



Statistical bulletin

Technical Management of the System

September 2018

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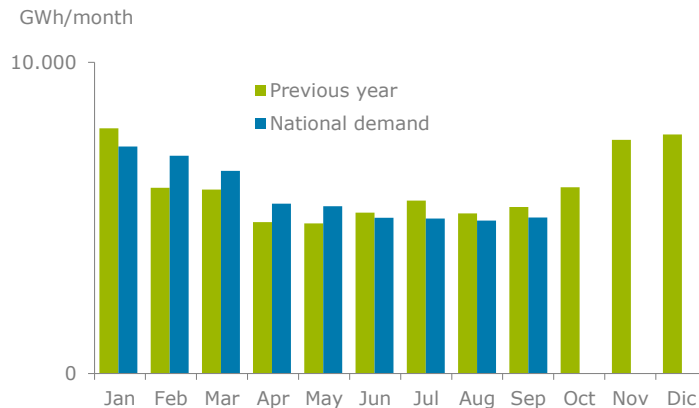
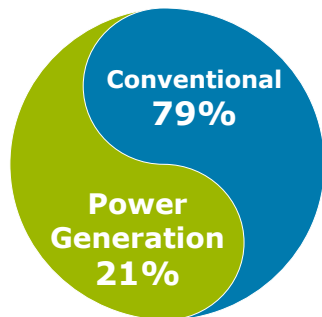
5. Underground storage

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NATURAL GAS DEMAND FOLLOW-UP

| Unit : GWh | Month | % Δ Month | Year | % Δ Year | MAT | % Δ 2017 |
|-------------------------------------|-----------------------------------------------|--------------|----------------|-------------|-----------------------------------------------------------------|-------------|
| | 1 st to 30 th September | | Year 2018 | | 1 st October 2017 to 30 th September 2018 | |
| <i>National Demand</i> | 24.489 | -6,3% | 251.640 | 1,7% | 355.075 | 1,2% |
| - Conventional demand | 19.445 | 2,1% | 209.064 | 6,1% | 287.120 | 4,4% |
| - NG for Power Generation | 5.045 | -28,9% | 42.576 | -15,5% | 67.955 | -10,3% |
| <i>International Demand</i> | | | | | | |
| - International connections exports | 2.127 | -29,1% | 26.126 | 9,3% | 32.970 | 7,2% |
| - LNG Vessel loading | | | 4.961 | >100% | 6.011 | >100% |
| TOTAL | 26.616 | -8,7% | 282.727 | 4,2% | 394.056 | 3,0% |

National demand
September - 2018

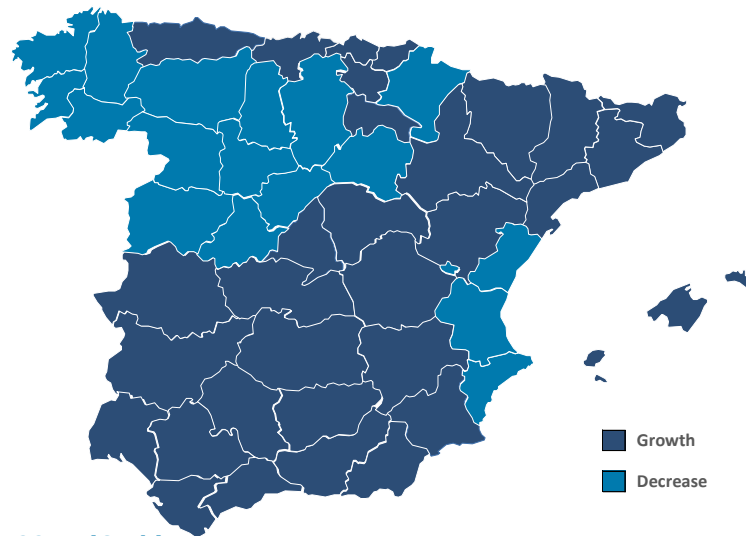
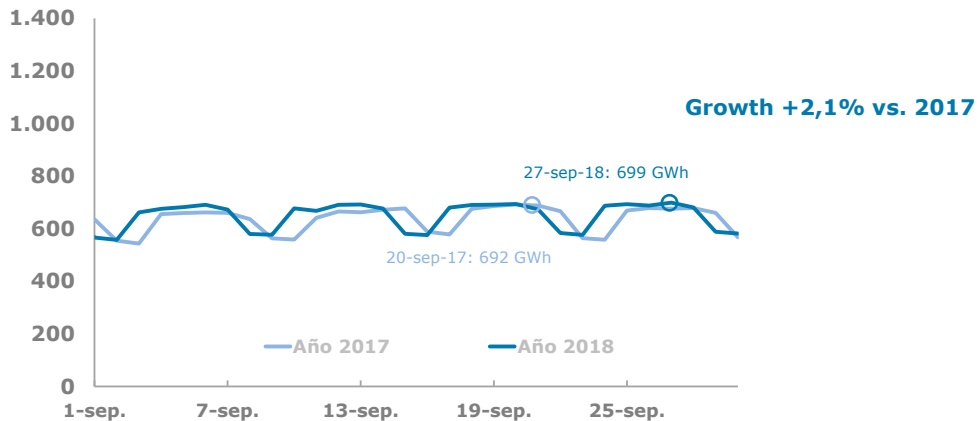


