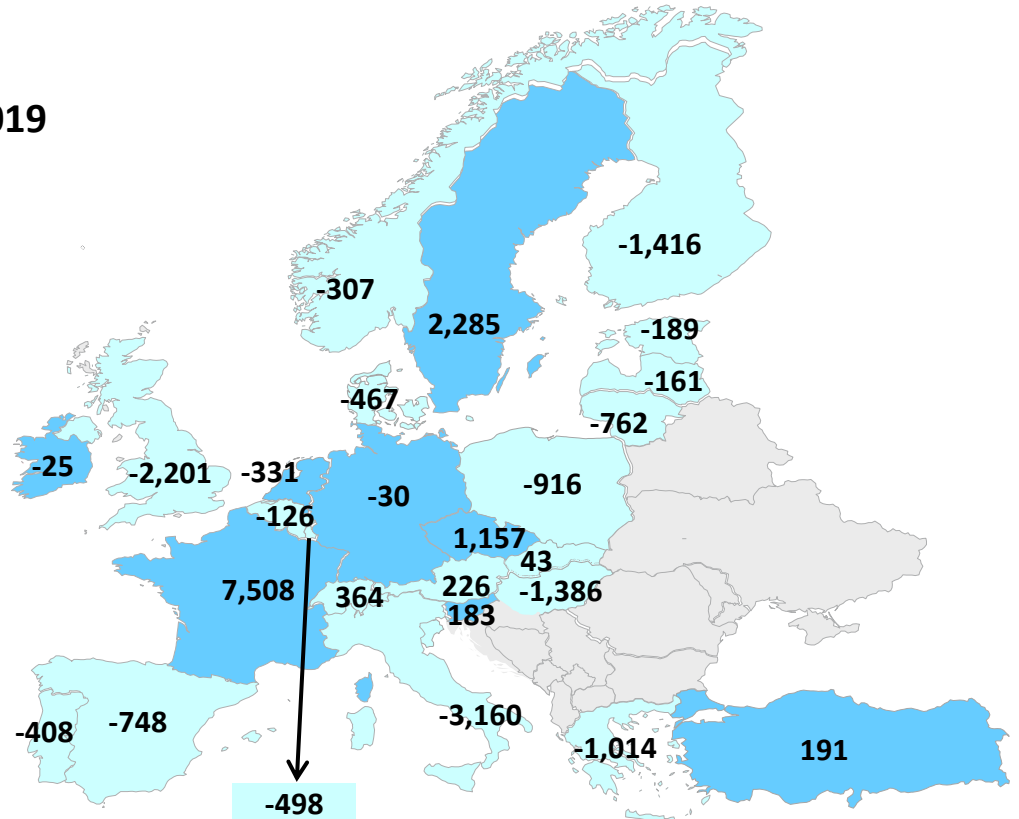


Natural Gas and Coal



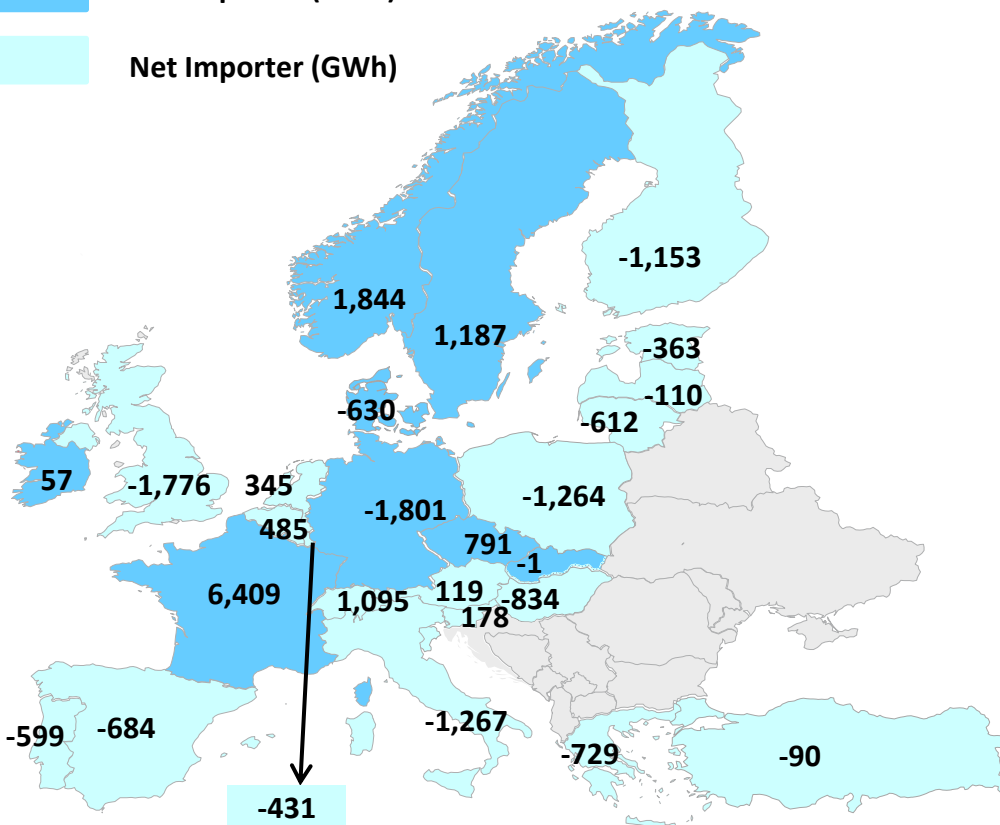
NET ELECTRICITY EXPORTS OECD EUROPE MAP 1

May 2019



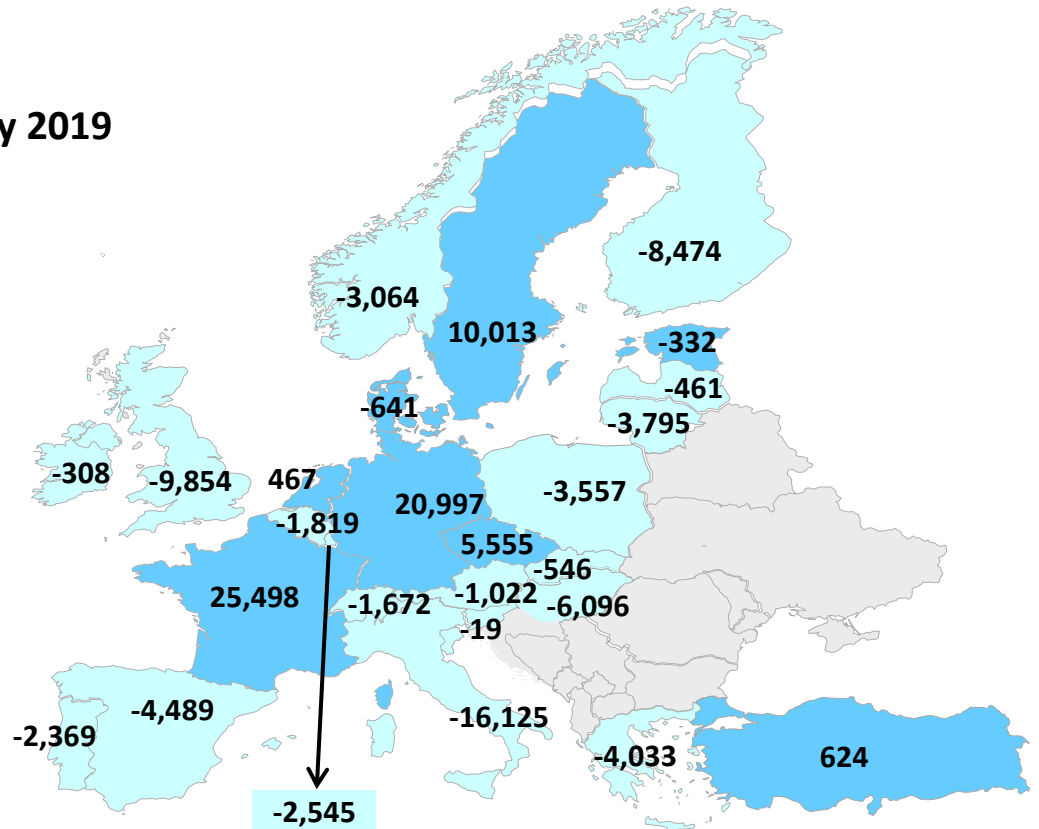
■ Net Exporter (GWh)
■ Net Importer (GWh)

