

Statistical bulletin

Technical Management of the System

March 2020

PREVIEW



Content

A yellow sign with the ENAGAS logo and text is visible in the top right corner of the slide. The sign is partially obscured by the white content box.

1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

Activity by LNG plant

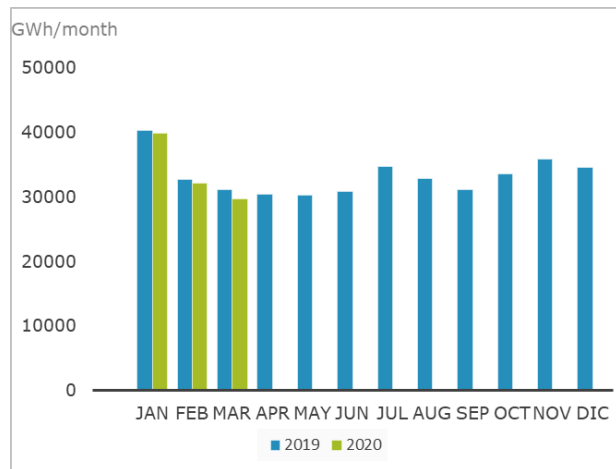
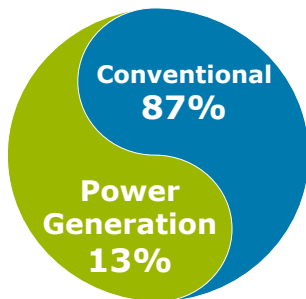
5. Underground storage

6. Operating notes

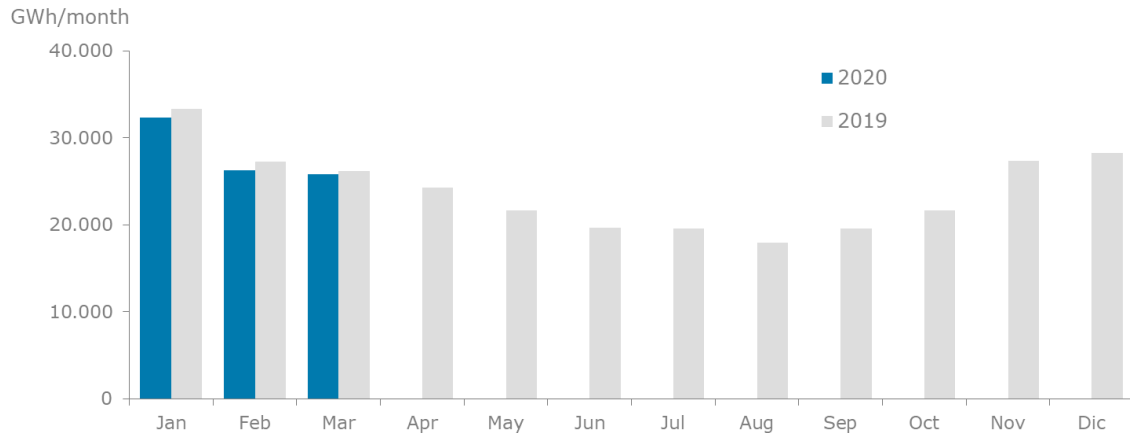
Natural Gas demand follow-up

| Unit : GWh | Month | % Δ Month | Year | % Δ Year | MAT | % Δ 2019 |
|------------------------------------|---|--------------|----------------|--------------|---|--------------|
| | 1 st to 31 th March | | Year 2020 | | 1 st April 2019 to 31 nd Mar 2020 | |
| <i>National Demand</i> | 29.624 | -4,8% | 101.571 | -2,4% | 395.739 | -0,6% |
| - Conventional demand | 25.864 | -1,3% | 84.531 | -2,6% | 284.667 | -0,8% |
| - NG for Power Generation | 3.761 | -23,6% | 17.040 | -1,2% | 111.072 | -0,2% |
| <i>International Demand</i> | 0 | 0,0% | 0 | 0,0% | 0 | 0,0% |
| - International conections exports | 311 | 42,5% | 2.069 | 242,9% | 12.990 | 10,6% |
| - LNG Vessel loading | 15,13 | -4,5% | 205 | 100,0% | 517 | 57,8% |
| TOTAL | 29.950 | -4,4% | 103.845 | -0,9% | 409.246 | -0,2% |