CONVENTIONAL DEMAND

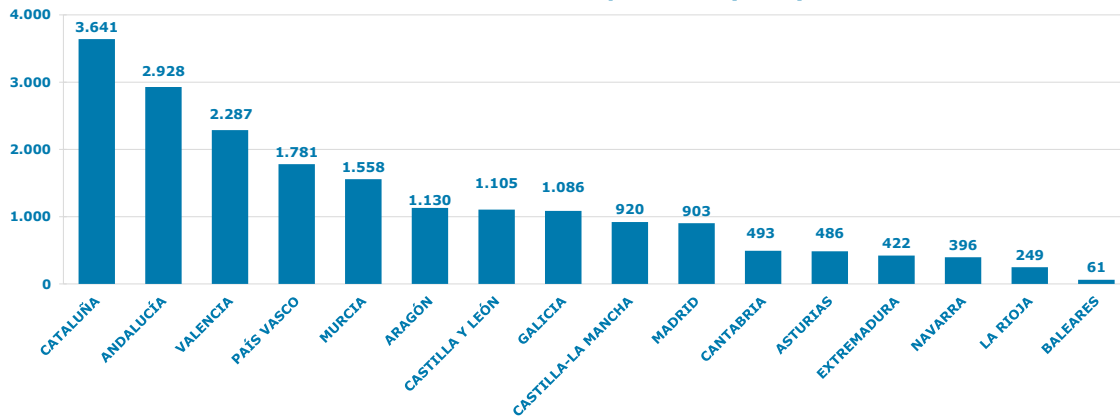
Growth per region

Comparison 2017 - 2018

Unidad: GWh



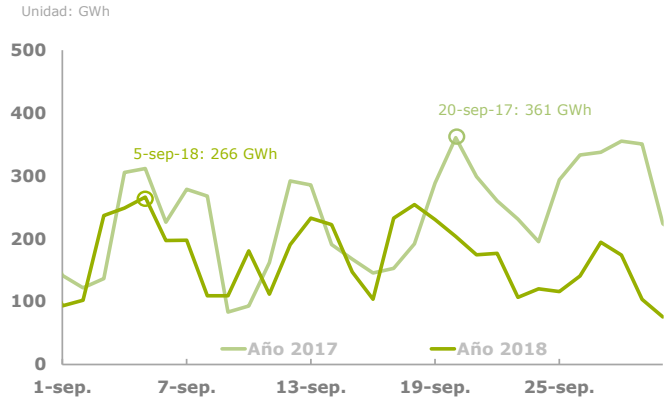
Conventional demand per CCAA (GWh)



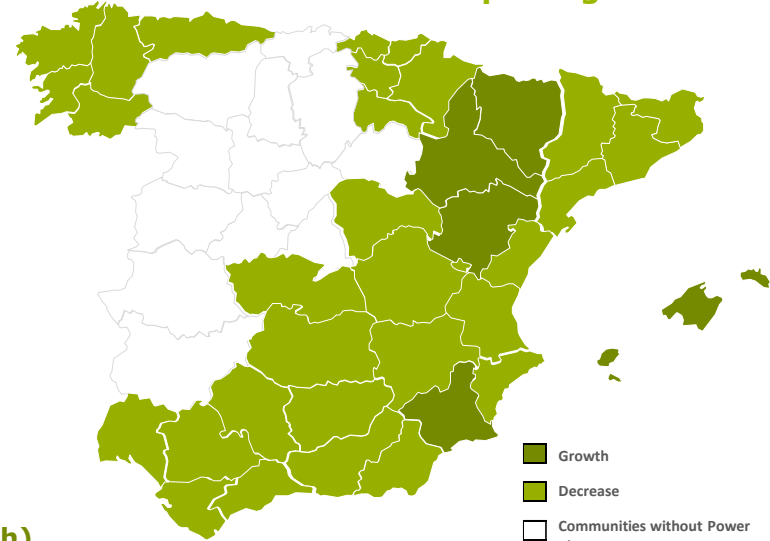
NATURAL GAS FOR POWER GENERATION

Growth per region

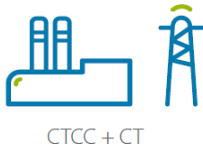
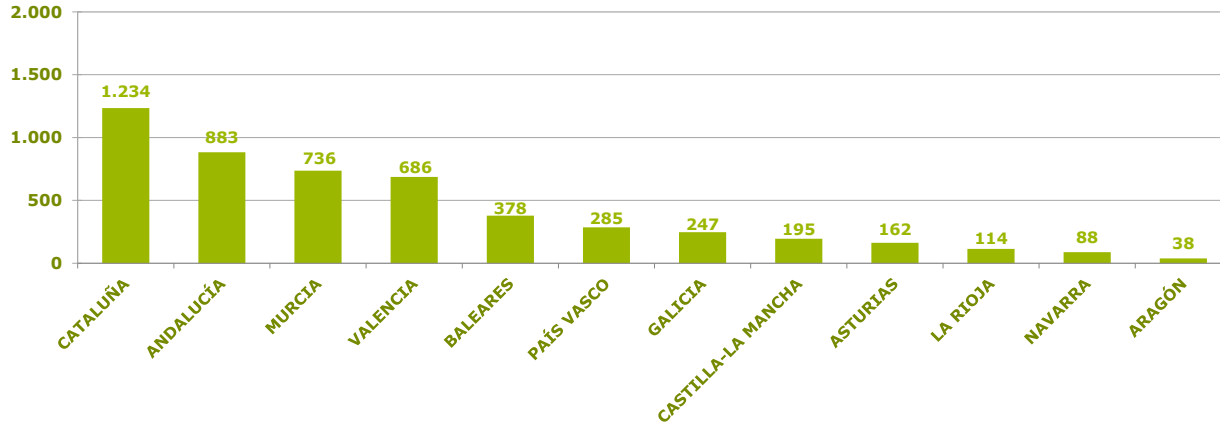
Comparison 2017 - 2018