May 2020

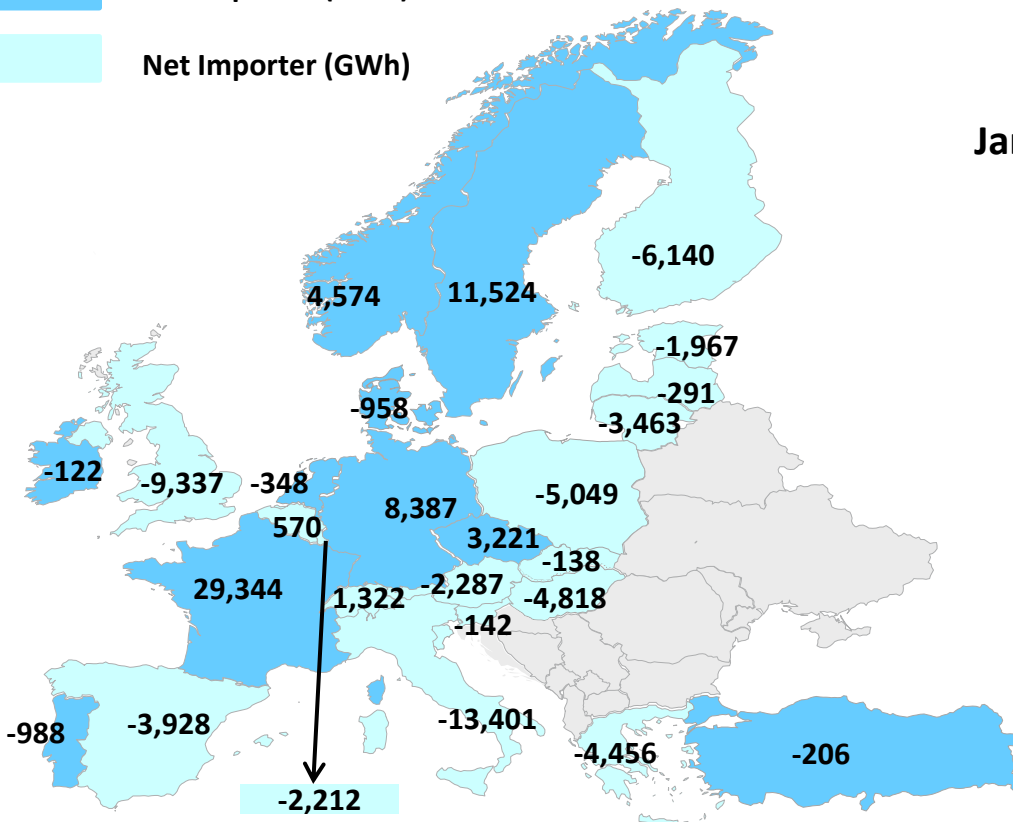


NET ELECTRICITY EXPORTS OECD EUROPE MAP 2

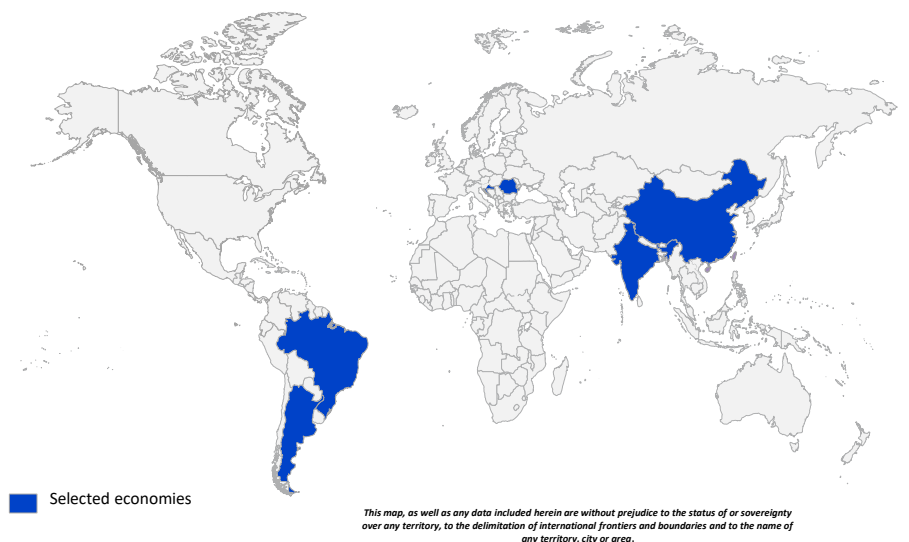
Jan - May 2019



Jan - May 2020



Annex 1 - Monthly Electricity Statistics for selected non-OECD economies



HIGHLIGHTS

- After dropping to the lowest level since January 2015 in April 2020, net electricity production in Croatia recovered in May 2020 with lockdown ease. Net production was 845.9 GWh, 28.5% higher than in April 2020. Net production was still 20.2% lower than in May 2019 as a consequence of the Covid-19 crisis and lower than average hydro production. Due to drier than average conditions in the Balkans, hydro production in Croatia nearly halved in May 2020 compared to May 2019, -48.5%, down to 336.5 GWh.
- In Romania, total net production was 3.6 TWh in May 2020, down by 25.5% compared to May 2019. Conventional thermal production was 700.6 GWh, 44.3% lower than in May 2019 and 15.9% lower than in April 2020. As a result of drier than average conditions, hydro production fell to 1,054.9 GWh, by 54.2% compared to May 2019. In May 2020, hydro production accounted for 29.6% of the total mix compared to 48.2% in May 2019.
- In China, total net electricity was the highest recorded for a month of May, with 593.0 TWh, up by 4.6% compared to May 2019 and by 7.1% compared to April 2020. Conventional thermal production was 406.1 TWh, up by 10.1% compared to May 2019, reaching a historical maximum and emphasizing China's rapid recovery after the ease of lockdown measures. On the other hand, due to drier than average conditions, hydro production dropped by 19.8 TWh or 17.8% compared to May 2019 down to 91.7 TWh.

ARGENTINA

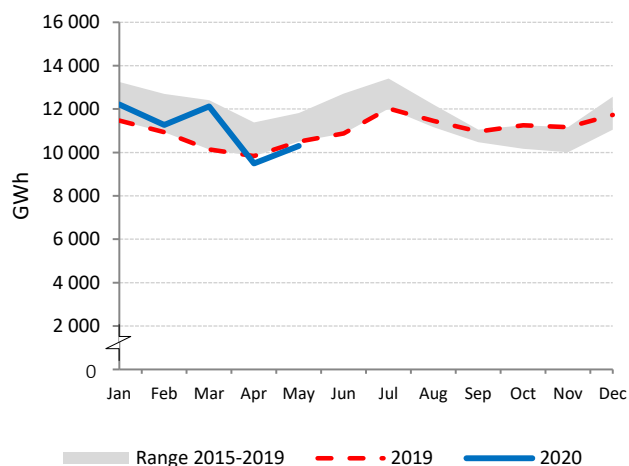
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-----------------------------|---------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 6 906 | -2.9% | 6.4% | 67.1% | 38 168 | 37 709 | 1.2% | 91 369 | 69.0% |
| Coal | 39 | -61.5% | - | 0.4% | 638 | 234 | 172.8% | 1 187 | 0.9% |
| Oil | 16 | -57.7% | 39.4% | 0.2% | 1 240 | 1 235 | 0.4% | 3 282 | 2.5% |
| Natural Gas | 6 719 | -1.8% | 5.7% | 65.3% | 35 714 | 35 750 | -0.1% | 85 282 | 64.4% |
| Combustible Renewables | 131 | 5.0% | 10.3% | 1.3% | 576 | 490 | 17.5% | 1 618 | 1.2% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | 1 023 | 21.2% | 3.9% | 9.9% | 4 556 | 2 529 | 80.1% | 8 002 | 6.0% |
| Hydro | 1 568 | -27.9% | 17.6% | 15.2% | 8 901 | 10 950 | -18.7% | 27 253 | 20.6% |
| Wind | 724 | 120.0% | 19.1% | 7.0% | 3 316 | 1 481 | 123.8% | 4 960 | 3.7% |
| Solar | 72 | 72.2% | -9.3% | 0.7% | 440 | 227 | 94.3% | 795 | 0.6% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 2 495 | -6.5% | 16.6% | 24.2% | 13 233 | 13 148 | 0.6% | 34 625 | 26.2% |
| NON-RENEWABLES | 7 798 | -0.4% | 6.0% | 75.8% | 42 147 | 39 748 | 6.0% | 97 754 | 73.8% |
| TOTAL NET PRODUCTION | 10 293 | -2.0% | 8.4% | | 55 380 | 52 896 | 4.7% | 132 379 | |

