

Statistics report

Monthly OECD Electricity Statistics

Next release: 15 July 2020

Data up to March 2020



TABLE OF CONTENTS

	Page #
HIGHLIGHTS	i
<hr/>	
ORGANISATIONAL AND REGIONAL TABLES	
OECD Total	1
OECD Americas	2
OECD Asia Oceania	3
OECD Europe	4
IEA Total	5
<hr/>	
COUNTRY TABLES	
Australia	6
Austria	7
Belgium	8
Canada	9
Chile	10
Czech Republic	11
Denmark	12
Estonia	13
Finland	14
France	15
Germany	16
Greece	17
Hungary	18
Iceland	19
Ireland	20
Italy	21
Japan	22
Korea	23
Latvia	24
Lithuania	25
Luxembourg	26
Mexico	27
Netherlands	28
New Zealand	29
Norway	30
Poland	31
Portugal	32
Slovak Republic	33
Slovenia	34
Spain	35
Sweden	36
Switzerland	37
Turkey	38
United Kingdom	39
United States	40

NET TRADE MAPS

OECD Europe

41 - 42

ANNEX 1 - SELECTED IEA ASSOCIATION COUNTRIES AND OTHER ECONOMIES TABLES

Highlights	44
Argentina	45
Brazil	46
China	47
Croatia	48
India	49
Romania	50

PRINCIPLES AND DEFINITIONS	51-52
-----------------------------------	-------

NOTES ON CHARTS AND MAPS	53
---------------------------------	----

COUNTRY NOTES	54-57
----------------------	-------

MONTHLY ELECTRICITY STATISTICS

March 2020

HIGHLIGHTS

By March 2020, the impacts of country confinement measures due to Covid-19 can be seen on the monthly electricity production 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 March 2020, total net production in the OECD was 850.0 TWh, 3.3% lower than in March 2019. Electricity production during the first quarter of 2020 was 2,645.0 TWh compared to 2,707.7 TWh during the same period in 2019.
- Renewable electricity production was 286.5 TWh, up by 7.1% compared to March 2019. Renewables accounted for 33.7% of total electricity production. During the first three months of 2020, the share of renewable production increased by 10.7% compared to the same period last year and was 844.7 TWh.
- Conventional thermal production was 433.7 TWh in March 2020, 7.9% lower than in March 2019 and 3.8% lower than in February 2020. Conventional thermal production was 1,390.7 TWh during the first quarter of 2020, 8.1% lower than during the same period last year. Coal production was 500.9 TWh over the first three months of 2020, 21.8% lower than over the same period in 2019.

OECD Americas

- Net electricity production in OECD Americas was 401.0 TWh in March 2020, 4.0% lower than in March 2019. Renewable electricity production was 115.5 TWh, 1.7% lower than in February 2020 and accounted for 28.8% of total production. During the first three months of 2020, conventional thermal production was 684.2 TWh with a share of 57.4% of total production, which fell by 7.0%, or 51.8 TWh compared to the same period in 2019.
- In Canada, nuclear production was 8.4 TWh in March 2020, 12.8% higher than in March 2019. During the first three months of 2020, nuclear production was 25.7 TWh, up by 2.0 TWh or 8.6% compared to the same period in 2019. Conventional thermal production on the other hand, was 10.4% lower during the first quarter of 2020 compared to the same period in 2019 and was 33.8 TWh compared to 37.7 TWh in 2019.
- In the United States, coal production in the first quarter of 2020 was the lowest on record, and 181.4 TWh compared to 271.4 TWh during the first quarter in 2019. Coal production decreased by 33.1% and was the main driver of the decrease in conventional thermal production, which was 580.2 TWh during the first quarter of 2020 compared to 631.6 TWh in the first three months of 2019. In March 2020, coal provided 17.3% of the total electricity production, compared to 25.1% in March 2019.

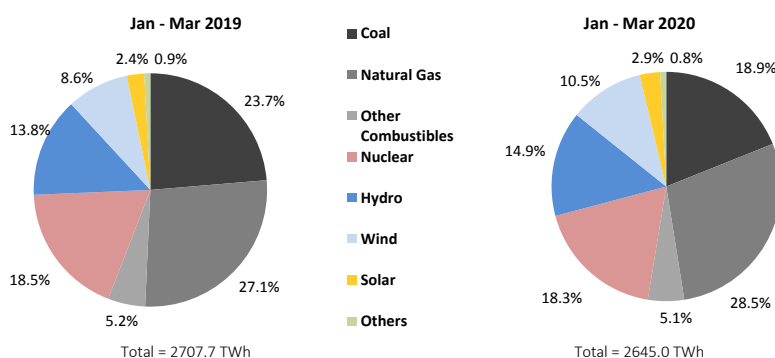
OECD Asia/Oceania

- In OECD Asia/Oceania, net electricity production was 151.8 TWh, down by 3.3% compared to March 2019 and by 1.8% compared to February 2020. Renewable electricity production was 29.0 TWh, 25.1% higher than in March 2019. This increase is driven by hydroelectricity, which was 21.8% higher than in March 2019. During the first quarter of 2020, hydro production was 31.4 TWh compared to 26.1 TWh during the same period in 2019.
- In Korea, coal production decreased by 9.4 TWh, or 15.7% during the first quarter of 2020. In March, coal production was 14.4 TWh, down by 17.4% compared to March 2019 and 15.4% compared to February 2020. This significant decrease is a result of the policy to reduce air pollution by shutting down coal power plants. In early March, Korea announced that up to 28 coal power plants would stop producing electricity in March 2020.

OECD Europe

- Net electricity production in OECD Europe was 297.3 TWh in March 2020, down by 2.5% compared to March 2019 and down by 1.3% compared to February 2020. Renewables provided 142.0 TWh, or 47.7% of total electricity production. As a result of wetter than average conditions, hydro production was 59.1 TWh, 19.8% higher than in March 2019 and 11.1% higher than in February 2020, contributing to the increase in renewable production.
- In Norway, hydro production was 13.0 TWh, 24.2% higher than in March 2019 and 10.2% higher than in February 2020, as precipitation levels were above average in Western Norway. Hydro provided 91.4% of total electricity production, which increased by 26.0% compared to March 2019 to reach 14.2 TWh. As a result, electricity exports increased by 357.8% compared to March 2019, to reach 1,735.4 GWh in March 2020 compared to 379.0 GWh in March 2019.
- Due to the Covid-19 pandemic, strict lockdown measures were implemented in Italy from 9 March 2020. As a consequence of lower demand, net electricity production decreased by 12.0% compared to March 2019 and 8.2% compared to February 2020, down to 20.1 TWh, the lowest production level recorded since 2009. This drop was driven by conventional thermal production which was 12.9 TWh, 16.0% lower than in March 2019 and 11.4% lower than in February 2020.
- In Estonia, electricity production during the first quarter of 2020 was 1,247.8 GWh, 50.3% lower than during the first quarter of 2019. Electricity imports on the other hand have more than doubled, up by 136.2% compared to the first three months of 2019, to reach 1,913.9 GWh. As a result of continued lower natural gas prices and rising carbon prices and because the primary source of electricity in Estonia is coal, imported electricity became more competitive in 2019, and during the first quarter of 2020.

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



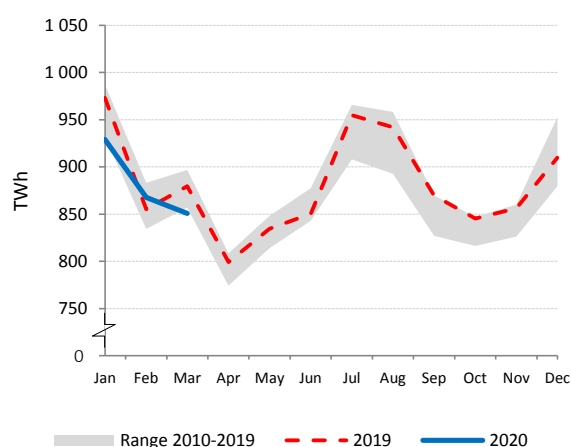
OECD Total

	Mar 2020				Year-to-Date			2019	
	TWh	change ¹	change ²	share	2020	2019	change ³	TWh	share
CONVENTIONAL THERMAL	433.7	-7.9%	-3.8%	51.0%	1 390.7	1 513.2	-8.1%	5 951.8	56.3%
Coal ⁵	151.9	-21.6%	-6.4%	17.9%	500.9	640.8	-21.8%	2 355.6	22.3%
Oil ⁵	12.9	-14.9%	-4.7%	1.5%	41.7	48.7	-14.4%	181.7	1.7%
Natural Gas ⁵	237.8	2.7%	-3.0%	28.0%	754.9	732.5	3.1%	3 066.9	29.0%
Combustible Renewables ⁵	28.1	8.1%	5.6%	3.3%	83.7	77.2	8.5%	307.3	2.9%
Other Combustibles ⁵	3.1	-35.3%	2.3%	0.4%	9.5	14.1	-32.3%	40.2	0.4%
Nuclear	154.8	-5.6%	-0.7%	18.2%	483.9	499.6	-3.1%	1 901.9	18.0%
Hydro	132.8	7.3%	2.9%	15.6%	393.0	373.8	5.1%	1 444.1	13.7%
Wind	88.4	4.0%	-11.3%	10.4%	278.8	233.1	19.6%	832.0	7.9%
Solar	32.6	15.6%	34.4%	3.8%	76.2	64.9	17.5%	349.7	3.3%
Geothermal	4.5	2.3%	11.7%	0.5%	12.8	13.7	-6.7%	51.2	0.5%
Other Renewables	0.1	0.0%	-	0.0%	0.2	0.2	-0.4%	1.0	0.0%
Non-Specified	3.1	2.5%	-1.6%	0.4%	9.4	9.2	2.6%	37.2	0.4%
RENEWABLES	286.5	7.1%	1.0%	33.7%	844.7	762.9	10.7%	2 985.2	28.2%
NON-RENEWABLES	563.5	-7.9%	-3.4%	66.3%	1 800.3	1 944.8	-7.4%	7 583.5	71.8%
TOTAL NET PRODUCTION	850.0	-3.3%	-1.9%		2 645.0	2 707.7	-2.3%	10 568.7	
+ Imports	42.8	-4.0%	0.8%		130.6	129.1	1.2%	487.7	
- Exports	42.4	1.9%	-1.3%		130.7	123.8	5.6%	474.9	
= ELECTRICITY SUPPLIED	850.4	-3.6%	-1.8%		2 644.8	2 713.0	-2.5%	10 581.6	
- Used for pumped storage ⁴	7.2	6.6%	5.1%		21.0	19.9	5.7%	84.1	
- T&D Losses ⁴	46.2	-5.1%	-7.9%		150.5	152.5	-1.3%	610.8	
= ELECTRICITY CONSUMED	797.1	-3.6%	-1.5%		2 473.3	2 540.5	-2.6%	9 886.7	

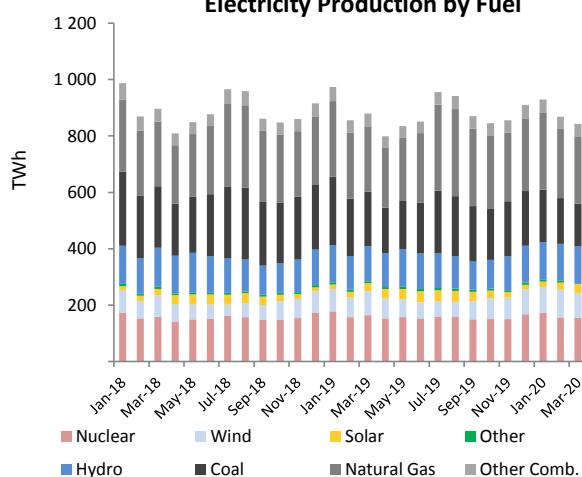
¹ current month to month of last year change⁴ estimated for certain countries² month-to-month change⁵ the breakdown of conventional thermal is estimated from annual data for³ year-to-date compared to same period last year

Canada, Estonia and Italy

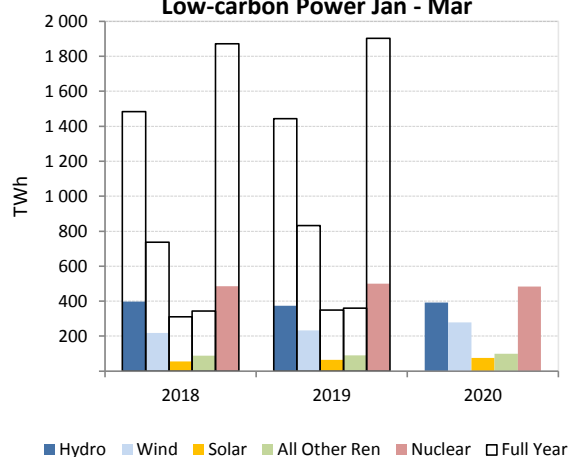
Electricity Production



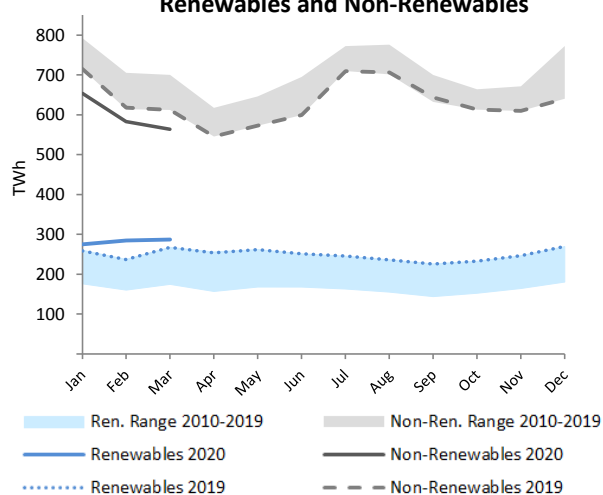
Electricity Production by Fuel



Low-carbon Power Jan - Mar

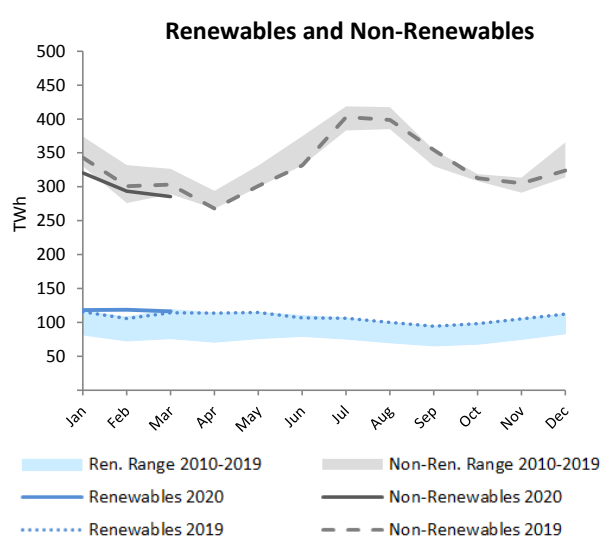
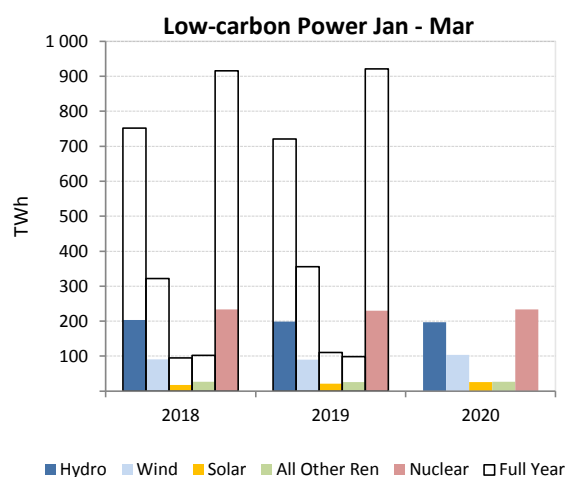
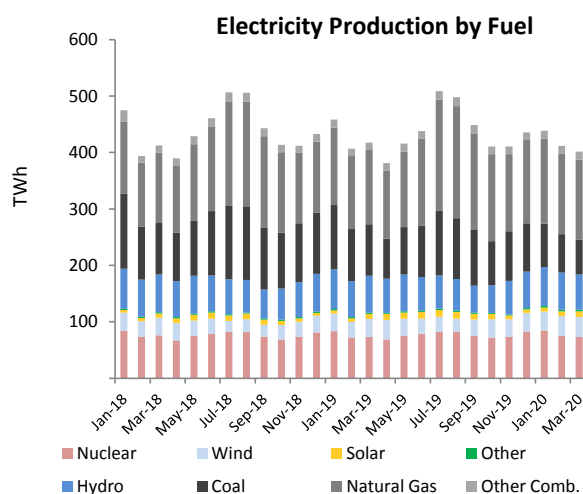
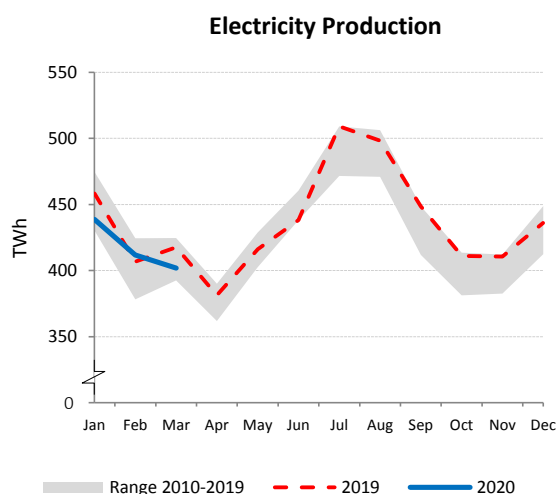


Renewables and Non-Renewables



OECD Americas

	Mar 2020				Year-to-Date			2019	
	TWh	change ¹	change ²	share	2020	2019	change ³	TWh	share
CONVENTIONAL THERMAL	218.0	-7.7%	-2.8%	54.4%	684.2	736.0	-7.0%	3 096.1	59.2%
Coal ⁵	62.1	-32.2%	-8.2%	15.5%	207.0	298.4	-30.6%	1 116.7	21.3%
Oil ⁵	7.0	19.6%	8.9%	1.7%	20.2	18.3	10.4%	80.0	1.5%
Natural Gas ⁵	141.6	7.9%	-1.2%	35.3%	435.3	397.1	9.6%	1 811.8	34.6%
Combustible Renewables ⁵	6.4	-3.5%	4.1%	1.6%	19.2	19.9	-3.7%	77.7	1.5%
Other Combustibles ⁵	0.9	16.1%	9.9%	0.2%	2.5	2.3	10.7%	9.8	0.2%
Nuclear	73.6	0.0%	-1.9%	18.3%	233.3	229.6	1.6%	921.5	17.6%
Hydro	62.3	-4.2%	-5.5%	15.5%	196.6	199.1	-1.3%	720.9	13.8%
Wind	34.9	10.5%	-0.4%	8.7%	103.4	90.1	14.8%	356.1	6.8%
Solar	10.0	9.9%	12.8%	2.5%	26.2	21.0	24.5%	110.8	2.1%
Geothermal	1.9	-1.0%	20.8%	0.5%	5.1	5.5	-8.1%	21.1	0.4%
Other Renewables	-	-	-	-	-	0.0	-	0.0	0.0%
Non-Specified	0.3	-19.5%	8.1%	0.1%	1.0	1.2	-18.3%	4.9	0.1%
RENEWABLES	115.5	1.1%	-1.7%	28.8%	350.5	335.7	4.4%	1 286.7	24.6%
NON-RENEWABLES	285.5	-5.9%	-2.7%	71.2%	899.3	946.9	-5.0%	3 944.8	75.4%
TOTAL NET PRODUCTION	401.0	-4.0%	-2.5%		1 249.8	1 282.6	-2.6%	5 231.5	
+ Imports	5.6	-7.7%	8.7%		16.4	17.5	-6.3%	69.9	
- Exports	6.6	13.4%	9.1%		18.8	17.5	7.3%	73.2	
= ELECTRICITY SUPPLIED	400.0	-4.3%	-2.5%		1 247.4	1 282.6	-2.7%	5 228.2	
- Used for pumped storage ⁴	1.7	-6.4%	0.5%		5.4	5.6	-3.2%	26.2	
- T&D Losses ⁴	18.0	-14.1%	-15.9%		62.2	65.2	-4.7%	287.8	
= ELECTRICITY CONSUMED	380.3	-3.8%	-1.8%		1 179.9	1 211.8	-2.6%	4 914.2	

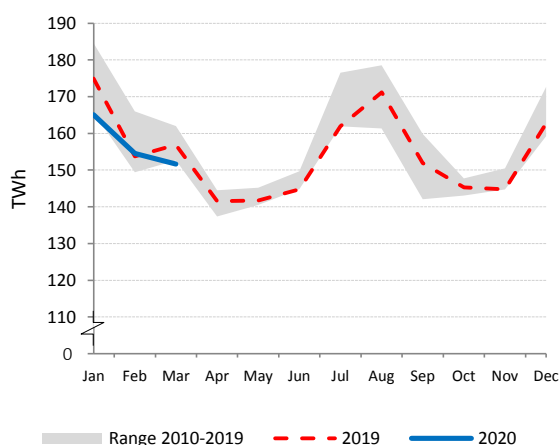
¹ current month to month of last year change⁴ estimated for certain countries² month-to-month change⁵ the breakdown of conventional thermal is estimated from annual data for Canada³ year-to-date compared to same period last year

OECD Asia Oceania

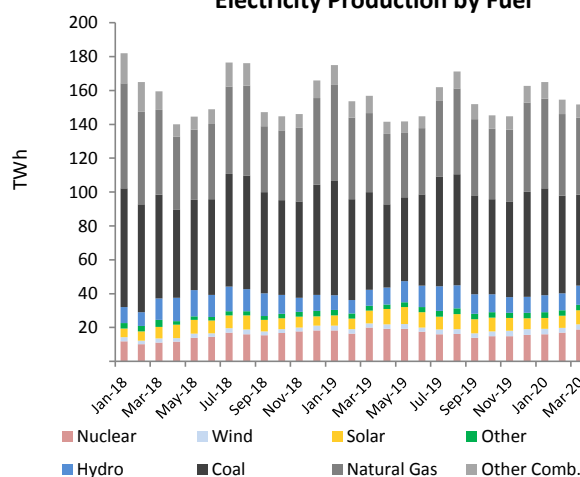
	Mar 2020				Year-to-Date			2019	
	TWh	change ¹	change ²	share	2020	2019	change ³	TWh	share
CONVENTIONAL THERMAL	106.9	-6.7%	-6.5%	70.5%	347.2	367.9	-5.6%	1 353.5	73.1%
Coal	53.6	-7.1%	-7.1%	35.4%	174.4	184.7	-5.6%	701.2	37.9%
Oil	2.3	-56.5%	-32.7%	1.5%	10.1	17.6	-42.6%	51.7	2.8%
Natural Gas	45.6	-2.2%	-5.3%	30.1%	146.9	151.7	-3.2%	547.6	29.6%
Combustible Renewables	5.3	78.8%	5.9%	3.5%	15.6	8.5	84.1%	46.9	2.5%
Other Combustibles	0.1	-97.0%	-9.7%	0.0%	0.2	5.4	-96.2%	6.0	0.3%
Nuclear	18.8	-5.0%	10.6%	12.4%	51.8	54.5	-5.0%	202.0	10.9%
Hydro	11.4	21.8%	14.1%	7.5%	31.4	26.1	20.4%	129.9	7.0%
Wind	3.2	20.2%	10.8%	2.1%	9.2	8.1	13.9%	33.8	1.8%
Solar	8.3	12.5%	16.6%	5.5%	21.9	19.8	10.8%	94.6	5.1%
Geothermal	0.8	-1.3%	4.3%	0.5%	2.4	2.4	1.2%	9.8	0.5%
Other Renewables	0.0	-	-	0.0%	0.1	0.1	-	0.5	0.0%
Non-Specified	2.3	8.3%	-3.4%	1.5%	7.2	6.7	7.6%	27.2	1.5%
RENEWABLES	29.0	25.1%	12.5%	19.1%	80.7	65.0	24.2%	315.6	17.0%
NON-RENEWABLES	122.7	-8.2%	-4.7%	80.9%	390.6	420.6	-7.1%	1 535.7	83.0%
TOTAL NET PRODUCTION	151.7	-3.3%	-1.8%		471.3	485.6	-2.9%	1 851.3	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	151.7	-3.3%	-1.8%		471.3	485.6	-2.9%	1 851.3	
- Used for pumped storage ⁴	1.4	5.5%	-1.7%		4.2	4.1	1.0%	16.8	
- T&D Losses ⁴	6.3	-0.4%	-0.7%		19.5	19.6	-0.7%	79.6	
= ELECTRICITY CONSUMED	144.0	-3.5%	-1.9%		447.7	461.8	-3.1%	1 754.9	

¹ current month to month of last year change⁴ estimated for certain countries² month-to-month change³ year-to-date compared to same period last year

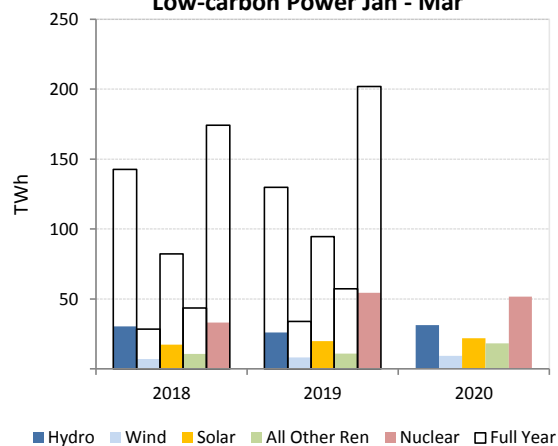
Electricity Production



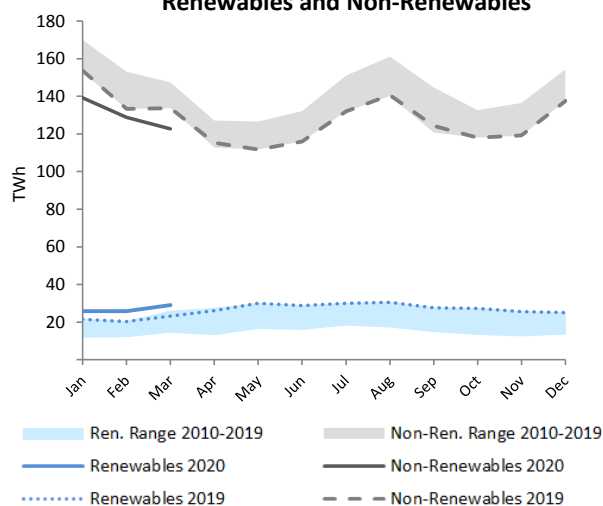
Electricity Production by Fuel



Low-carbon Power Jan - Mar



Renewables and Non-Renewables

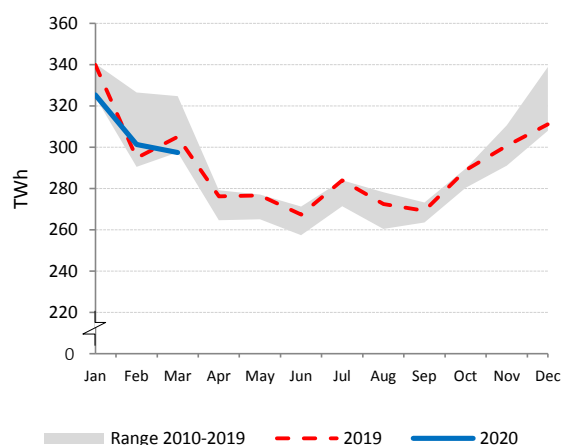


OECD Europe

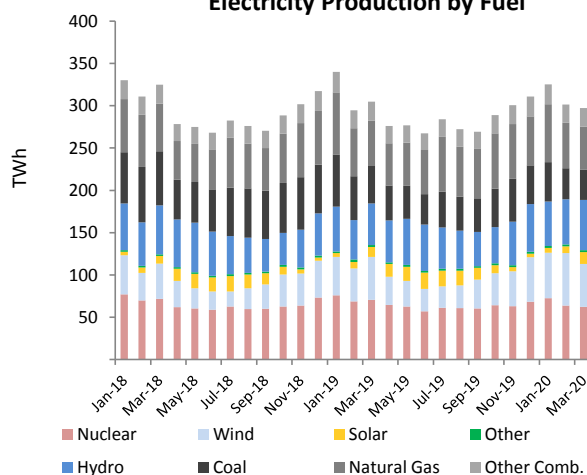
	Mar 2020				Year-to-Date			2019	
	TWh	change ¹	change ²	share	2020	2019	change ³	TWh	share
CONVENTIONAL THERMAL	108.8	-9.6%	-2.8%	36.6%	359.2	409.4	-12.3%	1 502.2	43.1%
Coal ⁵	36.1	-18.5%	-2.0%	12.2%	119.5	157.8	-24.2%	537.7	15.4%
Oil ⁵	3.6	-11.1%	-2.8%	1.2%	11.4	12.8	-11.0%	50.0	1.4%
Natural Gas ⁵	50.5	-5.5%	-5.9%	17.0%	172.7	183.7	-6.0%	707.5	20.3%
Combustible Renewables ⁵	16.4	0.1%	6.0%	5.5%	48.9	48.8	0.3%	182.7	5.2%
Other Combustibles ⁵	2.2	5.3%	0.0%	0.7%	6.8	6.4	6.7%	24.4	0.7%
Nuclear	62.5	-11.5%	-2.2%	21.0%	198.9	215.5	-7.7%	778.4	22.3%
Hydro	59.1	19.8%	11.1%	19.9%	165.0	148.6	11.0%	593.3	17.0%
Wind	50.4	-0.9%	-18.5%	16.9%	166.1	134.9	23.1%	442.0	12.7%
Solar	14.3	22.0%	72.5%	4.8%	28.2	24.1	17.0%	144.2	4.1%
Geothermal	1.8	7.9%	6.8%	0.6%	5.3	5.8	-8.7%	20.2	0.6%
Other Renewables	0.0	-	-	0.0%	0.1	0.1	-	0.5	0.0%
Non-Specified	0.4	-4.7%	1.9%	0.1%	1.2	1.2	-3.1%	5.1	0.1%
RENEWABLES	142.0	9.3%	1.1%	47.7%	413.5	362.2	14.2%	1 383.0	39.7%
NON-RENEWABLES	155.4	-11.2%	-3.4%	52.3%	510.4	577.3	-11.6%	2 103.0	60.3%
TOTAL NET PRODUCTION	297.3	-2.5%	-1.3%		923.9	939.5	-1.7%	3 486.0	
+ Imports	37.1	-3.4%	-0.3%		114.2	111.6	2.3%	417.9	
- Exports	35.7	0.0%	-3.0%		112.0	106.3	5.3%	401.7	
= ELECTRICITY SUPPLIED	298.7	-2.9%	-1.0%		926.1	944.8	-2.0%	3 502.1	
- Used for pumped storage ⁴	4.1	13.6%	9.7%		11.5	10.2	12.5%	41.1	
- T&D Losses ⁴	21.9	2.3%	-2.3%		68.9	67.7	1.7%	243.3	
= ELECTRICITY CONSUMED	272.7	-3.5%	-1.0%		845.7	866.8	-2.4%	3 217.7	

¹ current month to month of last year change⁴ estimated for certain countries² month-to-month change⁵ the breakdown of conventional thermal is estimated from annual data for Estonia and Italy³ year-to-date compared to same period last year

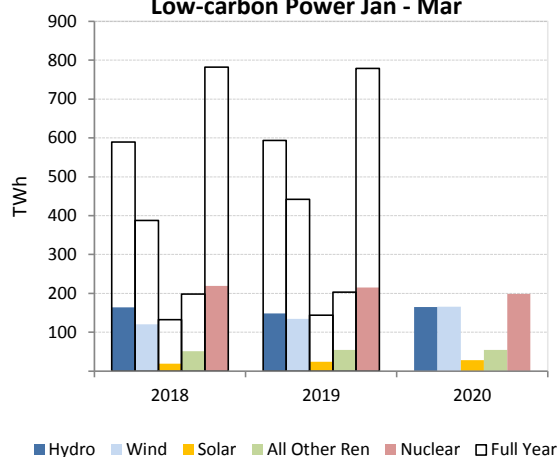
Electricity Production



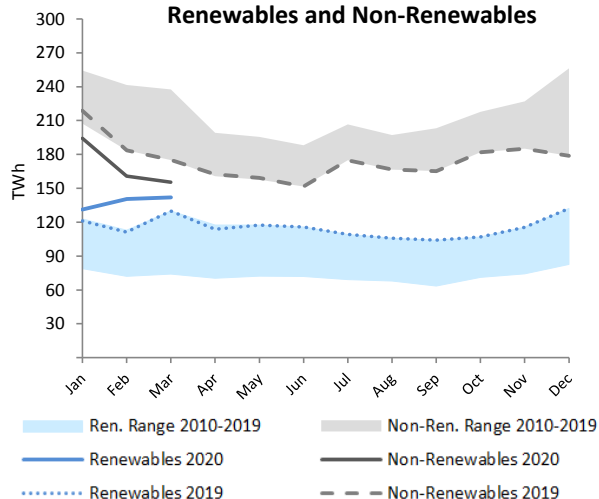
Electricity Production by Fuel



Low-carbon Power Jan - Mar



Renewables and Non-Renewables

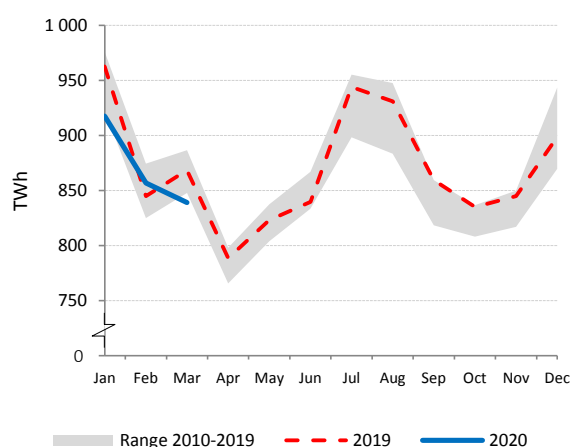


IEA Total

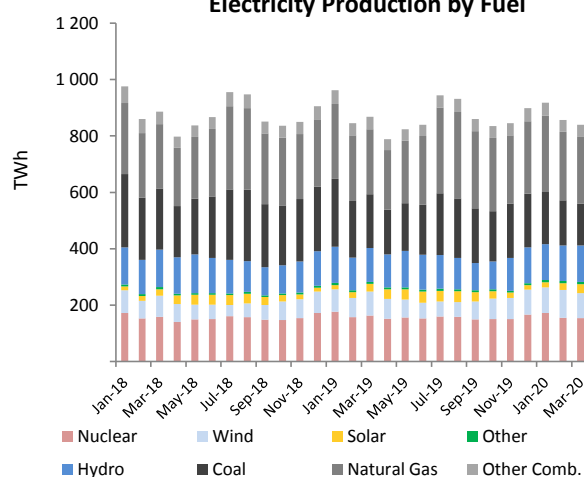
	Mar 2020				Year-to-Date			2019	
	TWh	change ¹	change ²	share	2020	2019	change ³	TWh	share
CONVENTIONAL THERMAL	427.5	-8.1%	-4.0%	51.0%	1 373.9	1 497.5	-8.3%	5 887.7	56.4%
Coal ⁵	149.2	-21.8%	-6.6%	17.8%	493.1	632.7	-22.0%	2 323.1	22.3%
Oil ⁵	11.9	-20.0%	-7.6%	1.4%	39.5	48.0	-17.7%	175.7	1.7%
Natural Gas ⁵	235.9	2.8%	-3.1%	28.1%	749.7	727.1	3.1%	3 047.6	29.2%
Combustible Renewables ⁵	27.5	8.2%	5.5%	3.3%	82.0	75.6	8.5%	301.2	2.9%
Other Combustibles ⁵	3.1	-35.4%	2.3%	0.4%	9.5	14.1	-32.3%	40.2	0.4%
Nuclear	154.3	-5.6%	-0.7%	18.4%	482.4	498.1	-3.1%	1 896.4	18.2%
Hydro	129.5	7.5%	2.9%	15.4%	382.5	363.9	5.1%	1 403.5	13.4%
Wind	87.9	4.1%	-11.2%	10.5%	277.0	231.6	19.6%	825.2	7.9%
Solar	32.0	15.7%	35.3%	3.8%	74.3	63.2	17.5%	343.1	3.3%
Geothermal	4.0	2.2%	13.0%	0.5%	11.2	12.2	-7.9%	45.2	0.4%
Other Renewables	0.1	0.0%	-	0.0%	0.2	0.2	-0.4%	1.0	0.0%
Non-Specified	3.1	2.5%	-1.6%	0.4%	9.4	9.2	2.6%	37.2	0.4%
RENEWABLES	280.9	7.3%	1.0%	33.5%	827.2	746.7	10.8%	2 919.2	28.0%
NON-RENEWABLES	557.4	-8.1%	-3.5%	66.5%	1 783.7	1 929.2	-7.5%	7 520.1	72.0%
TOTAL NET PRODUCTION	838.3	-3.5%	-2.1%		2 610.9	2 675.8	-2.4%	10 439.3	
+ Imports	40.6	-4.0%	0.7%		123.9	122.1	1.5%	460.8	
- Exports	41.0	2.2%	-1.5%		126.7	119.6	5.9%	458.0	
= ELECTRICITY SUPPLIED	838.0	-3.7%	-1.9%		2 608.1	2 678.3	-2.6%	10 442.1	
- Used for pumped storage ⁴	7.1	5.0%	5.1%		20.7	19.8	4.4%	83.0	
- T&D Losses ⁴	45.6	-5.1%	-8.0%		148.9	150.8	-1.3%	604.8	
= ELECTRICITY CONSUMED	785.3	-3.7%	-1.6%		2 438.5	2 507.7	-2.8%	9 754.3	