Decrease -28,9% vs. 2017

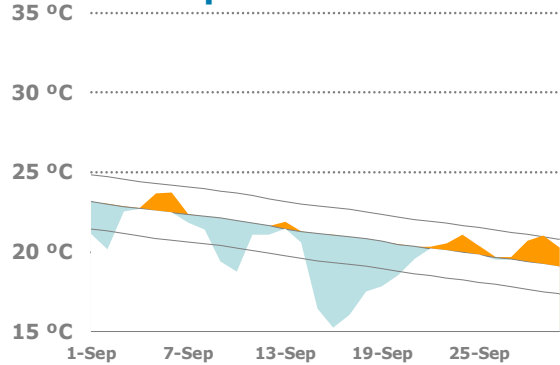


NG for Power Generation (GWh)

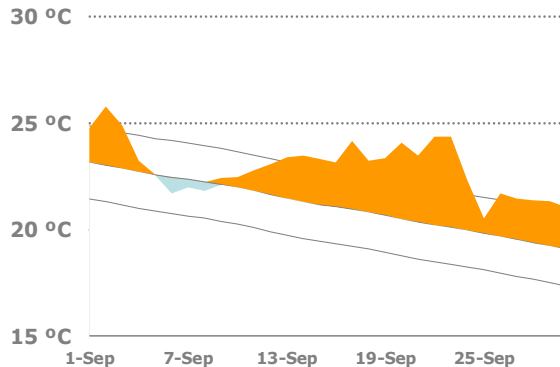


DEMAND - TEMPERATURES

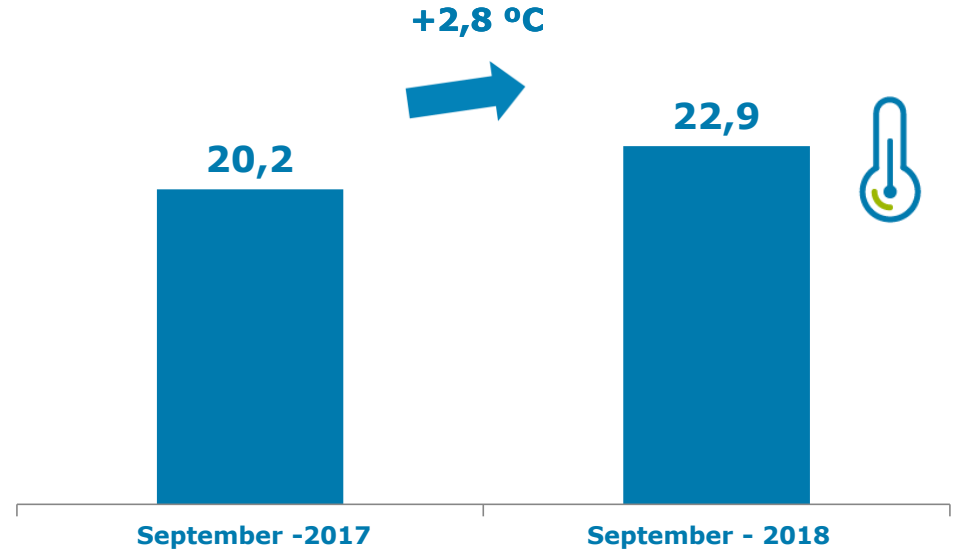
Temperatures 2017



Temperatures 2018

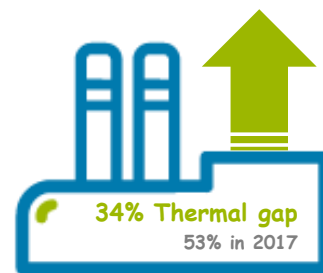
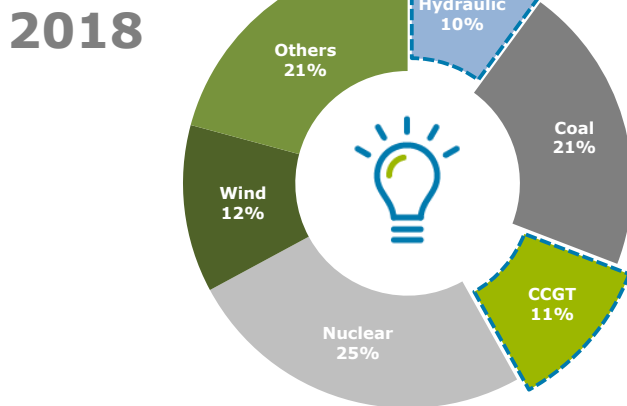
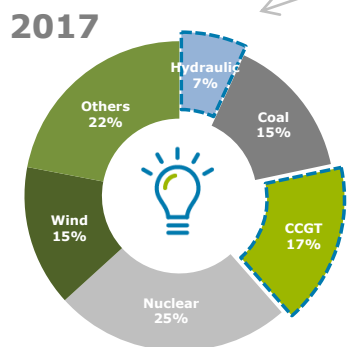
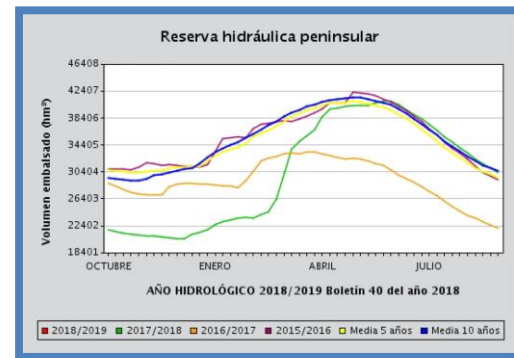
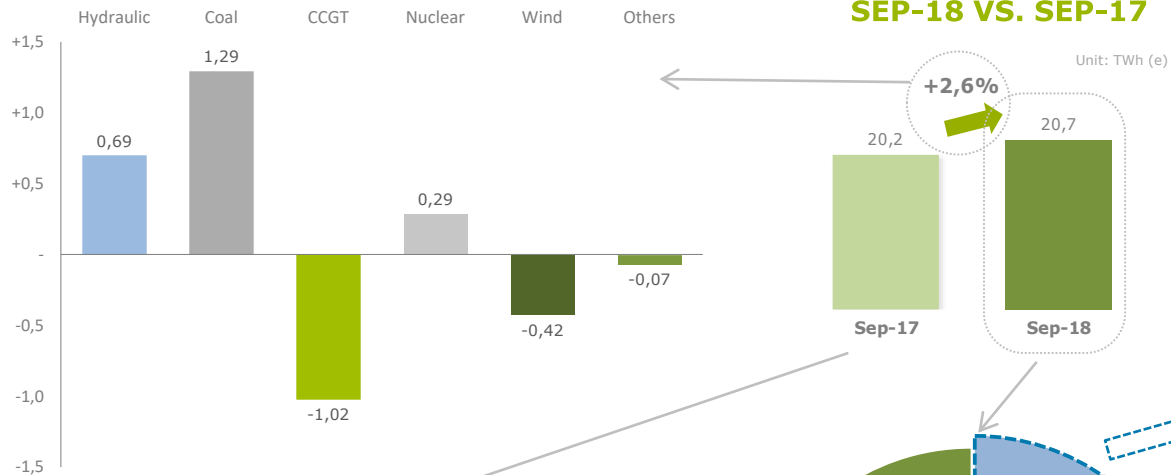