¹ current month to month of last year change

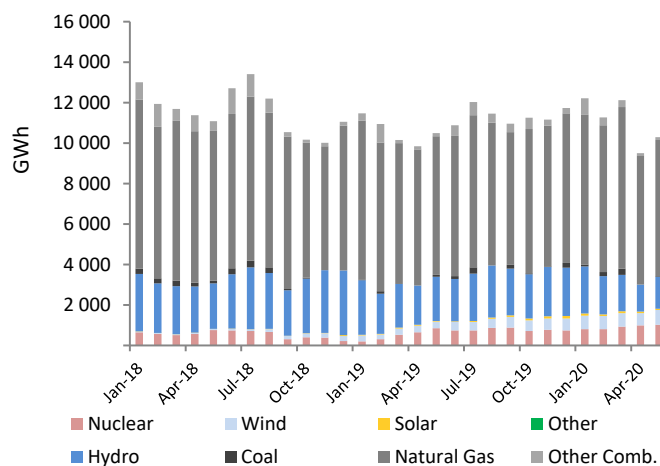
² month-to-month change

³ year-to-date compared to same period last year

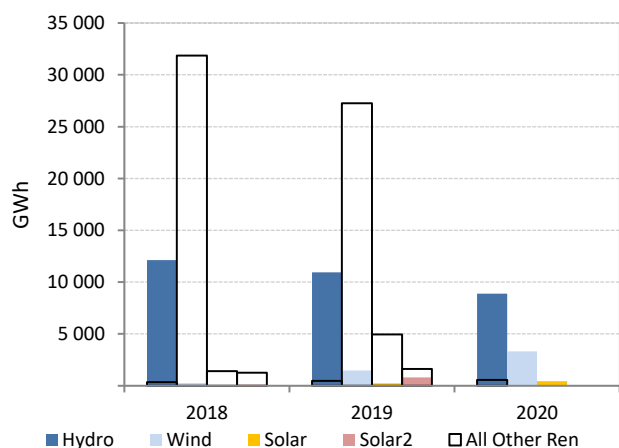
Electricity Production



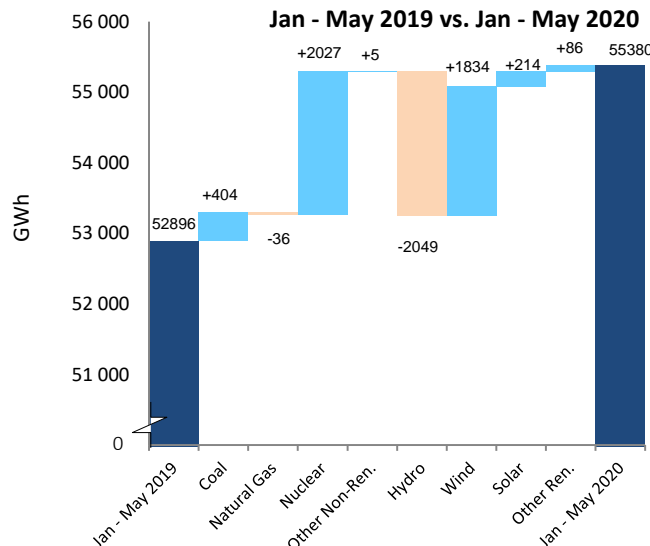
Electricity Production by Fuel



Low-carbon Power Jan - May



Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



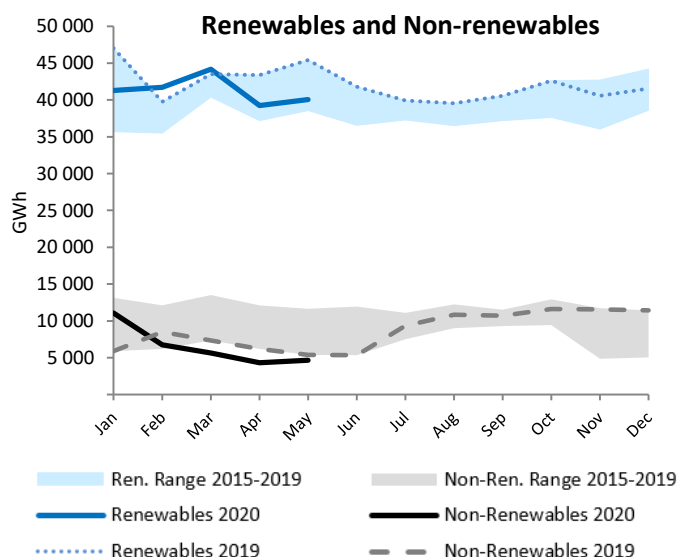
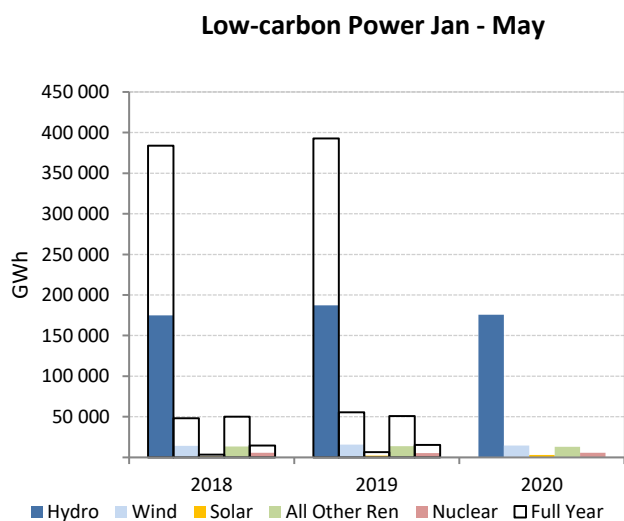
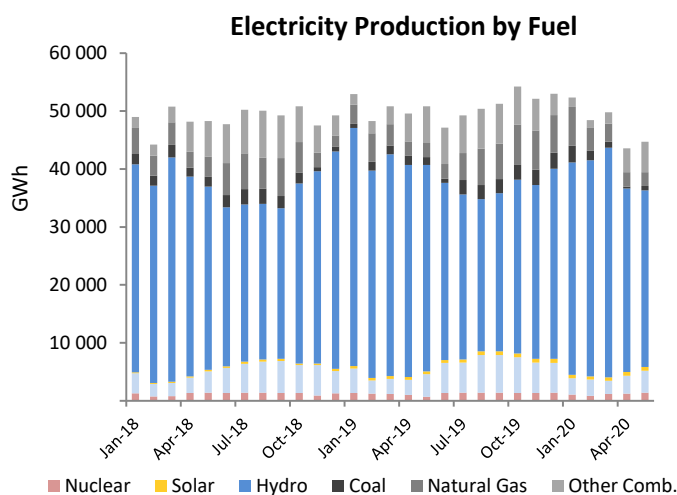
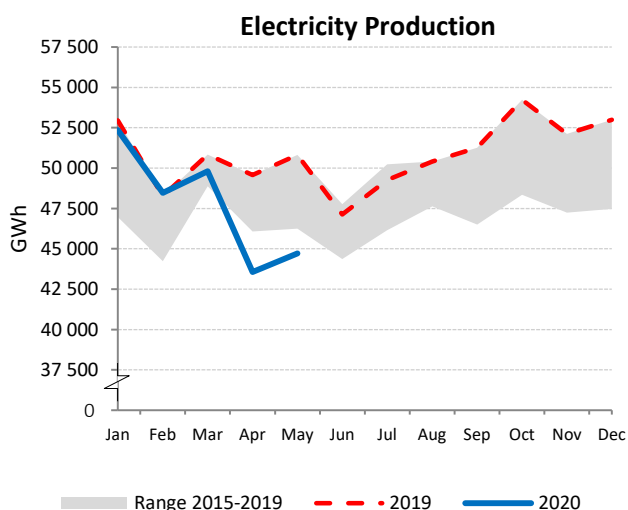
BRAZIL

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-----------------------------|---------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|----------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 8 425 | -16.7% | 22.1% | 18.8% | 39 556 | 41 634 | -5.0% | 139 682 | 22.9% |
| Coal | 767 | -42.6% | 138.7% | 1.7% | 6 609 | 6 595 | 0.2% | 22 606 | 3.7% |
| Oil | 124 | -86.2% | -52.3% | 0.3% | 1 380 | 4 326 | -68.1% | 9 595 | 1.6% |
| Natural Gas | 2 386 | -2.6% | -3.4% | 5.3% | 18 605 | 16 895 | 10.1% | 56 727 | 9.3% |
| Combustible Renewables | 5 148 | -5.2% | 33.7% | 11.5% | 12 962 | 13 819 | -6.2% | 50 753 | 8.3% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | 1 387 | 91.5% | 9.5% | 3.1% | 5 825 | 5 513 | 5.7% | 15 224 | 2.5% |
| Hydro | 30 434 | -14.5% | -3.9% | 68.1% | 175 706 | 187 309 | -6.2% | 392 716 | 64.4% |
| Wind | 3 813 | -2.0% | 24.2% | 8.5% | 14 675 | 15 615 | -6.0% | 55 571 | 9.1% |
| Solar | 663 | 35.5% | 0.5% | 1.5% | 3 141 | 2 347 | 33.8% | 6 615 | 1.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 40 059 | -11.8% | 2.1% | 89.6% | 206 484 | 219 090 | -5.8% | 505 656 | 82.9% |
| NON-RENEWABLES | 4 664 | -13.7% | 8.0% | 10.4% | 32 418 | 33 328 | -2.7% | 104 153 | 17.1% |
| TOTAL NET PRODUCTION | 44 723 | -12.0% | 2.7% | | 238 902 | 252 419 | -5.4% | 609 808 | |