National demand
March - 2020

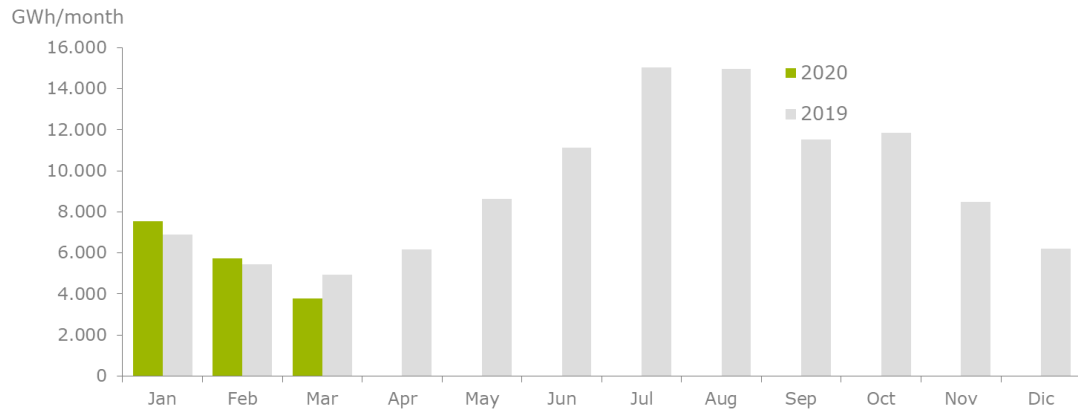


Natural Gas demand follow-up



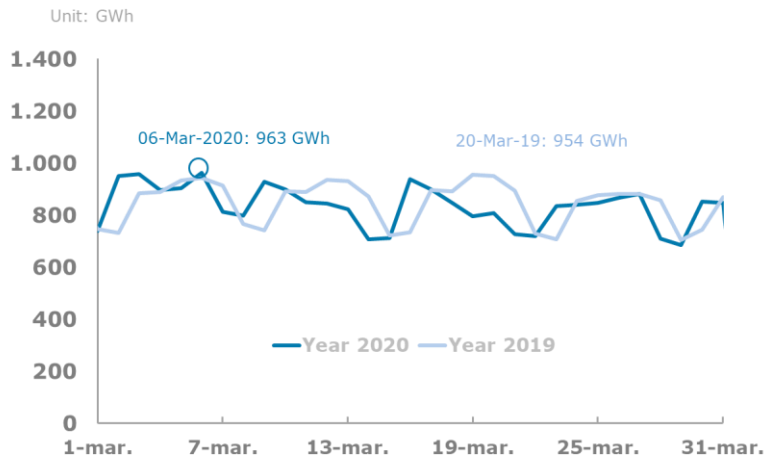
**Conventional demand
2019 - 2020**

**NG for Power Generation
2019 - 2020**

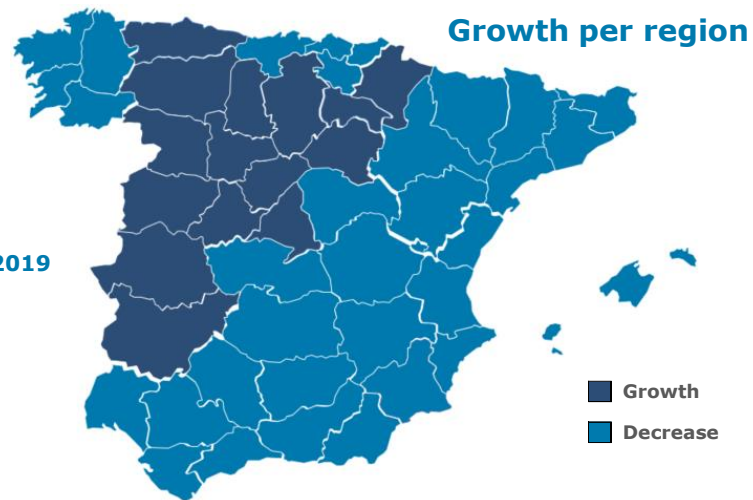


Conventional demand

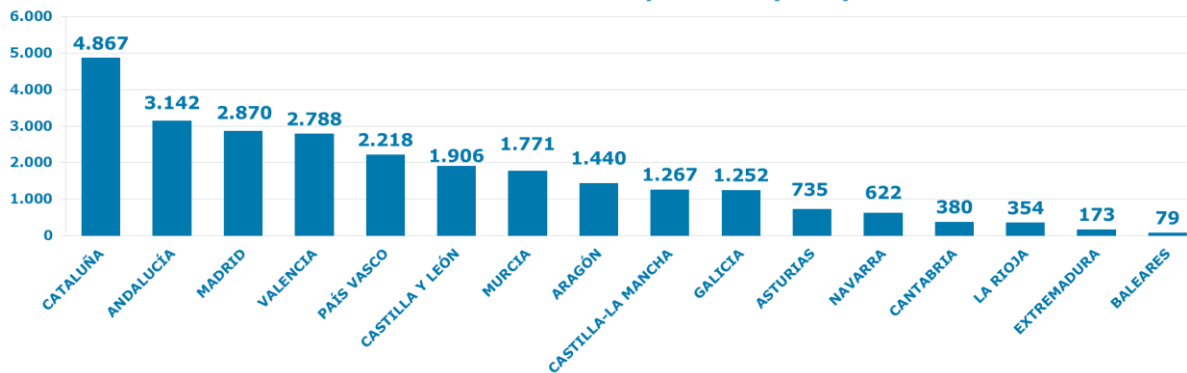
Comparison 2019-2020



Decrease -1.3% vs. 2019



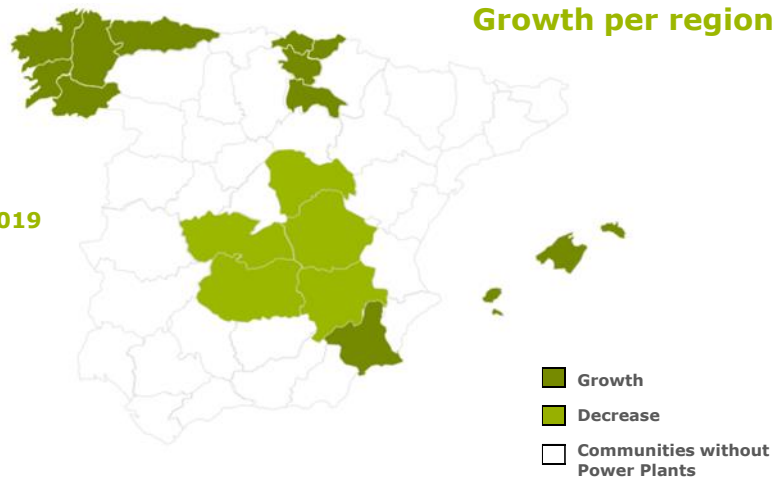
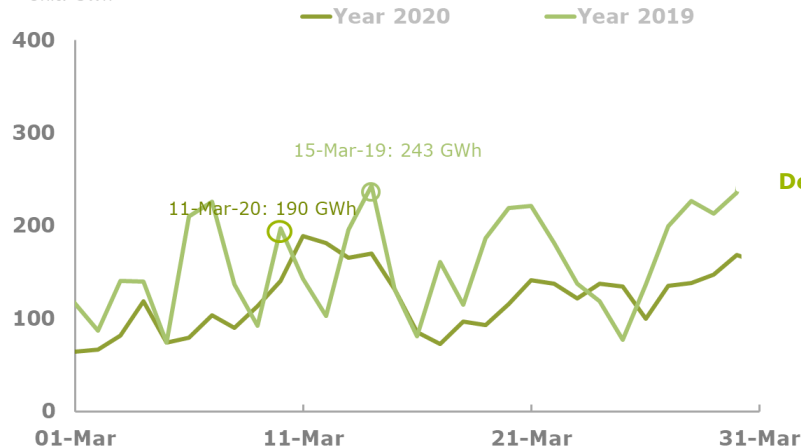
Conventional demand per CCAA (GWh)