- Temperatures have been higher during September 2018 in comparison with August 2017.
- The average temperature has been **2,8°C** higher than the average of September 2017



GAS FOR POWER GENERATION

TRANSMISSION DEMAND SEP-18 VS. SEP-17



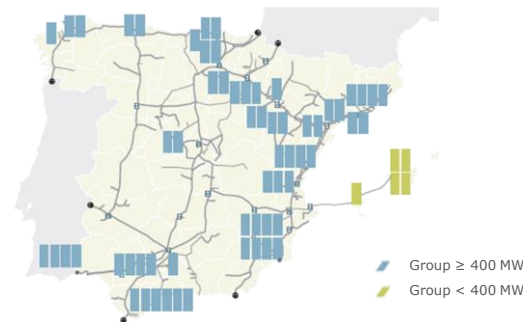
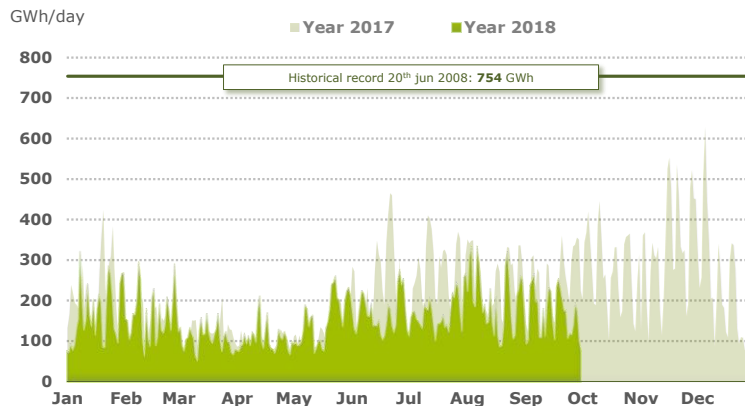
GAS FOR POWER GENERATION



| | Monthly record | | | Mobile Annual Total record | | |
|----------------------------------|----------------|--------------|---------------------|----------------------------|--------------------------|---------------------|
| | Sep-17 | Sep-18 | Δ s/sep-18 | Year 2018 | MAT Oct-2017/Sep-2018 | Δ over/Year 2017 |
| Unit: GWh | | | | | | |
| NG for Power Generation | 7.096 | 5.045 | -28,9% | 42.576 | 67.955 | -10,3% |
| - Thermal Power Plants | 17 | 13 | -25% | 158 | 219 | -4% |
| - CCGT 's | 7.079 | 5.032 | -29% | 42.417 | 67.737 | -10% |
| Maximum daily consumption | 361 | 266 | -26% | 630 | 630 | - |
| | 20-Sep-17 | 05-Sep-18 | | 05-Dec-17 | 05-Dec-17 | |
| Minimum daily consumption | 83 | 76 | -9% | 56 | 52 | -6% |
| | 09-Sep-17 | 30-Sep-18 | | 04-Mar-17 | 11-Mar-18 | |
| % Generation mix | 17% | 11% | -6,0 points | 10% | 12% | -1,9 points |
| % Thermal Gap * | 53% | 34% | -18,8 points | 42% | 44% | -0,4 points |

TPPCC 's

* Thermal gap=CCGT 's+Coal



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ORIGIN OF SUPPLIES



| Unit: GWh | | Monthly record | | Mobile Annual Total record | | |
|---------------|-----|----------------|---------------|----------------------------|-------------------|-------------|
| | | Sep-17 | Sep-18 | Year 2018 | MAT Oct-17/Sep-18 | % |
| Algeria | NG | 11.419 | 13.763 | 142.680 | 192.046 | } 53,9% |
| | LNG | 2.586 | - | 26.767 | 22.685 | |
| Nigeria | LNG | 2.969 | 3.725 | 48.592 | 40.164 | 10,1% |
| Qatar | LNG | 1.773 | 5.028 | 38.977 | 39.970 | 10,0% |
| T&T | LNG | - | 1.676 | 6.117 | 20.839 | 5,2% |
| Peru | LNG | 3.577 | 858 | 39.441 | 24.525 | 6,2% |
| France | NG | 3.568 | 3.371 | 25.526 | 36.410 | } 9,3% |
| | LNG | - | - | - | 487 | |
| Angola | LNG | - | - | 3.111 | 2.084 | 0,5% |
| United States | LNG | 1.092 | - | 8.543 | 3.929 | 1,0% |
| Norway | LNG | - | - | 10.070 | 8.525 | 2,1% |
| Egypt | LNG | - | - | 1.127 | - | 0,0% |
| Bélgica | GNL | - | - | - | 896 | 0,2% |
| National | NG | 34 | 101 | 668 | 720 | 0,2% |
| Portugal | NG | - | - | 46 | 46 | 0,0% |
| Netherlands | LNG | - | - | 1.198 | - | 0,0% |
| Russia | LNG | - | 997 | - | 5.351 | 1,3% |
| TOTAL | | 27.018 | 29.519 | 352.862 | 398.676 | 100% |