¹ current month to month of last year change

² month-to-month change

³ year-to-date compared to same period last year



CHINA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-------------------------------------|----------------|---------------------|---------------------|--------------|------------------|------------------|---------------------|------------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 406 146 | 10.1% | 6.4% | 68.5% | 1 907 275 | 1 955 908 | -2.5% | 4 929 609 | 69.1% |
| Coal ⁴ | 381 493 | 11.6% | 6.4% | 64.3% | 1 792 401 | 1 812 175 | -1.1% | 4 567 347 | 64.0% |
| Oil ⁴ | 848 | 11.0% | 6.4% | 0.1% | 3 961 | 4 052 | -2.2% | 10 213 | 0.1% |
| Natural Gas ⁴ | 15 910 | -11.6% | 6.4% | 2.7% | 73 822 | 95 431 | -22.6% | 240 522 | 3.4% |
| Combustible Renewables ⁴ | 6 756 | -7.1% | 6.4% | 1.1% | 31 741 | 38 537 | -17.6% | 97 127 | 1.4% |
| Other Combustibles ⁴ | 1 139 | 5.6% | 6.4% | 0.2% | 5 349 | 5 713 | -6.4% | 14 399 | 0.2% |
| Nuclear | 29 675 | 14.7% | 1.0% | 5.0% | 133 442 | 125 576 | 6.3% | 331 265 | 4.6% |
| Hydro | 91 700 | -17.8% | 13.7% | 15.5% | 381 460 | 436 781 | -12.7% | 1 254 465 | 17.6% |
| Wind⁵ | 42 004 | 4.1% | 8.0% | 7.1% | 193 226 | 183 916 | 5.1% | 401 643 | 5.6% |
| Solar⁵ | 23 458 | 15.2% | 0.7% | 4.0% | 105 050 | 86 845 | 21.0% | 217 377 | 3.0% |
| Geothermal | 10 | - | - | 0.0% | 48 | 49 | -1.3% | 118 | 0.0% |
| Other Renewables | 1 | - | - | 0.0% | 4 | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 163 929 | -8.7% | 9.9% | 27.6% | 711 530 | 746 127 | -4.6% | 1 970 730 | 27.6% |
| NON-RENEWABLES | 429 065 | 10.7% | 6.0% | 72.4% | 2 008 976 | 2 042 947 | -1.7% | 5 163 747 | 72.4% |
| TOTAL NET PRODUCTION | 592 995 | 4.6% | 7.1% | | 2 720 505 | 2 789 074 | -2.5% | 7 134 477 | |

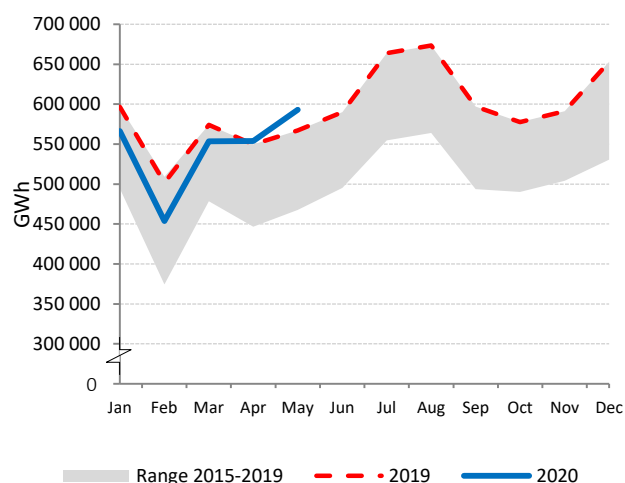
¹ current month to month of last year change

⁴ estimated from annual data

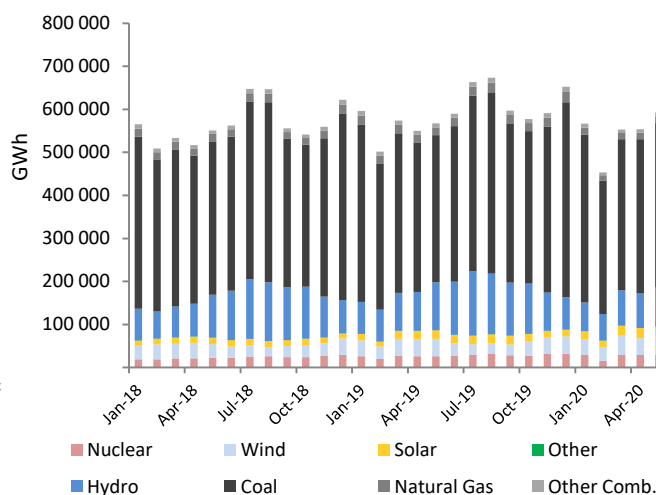
² month-to-month change

³ year-to-date compared to same period last year

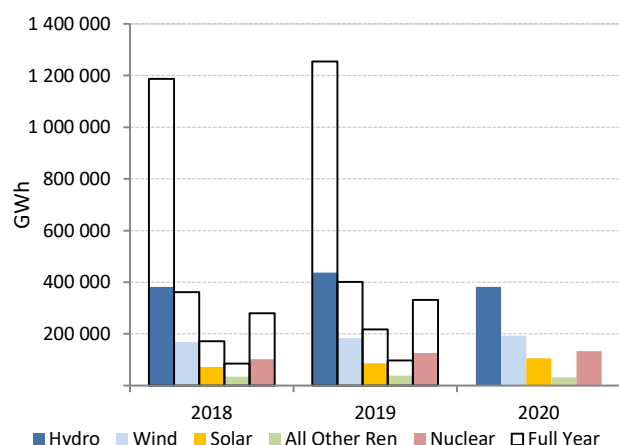
Electricity Production



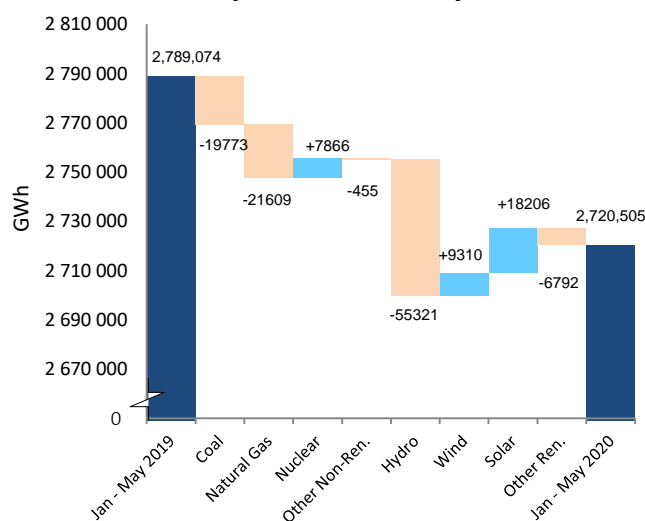
Electricity Production by Fuel



Low-carbon Power Jan - May



Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



CROATIA

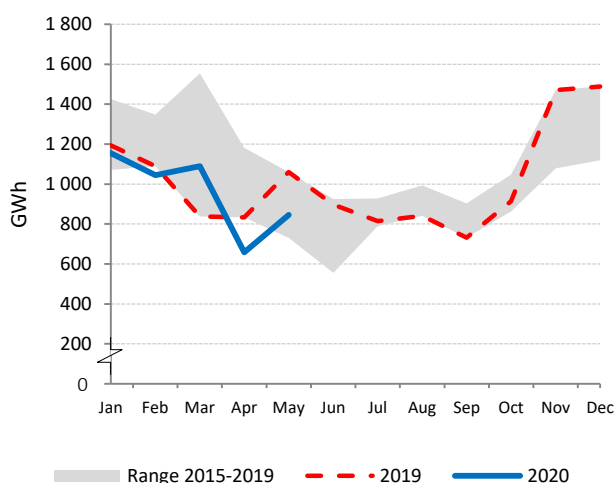
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-----------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 316 | 14.6% | 78.5% | 37.3% | 1 823 | 1 868 | -2.5% | 4 749 | 39.0% |
| Coal | - | - | - | - | 238 | 650 | -63.4% | 1 507 | 12.4% |
| Oil | 1 | -78.8% | -34.0% | 0.1% | 3 | 4 | -19.2% | 32 | 0.3% |
| Natural Gas | 236 | 211.6% | 128.0% | 27.9% | 1 214 | 897 | 35.4% | 2 405 | 19.8% |
| Combustible Renewables | 79 | 12.9% | 9.2% | 9.3% | 367 | 318 | 15.4% | 804 | 6.6% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | - | - | - | - | - | - | - | - | - |
| Hydro | 337 | -48.5% | 0.5% | 39.8% | 2 153 | 2 409 | -10.6% | 5 859 | 48.1% |
| Wind | 179 | 49.7% | 36.5% | 21.2% | 759 | 686 | 10.6% | 1 431 | 11.8% |
| Solar | 10 | 22.9% | -10.1% | 1.1% | 36 | 31 | 15.6% | 83 | 0.7% |
| Geothermal | 5 | 4.2% | 7.9% | 0.6% | 24 | 21 | 14.0% | 51 | 0.4% |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 609 | -28.8% | 10.0% | 72.0% | 3 338 | 3 465 | -3.7% | 8 229 | 67.6% |
| NON-RENEWABLES | 237 | 15.2% | 126.4% | 28.0% | 1 455 | 1 550 | -6.1% | 3 944 | 32.4% |
| TOTAL NET PRODUCTION | 846 | -20.2% | 28.5% | | 4 794 | 5 015 | -4.4% | 12 173 | |