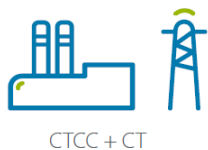
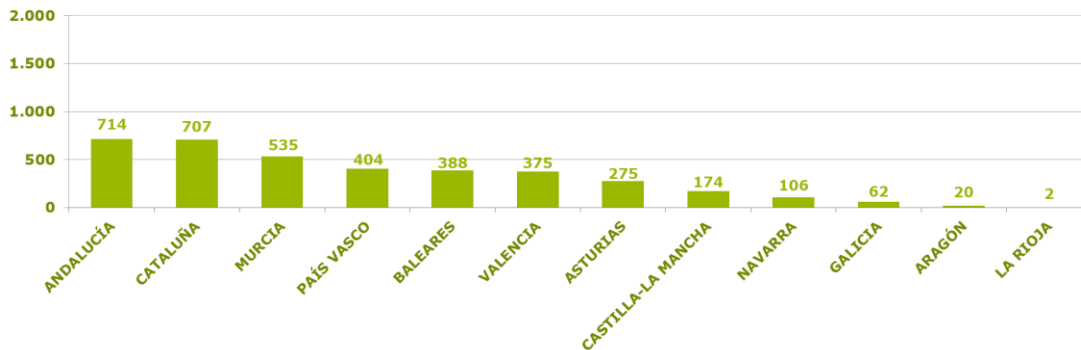
Natural gas for power generation

Comparison 2019-2020

Unit: GWh

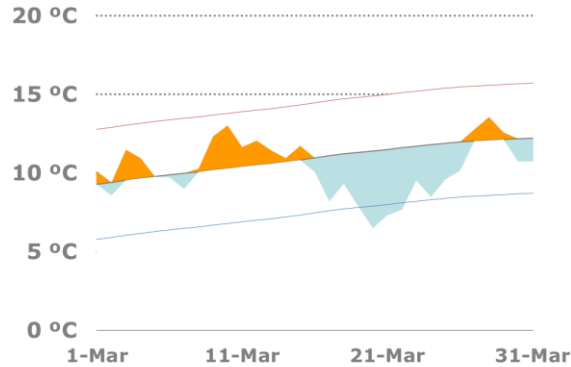


NG for Power Generation (GWh)



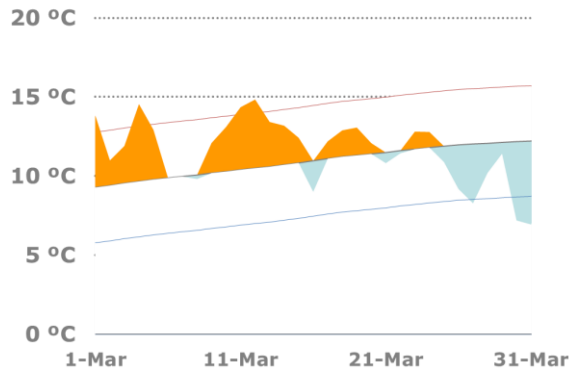
Demand - Temperatures

Temperatures 2019

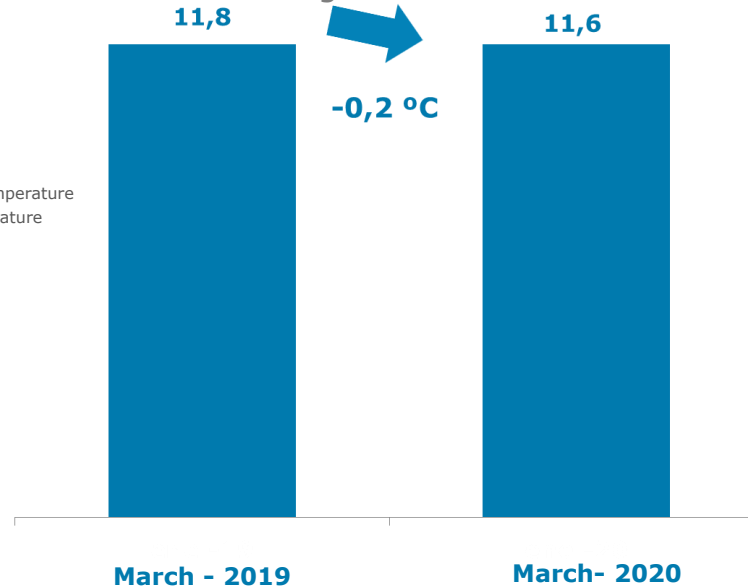


— Average temperature
— Real temperature

Temperatures 2020

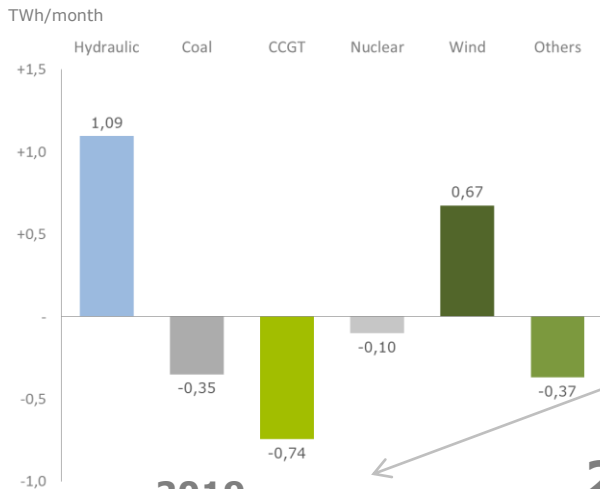


- Temperatures have been lowest during March 2020 in comparison with March 2019.
- The average temperature has been **-0.2°C** lowest than the average of March 2019.