National NG includes the withdrawal from national fields and biogas

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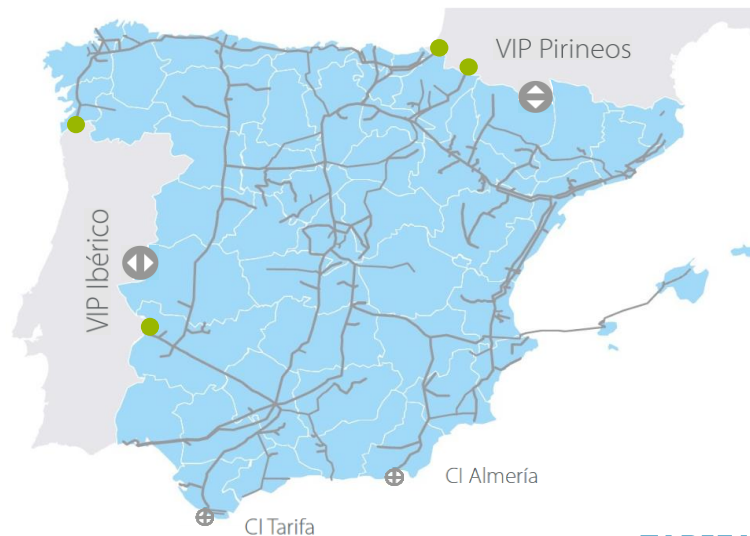
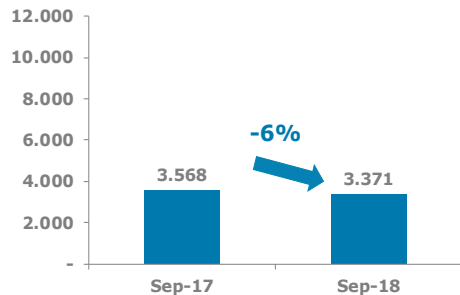
6. Operating notes