¹ current month to month of last year change⁴ estimated for certain countries² month-to-month change⁵ the breakdown of conventional thermal is estimated from annual data for Canada, Estonia, and Italy³ year-to-date compared to same period last year

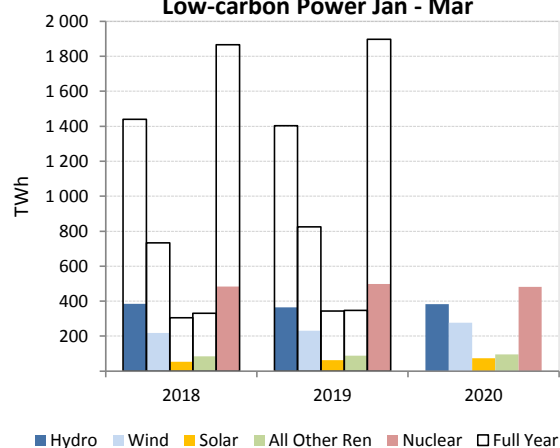
Electricity Production



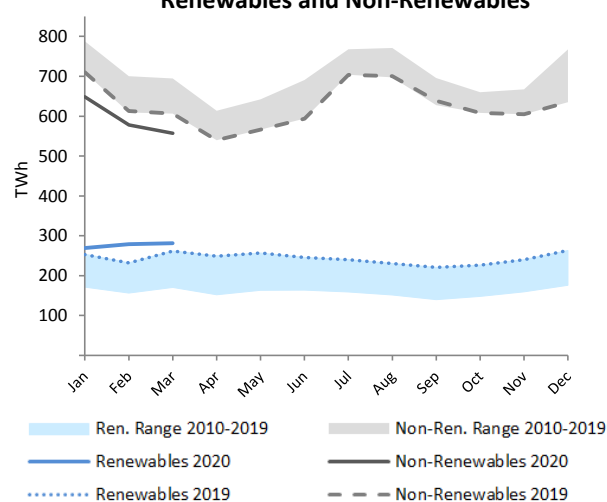
Electricity Production by Fuel



Low-carbon Power Jan - Mar



Renewables and Non-Renewables

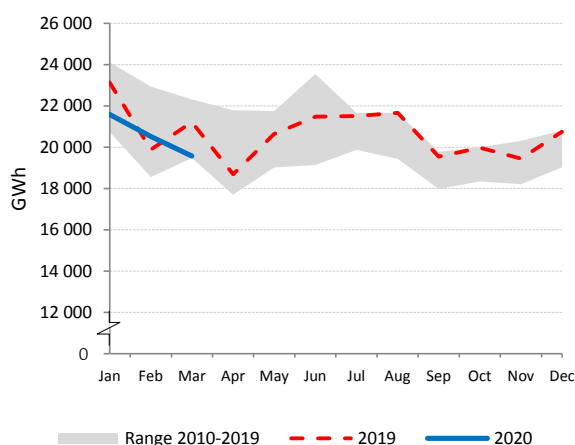


AUSTRALIA

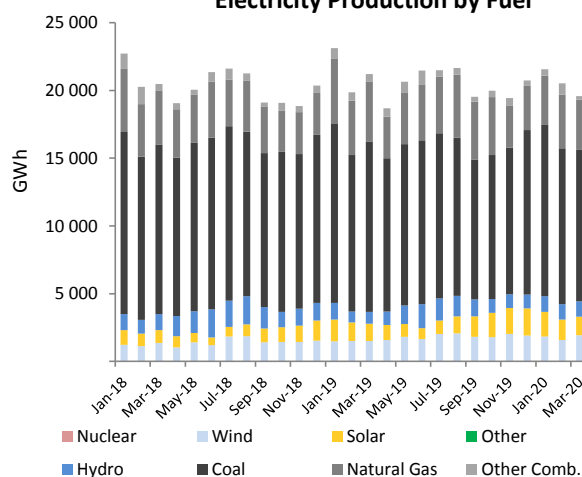
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	15 142	-13.8%	-7.1%	77.4%	48 212	52 575	-8.3%	195 697	78.9%
Coal	11 171	-11.0%	-3.1%	57.1%	35 332	37 384	-5.5%	140 583	56.7%
Oil	45	-85.9%	-92.8%	0.2%	926	1 256	-26.3%	4 547	1.8%
Natural Gas	3 716	-16.5%	-6.2%	19.0%	11 331	13 232	-14.4%	47 888	19.3%
Combustible Renewables	211	-12.0%	4.3%	1.1%	622	704	-11.7%	2 678	1.1%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1 142	32.3%	1.5%	5.8%	3 419	2 895	18.1%	14 478	5.8%
Wind	1 940	29.3%	22.7%	9.9%	5 364	4 474	19.9%	21 128	8.5%
Solar	1 351	4.9%	-10.3%	6.9%	4 681	4 284	9.3%	16 609	6.7%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	4 644	19.3%	5.2%	23.7%	14 086	12 357	14.0%	54 894	22.1%
NON-RENEWABLES	14 931	-13.8%	-7.3%	76.3%	47 590	51 872	-8.3%	193 018	77.9%
TOTAL NET PRODUCTION	19 575	-7.7%	-4.6%		61 676	64 228	-4.0%	247 912	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	19 575	-7.7%	-4.6%		61 676	64 228	-4.0%	247 912	
- Used for pumped storage ⁴	23	32.3%	1.5%		69	58	18.1%	287	
- T&D Losses ⁴	906	-6.1%	-1.2%		2 810	2 892	-2.9%	12 141	
= ELECTRICITY CONSUMED	18 646	-7.8%	-4.8%		58 797	61 278	-4.0%	235 484	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

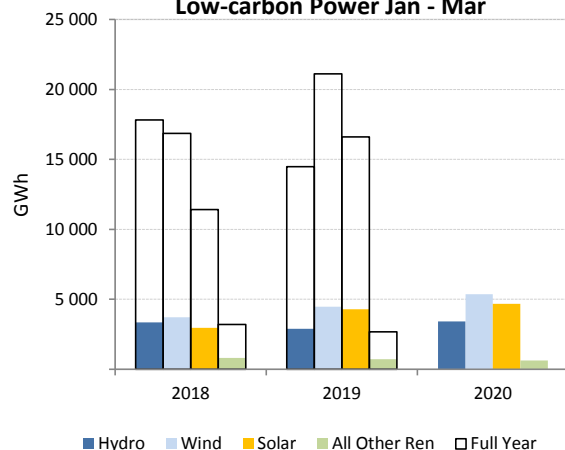
Electricity Production



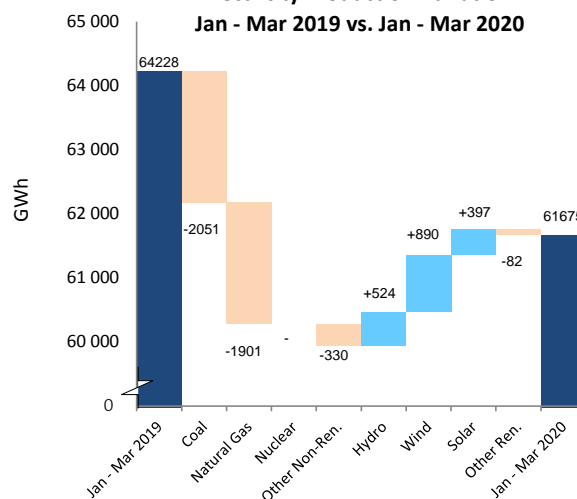
Electricity Production by Fuel



Low-carbon Power Jan - Mar



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

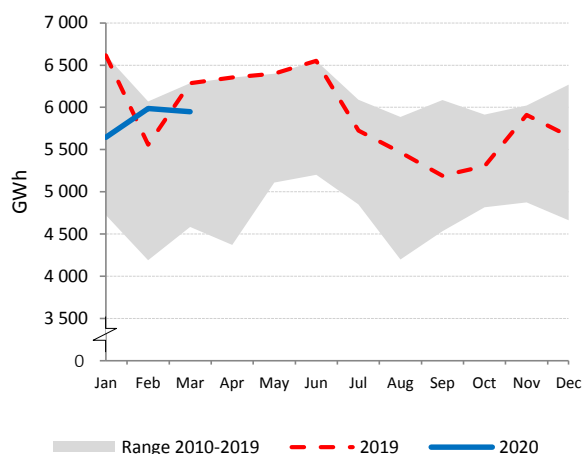


AUSTRIA

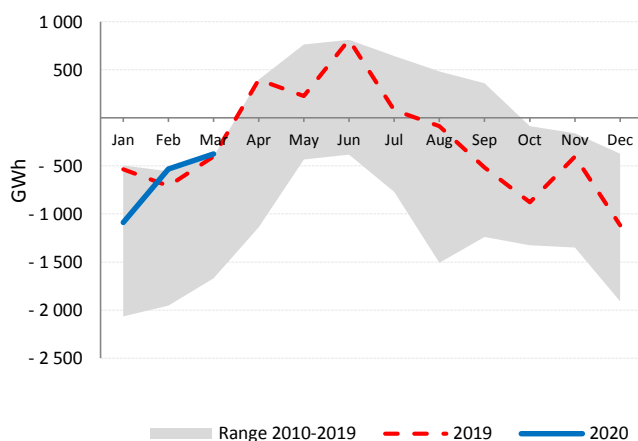
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 785	15.2%	-0.5%	30.0%	6 217	6 253	-0.6%	19 957	28.1%
Coal	289	-9.7%	2.0%	4.9%	858	1 037	-17.2%	3 254	4.6%
Oil	60	30.3%	1.6%	1.0%	176	168	4.3%	657	0.9%
Natural Gas	974	34.7%	-4.1%	16.4%	3 826	3 689	3.7%	10 768	15.2%
Combustible Renewables	420	3.8%	8.9%	7.1%	1 208	1 172	3.0%	4 546	6.4%
Other Combustibles	42	-25.5%	-17.7%	0.7%	149	187	-20.2%	733	1.0%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3 308	-15.4%	8.2%	55.6%	8 922	9 736	-8.4%	42 617	60.0%
Wind	728	4.5%	-31.2%	12.2%	2 193	2 218	-1.1%	7 065	9.9%
Solar⁴	128	-	68.9%	2.2%	250	250	-	1 365	1.9%
Geothermal	0	-	-	0.0%	0	0	-	0	0.0%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	1	0.2%	7.5%	0.0%	3	3	3.5%	12	0.0%
RENEWABLES	4 584	-10.8%	0.1%	77.0%	12 573	13 376	-6.0%	55 593	78.3%
NON-RENEWABLES	1 366	19.2%	-3.1%	23.0%	5 012	5 083	-1.4%	15 423	21.7%
TOTAL NET PRODUCTION	5 950	-5.3%	-0.6%		17 584	18 460	-4.7%	71 016	
+ Imports	2 135	-17.6%	-18.1%		7 789	8 118	-4.0%	26 047	
- Exports	1 760	-19.6%	-15.2%		5 792	6 472	-10.5%	22 918	
= ELECTRICITY SUPPLIED	6 326	-5.4%	-3.0%		19 582	20 105	-2.6%	74 145	
- Used for pumped storage	431	5.6%	-3.0%		1 222	1 206	1.3%	4 843	
- T&D Losses	283	-4.0%	-11.6%		945	949	-0.4%	3 424	
= ELECTRICITY CONSUMED	5 613	-6.2%	-2.5%		17 415	17 950	-3.0%	65 878	

¹ current month to month of last year change⁴ estimated by the IEA secretariat² month-to-month change³ year-to-date compared to same period last year

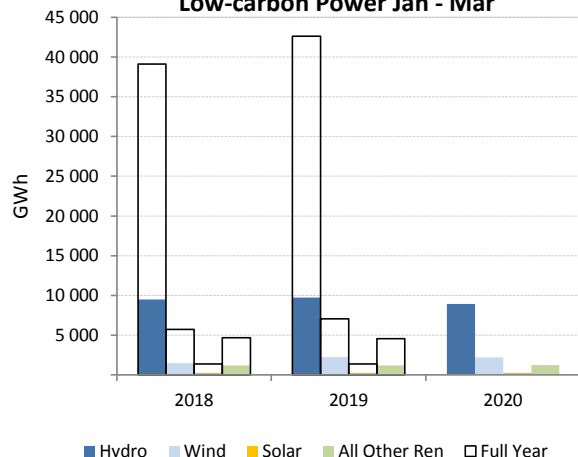
Electricity Production



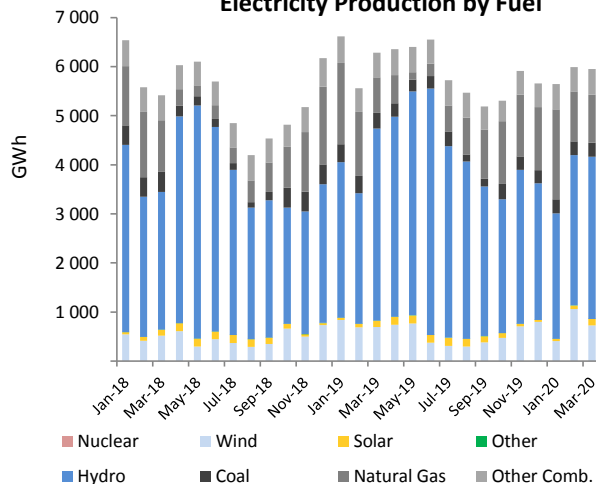
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

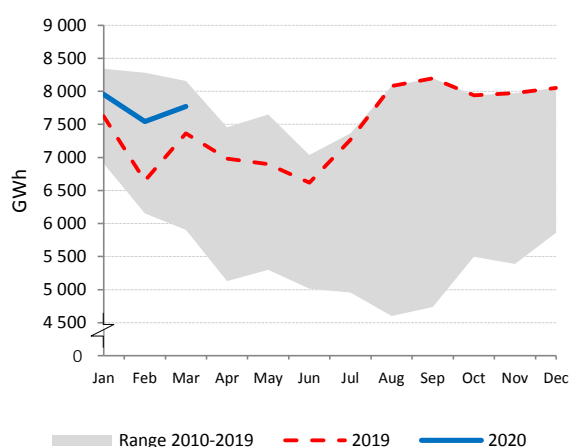


BELGIUM

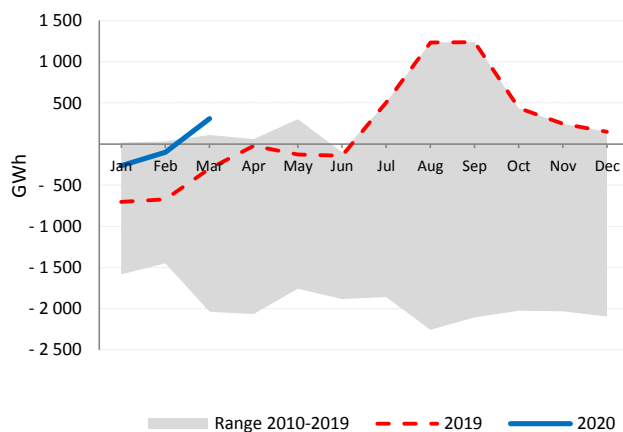
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	2 793	21.6%	6.4%	35.9%	8 793	8 682	1.3%	33 351	37.2%
Coal	185	-15.5%	1.0%	2.4%	564	614	-8.1%	2 425	2.7%
Oil	1	-33.9%	-26.7%	0.0%	4	10	-62.2%	27	0.0%
Natural Gas	2 006	28.7%	-1.7%	25.8%	6 631	6 399	3.6%	24 641	27.5%
Combustible Renewables	481	24.2%	63.5%	6.2%	1 267	1 301	-2.6%	4 912	5.5%
Other Combustibles	119	-7.9%	14.5%	1.5%	327	357	-8.4%	1 346	1.5%
Nuclear	3 060	-13.6%	6.6%	39.4%	8 999	9 280	-3.0%	41 507	46.3%
Hydro	127	9.1%	-1.9%	1.6%	397	359	10.6%	1 148	1.3%
Wind	1 327	21.2%	-23.6%	17.1%	4 316	2 654	62.6%	9 320	10.4%
Solar	428	58.1%	179.7%	5.5%	672	550	22.2%	3 919	4.4%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	35	-12.8%	22.4%	0.5%	91	114	-19.7%	405	0.5%
RENEWABLES	2 364	26.4%	2.2%	30.4%	6 652	4 865	36.7%	19 299	21.5%
NON-RENEWABLES	5 407	-1.6%	3.4%	69.6%	16 617	16 774	-0.9%	70 350	78.5%
TOTAL NET PRODUCTION	7 771	5.5%	3.0%		23 268	21 639	7.5%	89 649	
+ Imports	941	-22.3%	-3.3%		3 128	4 306	-27.4%	12 734	
- Exports	1 249	36.6%	43.0%		3 073	2 635	16.6%	14 589	
= ELECTRICITY SUPPLIED	7 464	-2.6%	-2.3%		23 323	23 310	0.1%	87 794	
- Used for pumped storage	121	12.1%	0.6%		367	319	15.1%	1 162	
- T&D Losses	316	-3.3%	-3.0%		993	995	-0.2%	3 743	
= ELECTRICITY CONSUMED	7 027	-2.8%	-2.3%		21 963	21 996	-0.1%	82 889	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

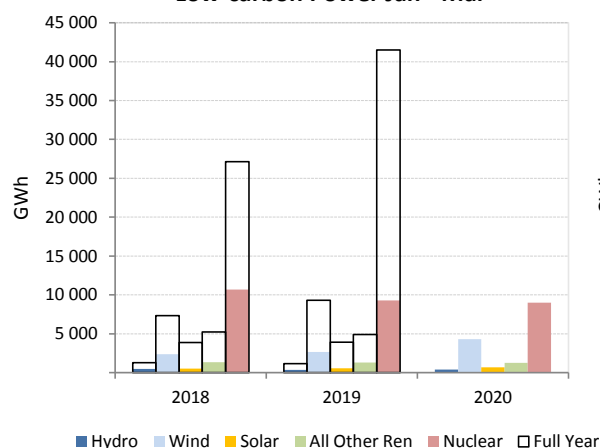
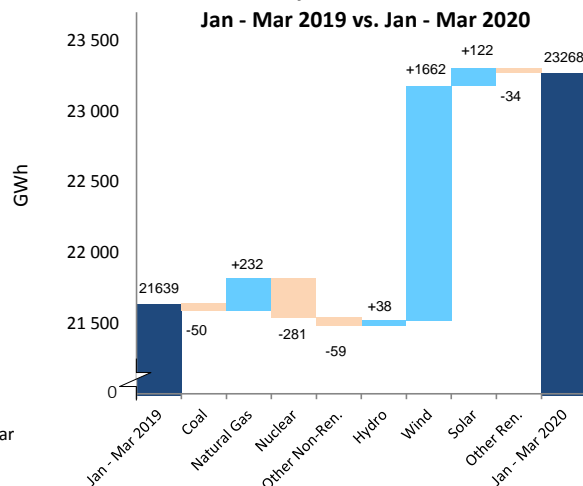
Electricity Production



Net Electricity Exports



Low-carbon Power Jan - Mar

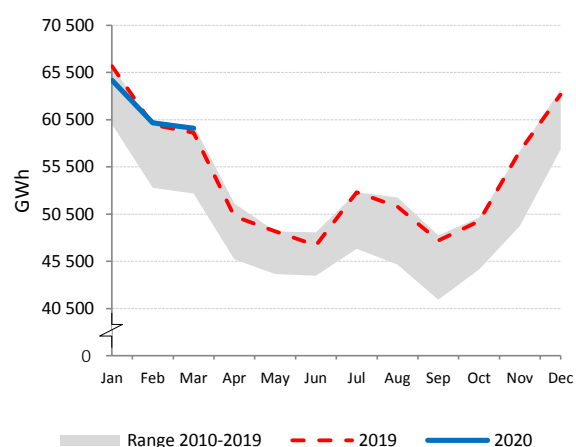
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

CANADA

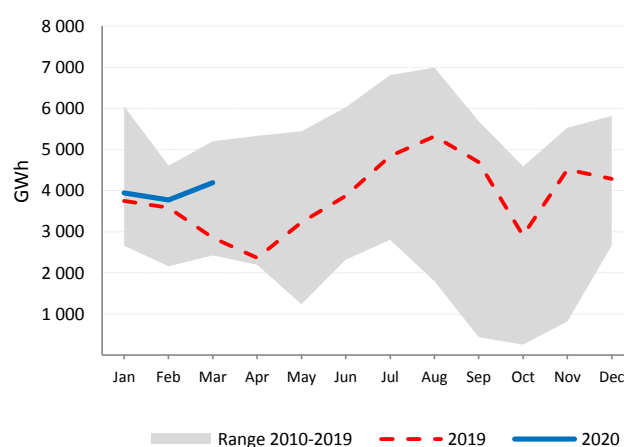
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	10 756	-15.5%	-2.3%	18.3%	33 782	37 711	-10.4%	131 545	20.1%
Coal ⁴	4 165	-15.5%	-2.3%	7.1%	13 080	14 601	-10.4%	50 931	7.8%
Oil ⁴	504	-15.5%	-2.3%	0.9%	1 582	1 766	-10.4%	6 159	0.9%
Natural Gas ⁴	5 202	-15.5%	-2.3%	8.9%	16 337	18 237	-10.4%	63 615	9.7%
Combustible Renewables ⁴	879	-15.5%	-2.3%	1.5%	2 760	3 081	-10.4%	10 746	1.6%
Other Combustibles ⁴	8	-15.5%	-2.3%	0.0%	24	27	-10.4%	94	0.0%
Nuclear	8 414	12.8%	6.7%	14.3%	25 730	23 685	8.6%	101 190	15.5%
Hydro	35 665	2.2%	-2.5%	60.7%	111 480	112 265	-0.7%	381 909	58.5%
Wind	3 528	-3.3%	-4.4%	6.0%	10 204	10 815	-5.6%	34 178	5.2%
Solar	369	0.3%	76.5%	0.6%	697	689	1.1%	4 207	0.6%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	1	-	1	0.0%
Non-Specified	14	-16.1%	15.2%	0.0%	39	55	-30.0%	171	0.0%
RENEWABLES	40 440	1.2%	-2.3%	68.8%	125 140	126 850	-1.3%	431 041	66.0%
NON-RENEWABLES	18 306	-4.5%	1.7%	31.2%	56 792	58 371	-2.7%	222 160	34.0%
TOTAL NET PRODUCTION	58 746	-0.6%	-1.1%		181 932	185 221	-1.8%	653 200	
+ Imports	1 100	-29.9%	-2.2%		3 297	3 660	-9.9%	13 822	
- Exports	5 294	19.7%	8.0%		15 215	13 846	9.9%	60 037	
= ELECTRICITY SUPPLIED	54 552	-3.0%	-1.9%		170 014	175 035	-2.9%	606 985	
- Used for pumped storage ⁴	20	2.2%	-2.5%		61	62	-0.7%	210	
- T&D Losses ⁴	3 210	-1.4%	-1.1%		9 935	10 130	-1.9%	35 775	
= ELECTRICITY CONSUMED	51 322	-3.1%	-1.9%		160 018	164 843	-2.9%	571 000	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change³ year-to-date compared to same period last year

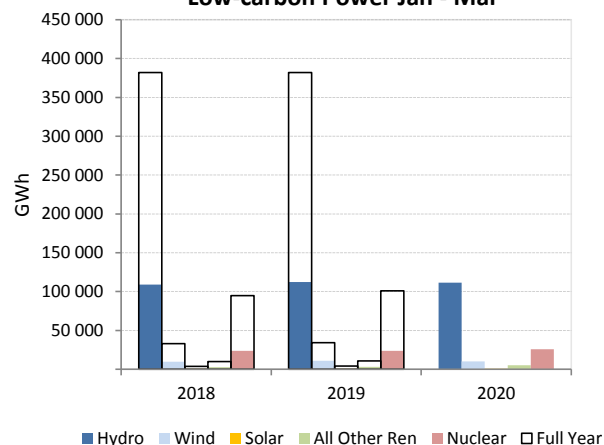
Electricity Production



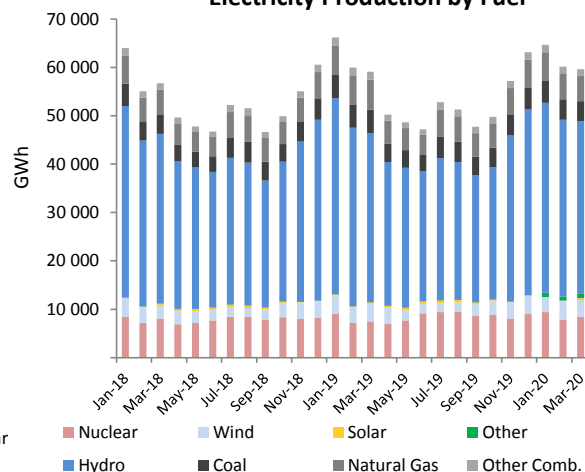
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

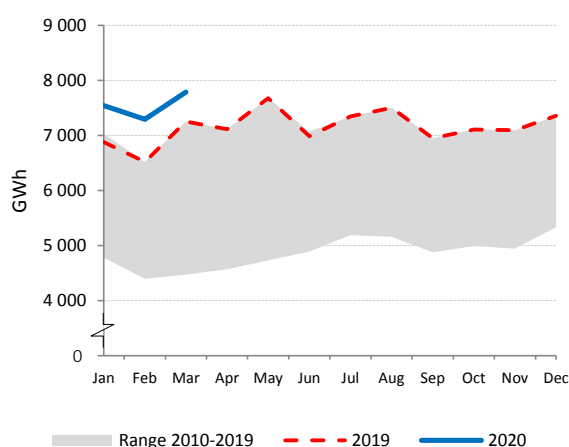


CHILE

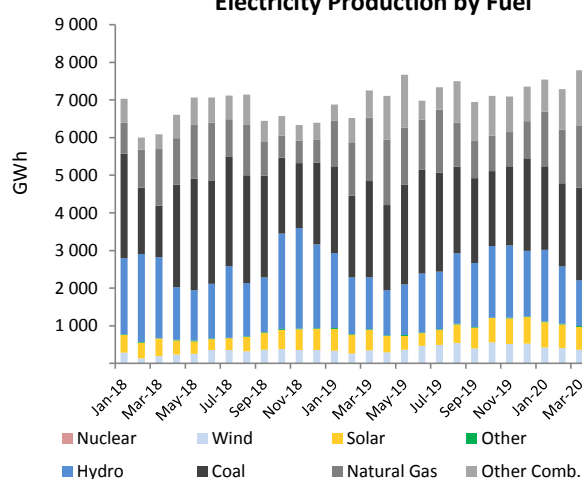
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	5 582	12.5%	18.4%	71.7%	14 819	13 140	12.8%	54 552	63.6%
Coal	2 466	-3.7%	11.4%	31.7%	6 899	7 033	-1.9%	28 437	33.2%
Oil	1 001	242.6%	51.5%	12.9%	2 129	661	222.1%	5 977	7.0%
Natural Gas	1 658	-1.3%	16.6%	21.3%	4 531	4 312	5.1%	15 594	18.2%
Combustible Renewables	457	6.2%	8.9%	5.9%	1 259	1 135	11.0%	4 544	5.3%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1 218	-11.8%	-20.0%	15.6%	4 644	4 885	-4.9%	19 680	22.9%
Wind	359	3.8%	-11.9%	4.6%	1 189	948	25.4%	5 086	5.9%
Solar	606	10.7%	-3.5%	7.8%	1 906	1 627	17.1%	6 253	7.3%
Geothermal	24	45.8%	22.0%	0.3%	61	50	22.7%	201	0.2%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	2 662	-2.1%	-11.1%	34.2%	9 059	8 645	4.8%	35 764	41.7%
NON-RENEWABLES	5 125	13.1%	19.3%	65.8%	13 559	12 006	12.9%	50 008	58.3%
TOTAL NET PRODUCTION	7 787	7.4%	6.8%		22 619	20 651	9.5%	85 772	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	7 787	7.4%	6.8%		22 619	20 651	9.5%	85 772	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	256	-17.6%	2.9%		771	891	-13.5%	3 216	
= ELECTRICITY CONSUMED	7 531	8.5%	6.9%		21 848	19 760	10.6%	82 555	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

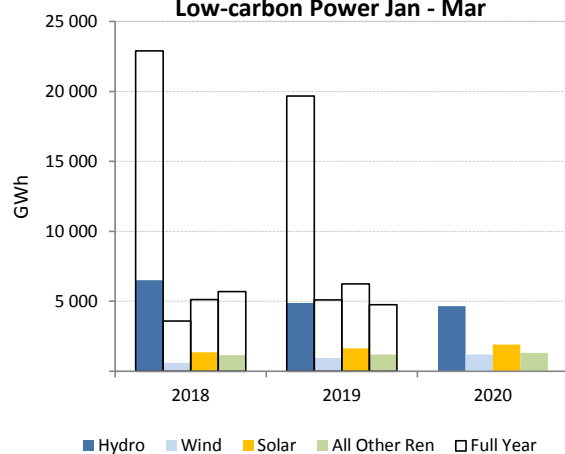
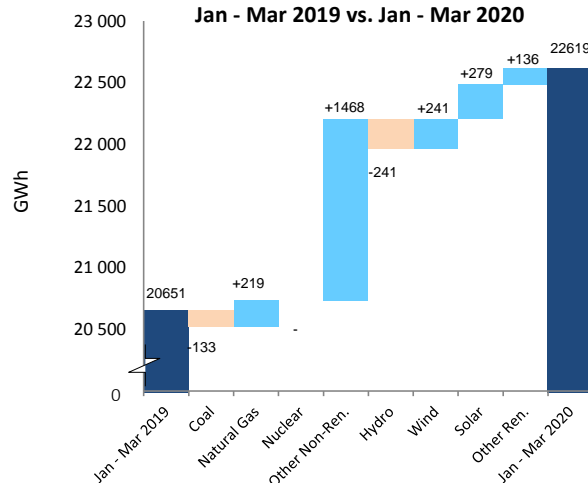
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

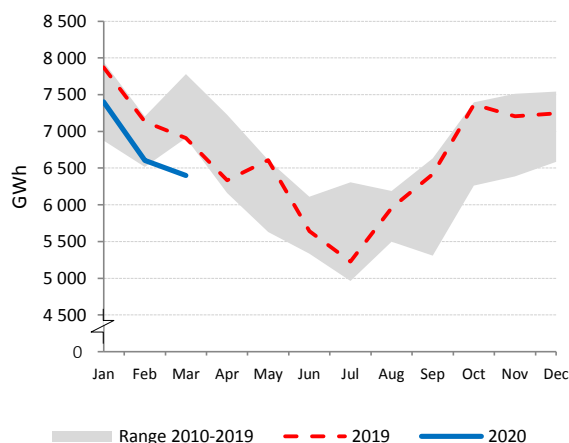
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

CZECH REPUBLIC

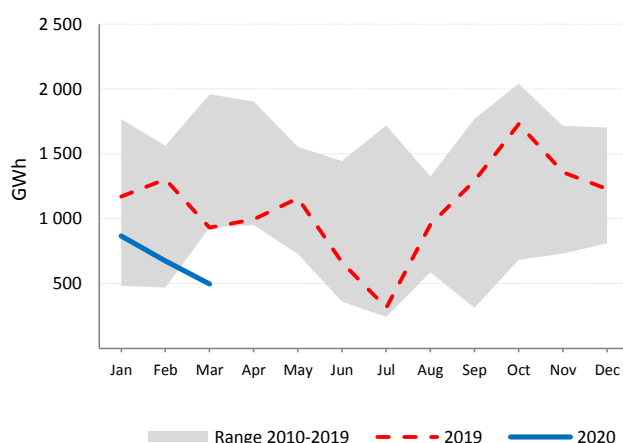
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	3 643	-9.3%	-4.3%	56.9%	12 059	12 991	-7.2%	45 121	56.5%
Coal	2 785	-16.4%	-4.3%	43.5%	9 283	10 617	-12.6%	35 245	44.1%
Oil	7	-22.4%	-17.5%	0.1%	23	24	-2.0%	106	0.1%
Natural Gas	442	60.5%	-13.9%	6.9%	1 557	1 222	27.4%	5 191	6.5%
Combustible Renewables	402	1.8%	9.5%	6.3%	1 172	1 108	5.7%	4 502	5.6%
Other Combustibles	8	8.4%	-9.7%	0.1%	24	21	15.9%	77	0.1%
Nuclear	2 136	-1.5%	-6.8%	33.4%	6 846	7 221	-5.2%	28 579	35.8%
Hydro	305	-30.8%	7.9%	4.8%	817	1 065	-23.3%	3 145	3.9%
Wind	79	-6.0%	-30.5%	1.2%	265	227	16.9%	691	0.9%
Solar	225	17.6%	122.3%	3.5%	388	380	2.0%	2 263	2.8%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	11	10.5%	2.5%	0.2%	32	31	3.0%	124	0.2%
RENEWABLES	1 011	-9.0%	17.0%	15.8%	2 641	2 780	-5.0%	10 600	13.3%
NON-RENEWABLES	5 387	-7.1%	-6.2%	84.2%	17 765	19 136	-7.2%	69 323	86.7%
TOTAL NET PRODUCTION	6 398	-7.4%	-3.1%		20 406	21 916	-6.9%	79 923	
+ Imports	1 219	17.3%	-7.7%		4 232	3 183	33.0%	11 026	
- Exports	1 714	-13.0%	-14.0%		6 267	6 586	-4.8%	24 123	
= ELECTRICITY SUPPLIED	5 903	-1.3%	-0.5%		18 372	18 512	-0.8%	66 826	
- Used for pumped storage	144	19.3%	-1.0%		436	365	19.3%	1 508	
- T&D Losses	365	0.6%	-7.4%		1 228	1 206	1.8%	4 300	
= ELECTRICITY CONSUMED	5 394	-1.8%	0.0%		16 707	16 940	-1.4%	61 019	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