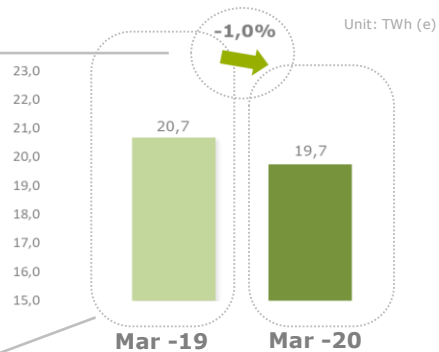


Gas for power generation

GROWTH MAR-20 VS. MAR-19

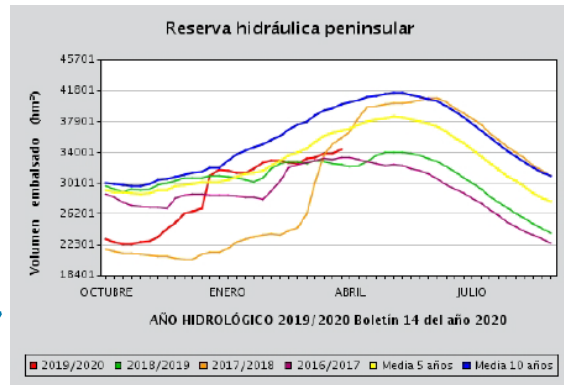


TRANSMISSION DEMAND MAR-20 VS. MAR-19

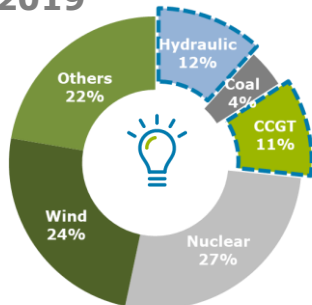


CAPACITY

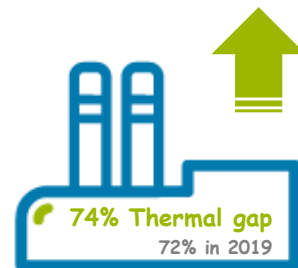
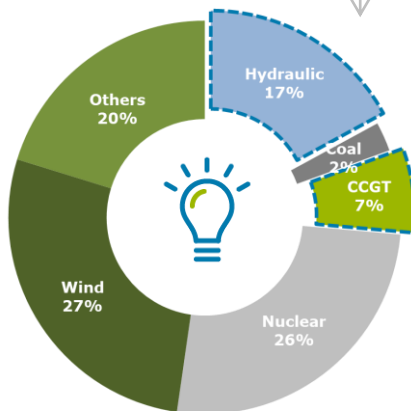
TOTAL : 55,622 hm³ = 22,964 GWh
ACTUAL : 34,366 hm³ = 13,998 GWh



2019



2020



Gas for power generation

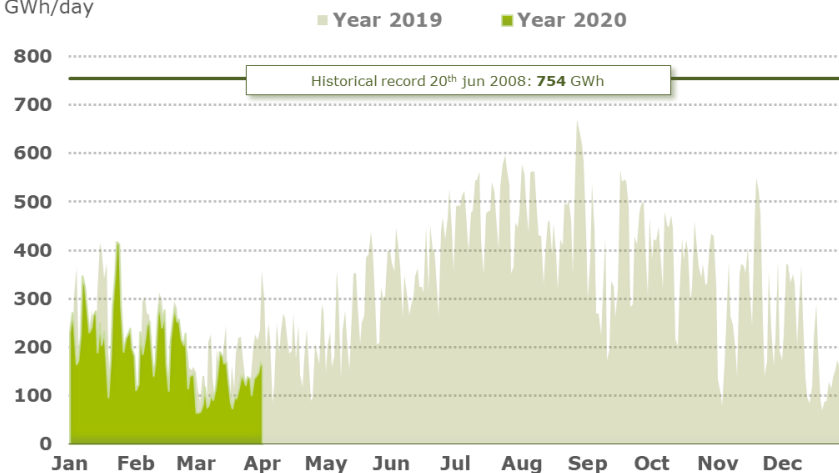


Unit: GWh

| | Monthly record | | | Mobile Anual Total Record | | |
|----------------------------------|----------------|--------------|---------------|---------------------------|--------------------------|---------------------|
| | Mar-18 | Mar-19 | Δ s/mar-18 | Year 2019 | MAT Apr-2019/Mar-2020 | Δ over/Year 2018 |
| NG for Power Generation | 4.922 | 3.761 | -23,6% | 17.040 | 111.072 | -0,2% |
| - Thermal Power Plants | 8 | 11 | +42% | 40 | 111 | -4,7% |
| - CCGT's | 4.914 | 3.749 | -24% | 17.000 | 110.961 | -0,2% |
| Maximum daily consumption | 243 | 190 | -22% | 417 | 671 | +61% |
| | 15-Mar-19 | 11-Mar-20 | | 23-Jan-20 | 27-Aug-19 | |
| Minimum daily consumption | 75 | 65 | -13% | 65 | 65 | - |
| | 06-Mar-19 | 01-Mar-20 | | 01-Mar-20 | 01-Mar-20 | |



GWh/day



Content



1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

Activity by LNG plant

5. Underground storage

6. Operating notes

Origin of supplies

| | | Monthly record | | Annual Total record | | Mobile Annual Total record | |
|--------------------|-----|----------------|---------------|---------------------|-------------|----------------------------|-------------|
| Unit: GWh | | Mar-18 | Mar-19 | Year 2019 | % 2019 | MAT Apr-19/Mar-20 | % MAT |
| Algeria | NG | 6.959 | 5.013 | 19.254 | } 21,2% | 111.541 | } 29,4% |
| | LNG | - | - | 490 | | 11.077 | |
| Nigeria | LNG | 3.952 | 3.800 | 7.635 | 8,2% | 42.258 | 10,1% |
| Qatar | LNG | 2.693 | 1.632 | 6.710 | 7,2% | 49.326 | 11,8% |
| T&T | LNG | 3.793 | 1.327 | 9.501 | 10,2% | 31.775 | 7,6% |
| Peru | LNG | - | 866 | 866 | 0,9% | 5.870 | 1,4% |
| France | NG | 6.153 | 2.101 | 8.387 | } 9,0% | 39.595 | } 9,5% |
| | LNG | - | - | - | | - | |
| Angola | LNG | - | - | 1.021 | 1,1% | 3.047 | 0,7% |
| United States | LNG | 4.895 | 8.004 | 20.251 | 21,7% | 59.282 | 14,2% |
| Norway | LNG | - | - | 942 | 1,0% | 7.393 | 1,8% |
| Egypt | LNG | - | 968 | 968 | 1,0% | 968 | 0,2% |
| Bélgica | LNG | - | 1.031 | 1.031 | 1,1% | 2.069 | 0,5% |
| National gas field | NG | 139 | 62 | 164 | 0,2% | 1.045 | 0,3% |
| National biogas | NG | 9 | 10 | 27 | 0,0% | 101 | 0,0% |
| Portugal | NG | 373 | 60 | 667 | 0,7% | 1.341 | 0,3% |
| Dominican Republic | LNG | - | - | - | 0,0% | - | 0,0% |
| Russia | LNG | - | 4.317 | 8.693 | 9,3% | 42.188 | 10,1% |
| Camerún | LNG | 966 | - | - | 0,0% | - | 0,0% |
| Guinea Ecuatorial | LNG | - | 1.875 | 4.856 | 5,2% | 5.831 | 1,4% |
| Argentina | LNG | - | 375 | 1.691 | 1,8% | 1.691 | 0,4% |
| TOTAL | | 29.932 | 31.440 | 93.152 | 100% | 416.397 | 100% |