INTERCONNECTION POINTS

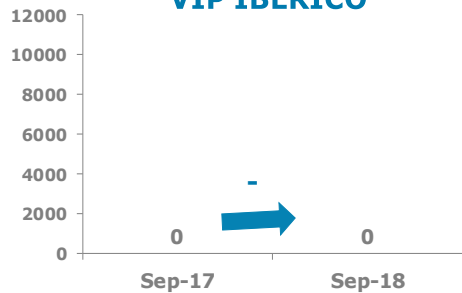


Imports

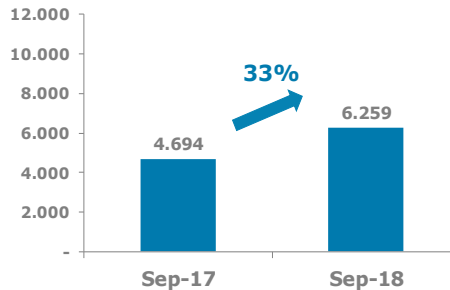
Unit: GWh **VIP PIRINEOS**



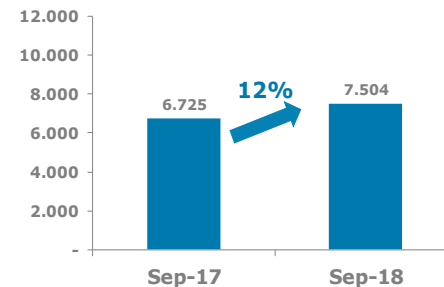
VIP IBÉRICO



ALMERÍA



TARIFA

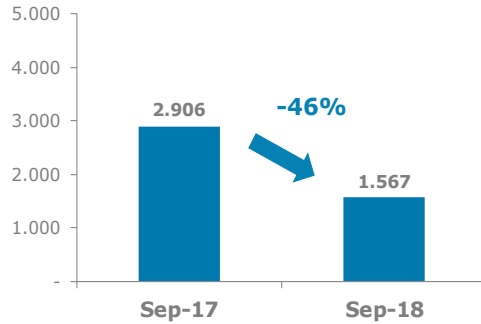


INTERCONNECTION POINTS

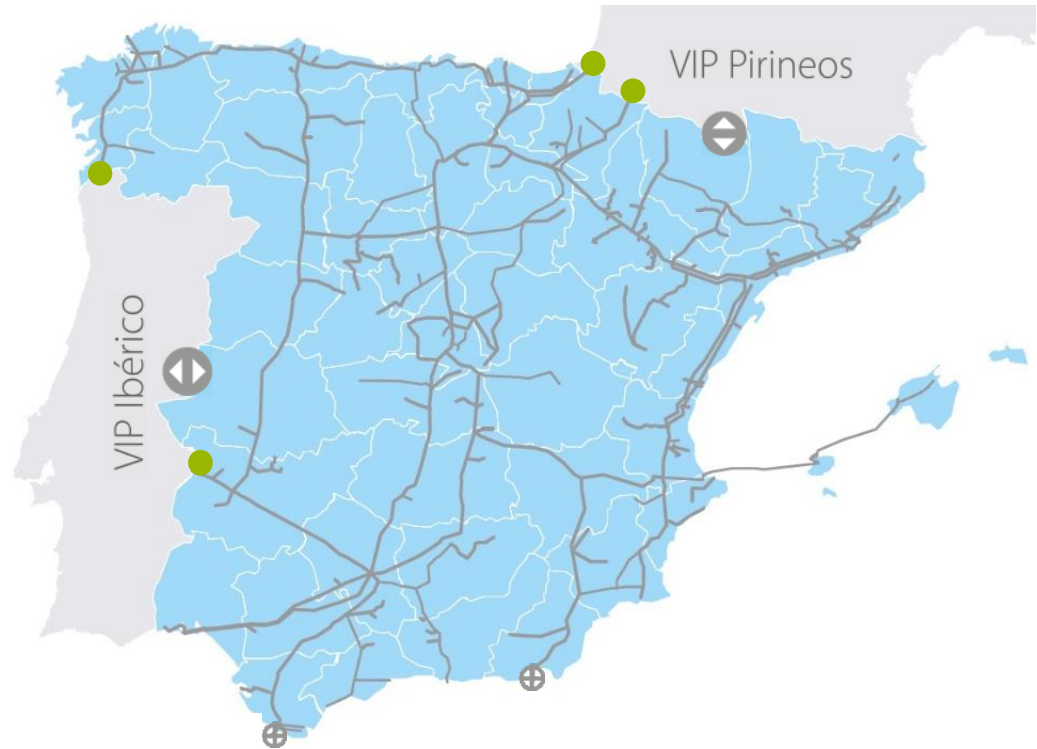
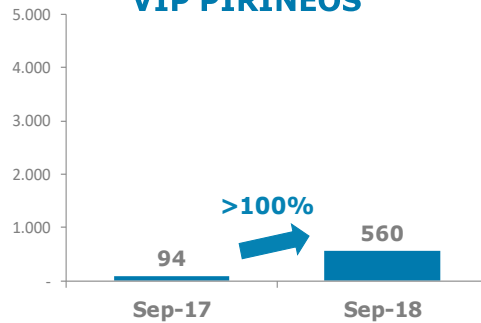


Exports

Unit: GWh **VIP IBÉRICO**



VIP PIRINEOS



INTERCONNECTION POINTS

Balance



| Unit: GWh | Monthly record | | | Mobile Annual Total record | | |
|-----------------------|----------------|---------------|----------------------|----------------------------|-----------------------|-------------------|
| | Sep-17 | Sep-18 | Δ s/Sep-17 | Year 2018 | MAT Oct- 17/Sep-18 | Δ s/MAT |
| Tarifa GME | 6.725 | 7.504 | 12% | 85.253 | 113.960 | 31,8% |
| Almería MEDGAZ | 4.694 | 6.259 | 33% | 57.427 | 78.085 | 4,5% |
| VIP PIRINEOS | 3.474 | 2.811 | -19% | 17.895 | 28.723 | -33,5% |
| VIP IBÉRICO | -2.906 | -1.567 | -46% | -18.449 | -25.238 | -15,4% |
| National Gas | 34 | 101 | 197% | 668 | 720 | 71,8% |
| TOTAL | 12.021 | 15.108 | 26% | 142.794 | 196.251 | 12,1% |

(+) Entry flows; (-) Exit flows

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ACTIVITY AT BARCELONA PLANT



| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 197 | 163 |
| LNG Trucks | GWh/day | 10 | 9 |
| % average contract vs. nominal | | 37% | 31% |
| % average contract use | | 85% | 76% |

2017

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

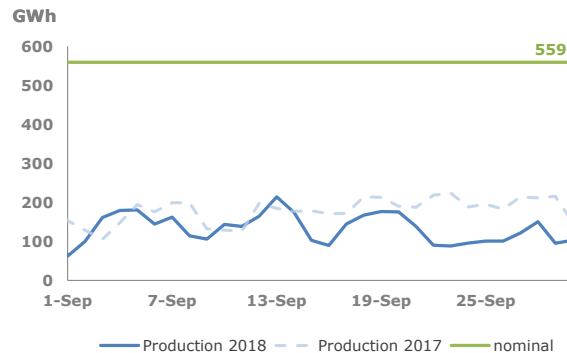
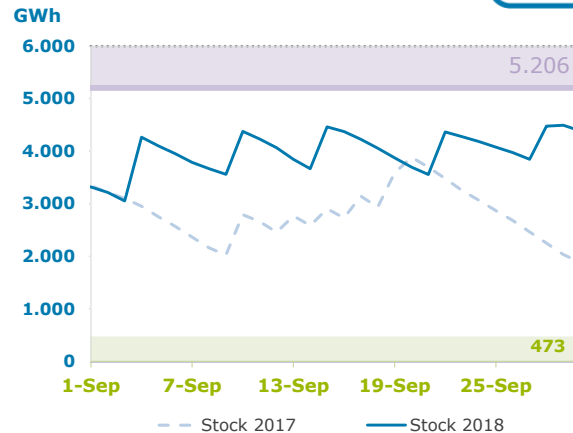


2018

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



| Physical production | | Sep-17 | Sep-18 | |
|---------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 544 | 544 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 559 | 559 |
| Monthly production | | GWh | 5.377 | 3.985 |



ACTIVITY AT HUELVA PLANT



| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 147 | 142 |
| LNG Trucks | GWh/day | 10 | 9 |
| % average contract vs. nominal | | 40% | 39% |
| % average contract use | | 88% | 61% |

2017

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

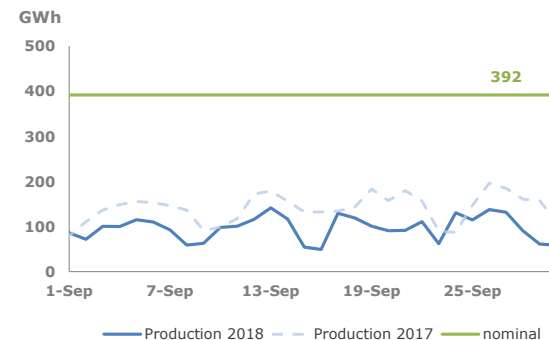
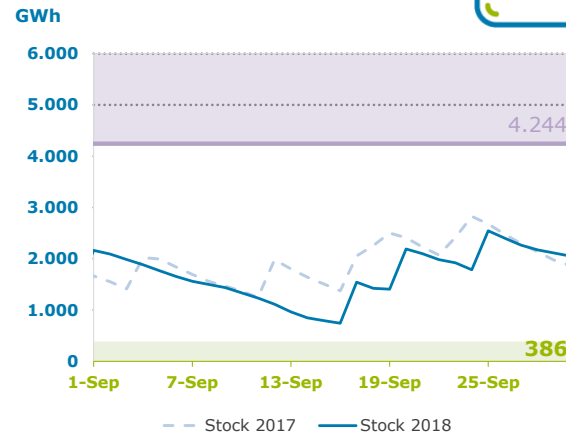