¹ current month to month of last year change

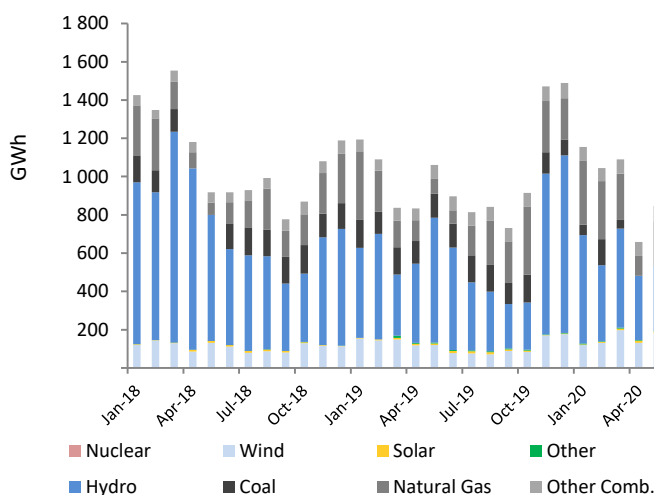
² month-to-month change

³ year-to-date compared to same period last year

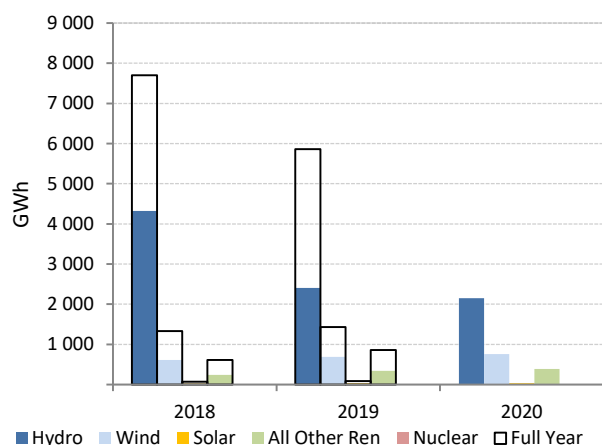
Electricity Production



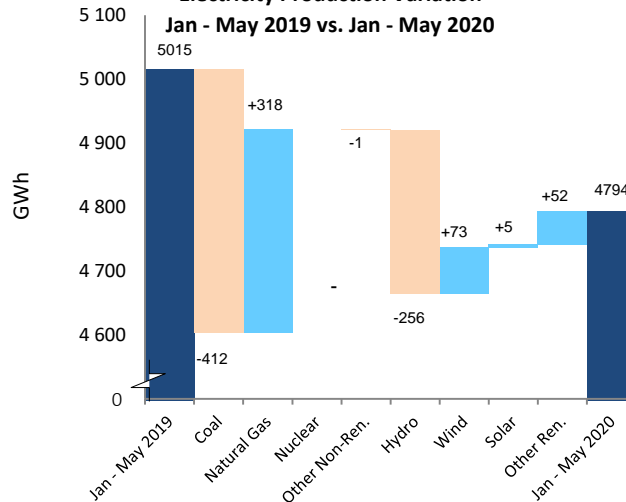
Electricity Production by Fuel



Low-carbon Power Jan - May



Electricity Production Variation



INDIA

| | May 2020 | | | | Year-to-Date | | | 2019 | |
|---------------------------------|----------------|---------------------|---------------------|--------------|----------------|----------------|---------------------|------------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 88 501 | -21.2% | 14.5% | 73.8% | 469 751 | 527 478 | -10.9% | 1 183 019 | 78.7% |
| Coal | 77 634 | -23.0% | 17.3% | 64.8% | 412 611 | 470 748 | -12.3% | 1 066 480 | 70.9% |
| Oil ⁴ | 732 | -24.2% | 3.3% | 0.6% | 3 296 | 3 282 | 0.4% | 6 900 | 0.5% |
| Natural Gas | 7 251 | 17.4% | 7.6% | 6.0% | 29 672 | 27 122 | 9.4% | 66 588 | 4.4% |
| Combustible Renewables | 2 826 | -33.2% | -21.1% | 2.4% | 23 879 | 26 033 | -8.3% | 42 347 | 2.8% |
| Other Combustibles ⁴ | 59 | - | - | 0.0% | 293 | 293 | - | 703 | 0.0% |
| Nuclear | 3 595 | 0.4% | -1.6% | 3.0% | 17 347 | 15 523 | 11.7% | 42 599 | 2.8% |
| Hydro | 15 367 | 1.3% | 37.6% | 12.8% | 55 672 | 52 628 | 5.8% | 167 836 | 11.2% |
| Wind | 6 728 | 73.6% | 80.9% | 5.6% | 21 490 | 16 808 | 27.9% | 63 537 | 4.2% |
| Solar | 5 678 | 34.5% | 5.0% | 4.7% | 26 588 | 19 913 | 33.5% | 46 226 | 3.1% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 30 599 | 11.3% | 28.2% | 25.5% | 127 629 | 115 382 | 10.6% | 319 945 | 21.3% |
| NON-RENEWABLES | 89 270 | -20.0% | 15.4% | 74.5% | 463 219 | 516 969 | -10.4% | 1 183 271 | 78.7% |
| TOTAL NET PRODUCTION | 119 869 | -13.8% | 18.4% | | 590 847 | 632 351 | -6.6% | 1 503 216 | |