Content



1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

Activity by LNG plant

5. Underground storage

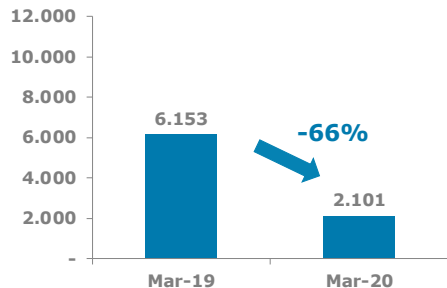
6. Operating notes

Interconnection points

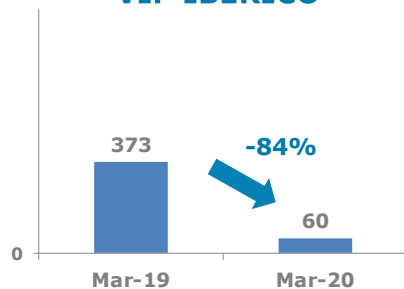
Imports

Unit:: GWh

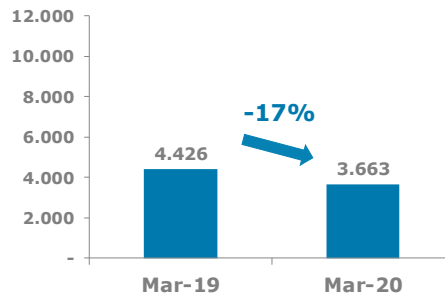
VIP PIRINEOS



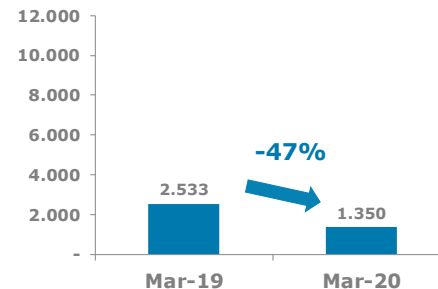
VIP IBÉRICO



ALMERÍA



TARIFA



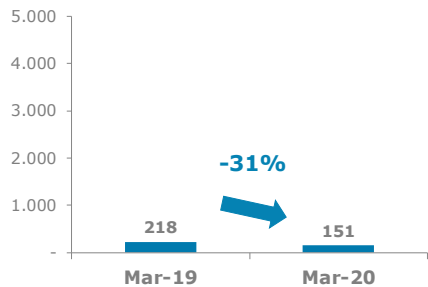
Interconnection points

Exports

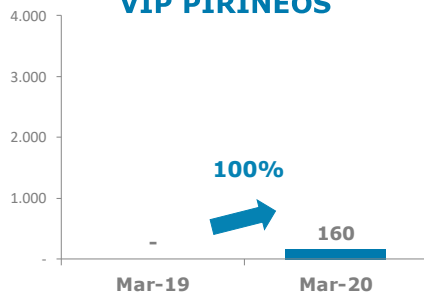
Unit: GWh



VIP IBÉRICO



VIP PIRINEOS



Interconnection points

Balance

Monthly Record

Monthly Mobile Annual Record

Unit: GWh

| | Mar-19 | Mar-20 | Δ over/Mar-19 | Year 2019 | MAT Apr- 19/Mar-20 | Δ s/2019 |
|--------------------|---------------|--------------|------------------|---------------|-----------------------|---------------|
| Tarifa GME | 2.533 | 1.350 | -47% | 5.676 | 43.089 | -19% |
| Almería MEDGAZ | 4.426 | 3.663 | -17% | 13.578 | 62.523 | -7% |
| VIP PIRINEOS | 6.153 | 1.941 | -68% | 7.146 | 33.889 | -24% |
| VIP IBÉRICO | 155 | -91 | -158% | -161 | -5.943 | 12% |
| National gas field | 139 | 62 | -56% | 164 | 1.045 | -23% |
| National biogas | 9 | 10 | 10% | 27 | 101 | 1% |
| TOTAL | 13.415 | 6.935 | -48% | 26.429 | 134.704 | -16,4% |



(+) Entry flows; (-) Exit flows

Content

A yellow sign with the ENAGAS logo and text is visible in the top right corner of the slide. The sign is partially cut off and tilted.