2018

4 LNG Unloaded
(3.543 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | Sep-17 | Sep-18 | |
|---------------------------|--------------|----------------|--------------|--------------|
| Nominal | Send-out | GWh/day | 377 | 377 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 392 | 392 |
| Monthly production | | GWh | 4.234 | 2.900 |



ACTIVITY AT CARTAGENA PLANT



| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 12 | 10 |
| LNG Trucks | GWh/day | 5 | 7 |
| % average contract vs. nominal | | 4% | 4% |
| % average contract use | | 94% | 101% |

2017

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

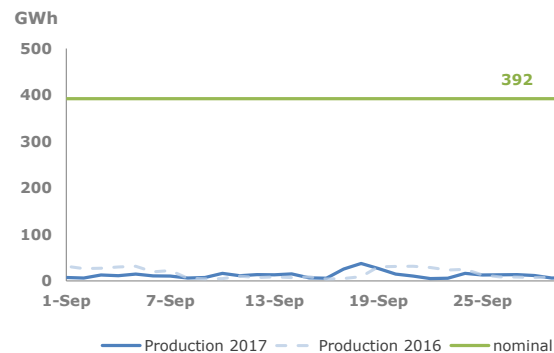
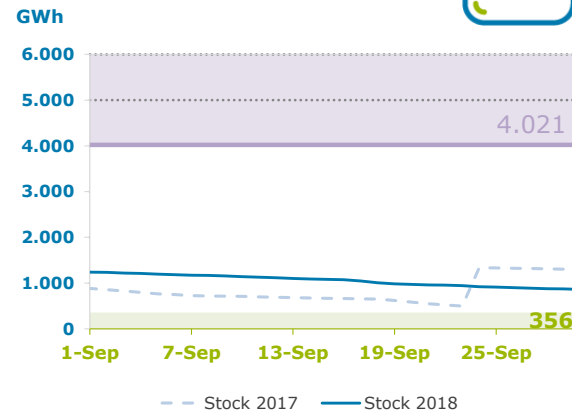


2018

0 LNG Unloaded
(0 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | Sep-17 | Sep-18 | |
|---------------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 377 | 377 |
| | LNG Trucks | GWh/day | 15 | 15 |
| | Total | GWh/day | 392 | 392 |
| Monthly production | | GWh | 488 | 379 |



ACTIVITY AT BILBAO PLANT

| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 90 | 106 |
| LNG Trucks | GWh/day | 2 | 2 |
| % average contract vs. nominal | | 40% | 47% |
| % average contract use | | 88% | 85% |

2017

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

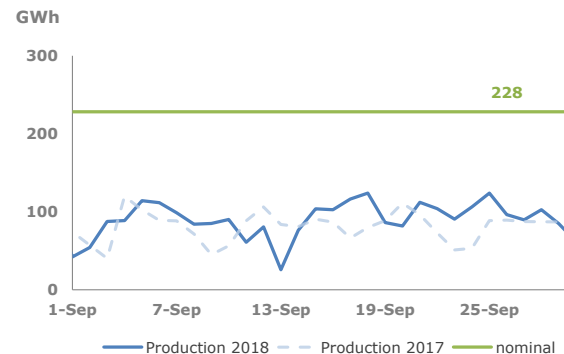
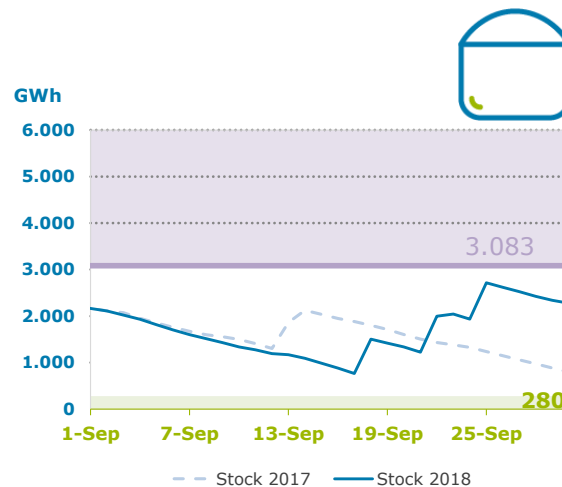


2018

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



| Physical production | | Sep-17 | Sep-18 | |
|---------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 223 | 223 |
| | LNG Trucks | GWh/day | 5 | 5 |
| | Total | GWh/day | 228 | 228 |
| Monthly production | | GWh | 2.425 | 2.683 |



ACTIVITY AT SAGUNTO PLANT



| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 63 | 0 |
| LNG Trucks | GWh/day | 7 | 3 |
| % average contract vs. nominal | | 24% | 1% |
| % average contract use | | 86% | 52% |