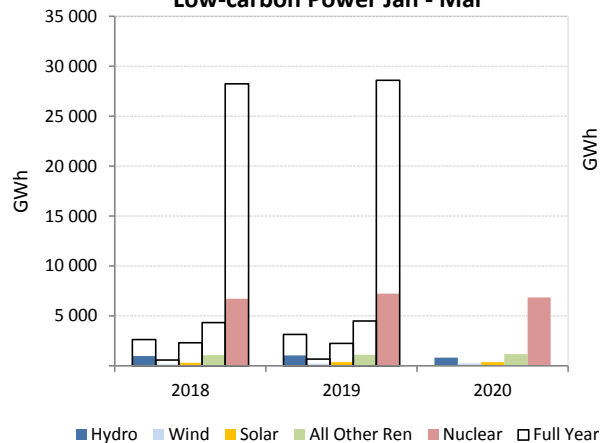
Electricity Production



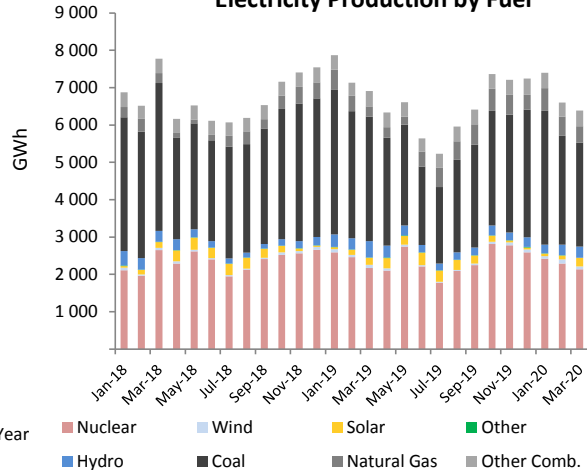
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

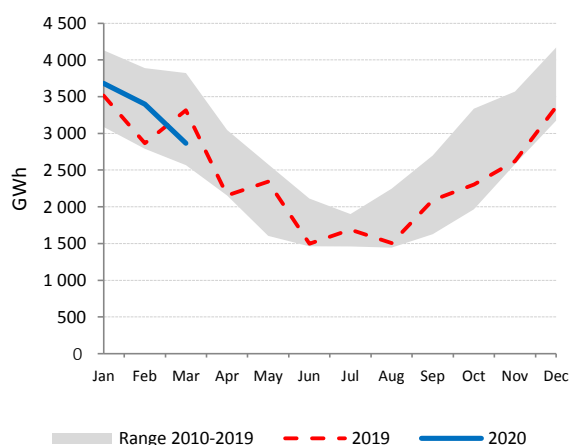


DENMARK

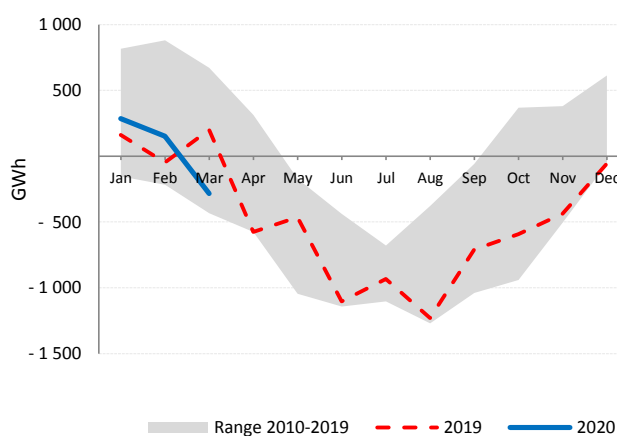
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 209	-11.5%	-6.7%	42.2%	4 002	4 784	-16.3%	12 132	41.5%
Coal	424	-8.5%	-14.0%	14.8%	1 430	1 752	-18.4%	3 382	11.6%
Oil	14	-30.6%	-17.7%	0.5%	56	67	-17.2%	239	0.8%
Natural Gas	115	-40.4%	0.0%	4.0%	376	735	-48.8%	1 826	6.2%
Combustible Renewables	585	-6.0%	-4.0%	20.4%	1 929	2 012	-4.1%	5 863	20.0%
Other Combustibles	72	5.9%	16.0%	2.5%	212	217	-2.6%	823	2.8%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3	19.2%	-2.2%	0.1%	7	5	38.1%	17	0.1%
Wind	1 552	-17.2%	-25.0%	54.1%	5 789	4 780	21.1%	16 150	55.2%
Solar	104	42.2%	246.2%	3.6%	148	128	15.7%	963	3.3%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	2 243	-12.8%	-17.2%	78.2%	7 873	6 925	13.7%	22 993	78.6%
NON-RENEWABLES	624	-16.1%	-9.0%	21.8%	2 073	2 771	-25.2%	6 269	21.4%
TOTAL NET PRODUCTION	2 868	-13.5%	-15.6%		9 946	9 696	2.6%	29 262	
+ Imports	1 505	35.9%	12.8%		4 068	3 134	29.8%	15 327	
- Exports	1 220	-6.7%	-17.8%		4 218	3 448	22.4%	9 535	
= ELECTRICITY SUPPLIED	3 153	1.2%	-2.9%		9 796	9 383	4.4%	35 054	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	260	0.5%	-8.9%		839	710	18.2%	2 619	
= ELECTRICITY CONSUMED	2 893	1.2%	-2.3%		8 957	8 673	3.3%	32 435	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

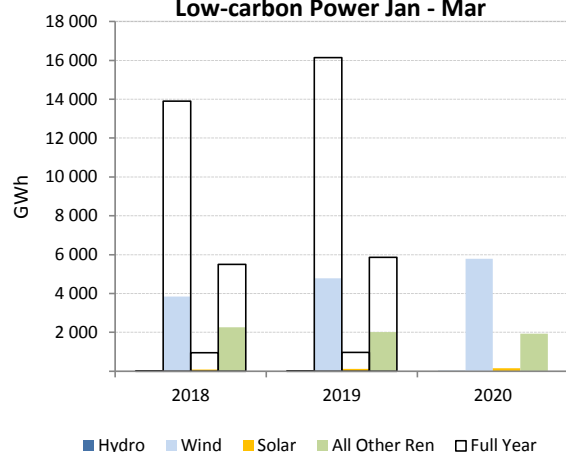
Electricity Production



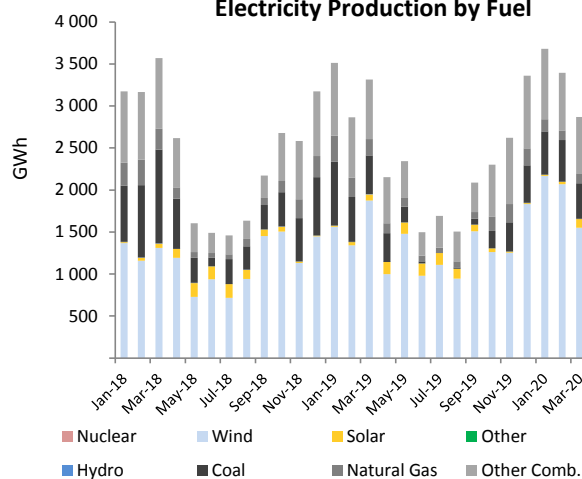
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

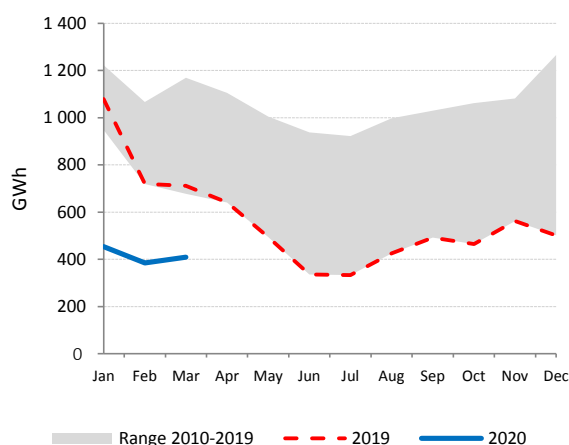


ESTONIA

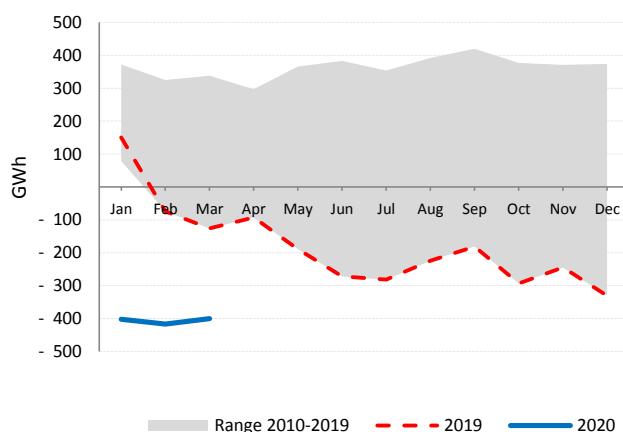
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	321	-48.7%	16.2%	78.4%	938	2 268	-58.7%	6 033	89.3%
Coal ⁴	278	-48.7%	16.2%	68.0%	814	1 968	-58.7%	5 235	77.5%
Oil ⁴	2	-48.7%	16.2%	0.6%	7	16	-58.7%	43	0.6%
Natural Gas ⁴	2	-48.7%	16.2%	0.4%	5	11	-58.7%	30	0.4%
Combustible Renewables ⁴	36	-48.7%	16.2%	8.8%	105	254	-58.7%	675	10.0%
Other Combustibles ⁴	3	-48.7%	16.2%	0.7%	8	19	-58.7%	50	0.7%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3	42.9%	-20.0%	0.8%	11	4	145.3%	15	0.2%
Wind	83	3.3%	-19.2%	20.2%	292	229	27.6%	677	10.0%
Solar	3	-	-	0.6%	8	8	-	31	0.5%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	124	-19.7%	-11.1%	30.4%	415	495	-16.1%	1 399	20.7%
NON-RENEWABLES	285	-48.7%	16.2%	69.6%	833	2 014	-58.7%	5 358	79.3%
TOTAL NET PRODUCTION	409	-42.4%	6.3%		1 248	2 509	-50.3%	6 757	
+ Imports	621	134.2%	-1.4%		1 914	810	136.2%	4 862	
- Exports	221	59.2%	3.8%		695	760	-8.5%	2 703	
= ELECTRICITY SUPPLIED	809	-3.3%	0.9%		2 467	2 559	-3.6%	8 916	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses ⁴	55	5.6%	1.5%		168	177	-4.7%	618	
= ELECTRICITY CONSUMED	755	-3.9%	0.9%		2 298	2 383	-3.5%	8 297	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change³ year-to-date compared to same period last year

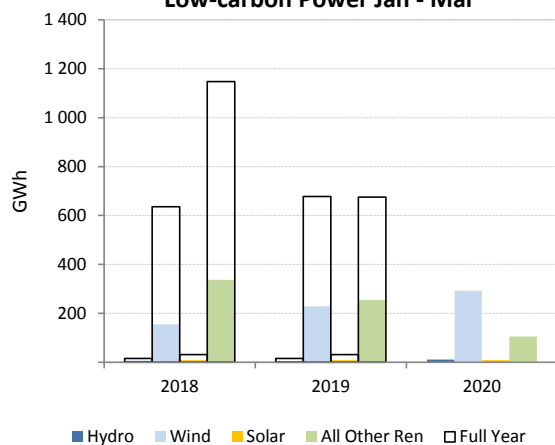
Electricity Production



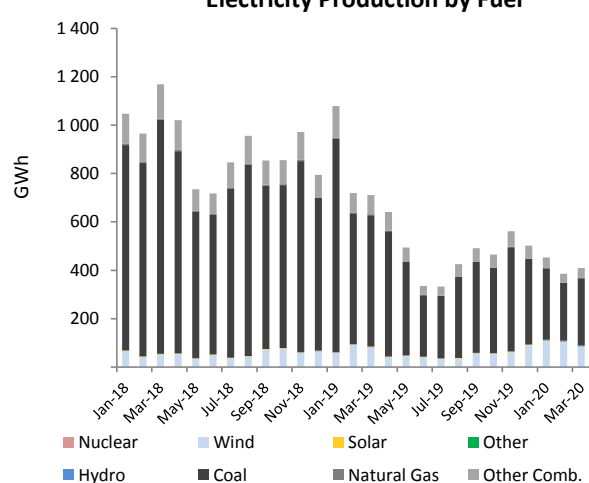
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

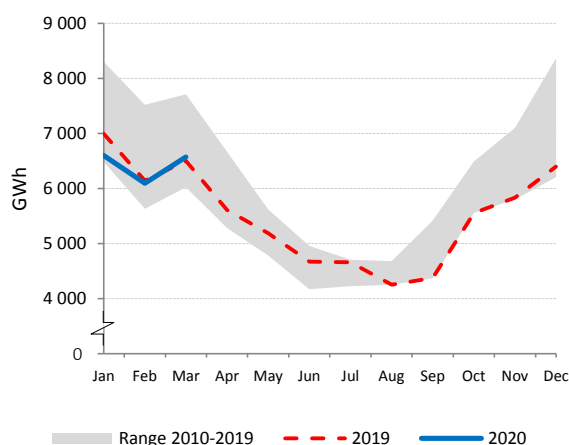


FINLAND

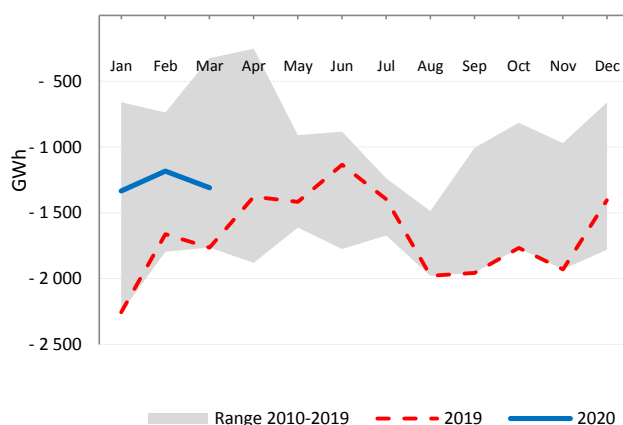
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	2 099	-22.9%	8.4%	32.0%	6 266	8 970	-30.1%	24 604	37.2%
Coal	703	-28.6%	-8.2%	10.7%	2 223	3 269	-32.0%	8 269	12.5%
Oil	21	-19.1%	13.3%	0.3%	61	85	-27.9%	275	0.4%
Natural Gas	344	-27.2%	-2.5%	5.2%	1 136	1 825	-37.8%	3 863	5.8%
Combustible Renewables	995	-17.1%	29.5%	15.2%	2 745	3 668	-25.2%	11 773	17.8%
Other Combustibles ⁴	36	-11.5%	15.0%	0.5%	101	123	-18.2%	425	0.6%
Nuclear	2 030	-2.0%	4.3%	30.9%	6 060	6 020	0.7%	22 916	34.6%
Hydro	1 553	59.6%	10.5%	23.6%	4 247	2 756	54.1%	12 268	18.5%
Wind	850	20.8%	9.4%	12.9%	2 604	1 819	43.2%	5 963	9.0%
Solar	17	104.4%	173.8%	0.3%	24	11	116.6%	181	0.3%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	20	-	-	0.3%	60	60	-	240	0.4%
RENEWABLES	3 415	18.4%	15.4%	52.0%	9 620	8 255	16.5%	30 185	45.6%
NON-RENEWABLES	3 154	-12.7%	0.6%	48.0%	9 641	11 381	-15.3%	35 987	54.4%
TOTAL NET PRODUCTION	6 569	1.1%	7.8%		19 261	19 636	-1.9%	66 172	
+ Imports	1 853	-5.1%	7.7%		5 506	6 266	-12.1%	23 938	
- Exports	543	188.7%	1.0%		1 679	585	186.9%	3 898	
= ELECTRICITY SUPPLIED	7 879	-4.7%	8.3%		23 088	25 317	-8.8%	86 212	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	273	-4.7%	8.3%		799	875	-8.7%	2 981	
= ELECTRICITY CONSUMED	7 607	-4.7%	8.3%		22 289	24 442	-8.8%	83 230	

¹ current month to month of last year change⁴ includes generation from peat² month-to-month change³ year-to-date compared to same period last year

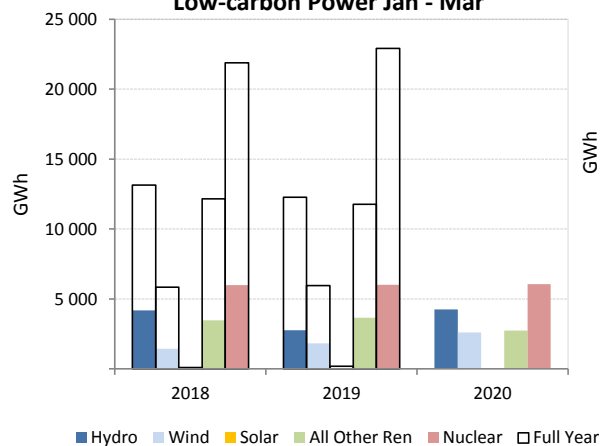
Electricity Production



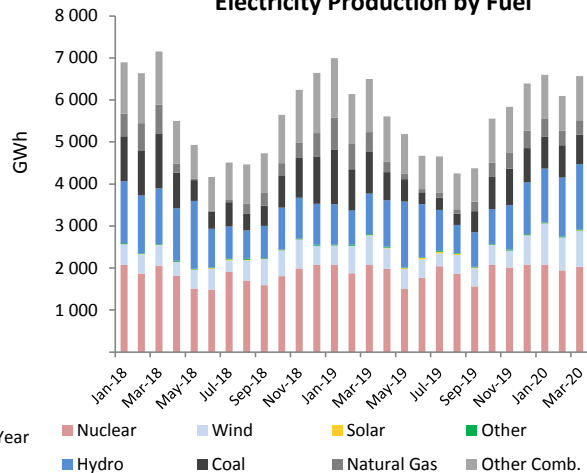
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

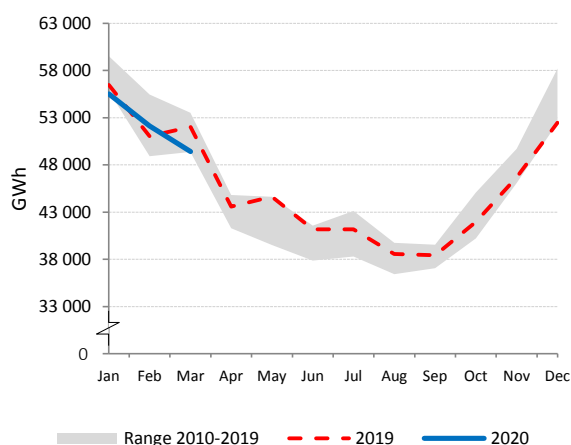


FRANCE

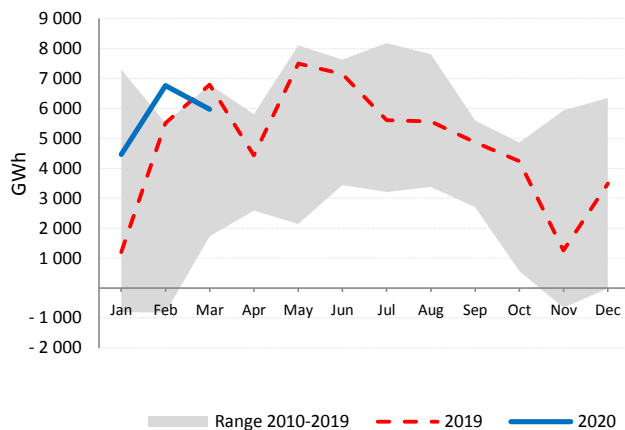
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	4 846	-0.9%	-2.0%	9.8%	16 091	17 867	-9.9%	54 154	9.9%
Coal	164	7.7%	-36.0%	0.3%	768	1 364	-43.7%	3 822	0.7%
Oil	538	7.2%	0.7%	1.1%	1 597	1 534	4.1%	6 073	1.1%
Natural Gas	3 469	6.5%	-3.3%	7.0%	11 990	12 786	-6.2%	37 613	6.9%
Combustible Renewables	675	-31.0%	19.1%	1.4%	1 735	2 184	-20.5%	6 646	1.2%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	30 623	-13.7%	-7.7%	62.0%	101 151	111 740	-9.5%	379 445	69.2%
Hydro	7 706	40.2%	16.8%	15.6%	20 932	16 181	29.4%	63 775	11.6%
Wind	4 913	-0.2%	-23.9%	9.9%	15 929	11 028	44.4%	37 404	6.8%
Solar	1 200	8.2%	41.9%	2.4%	2 620	2 383	9.9%	12 094	2.2%
Geothermal ⁴	13	-2.7%	-	0.0%	38	39	-2.7%	156	0.0%
Other Renewables	40	-	-	0.1%	119	119	-	474	0.1%
Non-Specified	55	-	-	0.1%	164	164	-	657	0.1%
RENEWABLES	14 546	15.8%	0.2%	29.4%	41 373	31 934	29.6%	120 549	22.0%
NON-RENEWABLES	34 849	-11.7%	-7.3%	70.6%	115 671	127 588	-9.3%	427 610	78.0%
TOTAL NET PRODUCTION	49 395	-5.0%	-5.2%		157 044	159 522	-1.6%	548 159	
+ Imports	1 035	50.7%	106.4%		3 140	4 605	-31.8%	15 709	
- Exports	7 011	-6.3%	-3.5%		20 345	18 110	12.3%	73 315	
= ELECTRICITY SUPPLIED	43 419	-4.0%	-4.3%		139 839	146 017	-4.2%	490 553	
- Used for pumped storage	574	0.5%	-11.4%		1 754	1 530	14.6%	6 327	
- T&D Losses	3 641	2.7%	-6.1%		12 041	12 483	-3.5%	39 143	
= ELECTRICITY CONSUMED	39 204	-4.6%	-4.0%		126 044	132 004	-4.5%	445 083	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

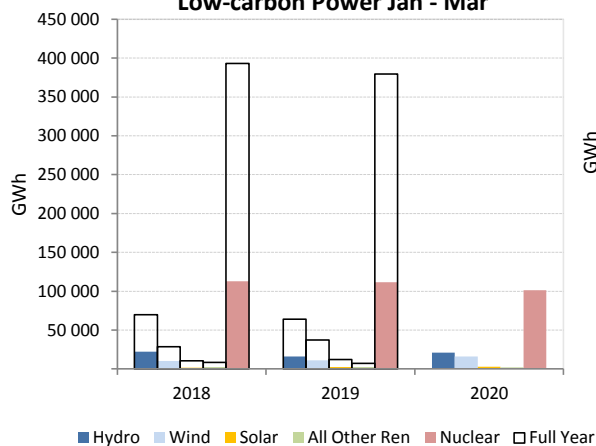
Electricity Production



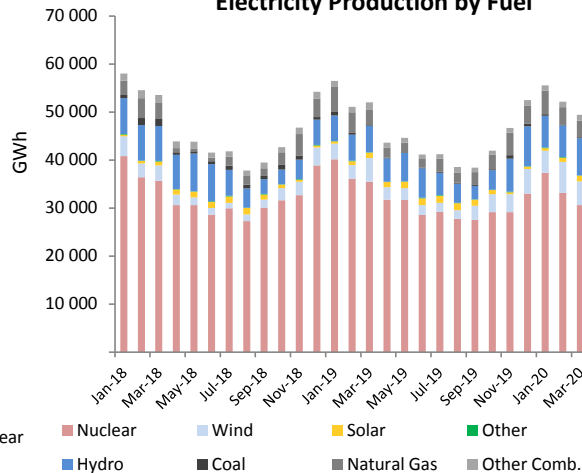
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

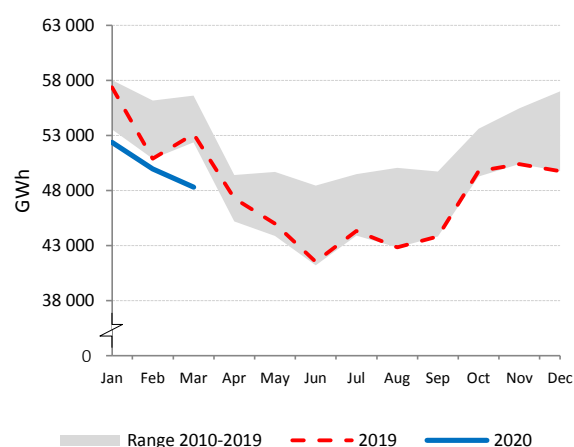


GERMANY

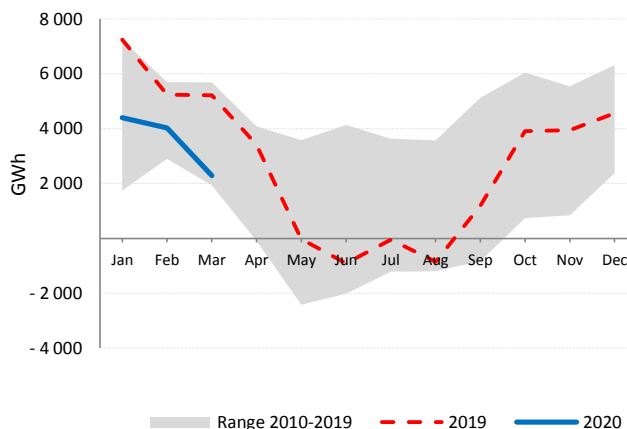
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	22 007	-9.0%	7.0%	45.6%	70 225	87 807	-20.0%	310 636	53.9%
Coal	9 936	-22.0%	14.3%	20.6%	32 357	49 326	-34.4%	165 423	28.7%
Oil	355	-6.6%	2.2%	0.7%	1 091	1 192	-8.4%	4 581	0.8%
Natural Gas	7 230	8.3%	1.7%	15.0%	23 232	23 791	-2.3%	87 614	15.2%
Combustible Renewables	3 992	3.5%	1.6%	8.3%	12 044	11 912	1.1%	46 664	8.1%
Other Combustibles	494	-8.6%	2.7%	1.0%	1 501	1 587	-5.4%	6 354	1.1%
Nuclear	5 371	-19.5%	4.6%	11.1%	16 285	19 608	-16.9%	70 591	12.3%
Hydro	2 575	-7.1%	5.0%	5.3%	6 999	7 159	-2.2%	27 606	4.8%
Wind	13 865	-14.0%	-30.3%	28.7%	49 401	40 402	22.3%	121 007	21.0%
Solar	4 362	34.7%	142.2%	9.0%	7 344	6 013	22.1%	44 506	7.7%
Geothermal	14	-	-9.5%	0.0%	46	40	13.9%	144	0.0%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	113	-8.4%	-2.7%	0.2%	345	342	0.9%	1 527	0.3%
RENEWABLES	24 808	-4.6%	-11.6%	51.4%	75 833	65 526	15.7%	239 927	41.7%
NON-RENEWABLES	23 498	-13.4%	7.4%	48.6%	74 811	95 844	-21.9%	336 090	58.3%
TOTAL NET PRODUCTION	48 307	-9.1%	-3.3%		150 645	161 371	-6.6%	576 017	
+ Imports	3 745	55.0%	18.3%		10 331	5 964	73.2%	40 156	
- Exports	6 031	-21.0%	-16.1%		21 046	23 663	-11.1%	73 042	
= ELECTRICITY SUPPLIED	46 021	-4.0%	0.2%		139 930	143 672	-2.6%	543 130	
- Used for pumped storage	774	0.8%	-2.7%		2 303	2 202	4.6%	8 165	
- T&D Losses	2 420	0.3%	-8.4%		7 965	7 720	3.2%	26 458	
= ELECTRICITY CONSUMED	42 827	-4.3%	0.8%		129 663	133 750	-3.1%	508 507	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

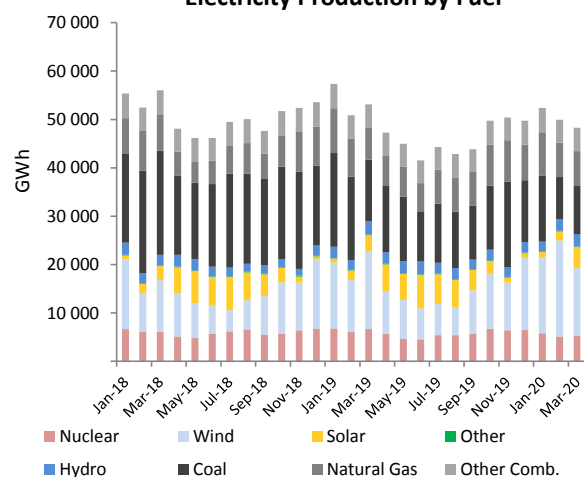
Electricity Production



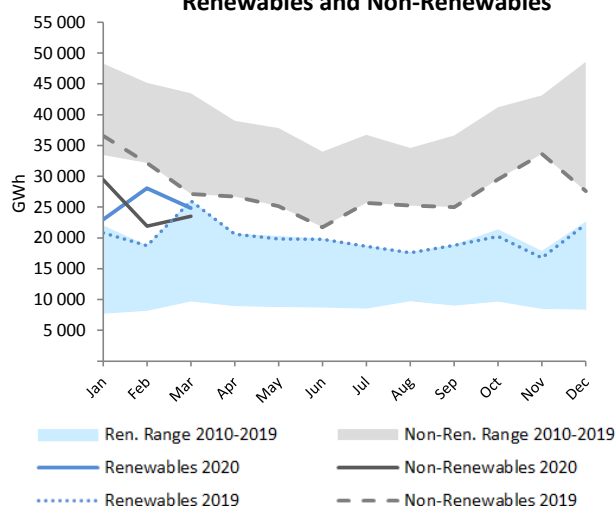
Net Electricity Exports



Electricity Production by Fuel



Renewables and Non-Renewables

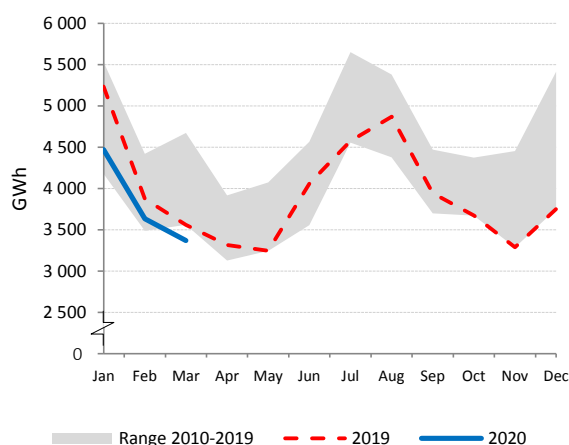


GREECE

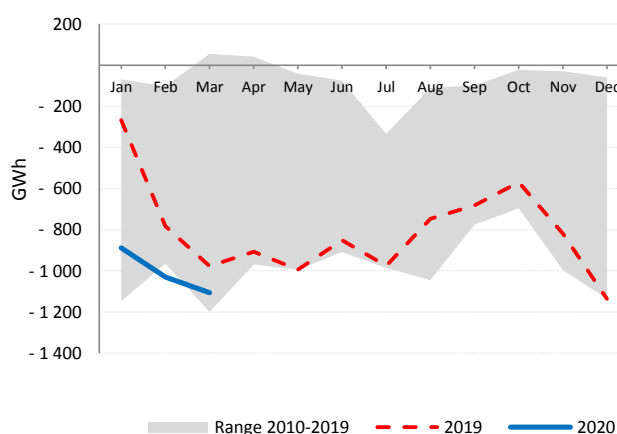
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	2 003	-13.0%	-16.1%	59.5%	7 573	8 905	-15.0%	32 613	68.8%
Coal	551	-46.8%	-30.0%	16.4%	2 507	3 489	-26.2%	11 255	23.8%
Oil	327	-3.0%	-8.8%	9.7%	1 093	1 131	-3.4%	5 189	11.0%
Natural Gas	1 101	27.7%	-5.3%	32.7%	3 870	4 154	-6.8%	15 714	33.2%
Combustible Renewables ⁴	17	-13.0%	-16.1%	0.5%	64	75	-15.0%	274	0.6%
Other Combustibles ⁴	8	-54.1%	-39.6%	0.2%	39	57	-31.2%	181	0.4%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	214	-8.8%	39.4%	6.3%	612	985	-37.8%	3 527	7.4%
Wind	819	21.8%	1.7%	24.3%	2 411	2 018	19.5%	7 278	15.4%
Solar	333	-4.5%	17.4%	9.9%	875	755	15.8%	3 960	8.4%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	1 383	8.4%	9.5%	41.0%	3 962	3 833	3.4%	15 039	31.7%
NON-RENEWABLES	1 987	-13.0%	-16.1%	59.0%	7 509	8 831	-15.0%	32 339	68.3%
TOTAL NET PRODUCTION	3 369	-5.3%	-7.2%		11 471	12 664	-9.4%	47 378	
+ Imports	1 111	4.0%	7.1%		3 065	2 547	20.3%	10 869	
- Exports	5	-94.1%	-34.3%		41	522	-92.1%	1 167	
= ELECTRICITY SUPPLIED	4 475	-1.3%	-4.0%		14 494	14 689	-1.3%	57 080	
- Used for pumped storage	27	275.4%	179.5%		42	8	412.1%	47	
- T&D Losses	385	-7.3%	3.6%		1 198	1 316	-9.0%	4 936	
= ELECTRICITY CONSUMED	4 063	-1.2%	-5.1%		13 253	13 364	-0.8%	52 098	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change³ year-to-date compared to same period last year

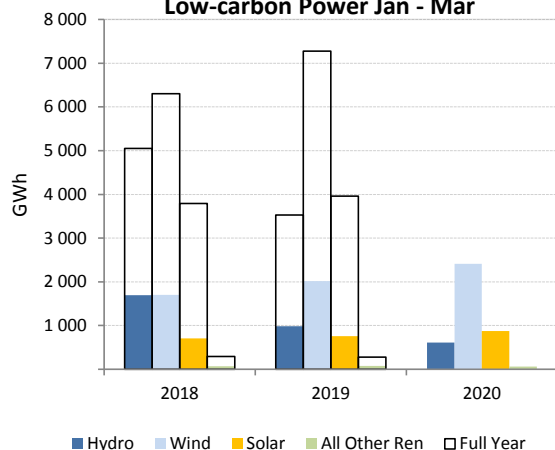
Electricity Production



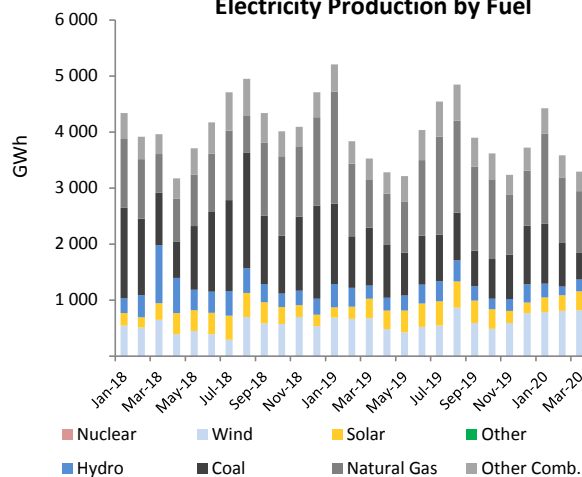
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