1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

Activity by LNG plant

5. Underground storage

6. Operating notes

Activity at Barcelona plant



| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 189 | 165 |
| LNG Trucks | GWh/day | 15 | 16 |
| % average contract vs. nominal | | 36% | 32% |
| % average contract use | | 87% | 70% |

2019

7 LNG Unloaded
(5.845 GWh)
0 LNG Loaded
(0 GWh)

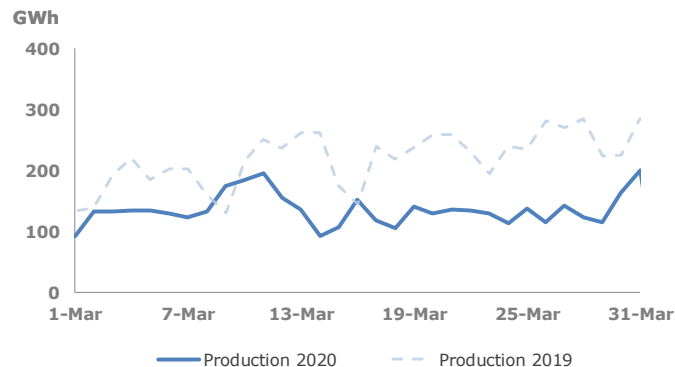
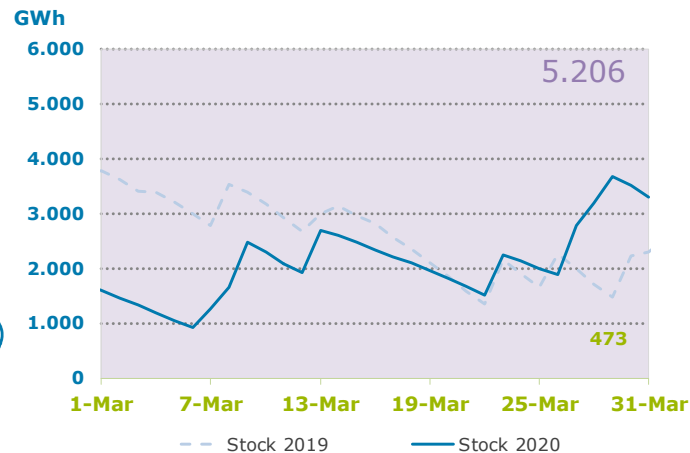


2020

6 LNG Unloaded
(5.788 GWh)
0 LNG Loaded
(39 GWh)



* Bunkering



| Physical production | | | Mar-19 | Mar-20 |
|---------------------------|--------------|----------------|--------------|--------------|
| Nominal | Send-out | GWh/day | 544 | 544 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 559 | 559 |
| Monthly production | | GWh | 6.691 | 4.194 |

Activity at Huelva plant

| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 138 | 202 |
| LNG Trucks | GWh/day | 9 | 11 |
| % average contract vs. nominal | | 37% | 54% |
| % average contract use | | 90% | 81% |

2019

4 LNG Unloaded
(3.702 GWh)
1 LNG Loaded
(16 GWh)

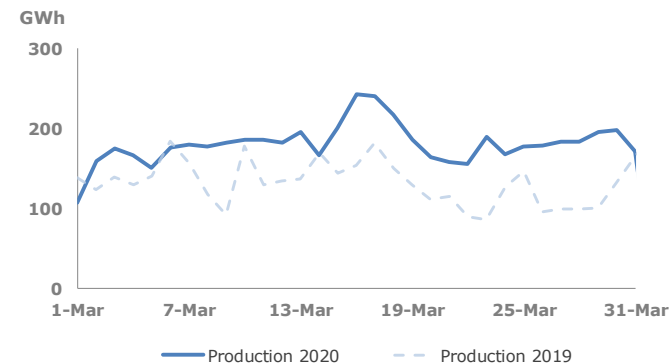
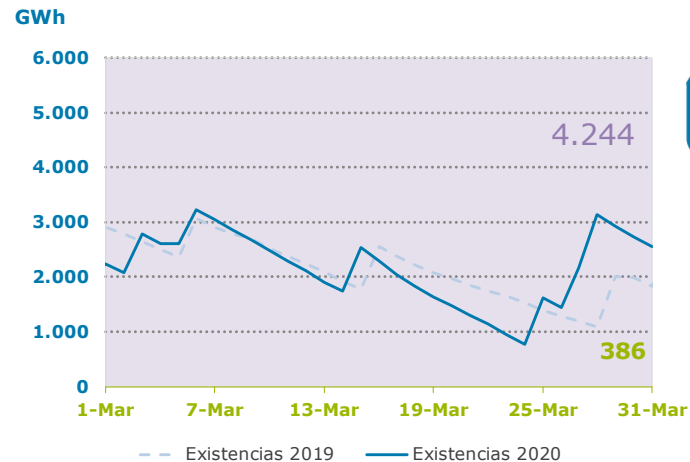


2020

6 LNG Unloaded
(6.209 GWh)
1 LNG Loaded
(15 GWh)



| Physical production | | | Mar-19 | Mar-20 |
|---------------------------|--------------|----------------|--------------|--------------|
| Nominal | Send-out | GWh/day | 377 | 377 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 392 | 392 |
| Monthly production | | GWh | 4.096 | 5.599 |



Activity at Cartagena plant

| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 40 | 141 |
| LNG Trucks | GWh/day | 11 | 10 |
| % average contract vs. nominal | | 13% | 38% |
| % average contract use | | 86% | 72% |

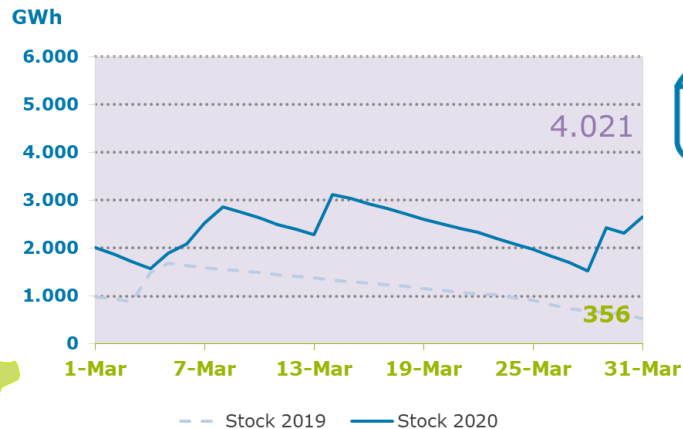
2019

1 LNG Unloaded
(916 GWh)
0 LNG Loaded
(0 GWh)

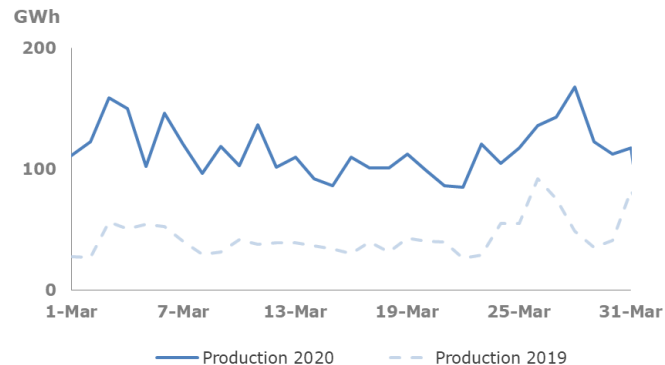


2020

5 LNG Unloaded
(4.046 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | | Mar-19 | Mar-20 |
|---------------------------|--------------|----------------|--------------|--------------|
| Nominal | Send-out | GWh/day | 377 | 377 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 392 | 392 |
| Monthly production | | GWh | 1.325 | 3.607 |