¹ current month to month of last year change

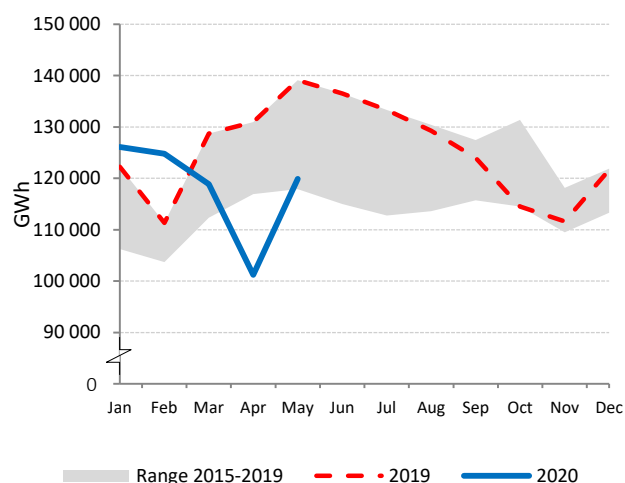
² month-to-month change

³ year-to-date compared to same period last year

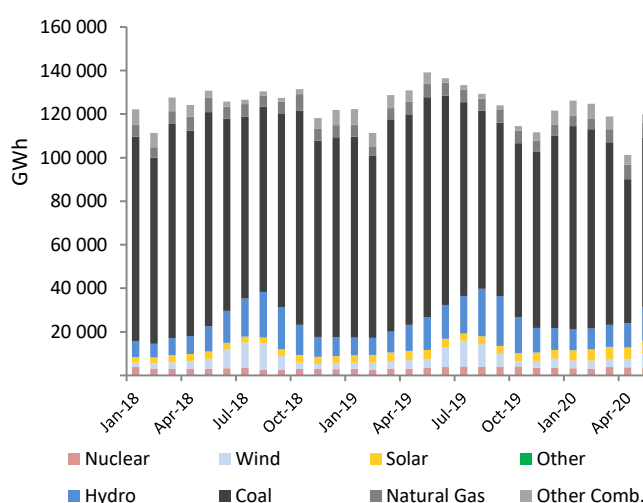
⁴ estimated from annual data

Distributed generation is estimated by the IEA Secretariat

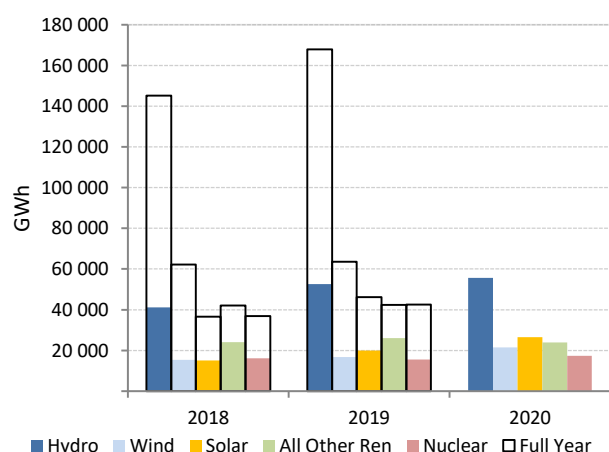
Electricity Production



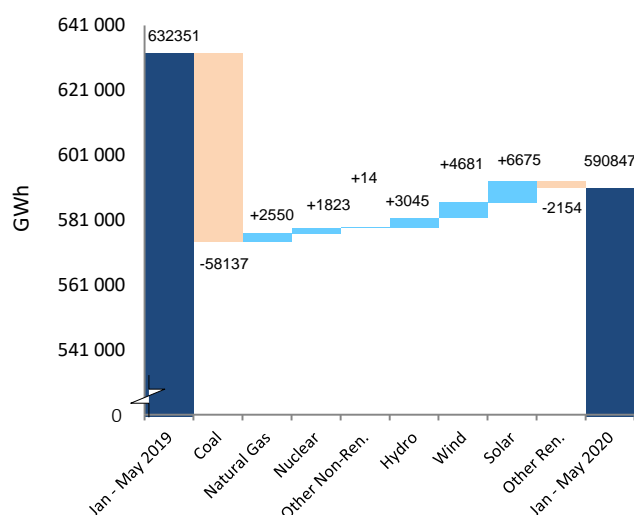
Electricity Production by Fuel



Low-carbon Power Jan - May



Electricity Production Variation Jan - May 2019 vs. Jan - May 2020



ROMANIA

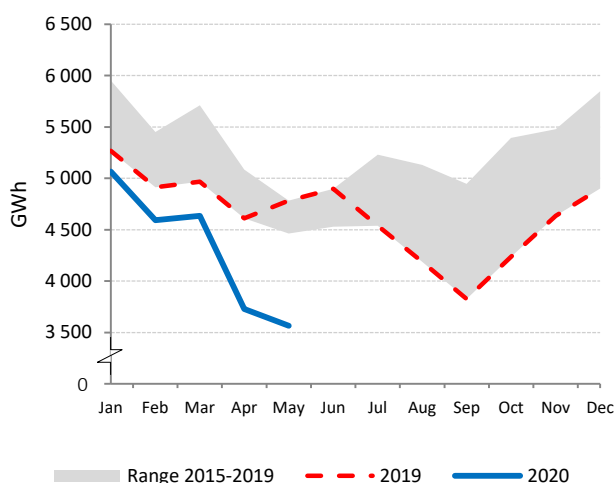
| | May 2020 | | | | Year-to-Date | | | 2019 | |
|-----------------------------|--------------|---------------------|---------------------|--------------|---------------|---------------|---------------------|---------------|--------------|
| | GWh | change ¹ | change ² | share | 2020 | 2019 | change ³ | GWh | share |
| CONVENTIONAL THERMAL | 701 | -44.3% | -15.9% | 19.7% | 6 962 | 9 280 | -25.0% | 21 307 | 38.2% |
| Coal | 398 | -57.7% | -2.6% | 11.2% | 3 155 | 5 246 | -39.9% | 12 303 | 22.1% |
| Oil | 37 | 66.7% | 25.0% | 1.0% | 157 | 329 | -52.3% | 508 | 0.9% |
| Natural Gas | 229 | -13.7% | -35.8% | 6.4% | 3 432 | 3 526 | -2.7% | 8 089 | 14.5% |
| Combustible Renewables | 36 | 27.8% | -4.2% | 1.0% | 218 | 179 | 21.6% | 407 | 0.7% |
| Other Combustibles | - | - | - | - | - | - | - | - | - |
| Nuclear | 963 | 97.5% | 2.9% | 27.0% | 4 747 | 4 145 | 14.5% | 10 354 | 18.6% |
| Hydro | 1 055 | -54.2% | -5.8% | 29.6% | 5 581 | 7 147 | -21.9% | 15 619 | 28.0% |
| Wind | 658 | 20.3% | 5.6% | 18.5% | 3 560 | 3 265 | 9.0% | 6 705 | 12.0% |
| Solar | 189 | 0.5% | -12.6% | 5.3% | 735 | 705 | 4.3% | 1 777 | 3.2% |
| Geothermal | - | - | - | - | - | - | - | - | - |
| Other Renewables | - | - | - | - | - | - | - | - | - |
| Non-Specified | - | - | - | - | - | - | - | - | - |
| RENEWABLES | 1 937 | -36.8% | -2.9% | 54.3% | 10 094 | 11 297 | -10.6% | 24 508 | 44.0% |
| NON-RENEWABLES | 1 628 | -5.2% | -6.0% | 45.7% | 11 491 | 13 246 | -13.2% | 31 254 | 56.0% |
| TOTAL NET PRODUCTION | 3 565 | -25.5% | -4.4% | | 21 585 | 24 542 | -12.0% | 55 763 | |

¹ current month to month of last year change

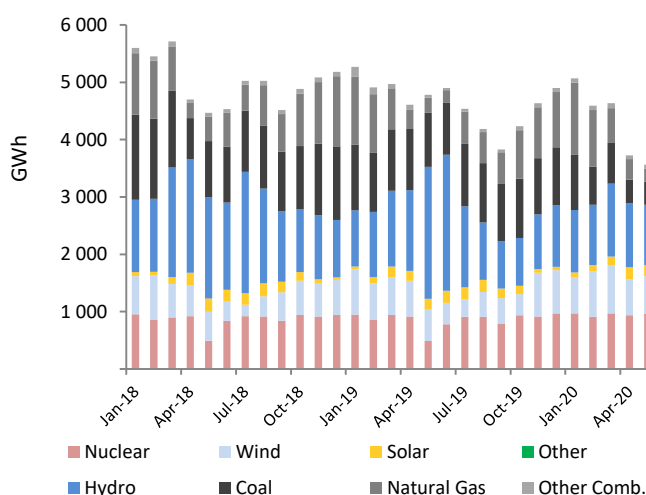
² month-to-month change

³ year-to-date compared to same period last year

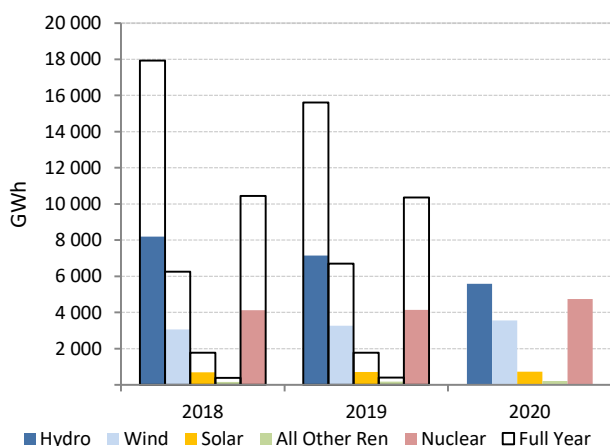
Electricity Production



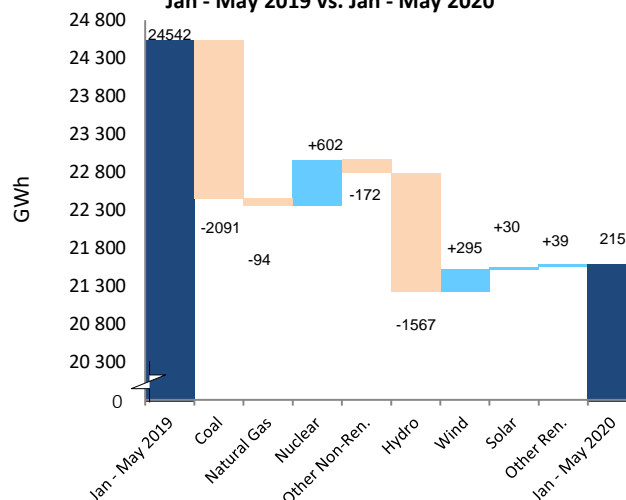
Electricity Production by Fuel



Low-carbon Power Jan - May



**Electricity Production Variation
Jan - May 2019 vs. Jan - May 2020**



PRINCIPLES AND DEFINITIONS

The IEA's Monthly Electricity Statistics provides timely electricity production and trade data for member countries of the Organisation for Economic Co-operation and Development (OECD). It aims to report as up-to-date and consistent information as possible for the last three months. It also provides previous annual data and year-to-date indicators.