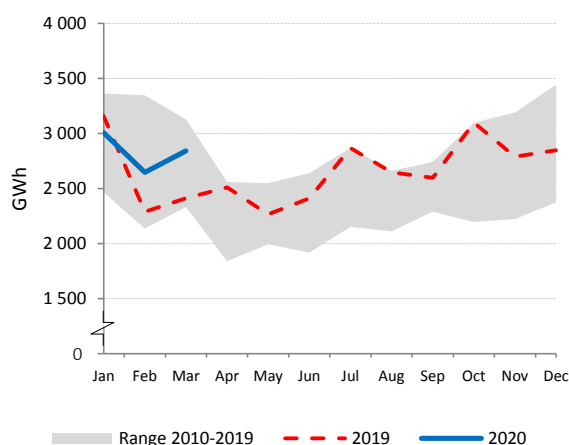


HUNGARY

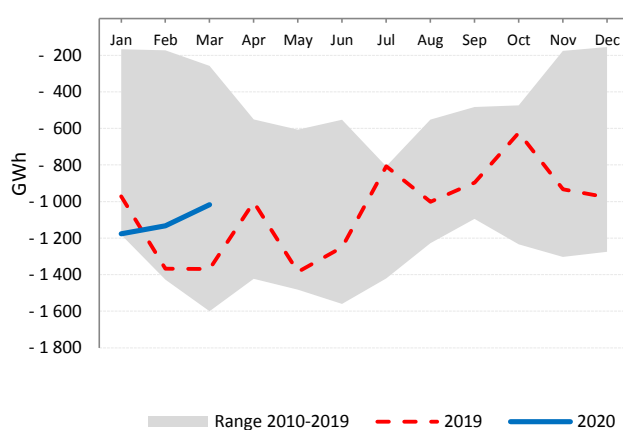
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 182	6.8%	-13.2%	41.6%	3 976	3 773	5.4%	13 997	43.9%
Coal	354	-4.4%	5.2%	12.5%	1 041	1 082	-3.8%	3 834	12.0%
Oil	4	-18.0%	62.4%	0.1%	9	14	-34.8%	60	0.2%
Natural Gas	670	30.4%	-23.9%	23.6%	2 487	2 095	18.7%	7 857	24.6%
Combustible Renewables	137	-29.6%	10.7%	4.8%	384	522	-26.3%	1 976	6.2%
Other Combustibles	17	-27.9%	-7.1%	0.6%	54	60	-9.6%	270	0.8%
Nuclear	1 362	25.7%	33.5%	47.9%	3 828	3 543	8.0%	15 412	48.3%
Hydro	14	-23.5%	-21.6%	0.5%	52	57	-8.5%	213	0.7%
Wind	70	-4.1%	-31.7%	2.5%	210	230	-8.7%	705	2.2%
Solar	202	72.7%	53.9%	7.1%	395	220	79.2%	1 422	4.5%
Geothermal	1	17.3%	3.2%	0.0%	3	2	17.9%	9	0.0%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	11	-	-	0.4%	32	32	-	127	0.4%
RENEWABLES	424	5.0%	12.6%	14.9%	1 044	1 032	1.2%	4 325	13.6%
NON-RENEWABLES	2 418	20.5%	6.6%	85.1%	7 451	6 826	9.2%	27 560	86.4%
TOTAL NET PRODUCTION	2 842	17.9%	7.4%		8 496	7 858	8.1%	31 885	
+ Imports	1 618	-12.4%	-15.2%		5 451	5 547	-1.7%	19 854	
- Exports	601	25.4%	-22.6%		2 125	1 839	15.5%	7 268	
= ELECTRICITY SUPPLIED	3 860	2.1%	2.2%		11 822	11 565	2.2%	44 470	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	277	-6.8%	-3.8%		902	990	-8.9%	3 307	
= ELECTRICITY CONSUMED	3 583	2.9%	2.6%		10 920	10 575	3.3%	41 163	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

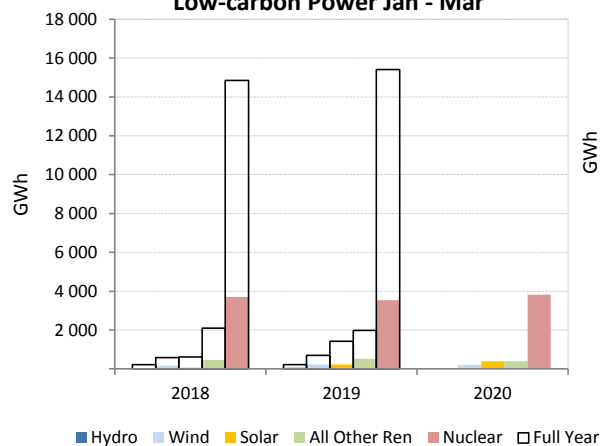
Electricity Production



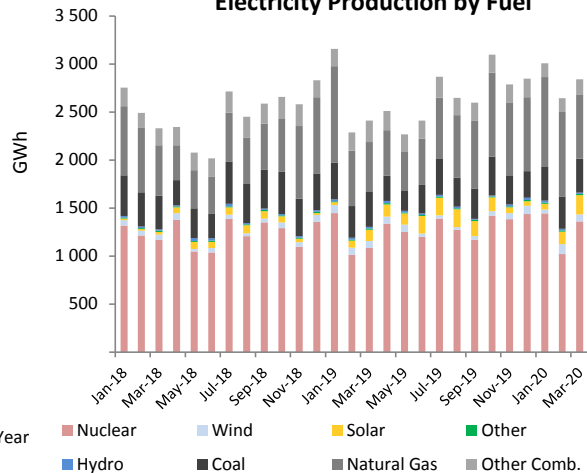
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

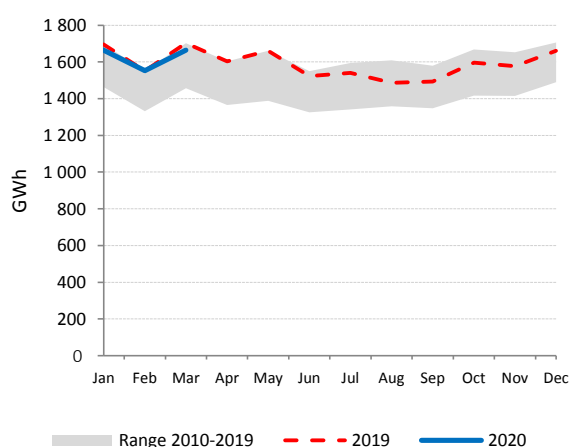


ICELAND

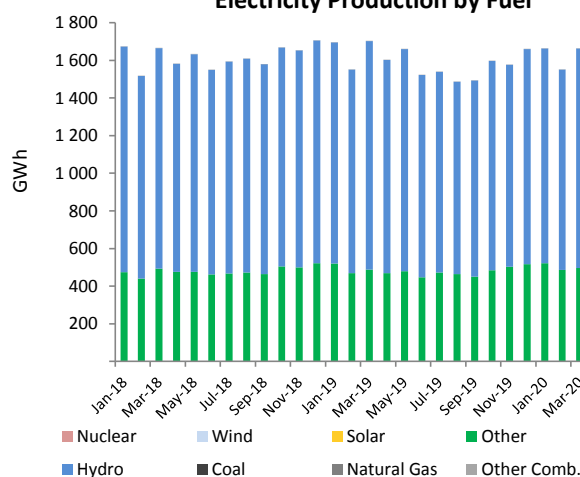
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	0	33.6%	-73.7%	0.0%	2	0	332.8%	3	0.0%
Coal	-	-	-	-	-	-	-	-	-
Oil	0	33.6%	-73.7%	0.0%	2	0	332.8%	3	0.0%
Natural Gas	-	-	-	-	-	-	-	-	-
Combustible Renewables	-	-	-	-	-	-	-	-	-
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1 168	-3.9%	9.6%	70.1%	3 374	3 473	-2.9%	13 328	69.8%
Wind	1	23.0%	12.5%	0.0%	2	2	24.0%	7	0.0%
Solar	-	-	-	-	-	-	-	-	-
Geothermal	496	1.9%	2.1%	29.8%	1 503	1 475	1.9%	5 755	30.1%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	1 664	-2.2%	7.2%	100.0%	4 879	4 950	-1.4%	19 090	100.0%
NON-RENEWABLES	0	34.5%	-73.7%	0.0%	2	0	333.8%	3	0.0%
TOTAL NET PRODUCTION	1 664	-2.2%	7.2%		4 881	4 950	-1.4%	19 093	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	1 664	-2.2%	7.2%		4 881	4 950	-1.4%	19 093	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	47	-1.0%	4.2%		140	141	-1.0%	559	
= ELECTRICITY CONSUMED	1 617	-2.3%	7.3%		4 741	4 809	-1.4%	18 534	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

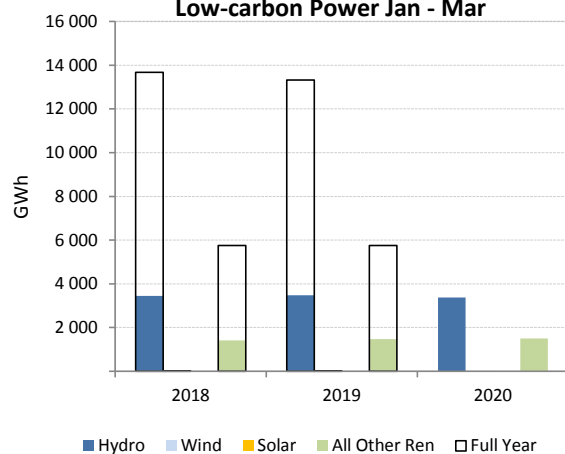
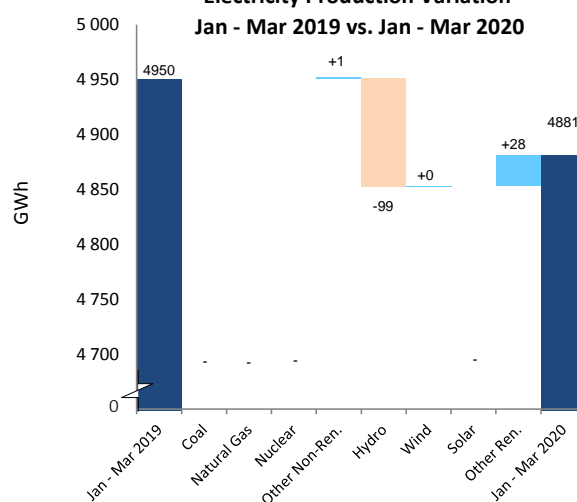
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

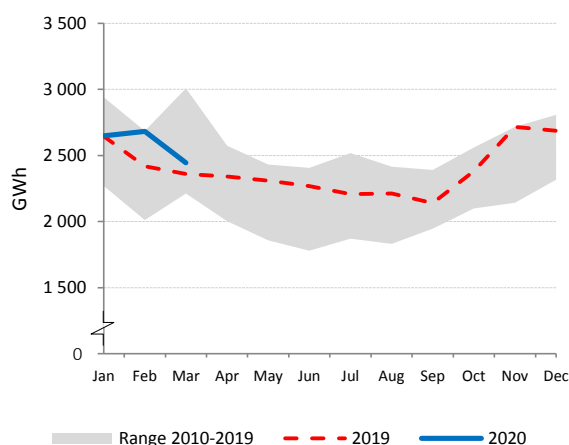
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

IRELAND

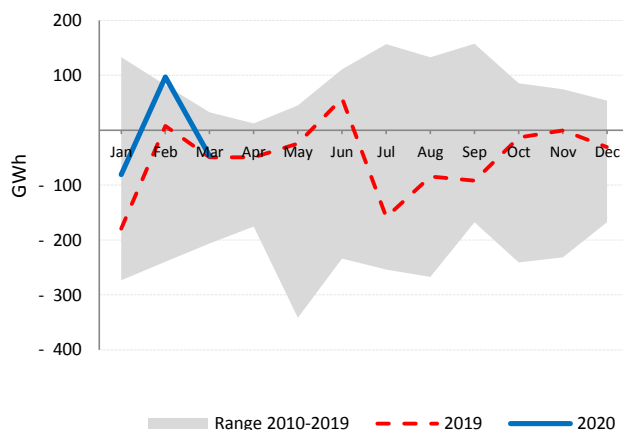
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 353	0.2%	21.5%	55.3%	3 849	4 168	-7.6%	17 895	62.4%
Coal	55	-53.4%	-	2.2%	62	541	-88.5%	1 122	3.9%
Oil	25	35.8%	105.9%	1.0%	67	80	-16.4%	328	1.1%
Natural Gas	1 157	2.3%	17.5%	47.3%	3 358	3 294	2.0%	15 384	53.6%
Combustible Renewables	95	63.4%	0.0%	3.9%	293	176	66.1%	779	2.7%
Other Combustibles	22	-16.3%	-1.3%	0.9%	69	77	-10.4%	281	1.0%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	148	10.5%	6.2%	6.0%	416	328	26.6%	1 116	3.9%
Wind	943	7.9%	-34.0%	38.6%	3 508	2 925	19.9%	9 656	33.7%
Solar	1	-	74.8%	0.1%	3	3	-	17	0.1%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	1 188	11.2%	-28.6%	48.6%	4 219	3 432	22.9%	11 568	40.3%
NON-RENEWABLES	1 258	-2.6%	23.5%	51.4%	3 557	3 992	-10.9%	17 116	59.7%
TOTAL NET PRODUCTION	2 446	3.6%	-8.8%		7 776	7 424	4.7%	28 684	
+ Imports	185	-8.4%	43.7%		524	603	-13.2%	2 097	
- Exports	138	-9.3%	-38.9%		493	382	29.0%	1 481	
= ELECTRICITY SUPPLIED	2 493	3.4%	-3.6%		7 807	7 645	2.1%	29 300	
- Used for pumped storage	48	14.6%	3.7%		143	127	13.1%	478	
- T&D Losses	184	2.7%	-6.4%		580	561	3.4%	2 152	
= ELECTRICITY CONSUMED	2 261	3.3%	-3.5%		7 083	6 957	1.8%	26 670	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

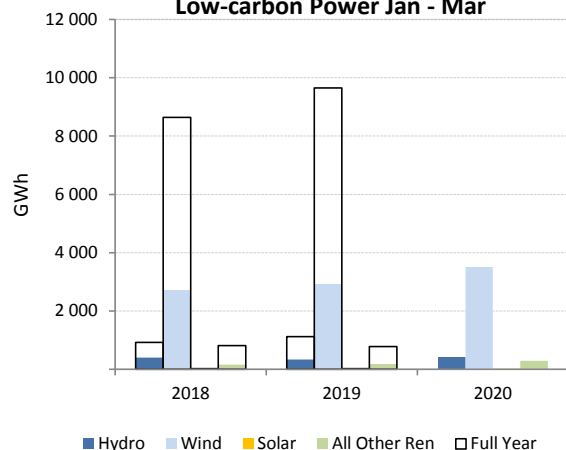
Electricity Production



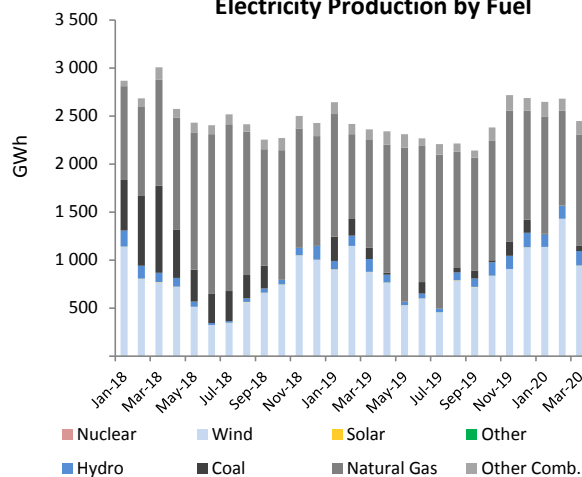
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

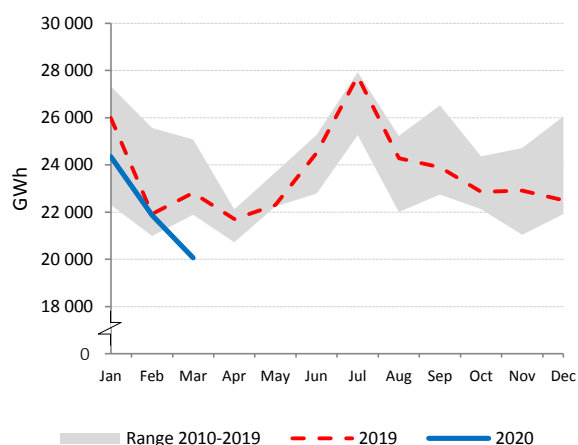


ITALY

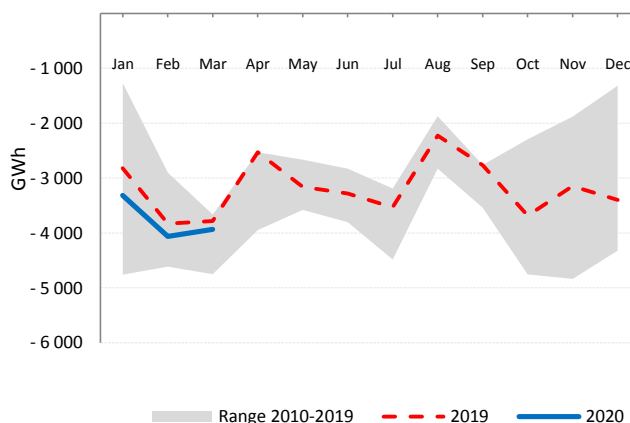
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	12 861	-16.0%	-11.4%	64.1%	44 682	49 315	-9.4%	185 556	65.5%
Coal ⁵	2 072	-16.0%	-11.4%	10.3%	7 199	7 946	-9.4%	29 897	10.5%
Oil ⁵	738	-16.0%	-11.4%	3.7%	2 565	2 831	-9.4%	10 652	3.8%
Natural Gas ⁵	8 604	-16.0%	-11.4%	42.9%	29 893	32 992	-9.4%	124 140	43.8%
Combustible Renewables ⁵	1 282	-16.0%	-11.4%	6.4%	4 454	4 916	-9.4%	18 497	6.5%
Other Combustibles ⁵	164	-16.0%	-11.4%	0.8%	571	630	-9.4%	2 370	0.8%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2 859	32.1%	7.3%	14.2%	9 002	7 663	17.5%	47 582	16.8%
Wind	1 785	-28.1%	-26.7%	8.9%	6 017	7 208	-16.5%	20 340	7.2%
Solar	2 015	-13.0%	16.0%	10.0%	4 981	4 971	0.2%	23 665	8.4%
Geothermal	502	3.3%	8.3%	2.5%	1 460	1 428	2.2%	5 736	2.0%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	44	-	-	0.2%	133	133	-	533	0.2%
RENEWABLES	8 444	-5.9%	-3.5%	42.1%	25 913	26 187	-1.0%	115 821	40.9%
NON-RENEWABLES	11 623	-16.0%	-11.4%	57.9%	40 361	44 532	-9.4%	167 592	59.1%
TOTAL NET PRODUCTION	20 067	-12.0%	-8.2%		66 274	70 719	-6.3%	283 413	
+ Imports	4 435	5.6%	-3.9%		13 111	11 706	12.0%	43 977	
- Exports	499	19.4%	-8.8%		1 795	1 273	40.9%	5 823	
= ELECTRICITY SUPPLIED	24 003	-9.7%	-7.4%		77 591	81 151	-4.4%	321 567	
- Used for pumped storage	315	36.3%	63.4%		684	680	0.6%	2 498	
- T&D Losses ⁴	1 348	-9.3%	-7.5%		4 367	4 534	-3.7%	18 009	
= ELECTRICITY CONSUMED	22 341	-10.2%	-8.0%		72 540	75 937	-4.5%	301 061	

¹ current month to month of last year change⁴ estimated² month-to-month change⁵ estimated from annual data³ year-to-date compared to same period last year

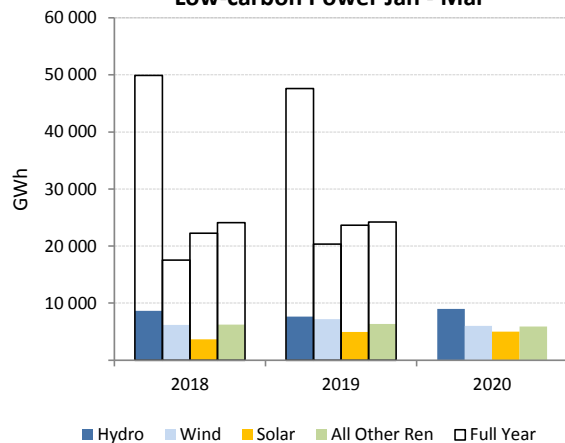
Electricity Production



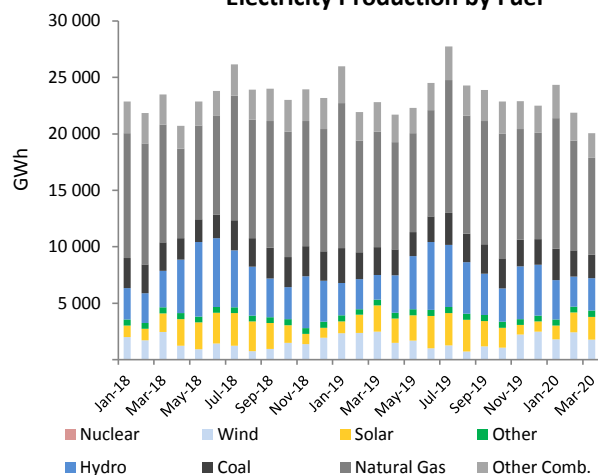
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel



JAPAN

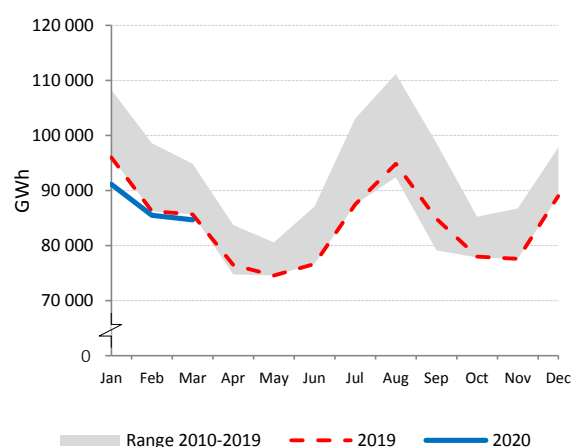
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	62 786	-3.2%	-4.9%	74.1%	201 513	210 468	-4.3%	756 081	75.1%
Coal	28 022	1.9%	-4.0%	33.1%	88 248	86 628	1.9%	321 098	31.9%
Oil	1 962	-43.2%	-13.4%	2.3%	7 755	13 570	-42.8%	40 101	4.0%
Natural Gas	28 262	-5.2%	-6.9%	33.4%	92 303	99 202	-7.0%	352 800	35.0%
Combustible Renewables	4 540	113.9%	7.9%	5.4%	13 207	5 863	125.3%	36 878	3.7%
Other Combustibles ⁴	-	-	-	-	-	5 204	-	5 204	0.5%
Nuclear	4 998	-23.5%	2.3%	5.9%	14 610	18 959	-22.9%	63 034	6.3%
Hydro	7 635	24.1%	19.9%	9.0%	20 162	15 985	26.1%	83 827	8.3%
Wind	842	6.0%	-6.9%	1.0%	2 722	2 533	7.4%	8 012	0.8%
Solar	6 060	16.5%	24.4%	7.2%	14 913	13 188	13.1%	68 705	6.8%
Geothermal	217	9.0%	3.2%	0.3%	667	575	16.0%	2 440	0.2%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	2 145	9.0%	-3.7%	2.5%	6 731	6 224	8.2%	25 220	2.5%
RENEWABLES	19 294	33.3%	16.5%	22.8%	51 671	38 145	35.5%	199 861	19.8%
NON-RENEWABLES	65 388	-8.2%	-5.2%	77.2%	209 647	229 788	-8.8%	807 456	80.2%
TOTAL NET PRODUCTION	84 682	-1.2%	-1.0%		261 318	267 933	-2.5%	1 007 318	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	84 682	-1.2%	-1.0%		261 318	267 933	-2.5%	1 007 318	
- Used for pumped storage ⁴	945	3.3%	0.0%		2 891	2 863	1.0%	11 943	
- T&D Losses ⁴	3 766	3.3%	0.0%		11 522	11 408	1.0%	46 756	
= ELECTRICITY CONSUMED	79 972	-1.4%	-1.0%		246 904	253 662	-2.7%	948 619	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change

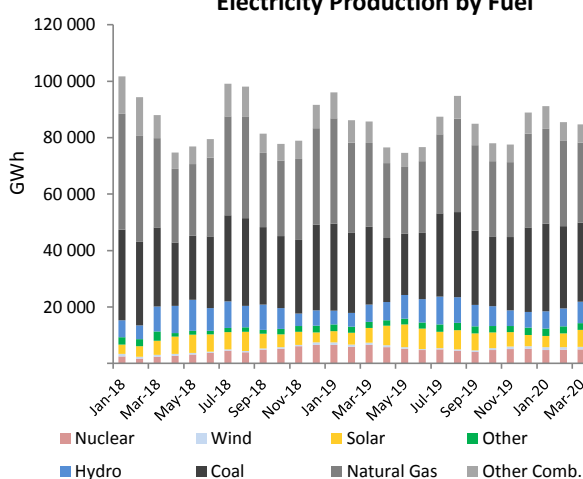
March 2020 is estimated by the IEA Secretariat using usual monthly patterns

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

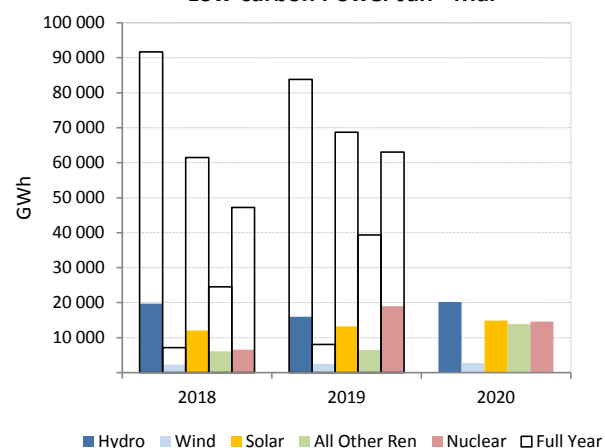
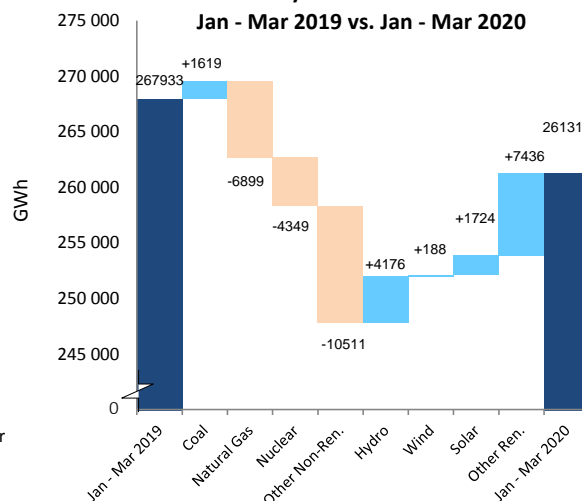
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

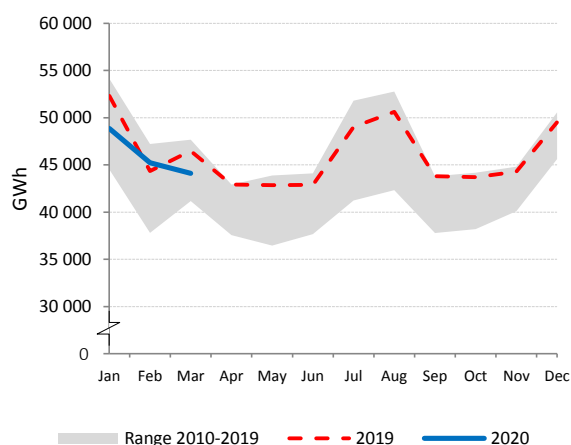
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

KOREA

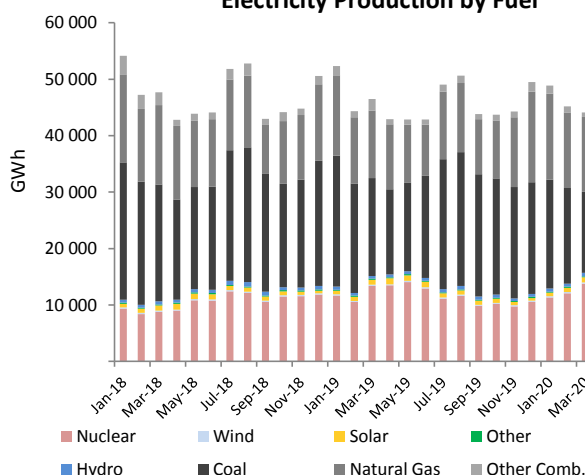
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	28 393	-9.5%	-9.7%	64.4%	95 798	102 683	-6.7%	393 475	71.2%
Coal	14 353	-17.4%	-15.4%	32.5%	50 586	59 975	-15.7%	237 365	42.9%
Oil	260	-82.0%	-46.6%	0.6%	1 420	2 779	-48.9%	7 050	1.3%
Natural Gas	13 230	10.7%	-1.3%	30.0%	41 935	37 940	10.5%	141 434	25.6%
Combustible Renewables	490	-9.5%	-9.7%	1.1%	1 652	1 771	-6.7%	6 787	1.2%
Other Combustibles	61	-9.5%	-9.7%	0.1%	204	219	-6.7%	839	0.2%
Nuclear	13 767	3.1%	14.0%	31.2%	37 171	35 526	4.6%	138 960	25.1%
Hydro	647	44.5%	22.9%	1.5%	1 710	1 476	15.9%	6 222	1.1%
Wind	205	-	-	0.5%	616	616	-	2 464	0.4%
Solar	897	-	20.5%	2.0%	2 278	2 278	-	9 207	1.7%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	40	-	-	0.1%	121	121	-	485	0.1%
Non-Specified	157	-	-	0.4%	471	471	-	1 885	0.3%
RENEWABLES	2 280	6.9%	10.7%	5.2%	6 378	6 263	1.8%	25 165	4.6%
NON-RENEWABLES	41 827	-5.7%	-3.1%	94.8%	131 789	136 909	-3.7%	527 533	95.4%
TOTAL NET PRODUCTION	44 107	-5.1%	-2.4%		138 167	143 172	-3.5%	552 699	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	44 107	-5.1%	-2.4%		138 167	143 172	-3.5%	552 699	
- Used for pumped storage ⁴	394	10.0%	-5.5%		1 220	1 218	0.1%	4 539	
- T&D Losses ⁴	1 417	-5.1%	-2.4%		4 439	4 599	-3.5%	17 755	
= ELECTRICITY CONSUMED	42 295	-5.3%	-2.4%		132 508	137 354	-3.5%	530 404	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

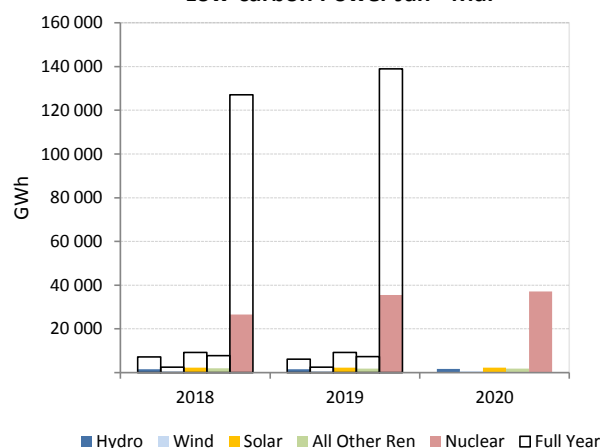
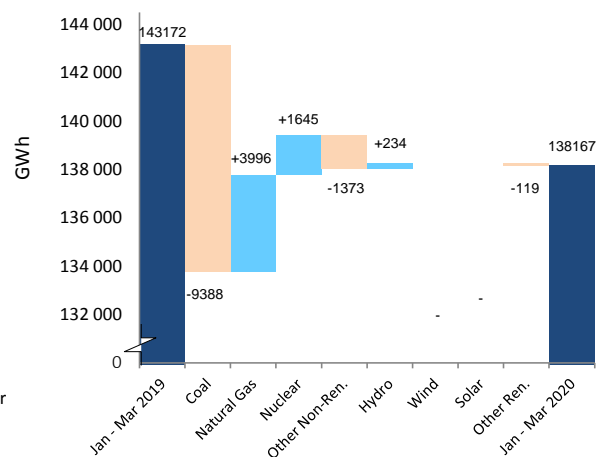
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

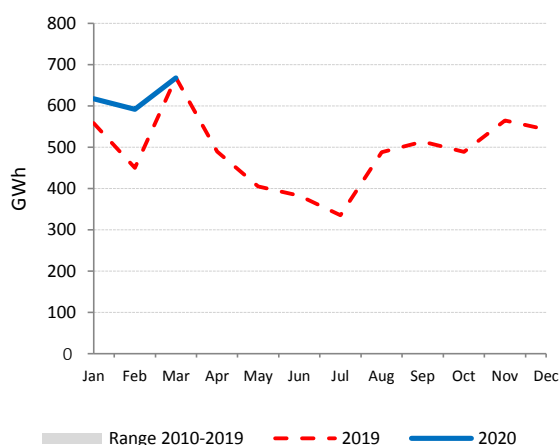
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

LATVIA

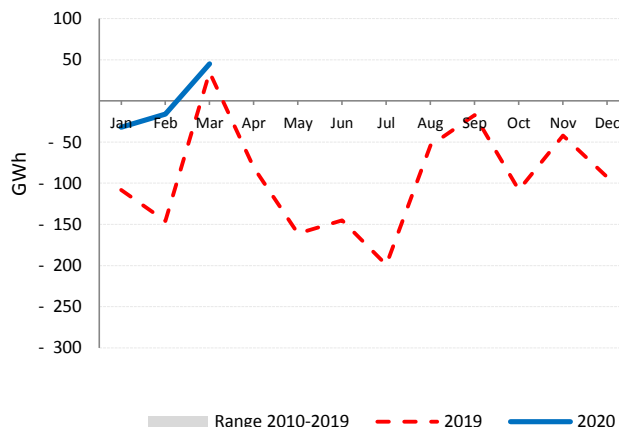
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	164	-37.1%	-19.4%	24.6%	565	1 003	-43.6%	3 636	61.8%
Coal	0	-	-	-	0	0	-	0	0.0%
Oil	-	-	-	-	-	-	-	-	-
Natural Gas	85	-52.7%	-34.5%	12.7%	340	760	-55.3%	2 777	47.2%
Combustible Renewables	79	-2.6%	7.0%	11.9%	226	243	-7.3%	858	14.6%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	486	25.6%	33.2%	72.8%	1 247	623	100.2%	2 095	35.6%
Wind	17	-15.0%	-26.1%	2.6%	64	50	28.0%	153	2.6%
Solar	0	-	158.5%	0.0%	0	0	-	1	0.0%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	582	19.2%	26.0%	87.3%	1 537	917	67.7%	3 108	52.8%
NON-RENEWABLES	85	-52.7%	-34.5%	12.7%	340	760	-55.3%	2 777	47.2%
TOTAL NET PRODUCTION	667	-0.1%	12.8%		1 876	1 676	11.9%	5 885	
+ Imports	240	-21.8%	-26.8%		915	1 164	-21.4%	4 613	
- Exports	285	-16.7%	-8.7%		912	945	-3.5%	3 495	
= ELECTRICITY SUPPLIED	622	-1.7%	2.4%		1 879	1 895	-0.8%	7 004	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses ⁴	36	-7.0%	-1.4%		110	112	-1.7%	414	
= ELECTRICITY CONSUMED	587	-1.4%	2.6%		1 769	1 783	-0.8%	6 590	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