Activity at Bilbao plant



| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 147 | 220 |
| LNG Trucks | GWh/day | 3 | 5 |
| % average contract vs. nominal | | 66% | 99% |
| % average contract use | | 96% | ≈100% |

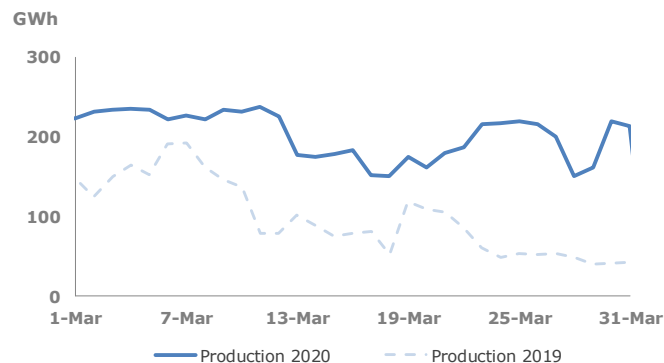
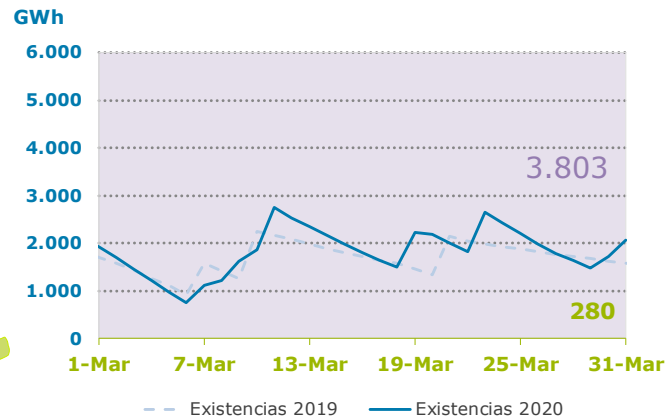
2019

3 LNG Unloaded
(2.746 GWh)
0 LNG Loaded
(0 GWh)



2020

6 LNG Unloaded
(6.160 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | | Mar-19 | Mar-20 |
|---------------------------|--------------|----------------|--------------|--------------|
| Nominal | Send-out | GWh/day | 223 | 223 |
| | LNG Trucks | GWh/day | 5 | 5 |
| | Total | GWh/day | 228 | 249 |
| Monthly production | | GWh | 3.181 | 6.283 |

Activity at Sagunto plant



| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 10 | 21 |
| LNG Trucks | GWh/day | 3 | 9 |
| % average contract vs. nominal | | 4% | 10% |
| % average contract use | | 87% | 87% |

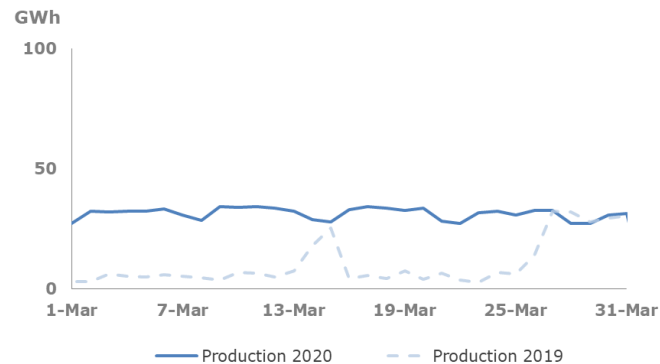
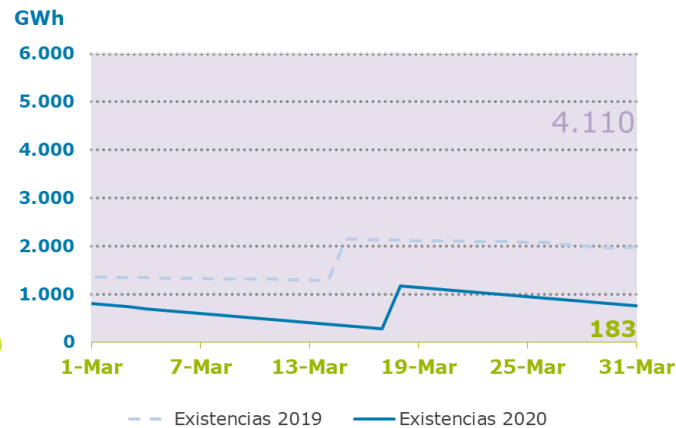
2019

2020

1 LNG Unloaded
(897 GWh)
0 LNG Loaded
(0 GWh)



1 LNG Unloaded
(889 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | | Mar-19 | Mar-20 |
|---------------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 279 | 279 |
| | LNG Trucks | GWh/day | 10 | 10 |
| | Total | GWh/day | 290 | 290 |
| Monthly production | | GWh | 308 | 974 |

Activity at Mugardos plant



| Contract information (Average value) | | Mar-19 | Mar-20 |
|---|---------|--------|--------|
| Send-out | GWh/day | 28 | 30 |
| LNG Trucks | GWh/day | 4 | 4 |
| % average contract vs. nominal | | 25% | 27% |
| % average contract use | | 91% | 81% |