Starting in April 2020, the Monthly Electricity Statistics include a separate annex containing a selection of 6 additional economies, including 3 IEA Association countries. This addition provides production data for the selected countries with the same aim of reporting as up-to-date and consistent information as possible for the last three months. It also provides previous annual data and year-to-date indicators. The countries shown in this annex are not included in the aggregate totals in other

General notes

- Electricity production and trade data are reported at the individual country level as well as in organisational and regional groupings. These groupings include: OECD Total, OECD Americas, OECD Asia Oceania, OECD Europe and IEA Total.
- The units are terawatt hours (TWh) for the regional groupings and gigawatt hours (GWh) for the individual countries.
- The grouping of electricity generation by source reflects available monthly data and/or small individual quantities.
- Definitions are consistent with the IEA's "Electricity and Heat" annual questionnaire. Statistics are subject to revision on official receipt of the annual questionnaire from national administrations or on improved data becoming available.
- To enable timely publication, the IEA may supplement national statistics with data from other sources.
- Where adequate information is not available from external sources, estimates have been made by the IEA. Methodological notes are provided in individual country pages or the country notes section.
- All figures for individual countries are reported to the nearest whole number and totals may not equal the sum of components due to rounding.
- Note that historic data are often recalculated. Therefore, the latest publication should be considered the most accurate. Regional and organisational summaries may also change based on country recalculations.
- Countries' submitted monthly data is adjusted proportionately to maintain consistency with the most recent annual data for each generation source.

Basic definitions

| | |
|---|---|
| <i>Net Production</i> | Net generation excludes power station own use. |
| <i>Combustible Fuels/ Conventional Thermal</i> | Production from fossil fuels (primary coal, coal products, peat and peat products, oil shale and oil sands, crude oil, NGL, oil products, natural gas) and combustible renewables and wastes (solid biofuels, biogases, liquid biofuels, industrial and municipal waste). |
| <i>Coal</i> | Production from primary coal, coal products, peat and peat products, oil shale and oil sands, and manufactured gas (such as coke-oven gas, blast-furnace gas and gas works gas). |
| <i>Oil</i> | Production from crude oil, natural gas liquids, refinery feedstocks, and petroleum products (such as refinery gases and fuel oil). |
| <i>Natural Gas</i> | Production from natural gas (including gas distributed via the grid that may contain very little amounts of blended other gases). |
| <i>Combustible Renewables</i> | Production from combustible renewables (such as solid biofuels, biogases, liquid biofuels, municipal renewable waste). |
| <i>Other Combustible Fuels (non-renewables)</i> | Production from all other combustible fuels (such as industrial and non-renewable municipal solid waste). |

| | |
|-------------------------|--|
| <i>Nuclear</i> | Electricity produced using heat generated from nuclear fission. |
| <i>Hydro</i> | Net generation from hydro facilities including pumped storage production. |
| <i>Wind</i> | Electricity generated in on-shore and off-shore wind turbines using kinetic energy of wind. |
| <i>Solar</i> | Electricity generated using solar radiation. Includes thermal and photovoltaic. |
| <i>Geothermal</i> | Electricity generated using heat emitted from within the earth's crust, usually in the form of hot water or steam. |
| <i>Other Renewables</i> | Electricity generated from tide, wave, ocean and other non-combustible sources. |
| <i>Non-Specified</i> | Not elsewhere reported electricity generation. |

| | |
|---|---|
| <i>Renewables</i> | Includes electricity generation from Hydro, Wind, Solar, Geothermal, Other Renewables and Combustible Renewables |
| <i>Non-Renewables</i> | Includes electricity generation from Coal, Oil, Natural Gas, Other Combustibles, Nuclear and Non-specified sources. |
| <i>Total Net Production</i> | The sum of indigenous net electricity production by energy source. |
| <i>Imports/ Exports</i> | Amounts of electricity that have crossed political boundaries of the country, a.k.a. physical flows, whether customs clearance has taken place or not. |
| <i>Net Exports</i> | Exports minus imports |
| <i>Electricity supplied</i> | Indigenous production + Imports - Exports. It includes Transmission and Distribution losses |
| <i>Used for Pumped Storage</i> | Electricity consumed by pumping water into a reservoir in mixed and pure pumped storage hydro plants. |
| <i>Transmission and Distribution Losses/ T&D Losses</i> | All losses due to transport and distribution of electrical energy. Losses in transformers which are not considered as integral parts of the power plants are also included. |
| <i>Electricity consumed</i> | Electricity available (calculated as: Indigenous production + Imports - Exports - used for pumped storage - Transmission and distribution losses) |
| <i>Low-carbon Power Generation</i> | Renewables plus Nuclear electricity generation. |
| <i>Year</i> | Calendar year (January to December) unless otherwise stated. |
| <i>Year-to-Date</i> | The sum of all months from the start of the calendar year to the latest month. |

Regional Groupings

- OECD Total includes Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Spain, Sweden, the Slovak Republic, Slovenia, Switzerland, Turkey, the United Kingdom and the United States.
- Israel is not included in this report.
- OECD Americas includes Canada, Chile, Mexico and the United States.
- OECD Asia Oceania includes Australia, Japan, Korea and New Zealand.
- OECD Europe includes Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, the Netherlands, Norway, Poland, Portugal, the Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.
- IEA includes all countries included in OECD Total except Chile, Iceland, Latvia, Lithuania and Slovenia.

Publication details and further information

- This publication is released in the middle of each month onto the IEA's Website: <https://www.iea.org/reports/monthly-oecd-electricity-statistics/>
- Subscriptions to this publication are available at <http://mailing.iea.org>
- Data should not be reproduced for publication without permission of the IEA.
- Please note that all IEA data are subject to the following Terms and Conditions found on the IEA's website: <http://www.iea.org/terms>

NOTES ON CHARTS AND MAPS

Tables

- The share of fuels in power generation for the previous year corresponds to the latest available year of annual data for the given granularity.

Chart Types

Electricity Production Chart

- Compares the evolution of total electricity production against the latest decade of historical data as well as the previous year.

Net Exports Chart

- Compares the evolution of net exports (exports - imports) of electricity against the latest decade of historical data as well as the previous year.

Electricity Production by Fuel Chart

- Shows the power fuel mix since January two years before the current year (25-36 months depending on the publication month).
- In this context, "Other Comb." includes Other Combustibles, Combustible Renewables and Oil.
- In this context, "Other" includes Geothermal, Other Renewables, Non Specified.
- Countries with an estimated combustibles' breakdown have a generic "Combustibles" category in this chart.

Low-carbon Power Chart

- Depicts low-carbon power generation for the year-to-date, the same period the last year as well as two years before. Also shows full year figures for the previous two years.
- When relevant, nuclear generation will be shown.
- In this context, "All Other Ren" includes Geothermal, Other Renewables and Combustible Renewables.

Electricity Production Variation Chart

- A waterfall chart showing how one can reach the electricity generation of the year-to-date having as a starting point the electricity generation of the same period in the previous year.
- In the case that coal and natural gas are only estimated, the waterfall chart for these categories will show no change and they will be aggregated under Other Non-Ren.

Fuel Switching Chart

- A chart comparing head-to-head two fuels (e.g. Natural Gas vs. Coal) or fuel categories (e.g. Renewables vs. Non-Renewables) and their 10 year ranges as well as the previous year.

Maps

- The maps in the main report are solely for illustrative purposes and currently cover trade in OECD Europe.
- No electricity trade takes place in OECD Asia Oceania countries.
- **Map 1:** Electricity Trade by country in the current month year versus the same month last year.
- **Map 2:** Electricity Trade by country Year-to-Date versus the same period last year.
- Iceland is not displayed in the OECD Europe maps as it does not trade electricity.

COUNTRY NOTES

Monthly Electricity Statistics is consistent with historical annual data.

Please refer to Principles and Definitions.

For certain countries the most recent data may be estimated. See below for details.

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AUSTRALIA

Excludes the overseas territories.

Monthly data are adjusted according to data submitted on a fiscal year basis beginning 1st of July and ending 31st of June.

Monthly reporting did not include production from other combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2009.

Monthly reporting did not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2004 until December 2015.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January until December 2004 until December 2015.

Annual data shown are the sum of months and may differ from publications referring to Australian fiscal year (July-June).

AUSTRIA

Monthly reporting does not include production from geothermal, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

The last coal power plant in Austria closed in April 2020. From then on, coal production comes from autoproducer CHP plants and is mainly from coal products.

BELGIUM

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2005 until December 2005.

Monthly reporting did not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission from January 2005 to December 2013.

The last main activity coal power plant closed in March 2016. From then on, coal production in Belgium is mainly from manufactured gases.

CANADA

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until August 2011.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2007.

Monthly reporting did not include production from other non combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2007.

Continually increasing levels of wind and solar coverage since January 2017 until December 2018.

New methodology and higher coverage since April 2019 (starting with MES January 2019 publication). Reviewed data back to January 2016.

CHILE

Net production is estimated from monthly submission of gross production until December 2010.

Monthly reporting does not include trade data, therefore they are estimated by the IEA Secretariat based on annual submission.

Annual data for 2014 were estimated by the IEA Secretariat.

Chile was added to the MES report in February 2011. Historical data are available only from January 2006.

CZECH REPUBLIC

Monthly reporting did not include production from other non combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission from January 2004 until December 2008.

DENMARK

Excludes the Faroe Islands and Greenland.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2010.