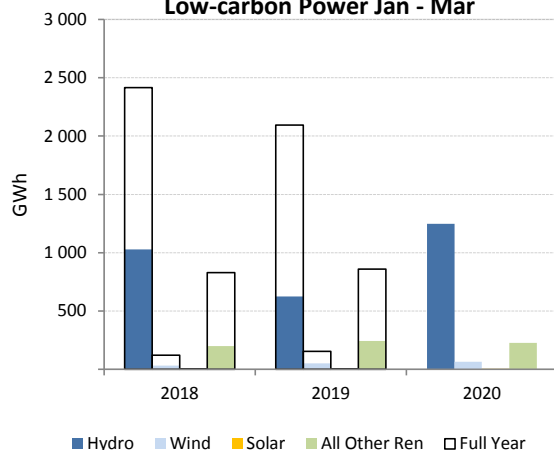
Electricity Production



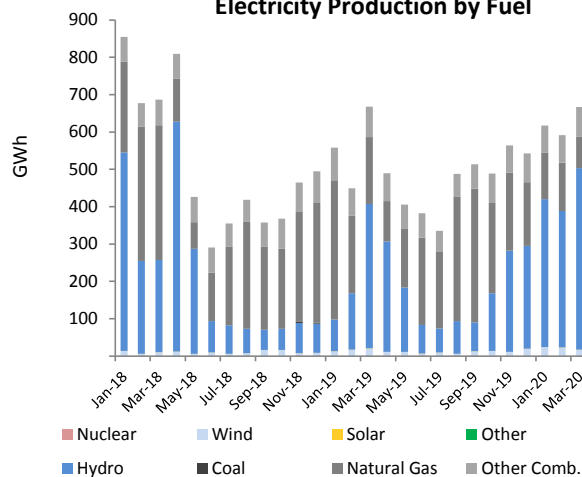
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

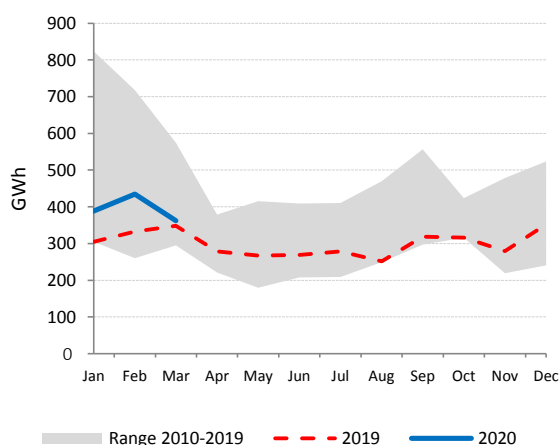


LITHUANIA

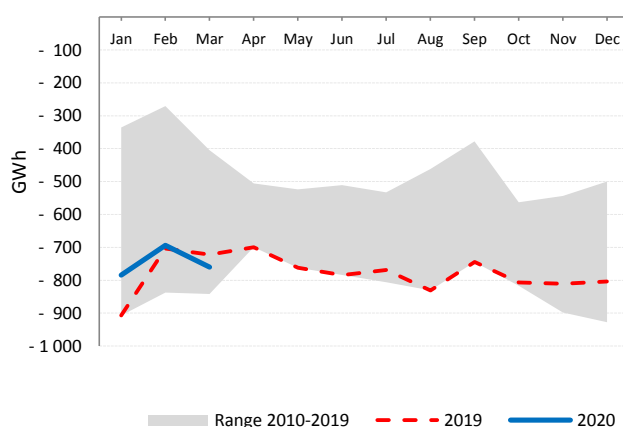
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	115	20.0%	-9.4%	31.8%	351	296	18.4%	1 110	30.9%
Coal	-	-	-	-	-	-	-	-	-
Oil	9	168.8%	-18.1%	2.6%	36	16	133.5%	90	2.5%
Natural Gas	42	11.5%	-26.0%	11.5%	126	118	6.9%	431	12.0%
Combustible Renewables	57	15.2%	8.0%	15.7%	167	144	16.2%	517	14.4%
Other Combustibles	7	25.1%	9.5%	2.0%	20	18	11.5%	72	2.0%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	113	65.4%	4.4%	31.0%	307	217	41.5%	925	25.7%
Wind	128	-28.5%	-35.2%	35.2%	517	464	11.5%	1 483	41.2%
Solar	7	28.0%	166.8%	2.0%	11	9	19.5%	78	2.2%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	304	0.9%	-15.5%	83.9%	1 003	834	20.2%	3 003	83.5%
NON-RENEWABLES	58	25.1%	-21.7%	16.1%	183	152	20.4%	593	16.5%
TOTAL NET PRODUCTION	363	4.1%	-16.6%		1 186	986	20.2%	3 596	
+ Imports	1 113	2.0%	3.3%		3 365	3 297	2.0%	13 268	
- Exports	354	-4.2%	-7.9%		1 127	964	16.9%	3 924	
= ELECTRICITY SUPPLIED	1 122	4.8%	-0.6%		3 423	3 319	3.1%	12 940	
- Used for pumped storage	100	272.3%	3.9%		261	99	162.6%	810	
- T&D Losses	111	15.4%	18.6%		338	284	19.1%	911	
= ELECTRICITY CONSUMED	910	-3.9%	-2.9%		2 824	2 936	-3.8%	11 218	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

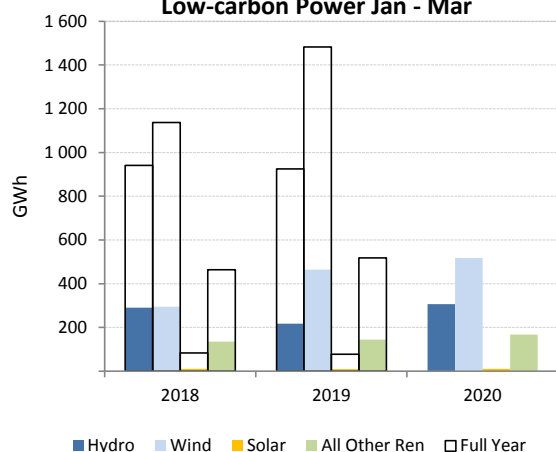
Electricity Production



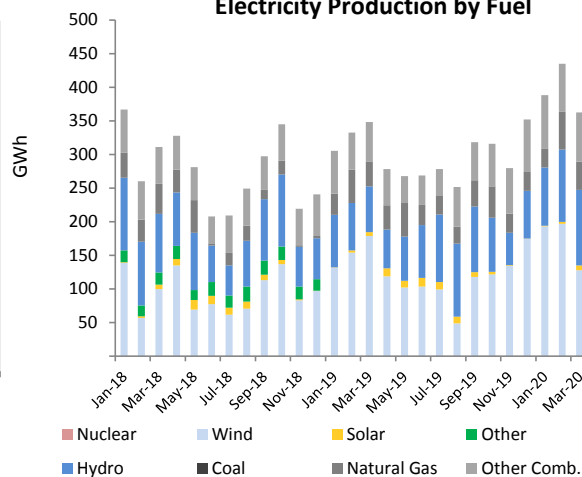
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

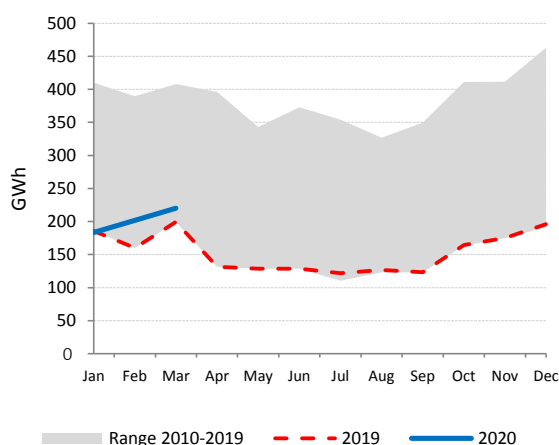


LUXEMBOURG

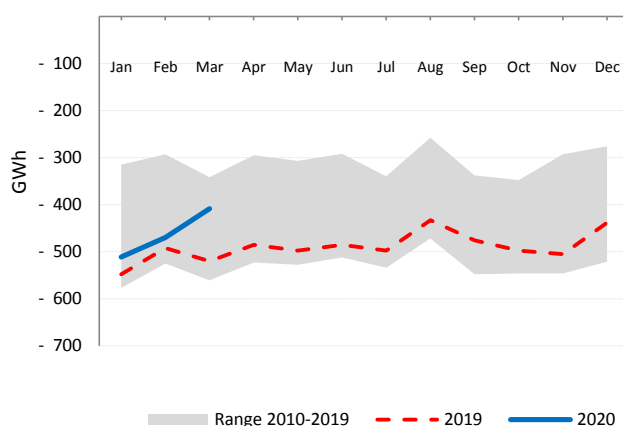
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	52	23.8%	-4.0%	23.4%	160	136	17.7%	515	28.0%
Coal	-	-	-	-	-	-	-	-	-
Oil	-	-	-	-	-	-	-	-	-
Natural Gas	16	-23.8%	0.0%	7.2%	49	67	-26.3%	171	9.3%
Combustible Renewables	32	84.5%	1.0%	14.7%	96	54	77.5%	270	14.7%
Other Combustibles	3	0.0%	-43.0%	1.5%	15	15	-0.8%	75	4.1%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	101	-8.5%	4.1%	46.0%	292	303	-3.8%	938	51.0%
Wind	60	57.3%	28.0%	27.1%	138	88	57.5%	267	14.5%
Solar	8	-16.0%	78.0%	3.5%	15	18	-15.2%	121	6.5%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	201	14.7%	11.5%	91.3%	541	463	16.9%	1 595	86.7%
NON-RENEWABLES	19	-20.5%	-11.6%	8.7%	65	82	-21.5%	245	13.3%
TOTAL NET PRODUCTION	220	10.5%	9.0%		606	545	11.1%	1 841	
+ Imports	493	-21.6%	-10.9%		1 639	1 890	-13.3%	6 818	
- Exports	85	-22.2%	0.9%		249	329	-24.5%	939	
= ELECTRICITY SUPPLIED	629	-12.6%	-6.4%		1 996	2 106	-5.2%	7 719	
- Used for pumped storage	120	-9.4%	2.4%		352	373	-5.8%	1 203	
- T&D Losses	12	-13.3%	-8.1%		39	41	-5.2%	153	
= ELECTRICITY CONSUMED	497	-13.3%	-8.2%		1 606	1 692	-5.1%	6 363	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

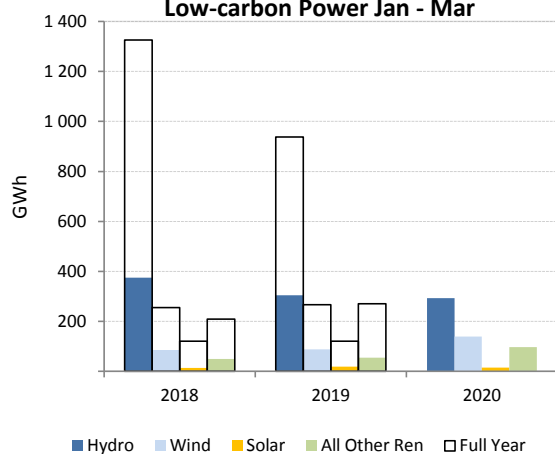
Electricity Production



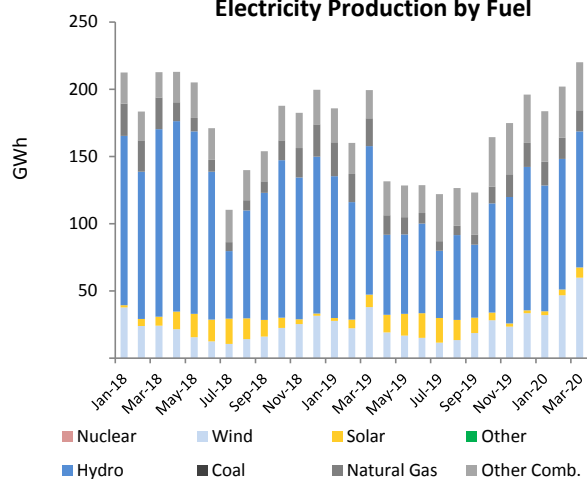
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

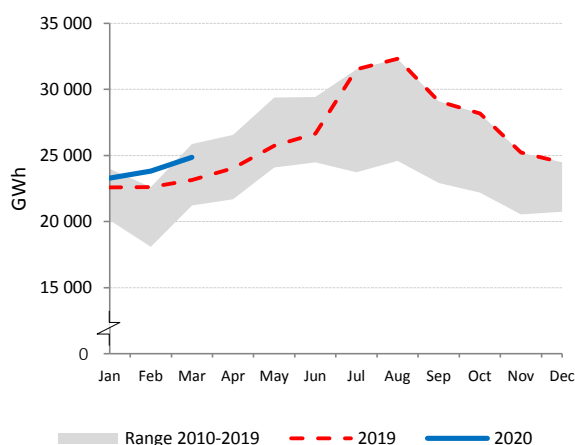


MEXICO

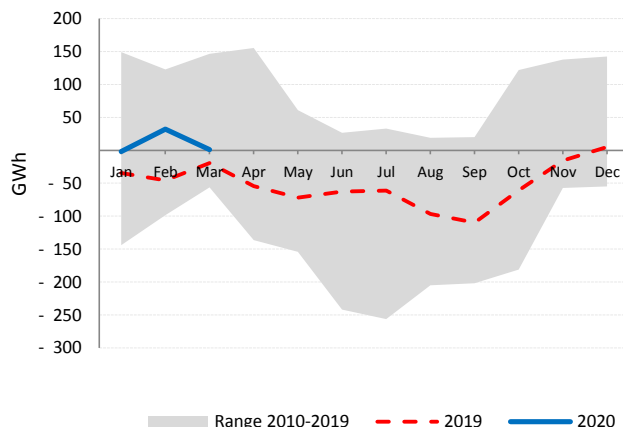
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	18 969	7.3%	3.0%	76.3%	55 380	53 483	3.5%	251 457	79.7%
Coal	1 922	7.3%	3.0%	7.7%	5 612	5 419	3.5%	25 480	8.1%
Oil	2 464	7.3%	3.0%	9.9%	7 194	6 947	3.5%	32 664	10.4%
Natural Gas	14 367	7.3%	3.0%	57.8%	41 944	40 508	3.5%	190 453	60.4%
Combustible Renewables	180	7.3%	3.0%	0.7%	525	507	3.5%	2 384	0.8%
Other Combustibles	36	7.3%	3.0%	0.1%	105	101	3.5%	477	0.2%
Nuclear	1 142	15.3%	-1.3%	4.6%	3 389	2 426	39.7%	11 068	3.5%
Hydro	1 700	-7.9%	45.5%	6.8%	4 073	5 208	-21.8%	23 912	7.6%
Wind	1 699	0.4%	-9.4%	6.8%	5 483	4 571	20.0%	16 725	5.3%
Solar⁵	935	91.3%	19.2%	3.8%	2 377	1 297	83.3%	7 207	2.3%
Geothermal	409	-8.4%	-1.2%	1.6%	1 250	1 347	-7.2%	5 167	1.6%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	4 922	6.1%	11.5%	19.8%	13 709	12 929	6.0%	55 395	17.6%
NON-RENEWABLES	19 932	7.7%	2.8%	80.2%	58 243	55 402	5.1%	260 141	82.4%
TOTAL NET PRODUCTION	24 854	7.4%	4.4%		71 952	68 331	5.3%	315 537	
+ Imports	58	-62.5%	38.6%		140	485	-71.2%	1 590	
- Exports	59	-56.2%	-20.3%		171	386	-55.7%	962	
= ELECTRICITY SUPPLIED	24 853	7.3%	4.5%		71 921	68 430	5.1%	316 164	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses ⁴	3 592	6.9%	4.5%		10 394	9 922	4.8%	42 638	
= ELECTRICITY CONSUMED	21 261	7.4%	4.5%		61 526	58 508	5.2%	273 526	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

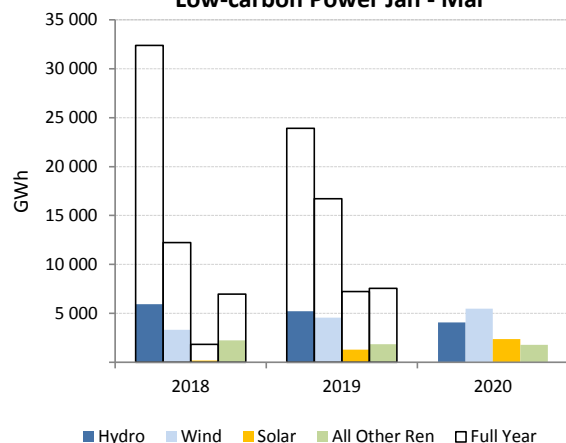
Electricity Production



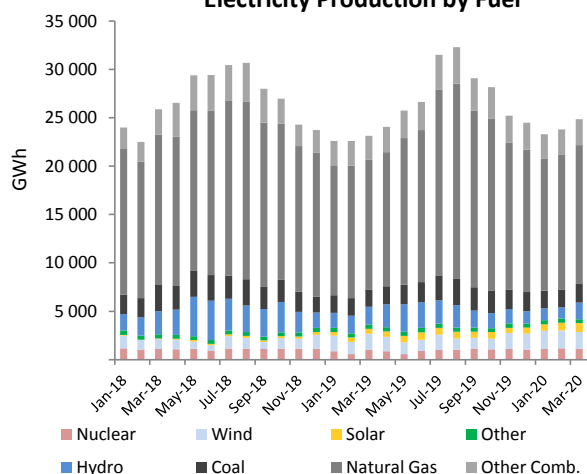
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

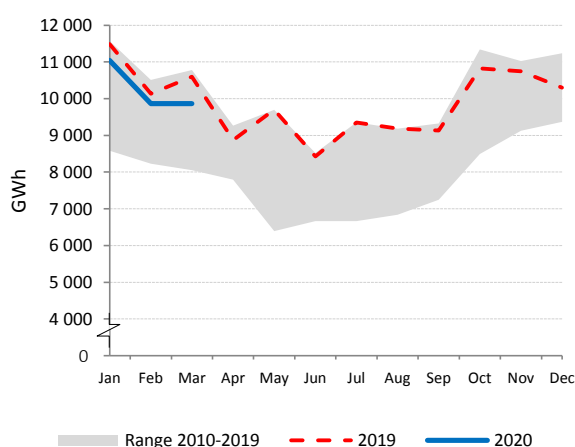


NETHERLANDS

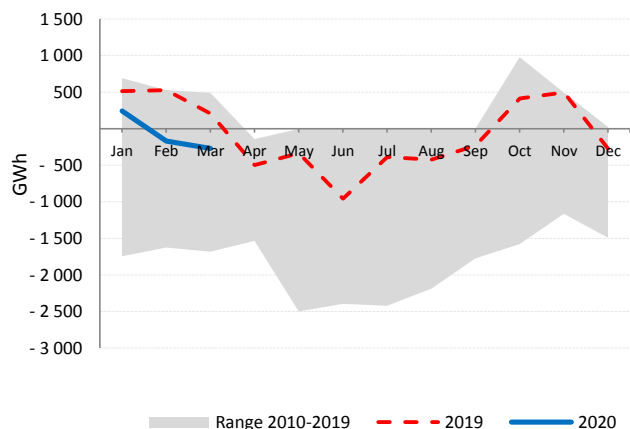
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	7 370	-13.6%	-3.6%	74.7%	24 226	27 168	-10.8%	97 170	81.8%
Coal	863	-52.8%	9.7%	8.7%	2 508	6 514	-61.5%	17 787	15.0%
Oil	338	16.1%	3.7%	3.4%	970	819	18.4%	3 185	2.7%
Natural Gas	5 324	-8.1%	-8.2%	54.0%	18 507	18 040	2.6%	69 110	58.2%
Combustible Renewables	689	60.0%	23.0%	7.0%	1 739	1 177	47.7%	5 033	4.2%
Other Combustibles	154	-14.2%	-9.6%	1.6%	502	618	-18.7%	2 056	1.7%
Nuclear	369	0.1%	9.0%	3.7%	1 076	991	8.6%	3 792	3.2%
Hydro	5	-35.3%	139.1%	0.0%	16	22	-30.3%	62	0.1%
Wind	1 201	-2.4%	-23.3%	12.2%	4 045	3 146	28.6%	9 909	8.3%
Solar	916	100.9%	201.4%	9.3%	1 382	864	60.0%	7 717	6.5%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	9	-	-	0.1%	26	26	-	103	0.1%
RENEWABLES	2 811	32.3%	15.6%	28.5%	7 182	5 209	37.9%	22 721	19.1%
NON-RENEWABLES	7 057	-16.7%	-5.0%	71.5%	23 589	27 008	-12.7%	96 033	80.9%
TOTAL NET PRODUCTION	9 869	-6.9%	0.1%		30 771	32 217	-4.5%	118 754	
+ Imports	2 010	20.6%	21.5%		5 395	4 596	17.4%	20 219	
- Exports	1 739	-7.2%	17.0%		5 199	5 846	-11.1%	19 269	
= ELECTRICITY SUPPLIED	10 140	-2.4%	1.1%		30 968	30 968	0.0%	119 704	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses ⁴	417	-1.5%	2.9%		1 276	1 295	-1.5%	4 893	
= ELECTRICITY CONSUMED	9 723	-2.4%	1.0%		29 692	29 672	0.1%	114 811	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

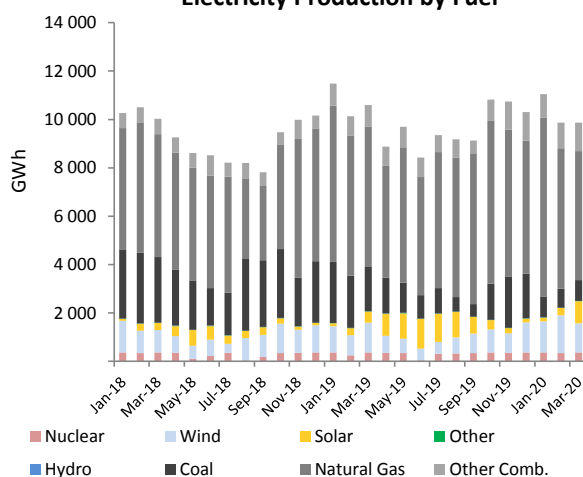
Electricity Production



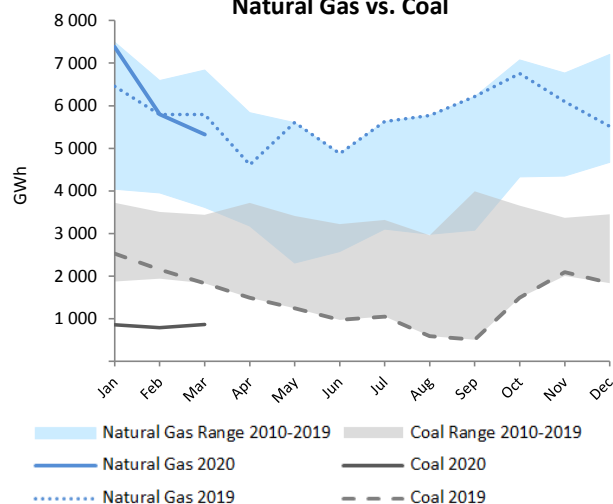
Net Electricity Exports



Electricity Production by Fuel



Natural Gas vs. Coal



NEW ZEALAND

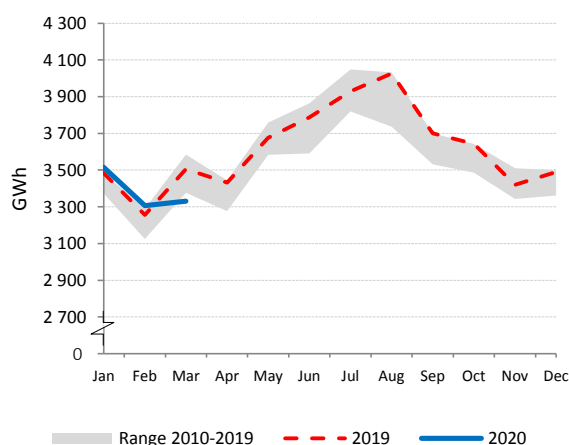
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	577	-32.2%	-2.6%	17.3%	1 726	2 194	-21.3%	8 224	19.0%
Coal	88	-72.6%	16.8%	2.6%	220	682	-67.8%	2 130	4.9%
Oil	0	-49.5%	-13.8%	0.0%	1	1	-43.7%	3	0.0%
Natural Gas	433	-8.3%	-7.3%	13.0%	1 347	1 353	-0.4%	5 487	12.7%
Combustible Renewables	56	-3.3%	12.4%	1.7%	158	158	-0.1%	604	1.4%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1 974	4.3%	0.1%	59.3%	6 119	5 734	6.7%	25 332	58.4%
Wind	176	34.7%	7.2%	5.3%	536	489	9.6%	2 233	5.2%
Solar	12	24.6%	2.0%	0.4%	36	28	29.0%	124	0.3%
Geothermal	587	-4.6%	4.6%	17.6%	1 725	1 788	-3.6%	7 388	17.0%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	4	-	-	0.1%	12	12	-	49	0.1%
RENEWABLES	2 806	3.6%	1.7%	84.2%	8 574	8 198	4.6%	35 681	82.3%
NON-RENEWABLES	526	-34.1%	-3.9%	15.8%	1 580	2 048	-22.8%	7 670	17.7%
TOTAL NET PRODUCTION	3 331	-5.0%	0.7%		10 154	10 246	-0.9%	43 351	
+ Imports	-	-	-		-	-	-	-	
- Exports	-	-	-		-	-	-	-	
= ELECTRICITY SUPPLIED	3 331	-5.0%	0.7%		10 154	10 246	-0.9%	43 351	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses	229	-5.0%	0.7%		697	703	-0.9%	2 976	
= ELECTRICITY CONSUMED	3 102	-5.0%	0.7%		9 457	9 543	-0.9%	40 375	

¹ current month to month of last year change

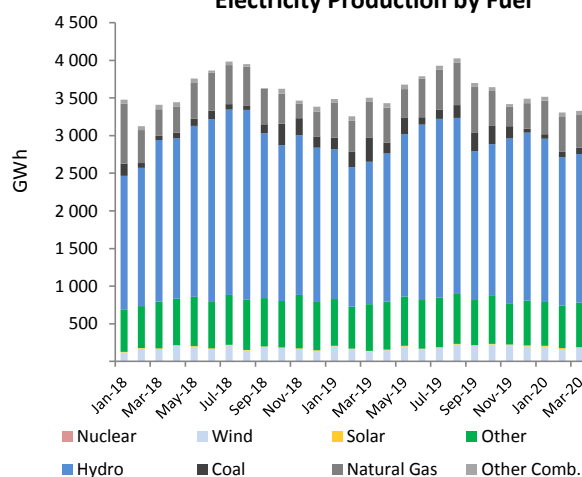
March 2020 is estimated by the IEA Secretariat

² month-to-month change³ year-to-date compared to same period last year

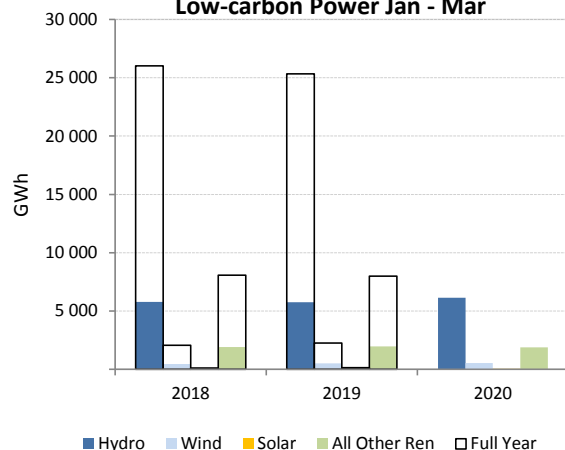
Electricity Production



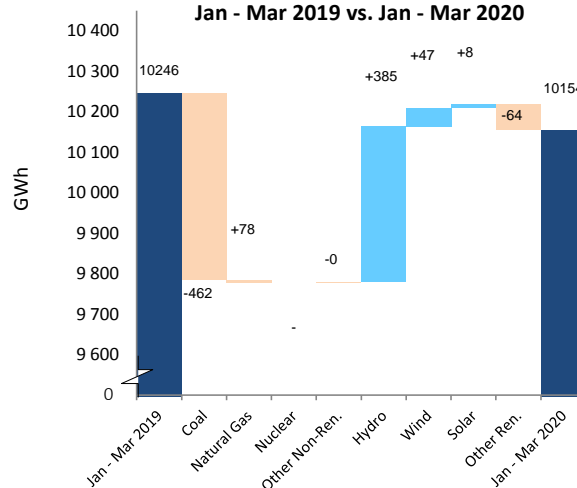
Electricity Production by Fuel



Low-carbon Power Jan - Mar



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

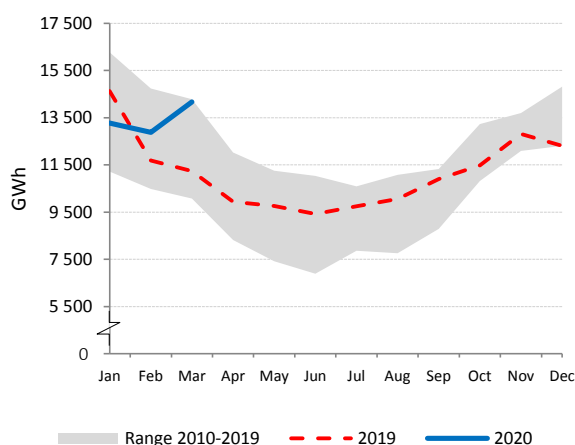


NORWAY

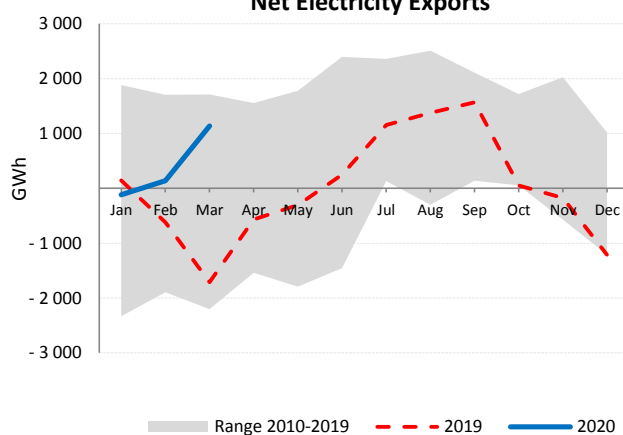
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	243	-4.7%	3.2%	1.7%	729	705	3.4%	2 836	2.1%
Coal ⁴	-	-	-	-	-	-	-	-	-
Oil ⁴	-	-	-	-	-	-	-	-	-
Natural Gas	204	-4.8%	2.9%	1.4%	614	586	4.7%	2 379	1.8%
Combustible Renewables	21	3.0%	4.8%	0.2%	62	61	1.8%	256	0.2%
Other Combustibles	17	-11.8%	4.7%	0.1%	52	57	-7.7%	202	0.2%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	12 955	24.2%	10.2%	91.4%	36 678	35 198	4.2%	125 258	93.5%
Wind	943	78.9%	10.4%	6.7%	2 821	1 571	79.6%	5 536	4.1%
Solar	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	28	-	-	0.2%	84	84	-	334	0.2%
RENEWABLES	13 919	26.8%	10.2%	98.2%	39 561	36 830	7.4%	131 050	97.8%
NON-RENEWABLES	250	-4.8%	2.7%	1.8%	750	727	3.2%	2 915	2.2%
TOTAL NET PRODUCTION	14 169	26.0%	10.1%		40 311	37 557	7.3%	133 965	
+ Imports	598	-71.4%	-37.0%		2 614	4 435	-41.0%	12 353	
- Exports	1 735	357.8%	59.4%		3 771	2 245	67.9%	12 309	
= ELECTRICITY SUPPLIED	13 031	0.6%	2.3%		39 155	39 746	-1.5%	134 009	
- Used for pumped storage	10	3.3%	-58.1%		122	30	301.7%	1 057	
- T&D Losses	873	25.9%	10.1%		2 484	2 315	7.3%	8 257	
= ELECTRICITY CONSUMED	12 148	-0.8%	1.9%		36 548	37 400	-2.3%	124 695	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change³ year-to-date compared to same period last year

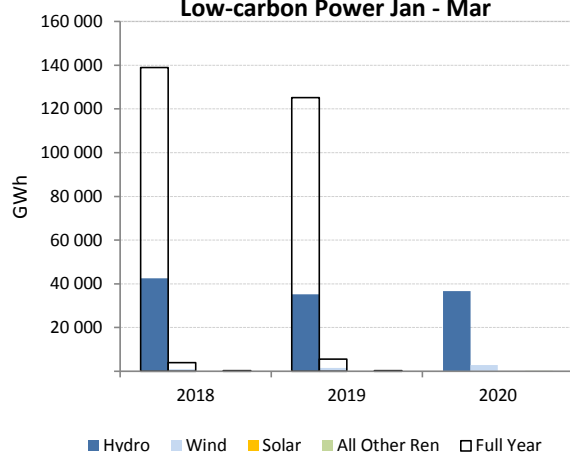
Electricity Production



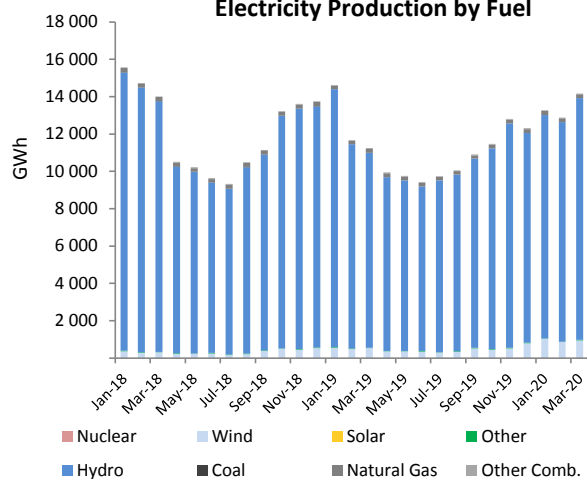
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