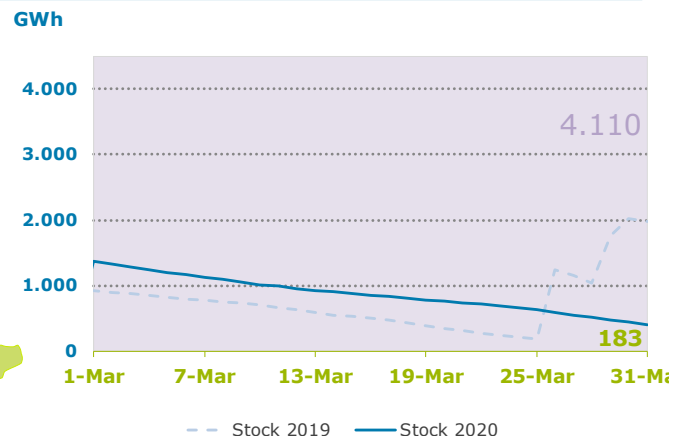
2019

2 LNG Unloaded
(2.196 GWh)
0 LNG Loaded
(0 GWh)

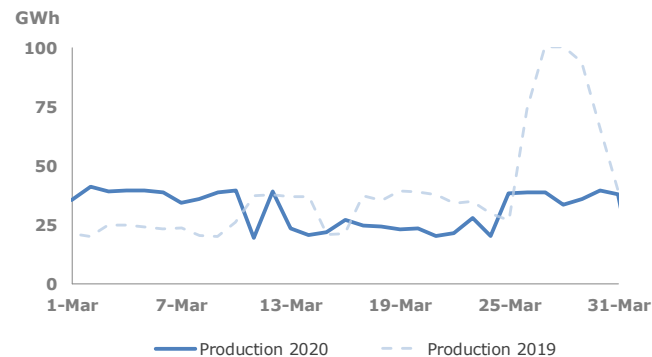


2020

1 LNG Unloaded
(1.102 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | Mar-19 | Mar-20 | |
|---------------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 115 | 115 |
| | LNG Trucks | GWh/day | 10 | 10 |
| | Total | GWh/day | 126 | 126 |
| Monthly production | GWh | 1.191 | 980 | |



Content

A yellow sign with the ENAGAS logo and text is visible in the upper right corner of the slide. The sign is partially obscured and tilted.

1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

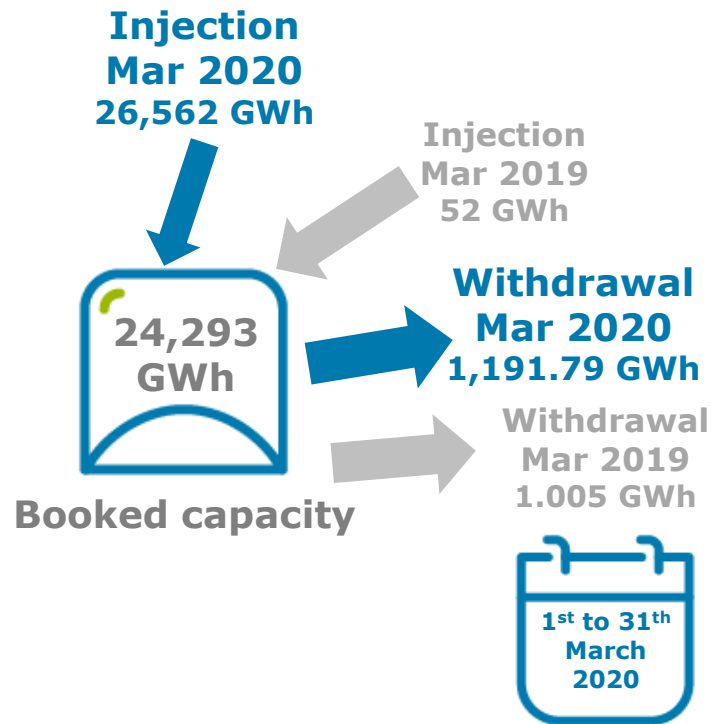
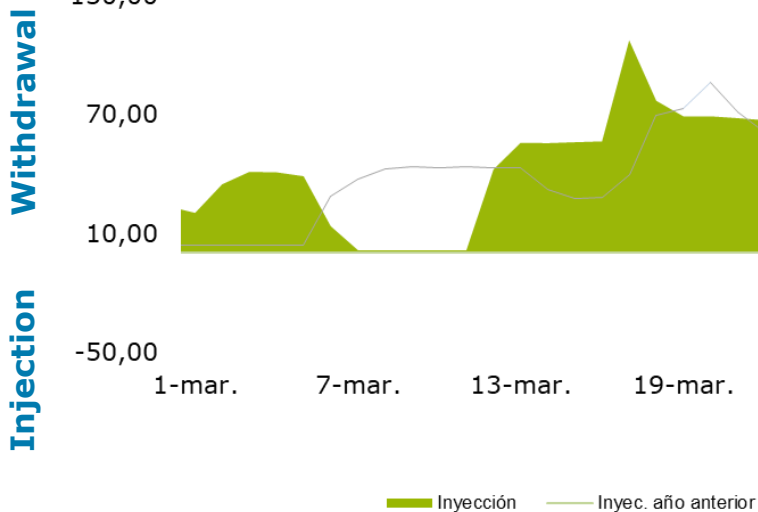
Activity by LNG plant

5. Underground storage

6. Operating notes

Withdrawal / injection season

GWh/day



Content



1. Natural gas demand

Natural gas demand flow-up

Evolution of conventional demand and power generation

Consumption by geographic location

2. Origin of supplies

3. Interconnection Points

4. Regasification Plants

Unloads and loads of LNG vessels

Production at regasification plants

Activity by LNG plant

5. Underground storage

6. Operating notes

Operation Note nº 2/2020 - 30.03.2020 (Initial) **Warning of low temperatures**

The State Meteorological Agency (AEMET) announces a decrease in temperatures **from March 30 to April 02.**

The predicted temperatures result in **extraordinary demand increase** with respect to the expected values under normal conditions of **436 GWh** depending on the temperature predictions evolution in the period **from March 30 to April 02. This increase does not take into account the effects due to COVID-19, which will foreseeably reduce expected value.**

Thermogram with temperature alarms is attached.



The Operating notes can be checked at the [Enagás Website](#)

Thank you