Monthly reporting did not include production from other non combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2004.

ESTONIA

Net production is estimated from monthly submission of gross production by the IEA Secretariat.

Estonia was added to the MES report in April 2011. Historical data are available only from January 2006.

FINLAND

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2000.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission from January 2000.

FRANCE

Includes Monaco. Since January 2018 it includes the French overseas territories: French Polynesia, Guadeloupe, Guyane, Martinique, New Caledonia, Reunion, Saint Pierre and Miquelon.

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2000.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2000.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2004.

GERMANY

Combustible Fuels production is estimated from monthly submissions of production from main electricity producers.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2001.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2001.

Due to an increase in survey coverage since January 2017, the level of production and the growth rate shown may be different than actual.

GREECE

Monthly reporting did not include production from other combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission from January 2008 until December 2009.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2004 until December 2010.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2007.

HUNGARY

Net production was estimated from monthly submission of gross production through December 2015.

Monthly reporting does not include production from oil, therefore it is estimated by the IEA Secretariat based on annual submission since January 2009.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2008 until December 2010.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2005.

ICELAND

Net production has been estimated from monthly submission of gross production through December 2015 by the IEA Secretariat.

IRELAND

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January until December 2001.

ITALY

Includes San Marino and the Vatican.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2005.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2005 until December 2009.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2005 until December 2009.

JAPAN

Monthly data are adjusted according to data submitted on a fiscal year basis beginning 1st of April and ending 31st of March.

Net production is estimated from monthly submission of gross production of main electricity producers.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2002.

Annual data shown are the sum of months and may differ from publications referring to Japanese fiscal year (April-March).

Since April 2017 electricity generation from biomass and was is reported in the coal category if it's co-fired with this fuel, and in combustible renewables if the combustion is mono-fuel.

Since April 2017 coal category included coal, bituminous mixture, natural gas (other than LNG), coke-oven gas and city gas.

Hydro generation includes plants with capacity of 1MW and over.

KOREA

Net production is estimated from monthly submission of gross production by the IEA Secretariat.

Monthly reporting of electricity production does not include autoproducers, therefore it is estimated by the IEA Secretariat based on annual submission.

Monthly reporting does not include production from wind, therefore it is estimated by the IEA Secretariat based on annual submission since January 2004.

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2004.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2004.

LATVIA

Latvia was added to the MES report in January 2017. Historical data are available only from January 2010.

The strong hydro performance in 2017-2018 agrees with historical patterns and is due to environmental reasons, most notably the increased inflow in the Daugava River.

LITHUANIA

Monthly data available since January 2008.

LUXEMBOURG

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

Production data for March 2018 are estimated by the IEA Secretariat.

The Twinerg CCGT plant has been idle since April 2016 and was decommissioned in October 2016. This has caused decreased production from combustible fuels and, consequently, a decrease in exports.

MEXICO

Monthly reporting of electricity production does not include autoproducers, therefore it is estimated by the IEA Secretariat based on annual submission.

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission from January 2003 - December 2013.

Monthly reporting does not include production from wind, therefore it is estimated by the IEA Secretariat based on annual submission from January 2003 - December 2013. Since December 2018 the data submission includes wind data, so it is no longer estimated.

Installations under 500 kW are not included in the reporting data, therefore it is estimated by the IEA Secretariat based on annual submission.

Electricity trade data is estimated by Mexico administration. It may be inconsistent with US data flows. This data is currently under review.

In December 2018 a new data source was used by Mexico and some data are under review and improvement, therefore 2017 and 2018 data may be inconsistent with previous publications.

Monthly electricity production data does not include trade data and transmission and distribution losses which are estimated by the IEA Secretariat.

NETHERLANDS

Excludes Suriname and the territory of the Former Netherlands Antilles.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2000.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2000 until December 2009.

There was no nuclear production in May and June 2017 due to plant maintenance. The nuclear production resumed in July 2017.

NEW ZEALAND

Monthly submissions only include main electricity producers, which supposes a 95% coverage. The rest of the electricity generation is estimated by the IEA Secretariat based on the annual submissions.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2002.

NORWAY

Net production is estimated from monthly submission of gross production through December 2015 by the IEA Secretariat.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

Natural gas figures for May and June 2018 are confidential.

POLAND

Monthly reporting does not include production from oil, therefore it is estimated by the IEA Secretariat based on annual submission since January 2009 until December 2016.

Oil figures are confidential since January 2017.

PORTUGAL

Includes the Açores and Madeira since January 2015.

Monthly reporting did not include production from geothermal, therefore it is estimated by the IEA Secretariat based on annual submission since January 2004 until December 2014.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2004 until December 2008.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2004 until December 2008.

SLOVAK REPUBLIC

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission since January 2010 until December 2016.

Monthly reporting does not include production from wind, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

Monthly reporting does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2003.

SLOVENIA

Slovenia was added to the MES report in April 2011. Historical data are available only from January 2009.

SPAIN

Includes the Canary Islands, Balear Islands, Ceuta and Melilla.

Monthly reporting did not include production from other non combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission since January 2004 until December 2015.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2004 until December 2008.

SWEDEN

Monthly reporting does not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission since January 2000.

The last coal-fired power plant in Sweden closed in April 2020.

SWITZERLAND

Excludes Liechtenstein.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2009.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2009.

In 2016 and 2017 a small nuclear power plant was out-of-order in the second half of the year, and restarted in March 2018. In addition, a big nuclear power plant had in the second half of 2016 and 2017 a longer revision period in contrast to the normal revision in 2018.

TURKEY

Monthly submission does not include production from other non combustible fuels, therefore it is estimated by the IEA Secretariat.

UNITED KINGDOM

Monthly reporting does not include production from other combustible fuels, therefore it is estimated by the IEA Secretariat based on annual submission since January 2001.

Monthly reporting did not include production from solar, therefore it is estimated by the IEA Secretariat based on annual submission from January 2001 until December 2009.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2001 until December 2006.

Monthly reporting did not include exports, therefore they were estimated by the IEA Secretariat based on annual submission from January 2001 until December 2002.

UNITED STATES

Includes the 50 States, the District of Columbia and Puerto Rico.

Monthly reporting did not include production from geothermal, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2005.

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2005.

Monthly reporting did not include production from wind, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2005.

Monthly reporting did not include production from other non combustible fuels, therefore it was estimated by the IEA Secretariat based on annual submission from January 2003 until December 2005.

Electricity trade data has been estimated by the U.S. administration since July 2017. It may be inconsistent with the trade data from Mexico. This data is currently under review.

Selected Association countries and other non-OECD Economies

Monthly Electricity Statistics is consistent with historical annual data.

Monthly Electricity Statistics for this annex only cover production data, as trade data is not available for all considered countries

ARGENTINA

Monthly production data only include main electricity producers. The rest of the electricity generation is estimated by the IEA Secretariat based on the annual submissions.

Monthly reporting includes Paraguayan hydro production from the Yacyreta binational dam. The Paraguayan share is estimated by the IEA Secretariat then discounted from the total Argentinian hydro production.

BRAZIL

Monthly production data only include main electricity producers. The rest of the electricity generation is estimated by the IEA Secretariat based on the annual submissions.

Monthly reporting includes Paraguayan hydro production from the Itaipu binational dam. The Paraguayan share is estimated by the IEA Secretariat then discounted from the total Brazilian hydro production.

CHINA

Raw monthly production data is collected from the National Bureau of Statistics in gross values. All the data in the MES Report is presented in net values, therefore Chinese net production data is calculated based on IEA Secretariat estimates. Raw production data for the months of January and February is reported combined. The IEA Secretariat have estimated production data for these two months based on annual data and the FGE China Gas Monthly Report.

Monthly reporting did not include disaggregated production from combustible fuels, therefore it is estimated by the IEA Secretariat based on annual data.

Monthly reporting did not include production from geothermal, therefore it is estimated by the IEA Secretariat based on annual data.

Monthly reporting did not include production from other renewables sources, therefore it is estimated by the IEA Secretariat based on annual data.

CROATIA

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2015 until December 2016.

From January 2016 onwards, solar production was included in the monthly reporting.

INDIA

Raw monthly production data is collected from the Central Electricity Authority in gross values. All the data in the MES Report is presented in net values, therefore Indian net production data is calculated based on IEA Secretariat estimates.

Monthly data are adjusted according to data submitted on a fiscal year basis beginning 1st of April and ending 31st of March.

Monthly production data only include main electricity producers. The rest of the electricity generation is estimated by the IEA Secretariat based on the annual submissions.

Monthly reporting did not include production from other combustible fuels, therefore it is estimated by the IEA Secretariat based on annual data.

ROMANIA

Monthly reporting did not include production from solar, therefore it was estimated by the IEA Secretariat based on annual submission from January 2015 until December 2016.

From January 2016 onwards, solar production was included in the monthly reporting.

Statistics report

Overall responsibility

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Statistics

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