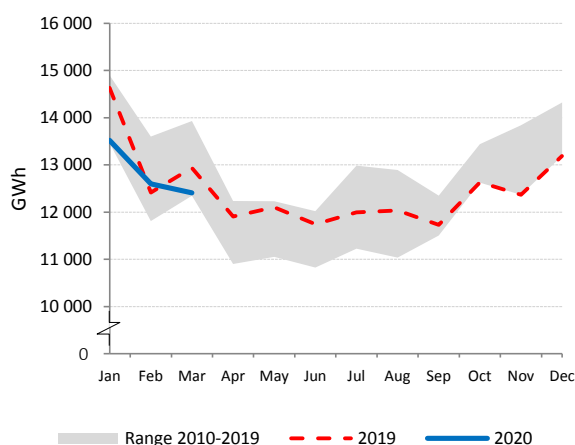


POLAND

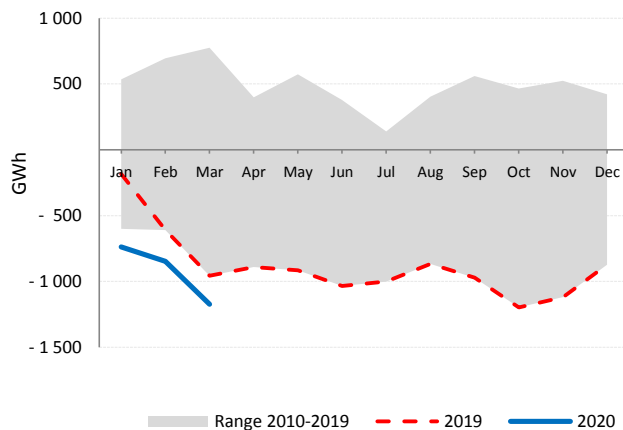
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	10 459	-3.0%	3.5%	84.3%	31 965	34 239	-6.6%	131 630	87.9%
Coal	8 199	-6.7%	2.3%	66.1%	25 340	29 173	-10.8%	108 042	72.2%
Oil ⁴	-	-	-	-	-	-	-	2 628	1.8%
Natural Gas	1 284	10.3%	9.3%	10.4%	3 731	3 316	12.5%	13 718	9.2%
Combustible Renewables	689	19.0%	10.6%	5.6%	1 995	1 665	19.8%	6 883	4.6%
Other Combustibles	286	867.0%	-3.4%	2.3%	899	85	959.7%	360	0.2%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	291	-13.5%	-4.6%	2.3%	833	850	-2.0%	2 635	1.8%
Wind	1 472	-17.0%	-31.1%	11.9%	5 469	4 825	13.4%	14 685	9.8%
Solar	183	345.3%	289.9%	1.5%	255	71	257.8%	728	0.5%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	2 635	-3.5%	-15.3%	21.2%	8 552	7 411	15.4%	24 929	16.7%
NON-RENEWABLES	9 769	-4.3%	3.0%	78.8%	29 970	32 574	-8.0%	124 748	83.3%
TOTAL NET PRODUCTION	12 404	-4.1%	-1.5%		38 522	39 985	-3.7%	149 677	
+ Imports	1 990	32.8%	27.0%		5 430	3 942	37.8%	17 868	
- Exports	818	51.1%	13.5%		2 673	2 191	22.0%	7 245	
= ELECTRICITY SUPPLIED	13 576	-2.3%	1.0%		41 279	41 736	-1.1%	160 300	
- Used for pumped storage	100	-10.0%	-21.1%		347	260	33.4%	1 034	
- T&D Losses	1 279	27.5%	64.8%		3 066	2 366	29.6%	10 969	
= ELECTRICITY CONSUMED	12 197	-4.5%	-2.7%		37 866	39 110	-3.2%	148 298	

¹ current month to month of last year change⁴ monthly figures are confidential² month-to-month change³ year-to-date compared to same period last year

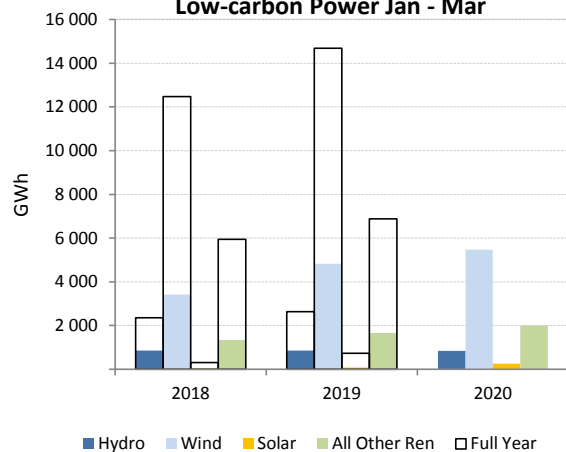
Electricity Production



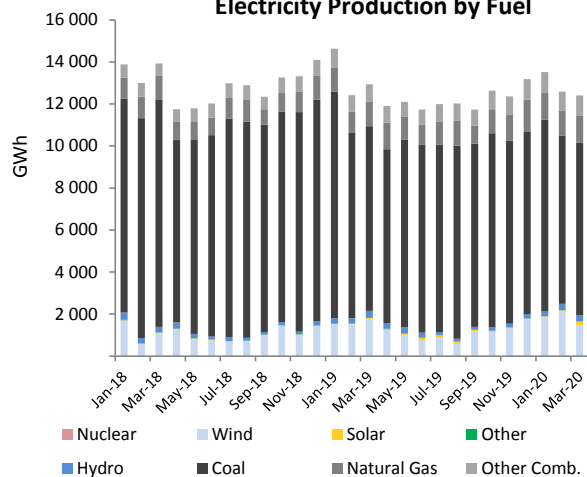
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

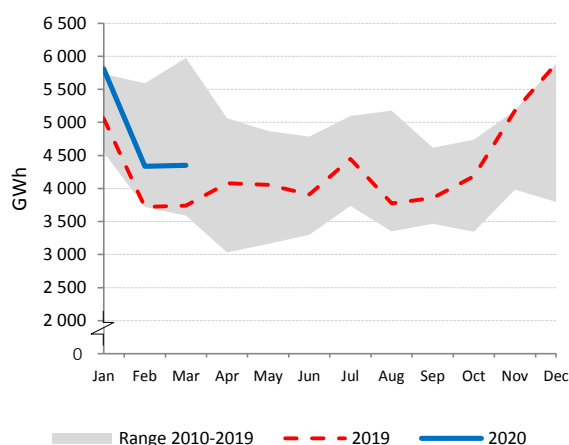


PORTUGAL

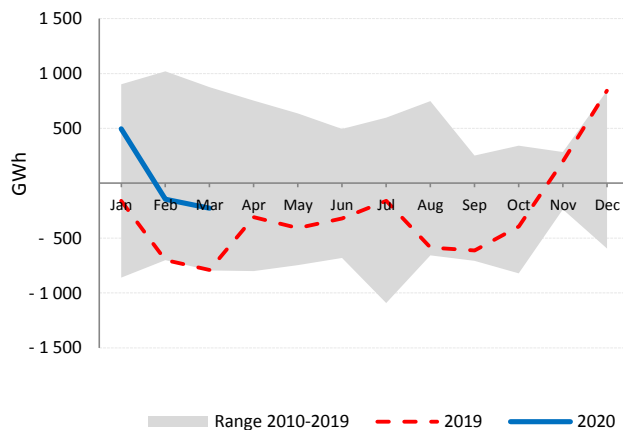
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 533	-6.3%	-9.9%	35.2%	5 481	6 040	-9.3%	26 672	51.4%
Coal	7	-98.8%	-63.3%	0.2%	146	2 283	-93.6%	5 283	10.2%
Oil	97	26.7%	12.7%	2.2%	283	236	19.7%	1 107	2.1%
Natural Gas	1 104	63.1%	-14.9%	25.4%	4 113	2 729	50.7%	16 891	32.5%
Combustible Renewables	302	18.0%	7.5%	6.9%	877	730	20.1%	3 150	6.1%
Other Combustibles	23	19.3%	26.2%	0.5%	63	62	1.4%	242	0.5%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1 370	56.3%	-18.7%	31.5%	5 198	2 723	90.9%	10 157	19.6%
Wind	1 292	18.3%	58.2%	29.7%	3 432	3 442	-0.3%	13 551	26.1%
Solar	137	18.8%	19.8%	3.2%	337	267	26.0%	1 332	2.6%
Geothermal	18	-1.4%	6.3%	0.4%	52	51	1.7%	191	0.4%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	3 119	32.3%	7.0%	71.7%	9 895	7 212	37.2%	28 382	54.7%
NON-RENEWABLES	1 231	-10.9%	-13.4%	28.3%	4 604	5 311	-13.3%	23 522	45.3%
TOTAL NET PRODUCTION	4 350	16.3%	0.3%		14 499	12 523	15.8%	51 904	
+ Imports	698	-27.3%	10.0%		1 800	2 480	-27.4%	8 098	
- Exports	470	175.0%	-3.7%		1 922	829	131.8%	4 698	
= ELECTRICITY SUPPLIED	4 578	1.1%	2.1%		14 378	14 174	1.4%	55 304	
- Used for pumped storage	199	41.8%	45.7%		542	430	26.0%	1 848	
- T&D Losses	450	8.7%	1.1%		1 417	1 293	9.6%	5 027	
= ELECTRICITY CONSUMED	3 928	-1.2%	0.7%		12 419	12 451	-0.3%	48 428	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

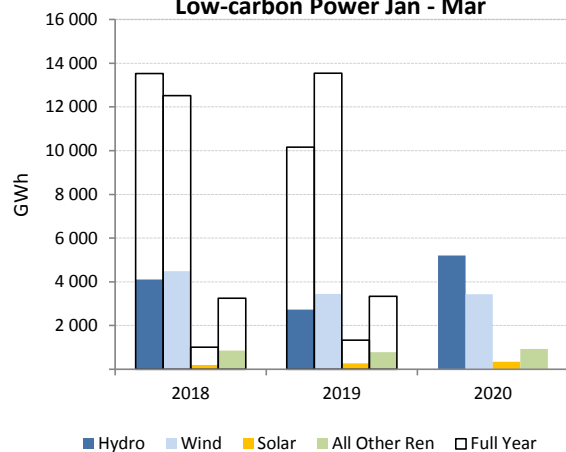
Electricity Production



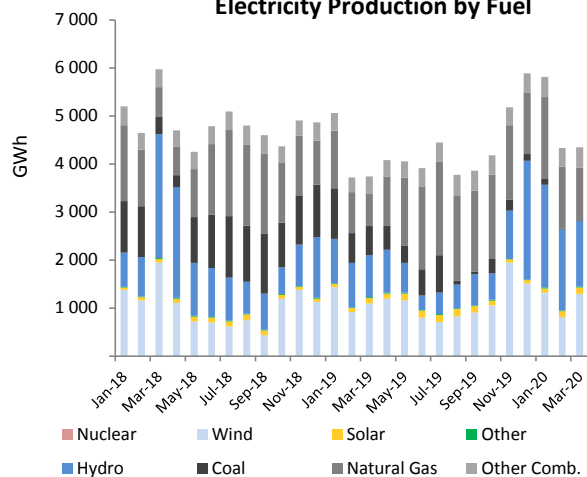
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

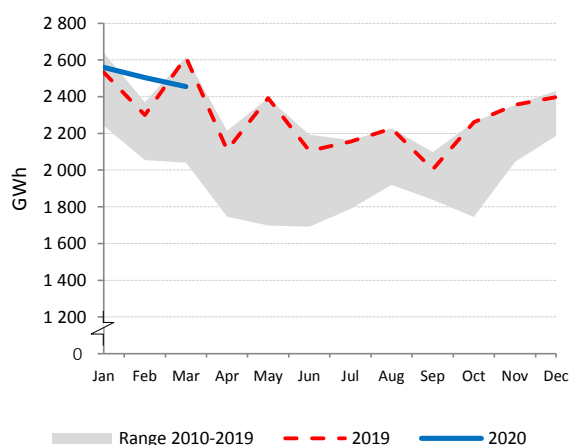


SLOVAK REPUBLIC

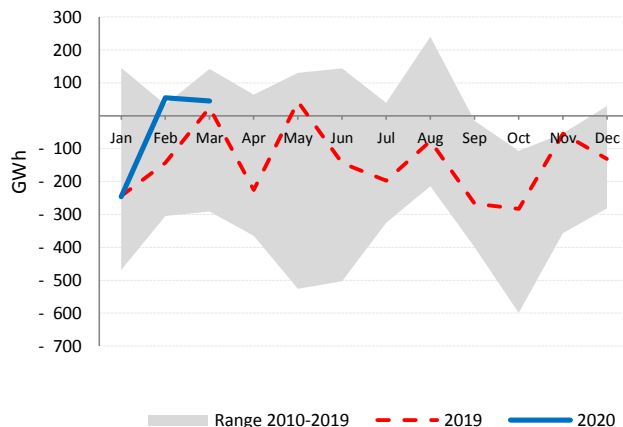
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	665	-12.8%	-7.0%	27.1%	2 279	2 259	0.9%	7 974	29.0%
Coal	217	-33.2%	-4.1%	8.9%	774	955	-19.0%	2 941	10.7%
Oil	38	-	23.3%	1.5%	100	103	-3.0%	402	1.5%
Natural Gas	319	9.5%	-10.2%	13.0%	1 120	888	26.2%	3 468	12.6%
Combustible Renewables	89	-15.9%	-10.8%	3.6%	281	311	-9.4%	1 148	4.2%
Other Combustibles	1	-5.2%	-18.1%	0.0%	4	4	9.8%	15	0.1%
Nuclear	1 253	1.9%	-	51.0%	3 850	3 759	2.4%	14 382	52.4%
Hydro	470	-16.7%	-4.0%	19.1%	1 247	1 304	-4.4%	4 418	16.1%
Wind	-	-	-	-	-	-	-	4	0.0%
Solar	63	12.5%	53.7%	2.6%	123	109	12.8%	588	2.1%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	5	-	-	0.2%	20	18	10.0%	89	0.3%
RENEWABLES	622	-14.3%	-1.4%	25.3%	1 651	1 724	-4.2%	6 158	22.4%
NON-RENEWABLES	1 834	-3.0%	-2.1%	74.7%	5 867	5 726	2.5%	21 297	77.6%
TOTAL NET PRODUCTION	2 456	-6.1%	-1.9%		7 518	7 449	0.9%	27 455	
+ Imports	996	0.6%	-26.0%		4 183	3 732	12.1%	13 537	
- Exports	1 041	2.7%	-25.7%		4 037	3 369	19.8%	11 837	
= ELECTRICITY SUPPLIED	2 411	-7.0%	-1.5%		7 664	7 813	-1.9%	29 155	
- Used for pumped storage	26	-13.3%	-		90	84	7.2%	297	
- T&D Losses ⁴	114	-4.3%	-10.3%		388	370	4.6%	1 358	
= ELECTRICITY CONSUMED	2 270	-7.1%	-1.1%		7 187	7 359	-2.3%	27 500	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

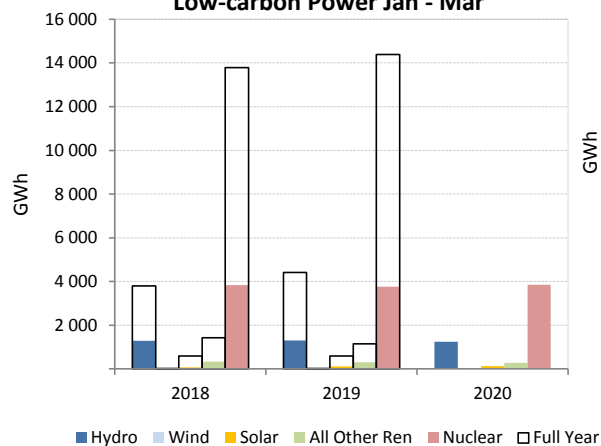
Electricity Production



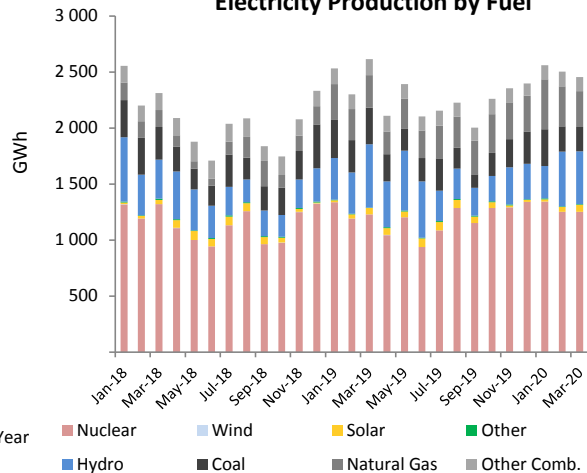
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

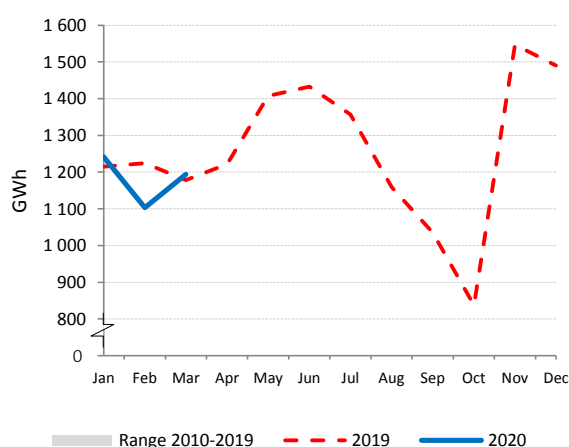


SLOVENIA

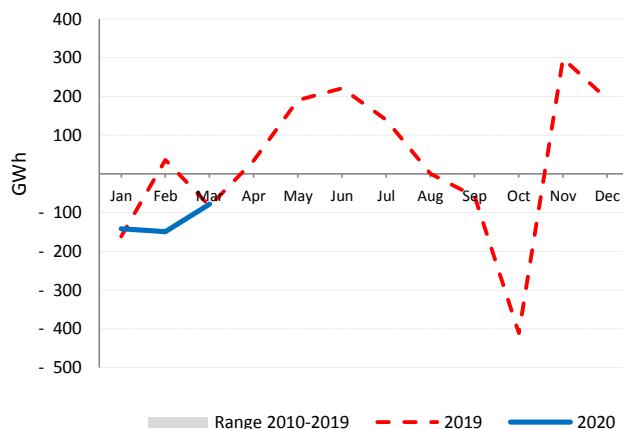
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	308	-17.7%	-16.7%	25.8%	1 067	1 300	-17.9%	4 756	31.5%
Coal	230	-23.6%	-21.3%	19.2%	820	1 063	-22.8%	4 032	26.7%
Oil	0	-86.0%	-50.0%	0.0%	1	2	-72.0%	5	0.0%
Natural Gas	56	9.9%	0.4%	4.7%	178	166	7.4%	491	3.3%
Combustible Renewables	22	-0.6%	-0.4%	1.8%	66	67	-1.4%	220	1.5%
Other Combustibles	1	17.1%	14.7%	0.1%	3	3	5.2%	9	0.1%
Nuclear	518	0.1%	7.1%	43.3%	1 519	1 499	1.4%	5 533	36.6%
Hydro	344	31.7%	47.7%	28.8%	897	766	17.1%	4 540	30.1%
Wind	1	28.5%	143.5%	0.1%	2	2	-12.1%	6	0.0%
Solar	24	-6.1%	42.7%	2.0%	54	50	6.8%	268	1.8%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	390	26.3%	43.7%	32.7%	1 018	885	15.1%	5 034	33.3%
NON-RENEWABLES	804	-7.5%	-3.3%	67.3%	2 520	2 732	-7.7%	10 069	66.7%
TOTAL NET PRODUCTION	1 194	1.3%	8.3%		3 539	3 617	-2.2%	15 103	
+ Imports	835	-6.9%	9.4%		2 376	2 504	-5.1%	9 021	
- Exports	757	-7.0%	23.2%		2 007	2 295	-12.5%	9 421	
= ELECTRICITY SUPPLIED	1 272	0.9%	1.6%		3 908	3 826	2.1%	14 704	
- Used for pumped storage	39	-	20.8%		107	-	-	272	
- T&D Losses	85	20.3%	5.7%		274	276	-0.6%	858	
= ELECTRICITY CONSUMED	1 148	-3.6%	0.8%		3 526	3 550	-0.7%	13 574	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

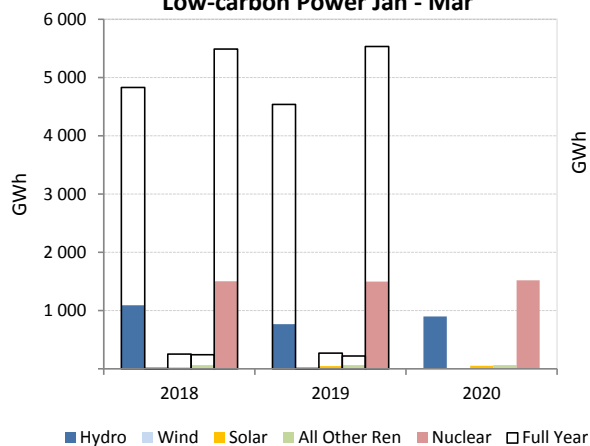
Electricity Production



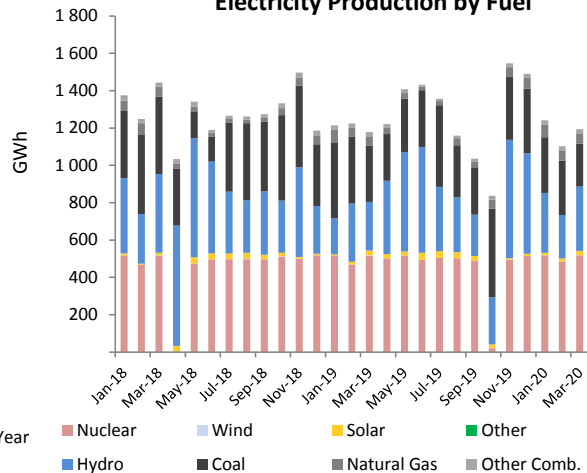
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

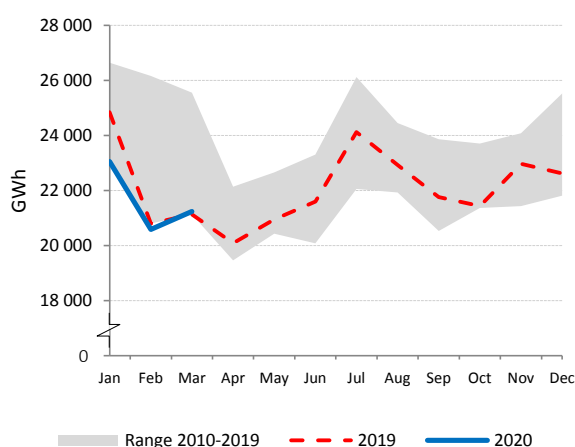


SPAIN

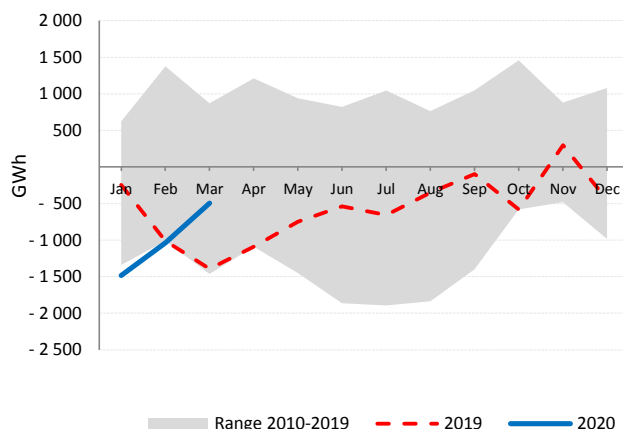
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	5 743	-21.3%	-19.8%	27.0%	21 361	26 831	-20.4%	113 696	42.9%
Coal	467	-50.8%	-42.2%	2.2%	2 129	6 567	-67.6%	12 477	4.7%
Oil	928	-11.1%	-3.6%	4.4%	2 984	3 188	-6.4%	12 770	4.8%
Natural Gas	3 760	-20.4%	-21.7%	17.7%	14 500	15 410	-5.9%	81 842	30.9%
Combustible Renewables	517	4.6%	-0.1%	2.4%	1 542	1 425	8.2%	5 720	2.2%
Other Combustibles	71	-16.6%	4.2%	0.3%	205	242	-15.4%	886	0.3%
Nuclear	5 171	-1.9%	5.9%	24.4%	15 339	15 072	1.8%	55 786	21.0%
Hydro	3 423	47.1%	11.4%	16.1%	10 464	7 304	43.3%	26 426	10.0%
Wind	5 613	13.7%	31.1%	26.4%	14 531	14 691	-1.1%	54 800	20.7%
Solar	1 278	-1.1%	7.6%	6.0%	3 164	2 849	11.0%	14 424	5.4%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	7	-	-	0.0%	20	20	-	79	0.0%
RENEWABLES	10 831	19.7%	19.6%	51.0%	29 702	26 269	13.1%	101 370	38.2%
NON-RENEWABLES	10 404	-13.9%	-9.8%	49.0%	35 178	40 499	-13.1%	163 841	61.8%
TOTAL NET PRODUCTION	21 235	0.5%	3.1%		64 879	66 768	-2.8%	265 210	
+ Imports	1 693	-30.3%	-7.2%		5 859	6 068	-3.4%	18 721	
- Exports	1 199	15.7%	51.9%		2 848	3 418	-16.7%	11 859	
= ELECTRICITY SUPPLIED	21 729	-3.5%	0.5%		67 891	69 418	-2.2%	272 073	
- Used for pumped storage	632	68.0%	60.8%		1 424	1 013	40.6%	3 204	
- T&D Losses	1 971	-4.7%	-0.5%		6 202	6 392	-3.0%	25 011	
= ELECTRICITY CONSUMED	19 126	-4.8%	-0.7%		60 265	62 014	-2.8%	243 858	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

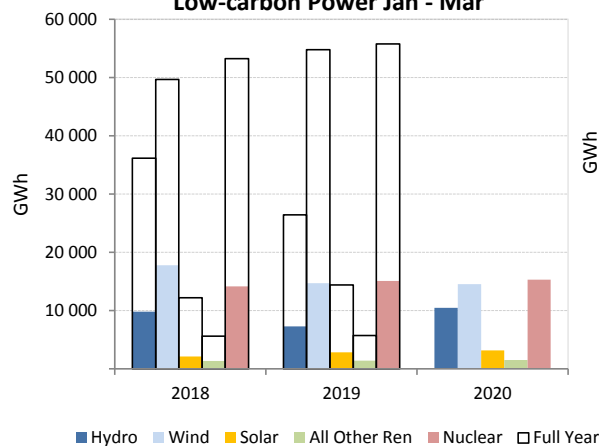
Electricity Production



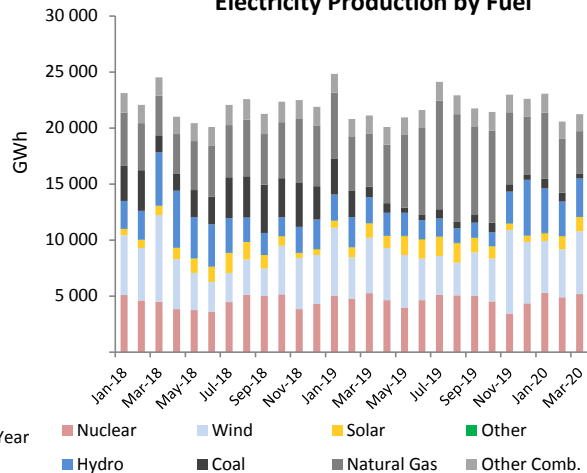
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

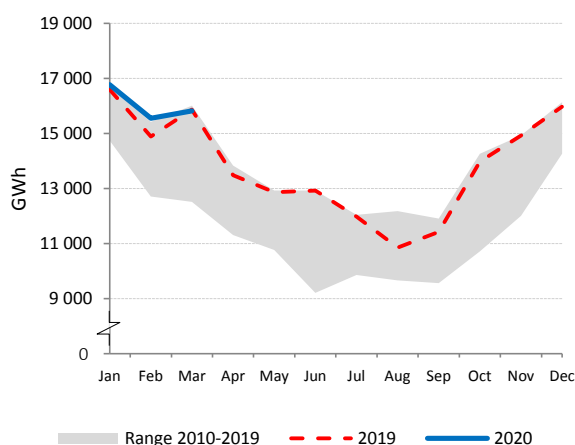


SWEDEN

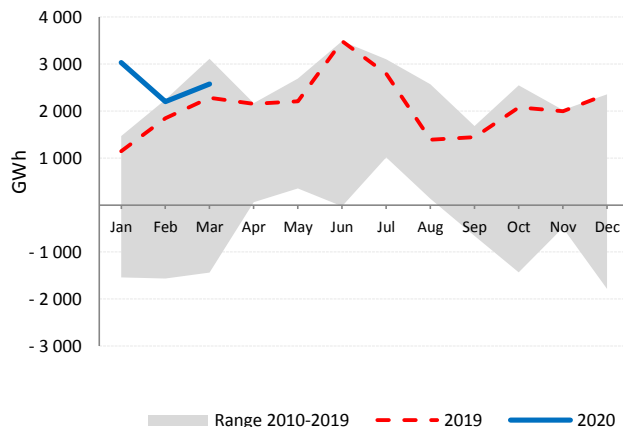
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 237	-32.6%	-2.4%	7.8%	3 987	5 790	-31.1%	15 576	9.4%
Coal	0	-100.0%	-96.0%	0.0%	3	727	-99.6%	851	0.5%
Oil	10	-81.9%	37.5%	0.1%	27	166	-83.8%	306	0.2%
Natural Gas	2	-97.4%	-78.5%	0.0%	17	247	-93.3%	313	0.2%
Combustible Renewables	1 143	-17.4%	-2.3%	7.2%	3 686	4 240	-13.1%	12 654	7.6%
Other Combustibles	82	-35.8%	1.7%	0.5%	254	411	-38.0%	1 452	0.9%
Nuclear	5 181	-10.0%	10.6%	32.8%	15 625	17 307	-9.7%	64 333	38.8%
Hydro	6 387	9.2%	-2.2%	40.4%	18 933	17 876	5.9%	65 526	39.5%
Wind	2 973	25.3%	-2.5%	18.8%	9 531	6 295	51.4%	19 884	12.0%
Solar⁴	42	-	159.8%	0.3%	66	66	-	407	0.2%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	10 545	9.3%	-2.1%	66.7%	32 217	28 477	13.1%	98 472	59.4%
NON-RENEWABLES	5 275	-15.1%	10.3%	33.3%	15 926	18 857	-15.5%	67 255	40.6%
TOTAL NET PRODUCTION	15 820	-0.2%	1.7%		48 143	47 335	1.7%	165 726	
+ Imports	513	-32.1%	-16.8%		1 430	2 568	-44.3%	8 948	
- Exports	3 085	1.6%	9.6%		9 233	7 838	17.8%	34 116	
= ELECTRICITY SUPPLIED	13 248	-2.4%	-0.8%		40 340	42 064	-4.1%	140 558	
- Used for pumped storage	-	-	-		9	1	657.1%	24	
- T&D Losses	1 032	0.8%	-0.1%		3 175	3 356	-5.4%	10 253	
= ELECTRICITY CONSUMED	12 216	-2.7%	-0.8%		37 155	38 707	-4.0%	130 281	

¹ current month to month of last year change⁴ estimated by the IEA secretariat² month-to-month change³ year-to-date compared to same period last year

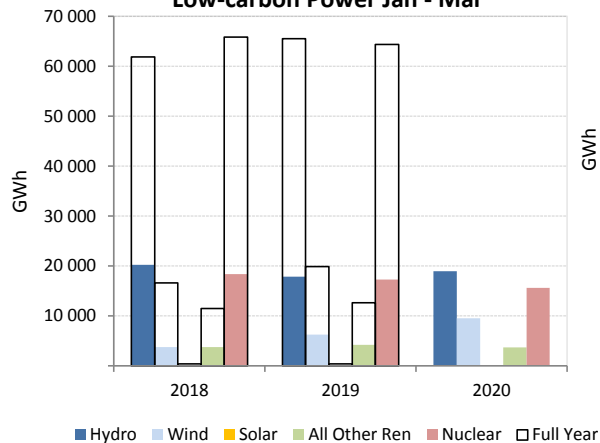
Electricity Production



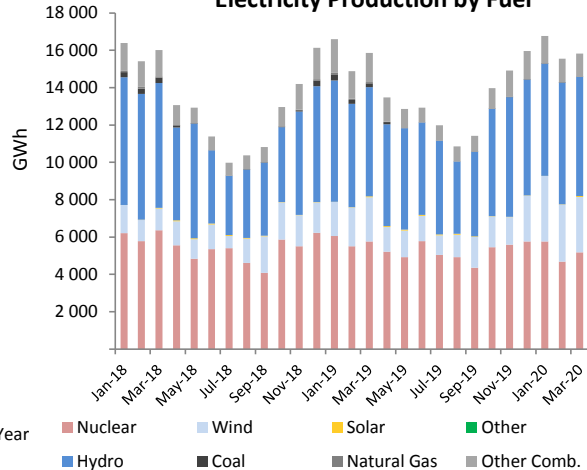
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

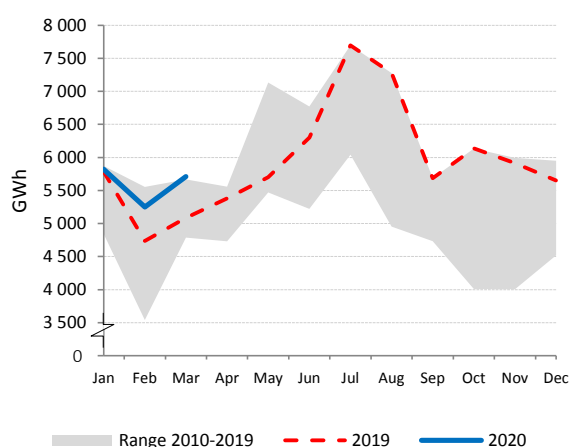


SWITZERLAND

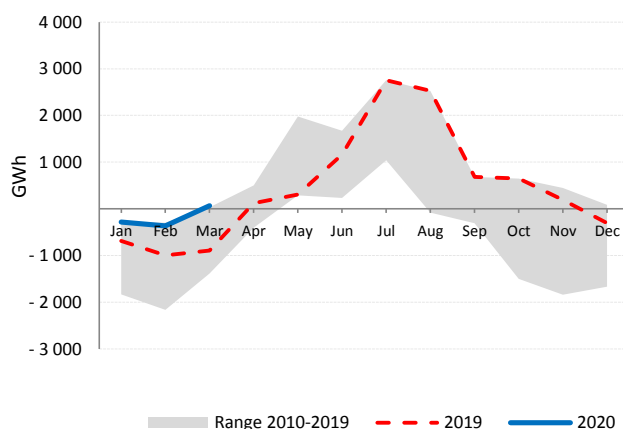
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	319	10.6%	-11.1%	5.6%	1 035	971	6.7%	3 731	5.2%
Coal	-	-	-	-	-	-	-	-	-
Oil	1	-50.0%	-	0.0%	3	6	-50.0%	24	0.0%
Natural Gas	39	-6.0%	-11.3%	0.7%	126	139	-8.9%	532	0.7%
Combustible Renewables	167	11.9%	-11.3%	2.9%	542	502	7.9%	1 931	2.7%
Other Combustibles	112	17.0%	-10.9%	2.0%	364	324	12.4%	1 243	1.7%
Nuclear	2 169	-8.0%	6.7%	38.0%	6 372	6 785	-6.1%	25 093	35.2%
Hydro	2 984	33.6%	9.8%	52.3%	8 900	7 462	19.3%	40 274	56.4%
Wind	16	-23.8%	-33.3%	0.3%	57	48	19.1%	149	0.2%
Solar	222	20.0%	92.0%	3.9%	415	341	21.7%	2 099	2.9%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	3 389	30.9%	11.3%	59.4%	9 914	8 353	18.7%	44 453	62.3%
NON-RENEWABLES	2 321	-7.0%	5.4%	40.6%	6 865	7 254	-5.4%	26 893	37.7%
TOTAL NET PRODUCTION	5 710	12.3%	8.8%		16 779	15 607	7.5%	71 345	
+ Imports	2 702	-23.1%	-20.5%		9 525	10 790	-11.7%	31 017	
- Exports	2 768	5.8%	-8.8%		8 948	8 219	8.9%	36 538	
= ELECTRICITY SUPPLIED	5 643	-5.6%	0.6%		17 356	18 177	-4.5%	65 824	
- Used for pumped storage	288	-10.2%	29.3%		708	723	-2.1%	3 965	
- T&D Losses	361	-4.7%	-2.9%		1 098	1 146	-4.2%	4 241	
= ELECTRICITY CONSUMED	4 994	-5.4%	-0.4%		15 550	16 308	-4.6%	57 618	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