2017

2018

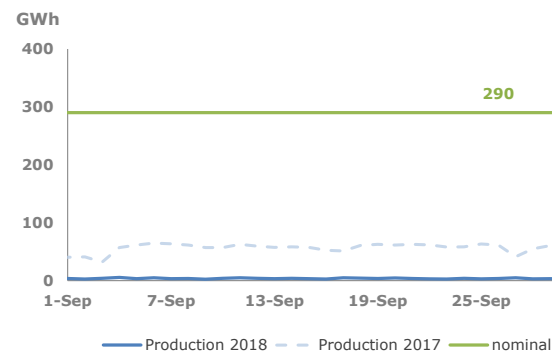
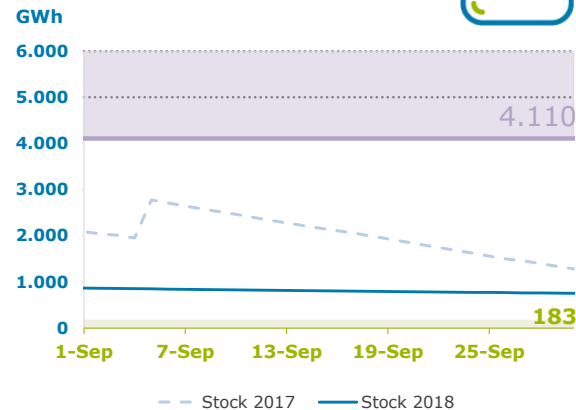
1 LNG Unloaded
(878 GWh)
0 LNG Loaded
(0 GWh)



0 LNG Unloaded
(0 GWh)
0 LNG Loaded
(0 GWh)



| Physical production | | Sep-17 | Sep-18 | |
|---------------------------|--------------|----------------|--------------|------------|
| Nominal | Send-out | GWh/day | 279 | 279 |
| | LNG Trucks | GWh/day | 10 | 10 |
| | Total | GWh/day | 290 | 290 |
| Monthly production | | GWh | 1.703 | 116 |



ACTIVITY AT MUGARDOS PLANT



| Contract information (Average value) | | Sep-17 | Sep-18 |
|-----------------------------------------|---------|--------|--------|
| Send-out | GWh/day | 20 | 31 |
| LNG Trucks | GWh/day | 4 | 4 |
| % average contract vs. nominal | | 19% | 28% |
| % average contract use | | 92% | 97% |

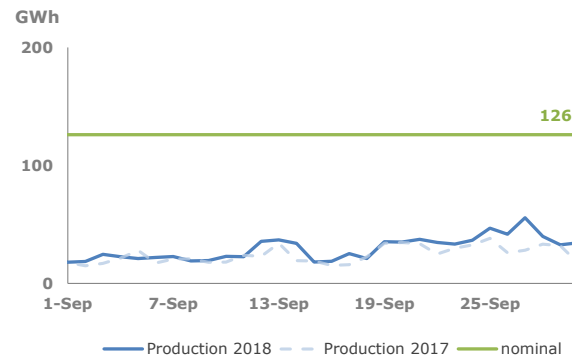
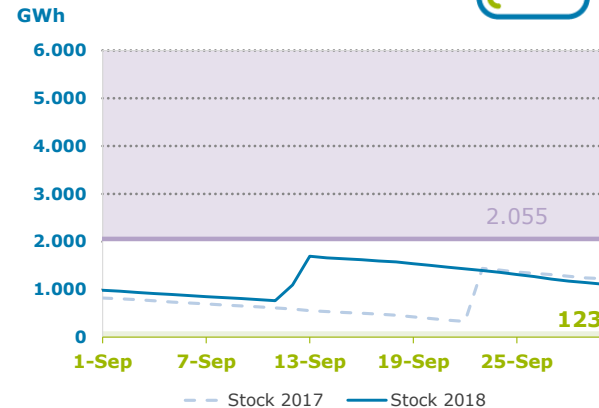
2017

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



2018

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



| Physical production | | Sep-17 | Sep-18 | |
|---------------------|--------------|----------------|------------|------------|
| Nominal | Send-out | GWh/day | 115 | 115 |
| | LNG Trucks | GWh/day | 10 | 10 |
| | Total | GWh/day | 126 | 126 |
| Monthly production | | GWh | 735 | 886 |

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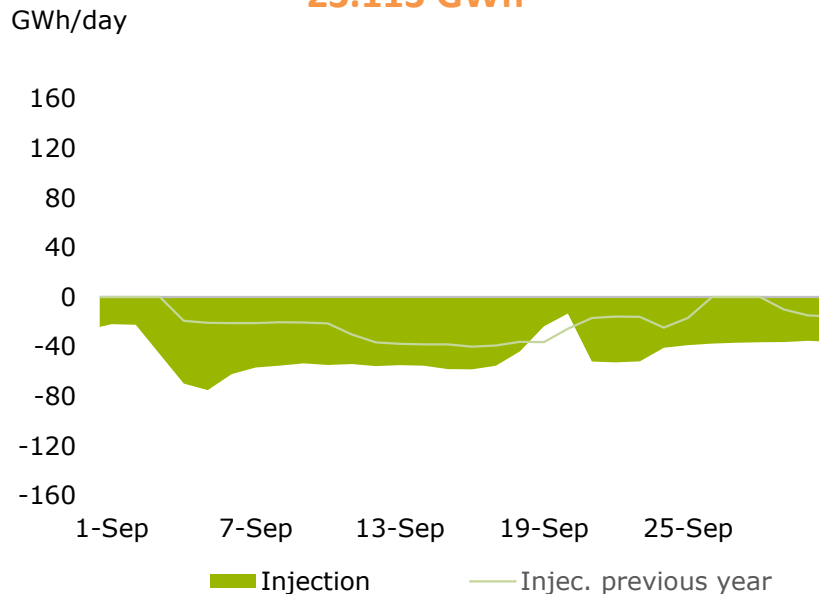
6. Operating notes

UNDERGROUND STORAGE



Injection season

Booked capacity
23.113 GWh



Injection 2018
1.403 GWh

Injection 2017
705 GWh

23.113
TWh

Booked capacity
30th September

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OPERATING NOTES

No Operating Notes were published during **September 2018**