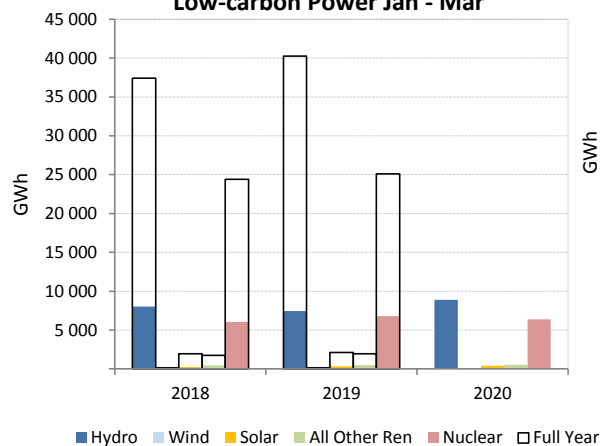
Electricity Production



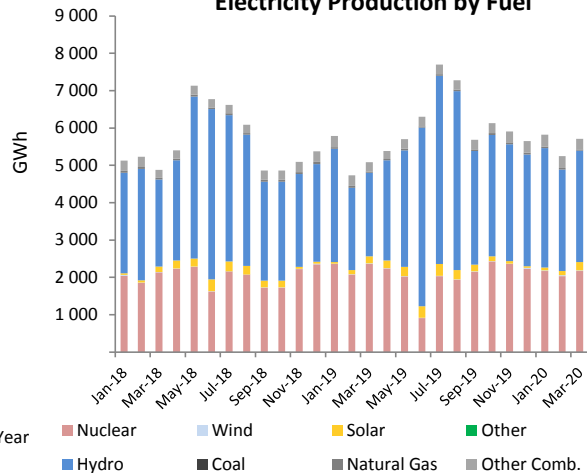
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

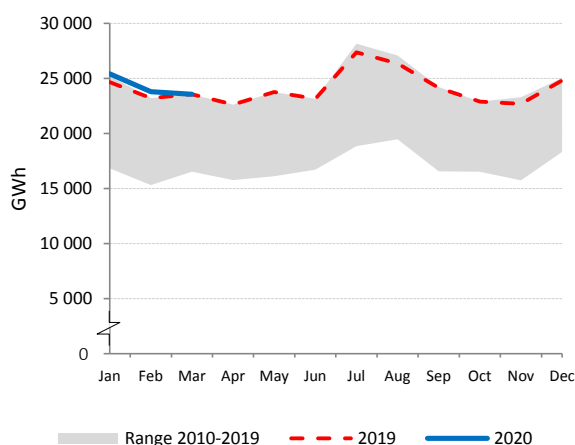


TURKEY

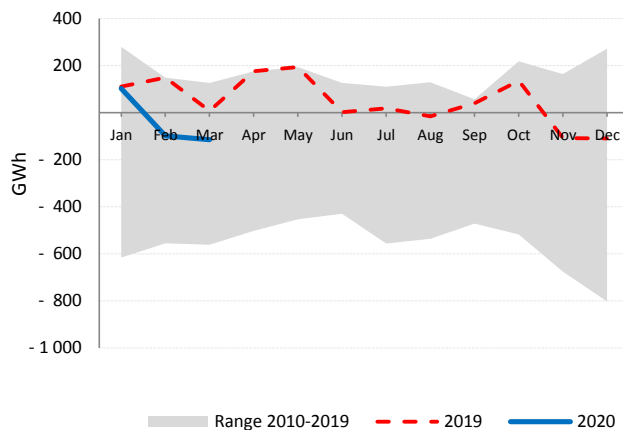
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	10 404	-16.8%	-21.6%	44.2%	40 021	38 843	3.0%	163 038	56.4%
Coal	7 717	-4.5%	-7.4%	32.8%	25 246	25 170	0.3%	106 169	36.7%
Oil	16	-39.3%	3.8%	0.1%	47	79	-40.1%	232	0.1%
Natural Gas	2 336	-43.6%	-49.5%	9.9%	13 764	12 823	7.3%	53 451	18.5%
Combustible Renewables	335	25.7%	10.6%	1.4%	961	769	25.0%	3 179	1.1%
Other Combustibles	1	15.3%	-4.2%	0.0%	2	1	64.1%	6	0.0%
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	9 316	24.3%	34.2%	39.6%	21 570	21 901	-1.5%	86 131	29.8%
Wind	2 152	6.9%	-4.2%	9.1%	6 786	6 029	12.6%	21 438	7.4%
Solar	851	6.5%	47.1%	3.6%	1 971	1 653	19.2%	9 411	3.3%
Geothermal	752	16.5%	9.6%	3.2%	2 187	2 755	-20.6%	8 227	2.8%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	68	-7.5%	6.4%	0.3%	198	219	-9.8%	847	0.3%
RENEWABLES	13 406	19.5%	24.7%	56.9%	33 475	33 106	1.1%	128 387	44.4%
NON-RENEWABLES	10 137	-17.7%	-22.2%	43.1%	39 258	38 293	2.5%	160 705	55.6%
TOTAL NET PRODUCTION	23 544	0.0%	-1.0%		72 733	71 399	1.9%	289 092	
+ Imports	309	18.6%	8.1%		721	580	24.3%	2 221	
- Exports	193	-27.7%	3.6%		610	848	-28.0%	2 823	
= ELECTRICITY SUPPLIED	23 659	0.5%	-1.0%		72 844	71 132	2.4%	288 491	
- Used for pumped storage	-	-	-		-	-	-	-	
- T&D Losses ⁴	2 575	0.2%	-0.9%		7 931	7 772	2.0%	31 455	
= ELECTRICITY CONSUMED	21 083	0.6%	-1.0%		64 913	63 360	2.5%	257 035	

¹ current month to month of last year change⁴ estimated² month-to-month change³ year-to-date compared to same period last year

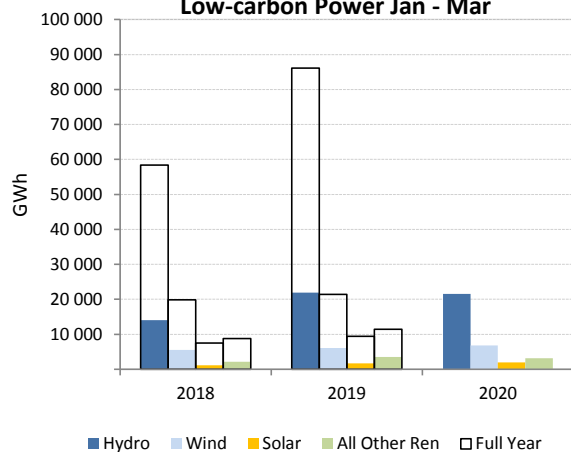
Electricity Production



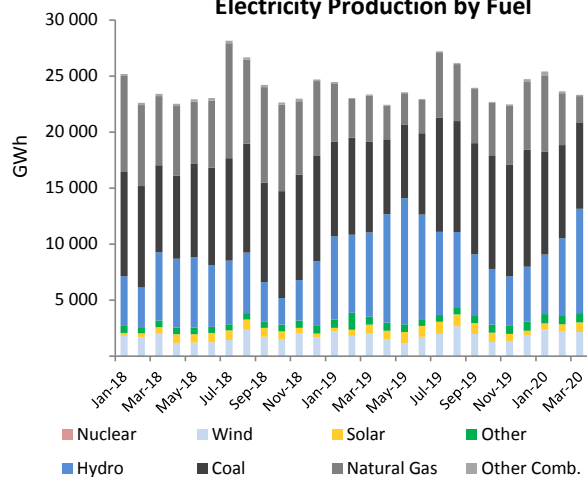
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

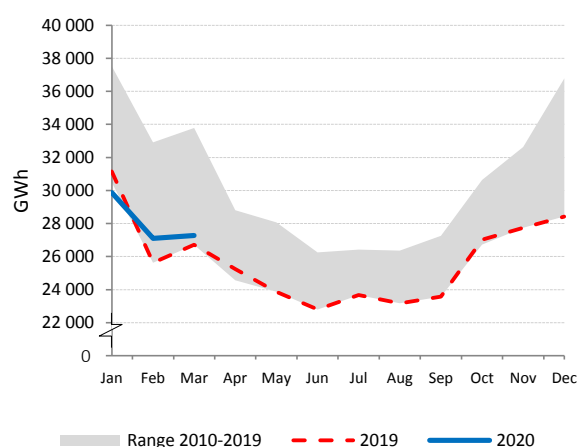


UNITED KINGDOM

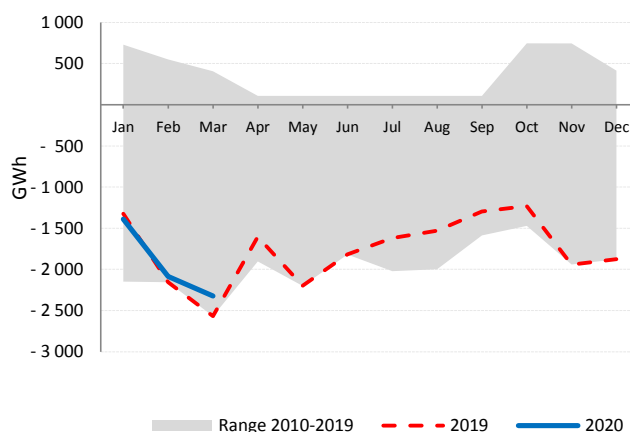
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	14 109	1.4%	16.5%	51.7%	41 306	47 991	-13.9%	173 824	56.3%
Coal	634	32.8%	-42.7%	2.3%	3 380	3 069	10.1%	6 931	2.2%
Oil	73	11.4%	5.4%	0.3%	217	292	-25.7%	1 014	0.3%
Natural Gas	9 841	-3.4%	28.6%	36.1%	27 126	35 379	-23.3%	127 294	41.2%
Combustible Renewables	3 103	11.5%	8.9%	11.4%	9 237	8 066	14.5%	33 757	10.9%
Other Combustibles	457	11.2%	6.2%	1.7%	1 346	1 184	13.7%	4 829	1.6%
Nuclear	3 257	-20.0%	-14.7%	11.9%	11 904	12 631	-5.8%	51 032	16.5%
Hydro	856	-3.2%	-4.7%	3.1%	2 633	2 295	14.7%	7 567	2.4%
Wind	7 479	8.1%	-21.9%	27.4%	25 748	18 474	39.4%	63 920	20.7%
Solar	1 581	72.5%	123.2%	5.8%	2 670	2 098	27.2%	12 649	4.1%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	1	-	-	0.0%	2	2	-	9	0.0%
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	13 019	13.2%	-7.2%	47.7%	40 290	30 935	30.2%	117 902	38.2%
NON-RENEWABLES	14 262	-6.2%	9.1%	52.3%	43 973	52 555	-16.3%	191 100	61.8%
TOTAL NET PRODUCTION	27 282	2.1%	0.6%		84 263	83 491	0.9%	309 002	
+ Imports	2 537	-8.6%	9.3%		6 680	6 779	-1.5%	24 556	
- Exports	212	3.2%	-9.3%		879	730	20.4%	3 385	
= ELECTRICITY SUPPLIED	29 607	1.1%	1.4%		90 065	89 540	0.6%	330 172	
- Used for pumped storage	188	-21.4%	1.2%		560	748	-25.1%	2 360	
- T&D Losses	2 701	8.3%	-13.3%		8 964	8 072	11.1%	27 259	
= ELECTRICITY CONSUMED	26 718	0.6%	3.2%		80 540	80 721	-0.2%	300 552	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

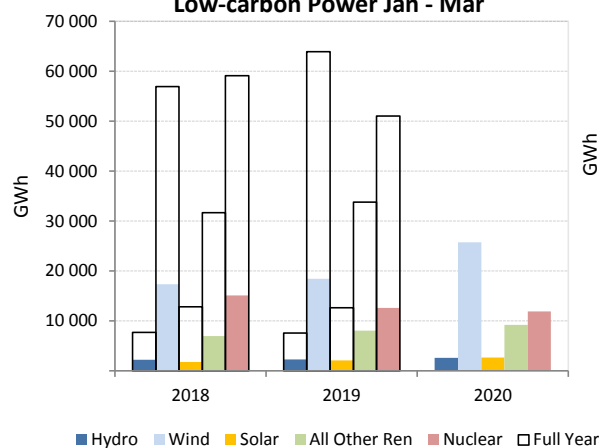
Electricity Production



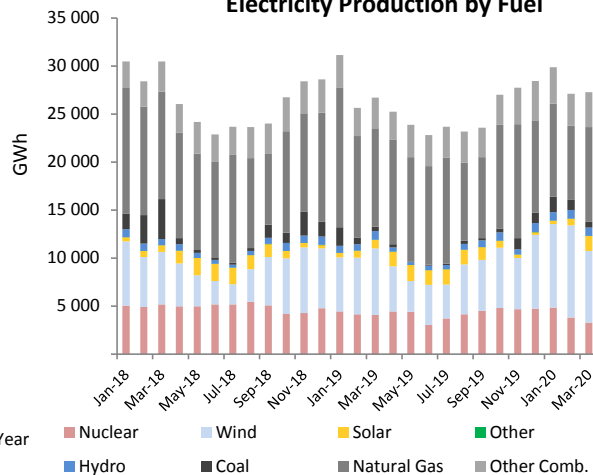
Net Electricity Exports



Low-carbon Power Jan - Mar



Electricity Production by Fuel

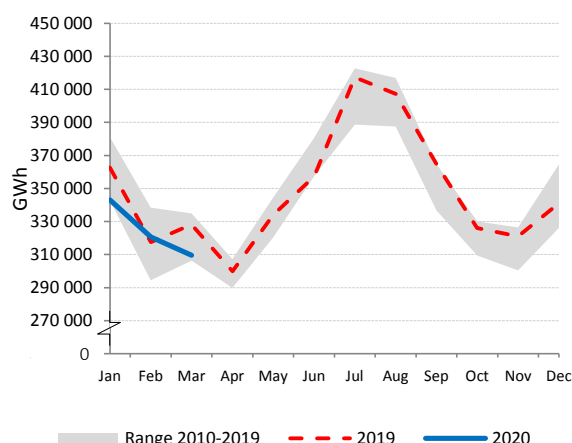


UNITED STATES

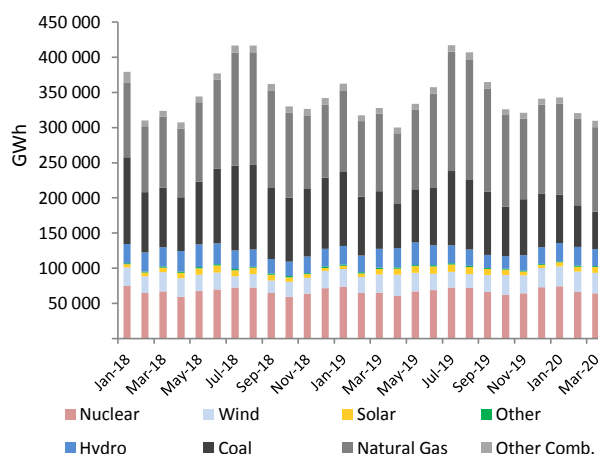
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	182 685	-9.0%	-4.0%	59.0%	580 219	631 624	-8.1%	2 658 507	63.6%
Coal	53 533	-34.9%	-9.7%	17.3%	181 431	271 319	-33.1%	1 011 865	24.2%
Oil	3 028	13.6%	5.9%	1.0%	9 270	8 895	4.2%	35 243	0.8%
Natural Gas	120 376	9.4%	-1.9%	38.9%	372 465	334 037	11.5%	1 542 091	36.9%
Combustible Renewables	4 916	-2.2%	4.9%	1.6%	14 633	15 198	-3.7%	60 043	1.4%
Other Combustibles	832	16.9%	10.3%	0.3%	2 420	2 175	11.3%	9 266	0.2%
Nuclear	64 001	-1.7%	-3.0%	20.7%	204 165	203 509	0.3%	809 291	19.4%
Hydro	23 749	-11.9%	-11.0%	7.7%	76 399	76 781	-0.5%	295 426	7.1%
Wind	29 298	13.2%	0.8%	9.5%	86 569	73 789	17.3%	300 087	7.2%
Solar	8 090	5.1%	11.7%	2.6%	21 174	17 401	21.7%	93 147	2.2%
Geothermal	1 440	0.7%	28.9%	0.5%	3 769	4 130	-8.7%	15 763	0.4%
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	326	-19.7%	7.8%	0.1%	980	1 192	-17.8%	4 768	0.1%
RENEWABLES	67 492	0.8%	-1.9%	21.8%	202 545	187 298	8.1%	764 466	18.3%
NON-RENEWABLES	242 096	-7.3%	-3.9%	78.2%	770 731	821 127	-6.1%	3 412 523	81.7%
TOTAL NET PRODUCTION	309 588	-5.7%	-3.4%		973 275	1 008 425	-3.5%	4 176 989	
+ Imports	4 478	2.2%	11.4%		12 935	13 320	-2.9%	54 478	
- Exports	1 269	-1.1%	15.9%		3 370	3 249	3.7%	12 156	
= ELECTRICITY SUPPLIED	312 797	-5.6%	-3.3%		982 840	1 018 495	-3.5%	4 219 311	
- Used for pumped storage	1 700	-6.5%	0.5%		5 327	5 503	-3.2%	26 034	
- T&D Losses	10 903	-22.0%	-24.4%		41 052	44 254	-7.2%	206 200	
= ELECTRICITY CONSUMED	300 194	-4.8%	-2.3%		936 460	968 738	-3.3%	3 987 077	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

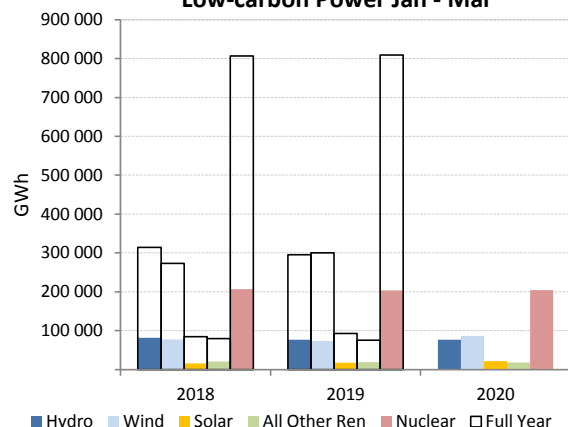
Electricity Production



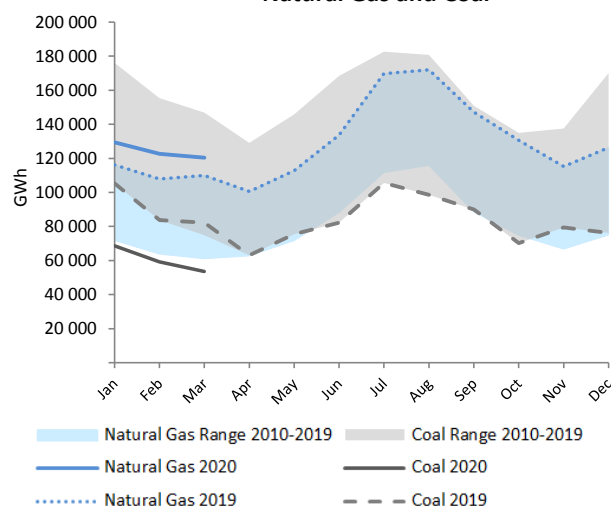
Electricity Production by Fuel



Low-carbon Power Jan - Mar

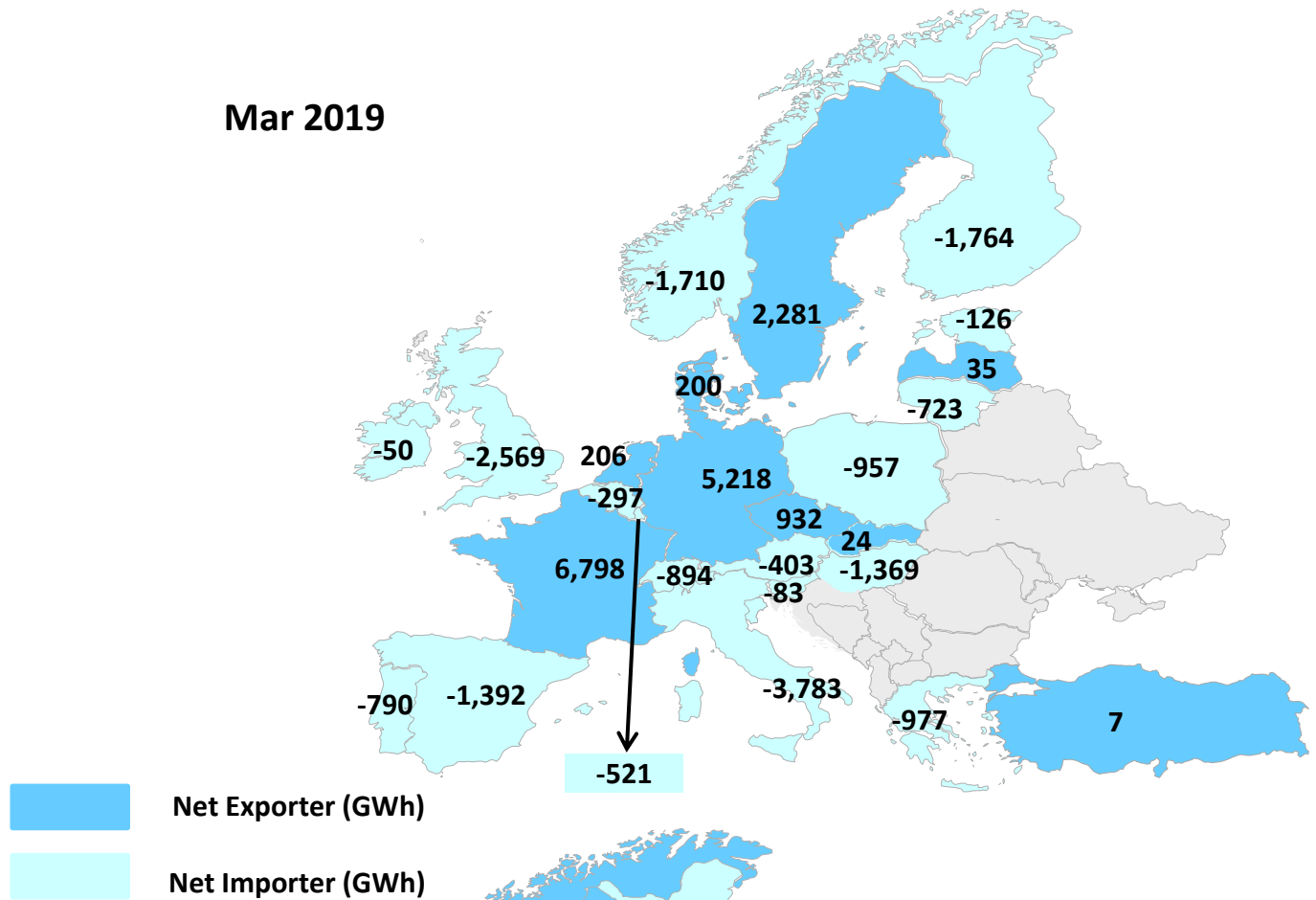


Natural Gas and Coal

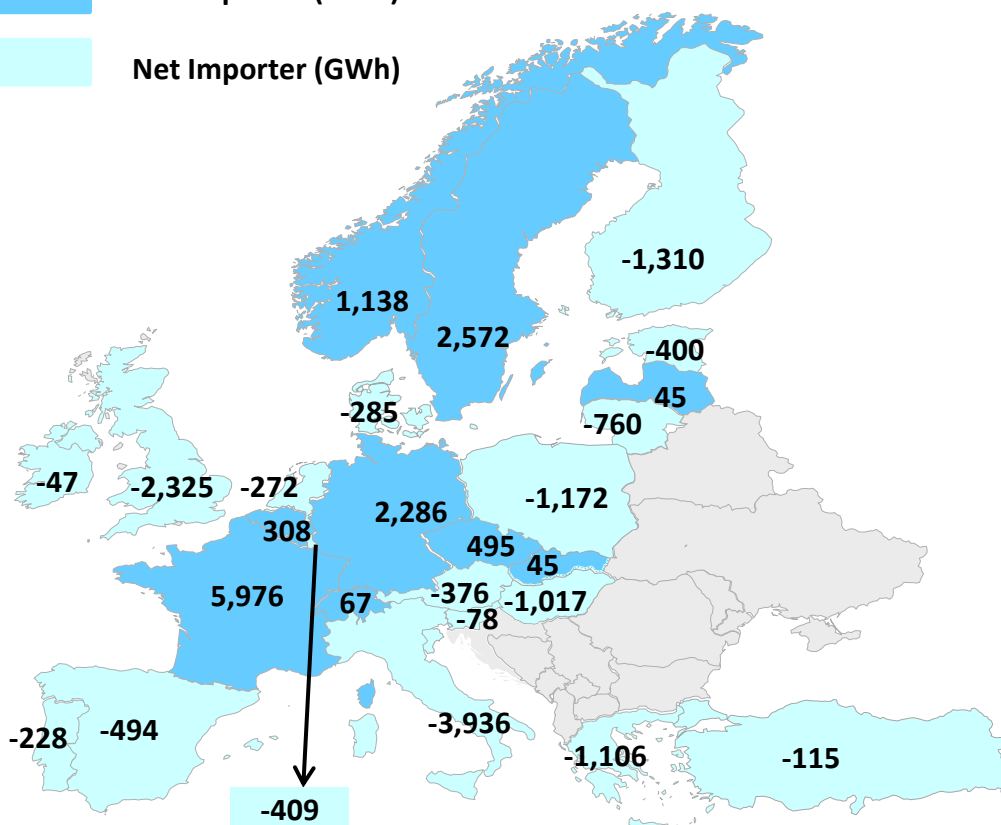


NET ELECTRICITY EXPORTS OECD EUROPE MAP 1

Mar 2019

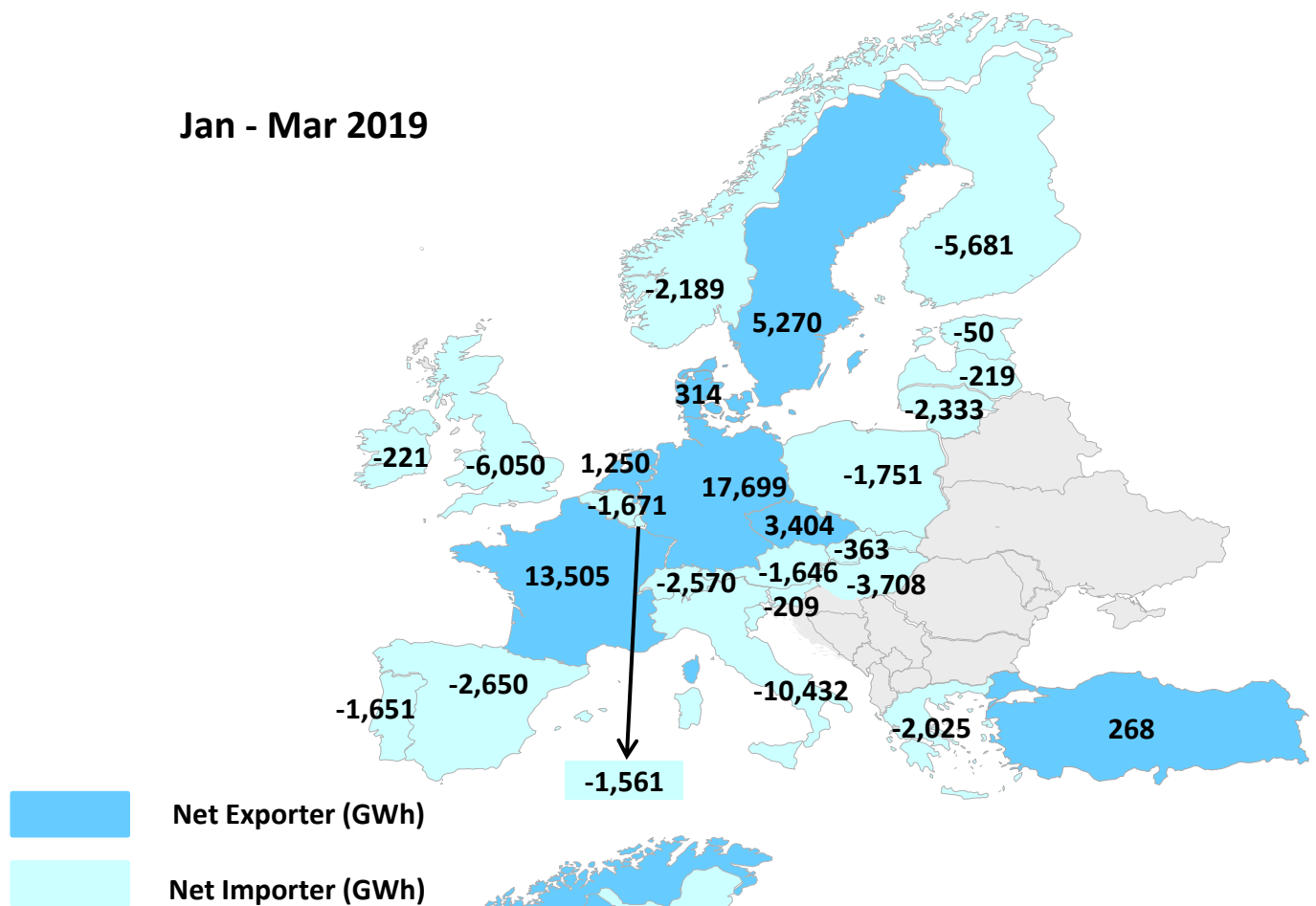


Mar 2020

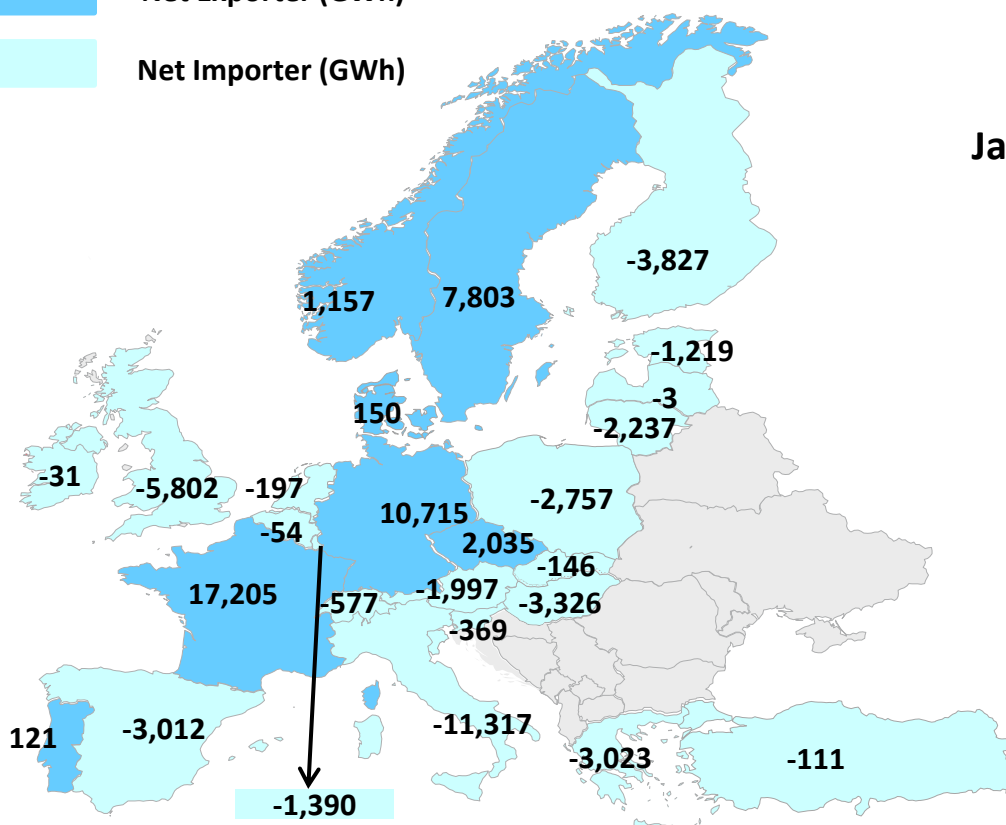


NET ELECTRICITY EXPORTS OECD EUROPE MAP 2

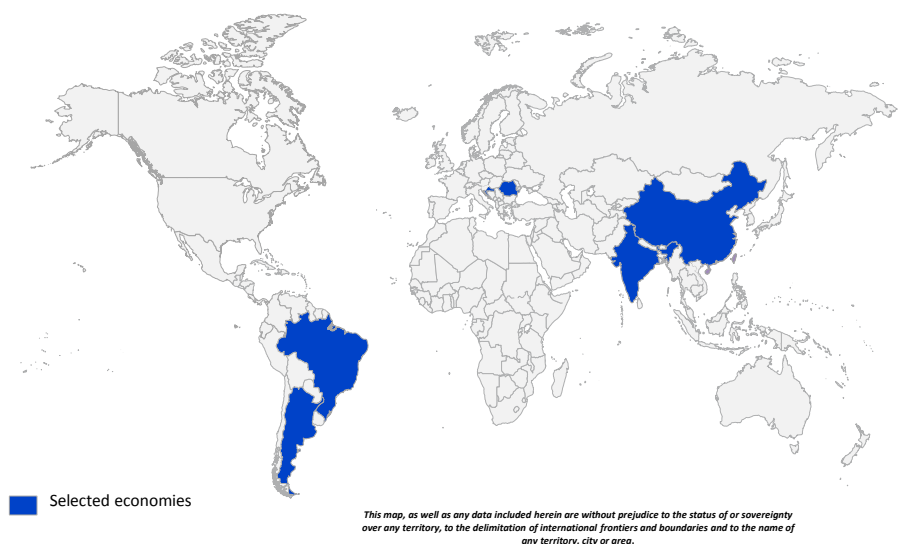
Jan - Mar 2019



Jan - Mar 2020



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



HIGHLIGHTS

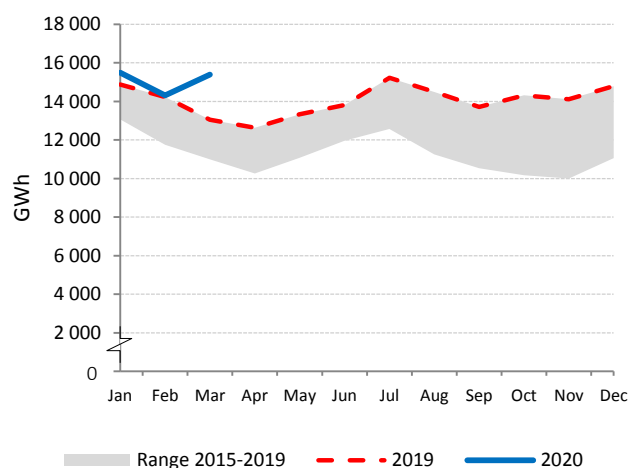
- In March 2020, total net production in Argentina was 15.4 TWh, up by 17.9% compared to March 2019 and by 7.9% compared to February 2020. This increase is due to low carbon energy sources, especially wind and solar productions, which have increased throughout 2019, to reach their maximum level on record over the first three months of 2020. Wind production was 659.8 GWh in March 2020, 115.3% higher than in March 2019 and solar production was 98.0 GWh, 93.9% higher than in March 2019. This growth highlights the rapid development of renewables in Argentina.
- In Romania, conventional thermal production was 1,354.3 GWh in March 2020, 24.5% lower than in March 2019. During the first quarter of 2020, conventional thermal production was 5,272.0 GWh compared to 6,238.5 GWh during the same period in 2019. This decrease in production is driven mainly by lower coal production, which decreased 861.6 GWh during the first three months of 2020. In March 2020, coal production was 685.0 GWh, the lowest recorded for a month of March since 2015.
- In Croatia, net electricity production was 1,084.3 GWh in March 2020, 31.6% higher than in March 2019, as a result of higher hydro production, which is the primary electricity source. Due to favorable weather conditions across Europe, hydro production in Croatia was 518.3 GWh in March 2020 compared to 320.0 GWh in March 2019.

ARGENTINA

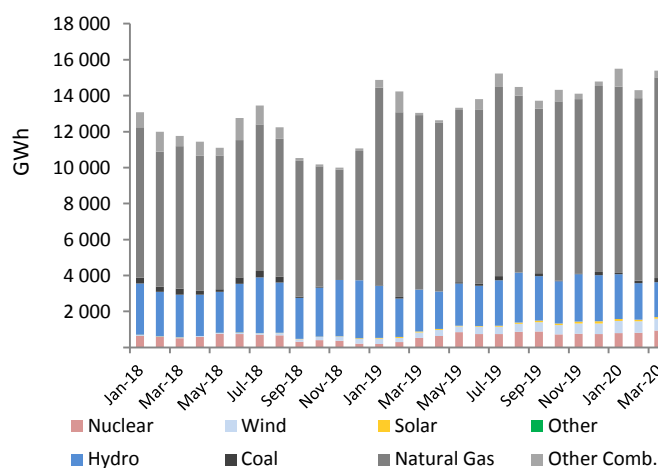
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	11 761	19.5%	9.6%	76.4%	33 919	32 799	3.4%	125 504	74.4%
Coal	242	-	65.2%	1.6%	463	103	348.5%	916	0.5%
Oil	294	421.6%	-23.3%	1.9%	1 610	1 534	4.9%	4 363	2.6%
Natural Gas	11 152	14.8%	10.0%	72.5%	31 636	30 992	2.1%	119 184	70.7%
Combustible Renewables	74	6.5%	16.3%	0.5%	210	170	23.6%	1 042	0.6%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	936	75.9%	15.3%	6.1%	2 548	1 038	145.4%	8 002	4.7%
Hydro	1 931	-16.8%	-5.1%	12.6%	6 459	7 360	-12.2%	29 340	17.4%
Wind	660	115.3%	2.3%	4.3%	1 983	824	140.7%	4 960	2.9%
Solar	98	93.9%	16.7%	0.6%	288	134	114.4%	795	0.5%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	2 763	0.6%	-2.3%	18.0%	8 940	8 488	5.3%	36 137	21.4%
NON-RENEWABLES	12 624	22.5%	9.9%	82.0%	36 256	33 667	7.7%	132 465	78.6%
TOTAL NET PRODUCTION	15 387	17.9%	7.5%		45 196	42 155	7.2%	168 602	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

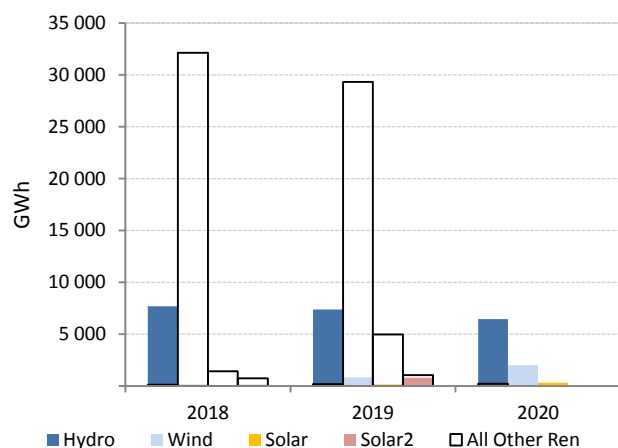
Electricity Production



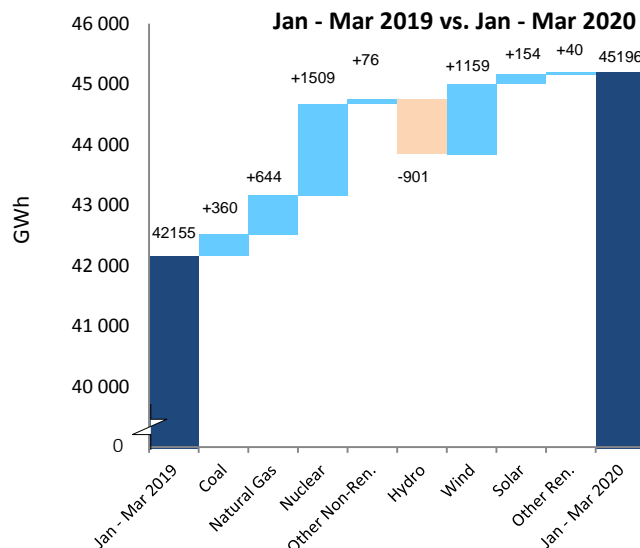
Electricity Production by Fuel



Low-carbon Power Jan - Mar

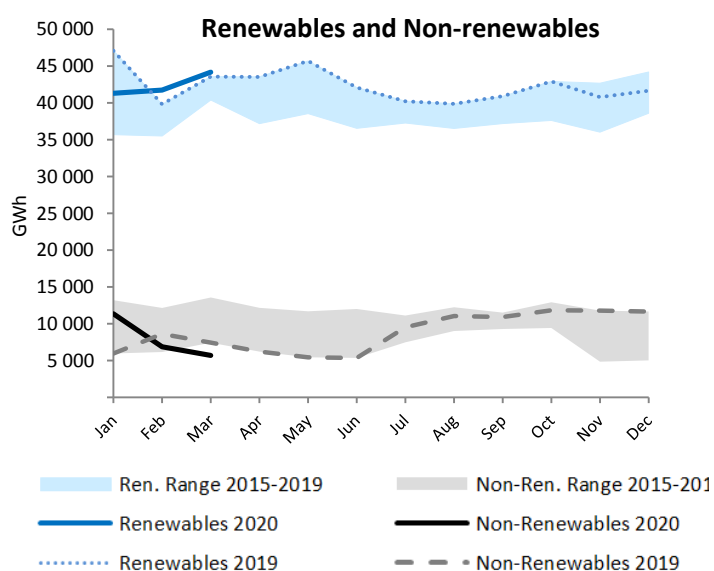
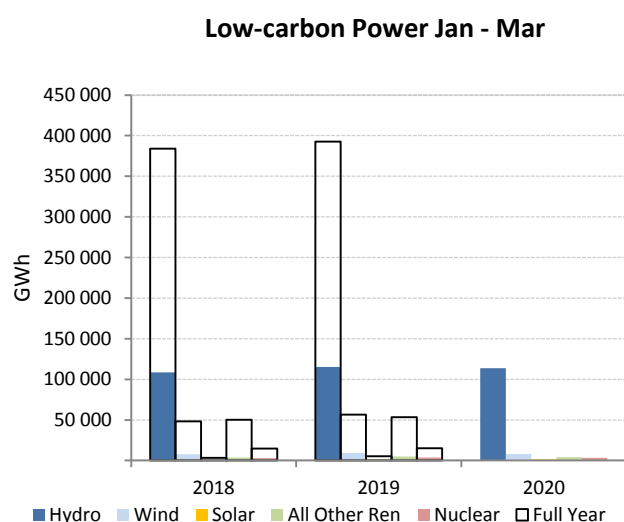
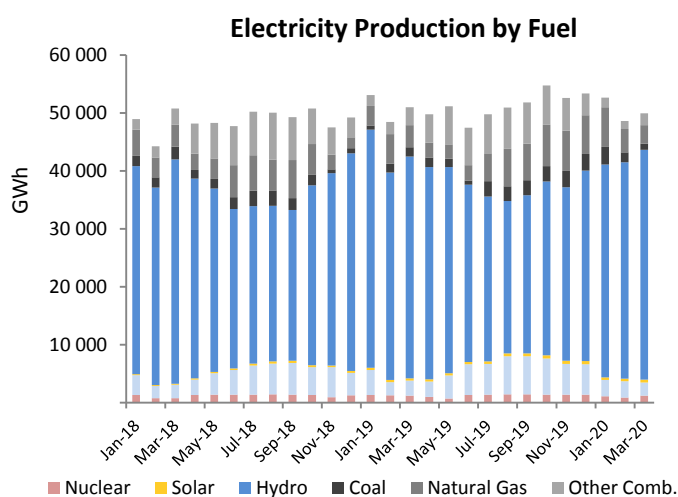
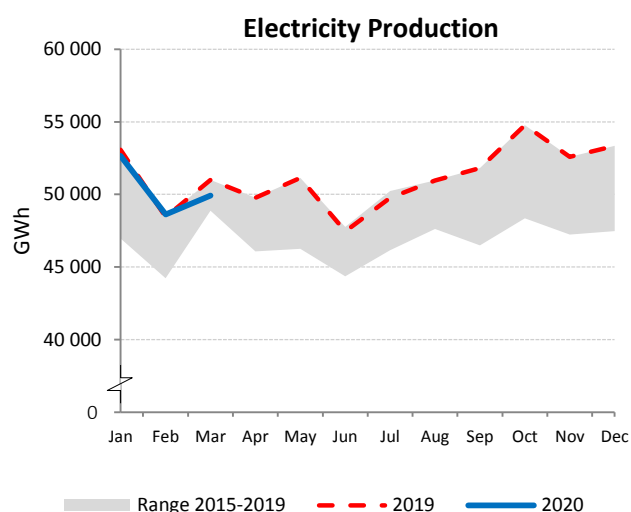


Electricity Production Variation Jan - Mar 2019 vs. Jan - Mar 2020



BRAZIL

	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	6 283	-26.2%	-12.0%	12.6%	24 991	23 205	7.7%	144 144	23.5%
Coal	1 081	-32.5%	-36.1%	2.2%	5 806	3 910	48.5%	23 772	3.9%
Oil	273	-66.5%	1.6%	0.5%	901	2 067	-56.4%	8 672	1.4%
Natural Gas	3 173	-16.7%	-21.8%	6.4%	14 105	12 250	15.1%	58 198	9.5%
Combustible Renewables	1 756	-23.1%	55.8%	3.5%	4 179	4 979	-16.1%	53 503	8.7%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	1 200	-0.4%	35.1%	2.4%	3 178	3 798	-16.3%	15 261	2.5%
Hydro	39 655	3.6%	6.3%	79.4%	113 650	115 139	-1.3%	392 872	64.0%
Wind	2 277	-13.4%	-19.3%	4.6%	7 927	9 258	-14.4%	56 531	9.2%
Solar	510	29.2%	8.3%	1.0%	1 462	1 115	31.2%	5 322	0.9%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	44 198	1.4%	5.9%	88.5%	127 219	130 491	-2.5%	508 228	82.8%
NON-RENEWABLES	5 727	-22.9%	-17.0%	11.5%	23 990	22 024	8.9%	105 902	17.2%
TOTAL NET PRODUCTION	49 924	-2.1%	2.7%		151 209	152 516	-0.9%	614 131	

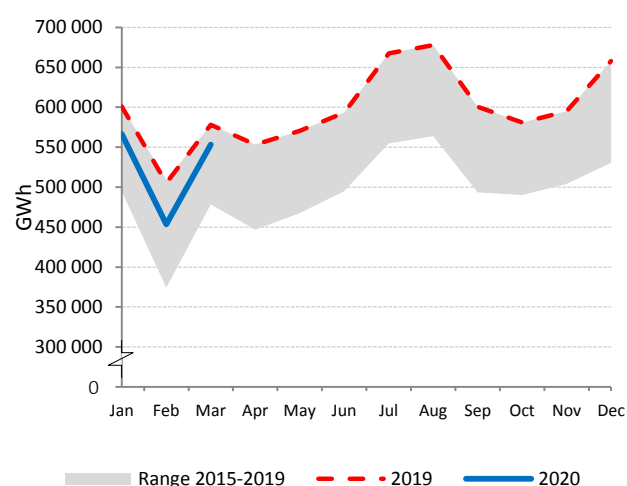
¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

CHINA

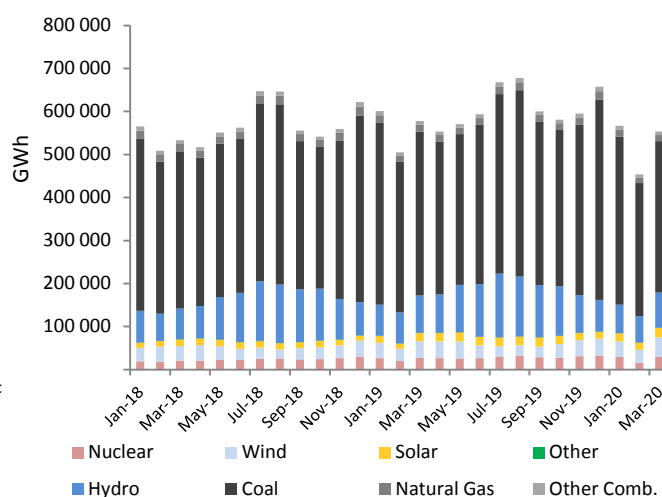
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	374 270	-7.7%	13.5%	67.6%	1 119 433	1 227 366	-8.8%	4 989 960	69.5%
Coal ⁴	351 852	-7.7%	13.5%	63.6%	1 052 381	1 152 882	-8.7%	4 687 139	65.3%
Oil ⁴	774	-8.6%	13.5%	0.1%	2 316	2 564	-9.7%	10 423	0.1%
Natural Gas ⁴	14 363	-9.6%	13.5%	2.6%	42 960	48 064	-10.6%	195 407	2.7%
Combustible Renewables ⁴	6 231	-7.7%	13.5%	1.1%	18 636	20 416	-8.7%	83 003	1.2%
Other Combustibles ⁴	1 050	-7.7%	13.5%	0.2%	3 141	3 441	-8.7%	13 988	0.2%
Nuclear	29 244	6.2%	89.1%	5.3%	74 392	74 030	0.5%	334 673	4.7%
Hydro	81 506	-6.2%	33.2%	14.7%	209 109	232 155	-9.9%	1 239 001	17.3%
Wind	45 811	20.0%	48.7%	8.3%	112 339	102 059	10.1%	392 766	5.5%
Solar	22 524	14.2%	36.0%	4.1%	58 289	48 430	20.4%	224 581	3.1%
Geothermal	10	-2.1%	-	0.0%	29	29	-2.1%	118	0.0%
Other Renewables	1	0.5%	-	0.0%	3	3	0.5%	11	0.0%
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	156 082	3.0%	36.9%	28.2%	398 404	403 092	-1.2%	1 939 480	27.0%
NON-RENEWABLES	397 283	-6.8%	17.0%	71.8%	1 175 189	1 280 980	-8.3%	5 241 630	73.0%
TOTAL NET PRODUCTION	553 365	-4.3%	22.0%		1 573 593	1 684 072	-6.6%	7 181 110	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change³ year-to-date compared to same period last year

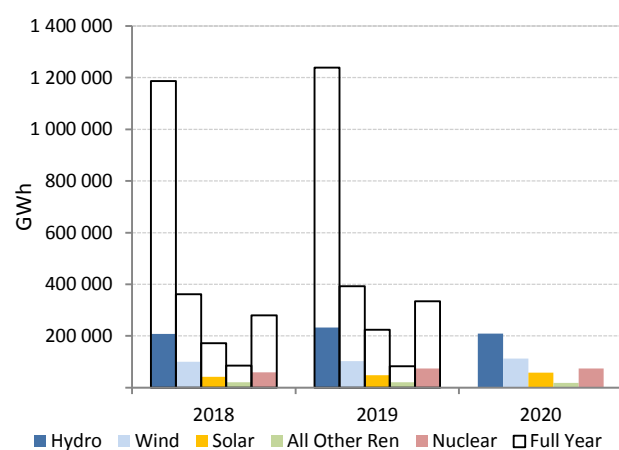
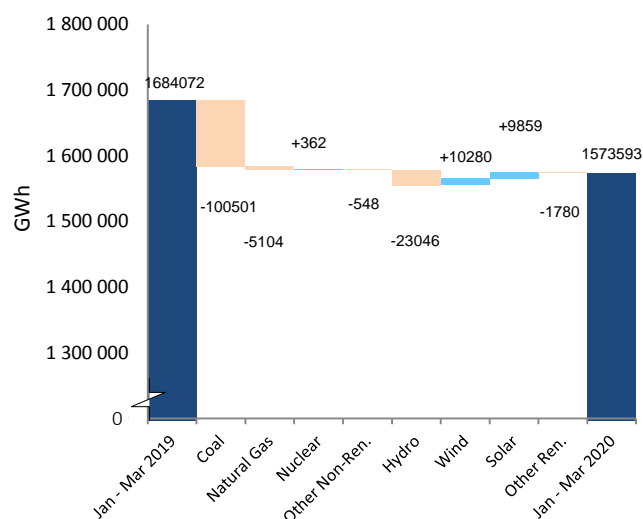
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

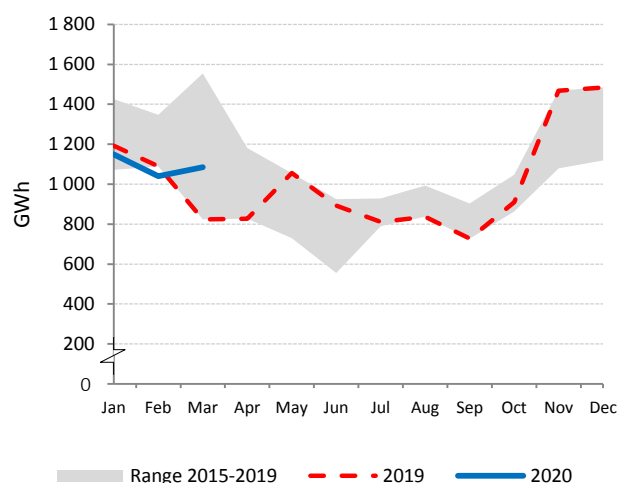
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

CROATIA

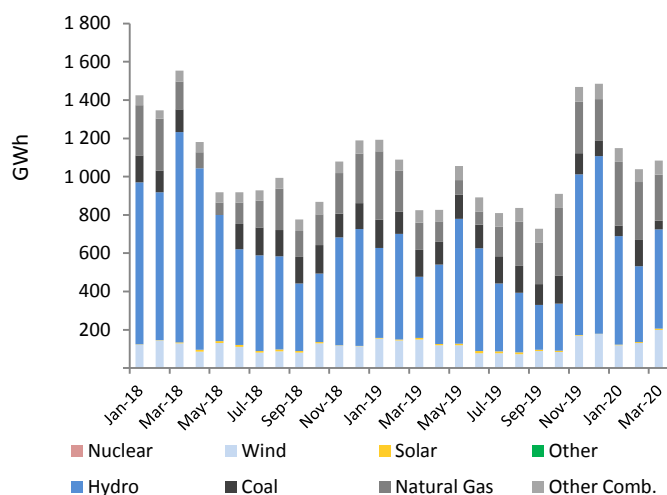
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	360	3.7%	-28.9%	33.2%	1 327	1 301	2.0%	4 750	39.2%
Coal	45	-68.1%	-66.9%	4.2%	237	403	-41.1%	1 505	12.4%
Oil	2	-	100.7%	0.1%	2	-	-	48	0.4%
Natural Gas	242	71.5%	-20.4%	22.3%	877	715	22.7%	2 411	19.9%
Combustible Renewables	72	10.5%	8.6%	6.7%	211	183	14.9%	785	6.5%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	518	62.0%	30.6%	47.8%	1 481	1 343	10.3%	5 858	48.3%
Wind	199	33.0%	52.0%	18.3%	449	448	0.2%	1 433	11.8%
Solar	7	-6.6%	47.1%	0.6%	15	14	1.9%	78	0.6%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	796	46.9%	33.0%	73.4%	2 156	1 988	8.4%	8 156	67.3%
NON-RENEWABLES	288	2.2%	-34.6%	26.6%	1 117	1 118	-0.1%	3 964	32.7%
TOTAL NET PRODUCTION	1 084	31.6%	4.3%		3 272	3 106	5.3%	12 120	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

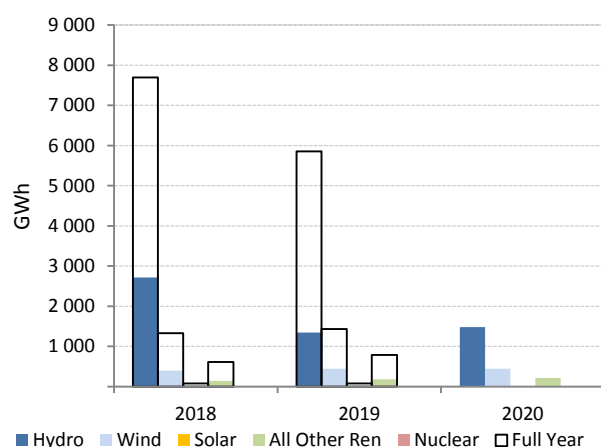
Electricity Production



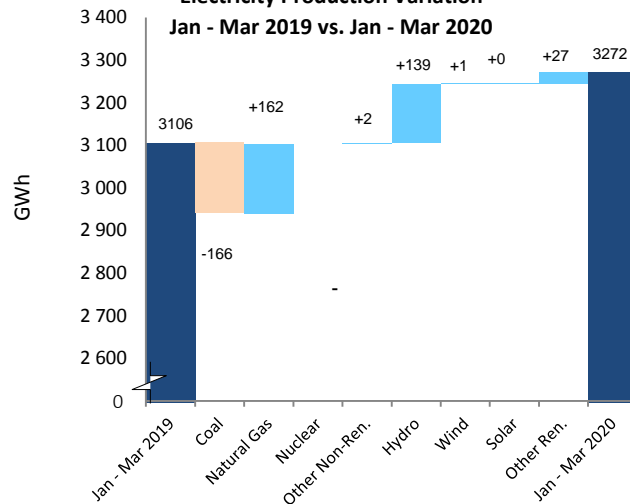
Electricity Production by Fuel



Low-carbon Power Jan - Mar



Electricity Production Variation



INDIA

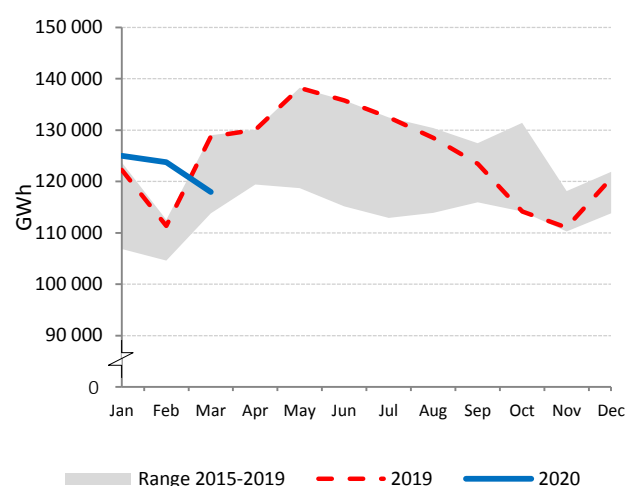
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	94 885	-12.6%	-7.4%	80.5%	301 398	307 526	-2.0%	1 178 854	78.8%
Coal	83 839	-14.0%	-8.4%	71.1%	268 670	273 270	-1.7%	1 066 106	71.2%
Oil ⁴	659	16.0%	6.9%	0.6%	1 671	1 392	20.1%	6 351	0.4%
Natural Gas	5 964	15.2%	19.2%	5.1%	15 672	15 111	3.7%	66 557	4.4%
Combustible Renewables	4 366	-17.7%	-17.0%	3.7%	15 209	17 577	-13.5%	39 138	2.6%
Other Combustibles ⁴	59	-	-	0.0%	176	176	-	703	0.0%
Nuclear	3 827	20.8%	27.8%	3.2%	10 066	8 830	14.0%	42 497	2.8%
Hydro	10 019	5.3%	5.0%	8.5%	29 146	25 425	14.6%	167 870	11.2%
Wind	3 498	14.6%	-3.4%	3.0%	10 537	9 059	16.3%	61 048	4.1%
Solar	5 696	30.2%	10.2%	4.8%	15 553	11 470	35.6%	46 336	3.1%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	23 579	6.0%	0.0%	20.0%	70 445	63 532	10.9%	314 392	21.0%
NON-RENEWABLES	94 346	-11.4%	-5.8%	80.0%	296 255	298 779	-0.8%	1 182 214	79.0%
TOTAL NET PRODUCTION	117 926	-8.4%	-4.7%		366 700	362 311	1.2%	1 496 606	

¹ current month to month of last year change⁴ estimated from annual data² month-to-month change

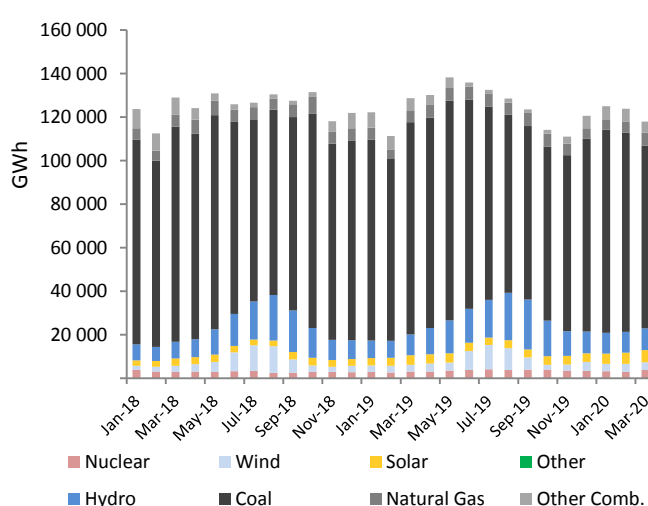
Distributed generation is estimated by the IEA Secretariat

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

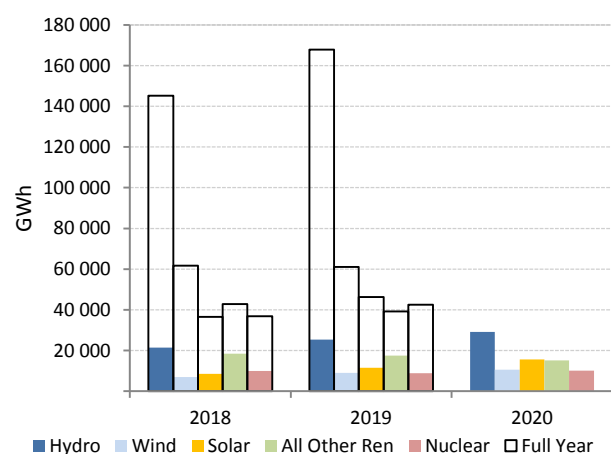
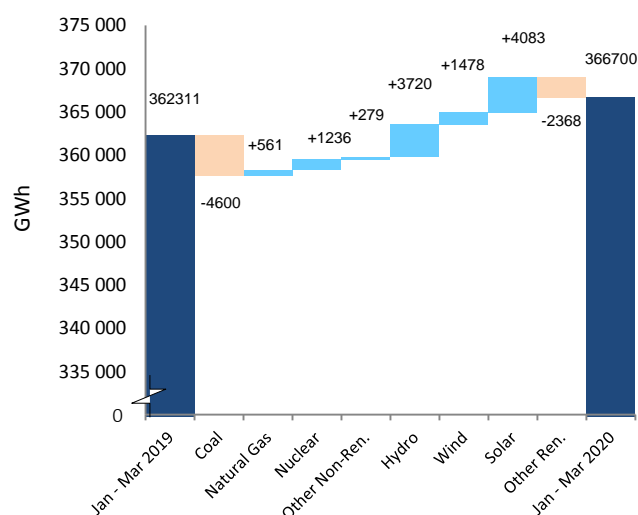
Electricity Production



Electricity Production by Fuel



Low-carbon Power Jan - Mar

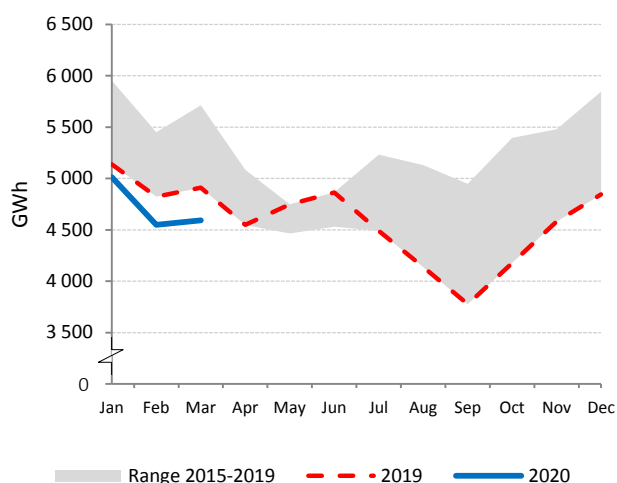
Electricity Production Variation
Jan - Mar 2019 vs. Jan - Mar 2020

ROMANIA

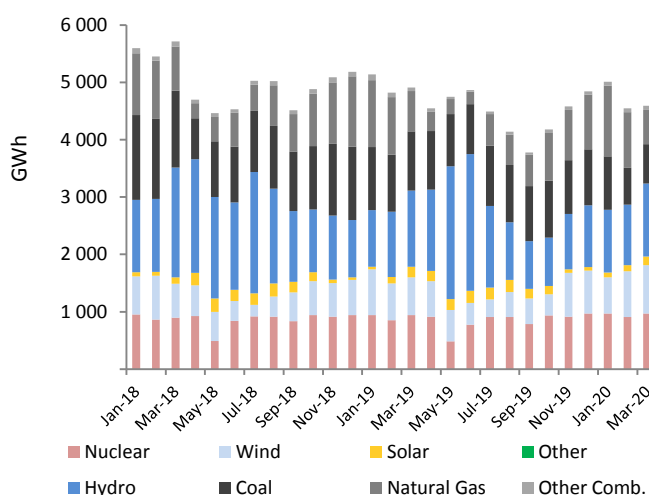
	Mar 2020				Year-to-Date			2019	
	GWh	change ¹	change ²	share	2020	2019	change ³	GWh	share
CONVENTIONAL THERMAL	1 354	-24.5%	-19.5%	29.5%	5 272	6 238	-15.5%	20 498	37.2%
Coal	685	-33.5%	6.6%	14.9%	2 261	3 123	-27.6%	11 848	21.5%
Oil	14	-	25.0%	0.3%	35	98	-64.7%	197	0.4%
Natural Gas	601	-14.6%	-38.2%	13.1%	2 807	2 880	-2.6%	7 978	14.5%
Combustible Renewables	54	20.0%	-3.2%	1.2%	170	137	23.7%	474	0.9%
Other Combustibles	-	-	-	-	-	-	-	-	-
Nuclear	970	2.8%	6.8%	21.1%	2 847	2 742	3.8%	10 346	18.8%
Hydro	1 275	-4.1%	20.6%	27.8%	3 427	3 455	-0.8%	15 715	28.6%
Wind	846	28.6%	5.8%	18.4%	2 278	2 095	8.7%	6 701	12.2%
Solar	146	-20.8%	42.2%	3.2%	330	340	-3.0%	1 777	3.2%
Geothermal	-	-	-	-	-	-	-	-	-
Other Renewables	-	-	-	-	-	-	-	-	-
Non-Specified	-	-	-	-	-	-	-	-	-
RENEWABLES	2 321	4.7%	15.1%	50.6%	6 204	6 028	2.9%	24 668	44.8%
NON-RENEWABLES	2 270	-15.7%	-10.4%	49.4%	7 949	8 843	-10.1%	30 369	55.2%
TOTAL NET PRODUCTION	4 591	-6.5%	0.9%		14 154	14 871	-4.8%	55 037	

¹ current month to month of last year change² month-to-month change³ year-to-date compared to same period last year

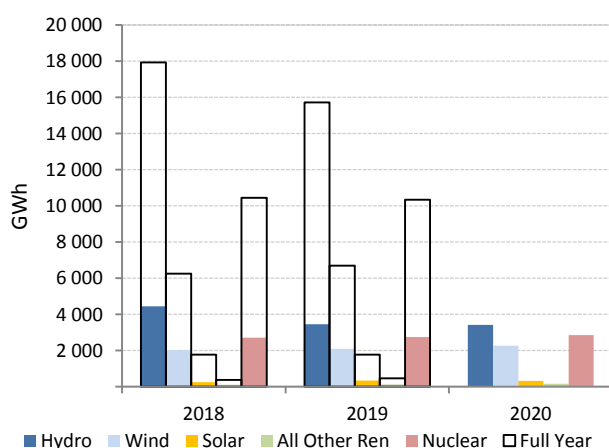
Electricity Production



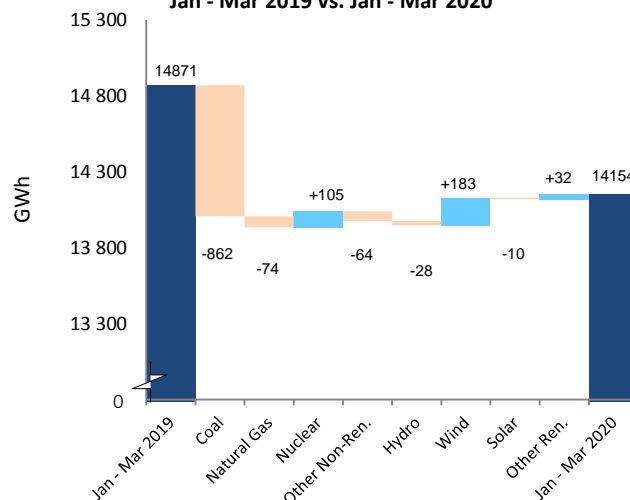
Electricity Production by Fuel



Low-carbon Power Jan - Mar



Electricity Production Variation Jan - Mar 2019 vs. Jan - Mar 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/</i>	
<i>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.

Please note that all IEA data are subject to the following Terms and Conditions found on the IEA's website: <http://www.iea.org/t&c/termsandconditions/>

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.

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.

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.

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

Mr. Julian Prime

Statistics

Ms. Mathilde Daugy

Contacts:

International Energy Agency
Energy Data Centre
Coal, Renewables, Electricity & Heat Statistics Section
31-35, rue de la Fédération
75739 PARIS Cedex 15
France

☎ +33 (0)1 40 57 68 39

✉ CES@iea.org

Media Enquiries:

IEA Press Office
☎ +33 (0)1 40 57 65 54
✉ ieapressoffice@iea.org

This document can be downloaded free of charge at:
<https://www.iea.org/reports/monthly-oecd-electricity-statistics/>

Published on the 15th of each month.