



# Statistical bulletin

Technical Management of the System

June 2018

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Natural gas demand follow-up

Evolution of conventional demand and power generation

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Unloads and loads of LNG vessels

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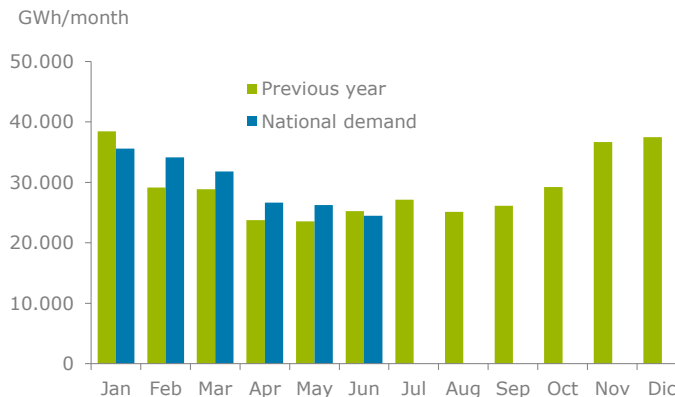
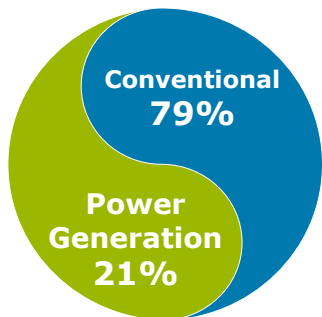
## **6. Operating notes**

# NATURAL GAS DEMAND FOLLOW-UP

Unit : GWh

	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2017
	1 <sup>st</sup> to 30th June		Year 2018		1 <sup>st</sup> July 2017 to 30 <sup>th</sup> June 2018	
<i>National Demand</i>	24.475	-3,1%	178.775	5,7%	360.564	2,8%
- Conventional demand	19.430	6,0%	152.750	7,7%	286.027	4,0%
- NG for Power Generation	5.044	-27,2%	26.025	-4,4%	74.537	-1,6%
<i>International Demand</i>						
- International connections exports	4.912	36,7%	17.301	4,3%	31.459	2,3%
- LNG Vessel loading			2.208	>100%	3.258	>100%
<b>TOTAL</b>	<b>29.387</b>	<b>1,9%</b>	<b>198.284</b>	<b>6,8%</b>	<b>395.282</b>	<b>3,3%</b>

National demand  
June - 2018

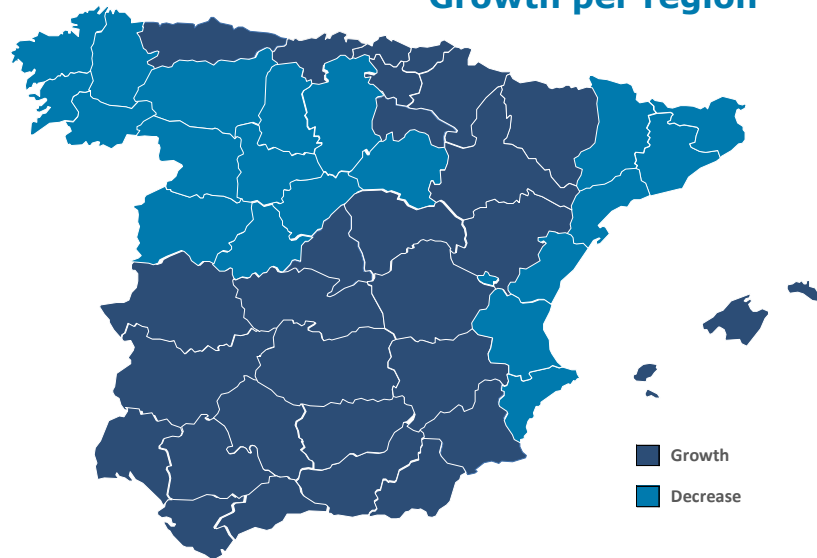
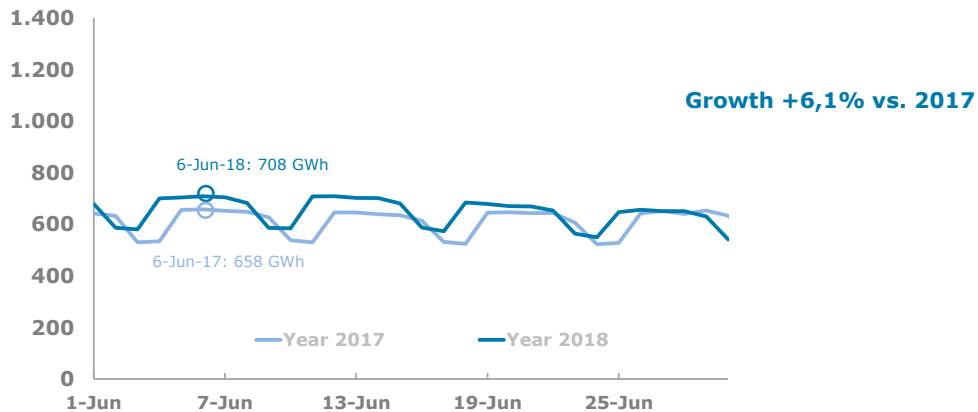


# CONVENTIONAL DEMAND

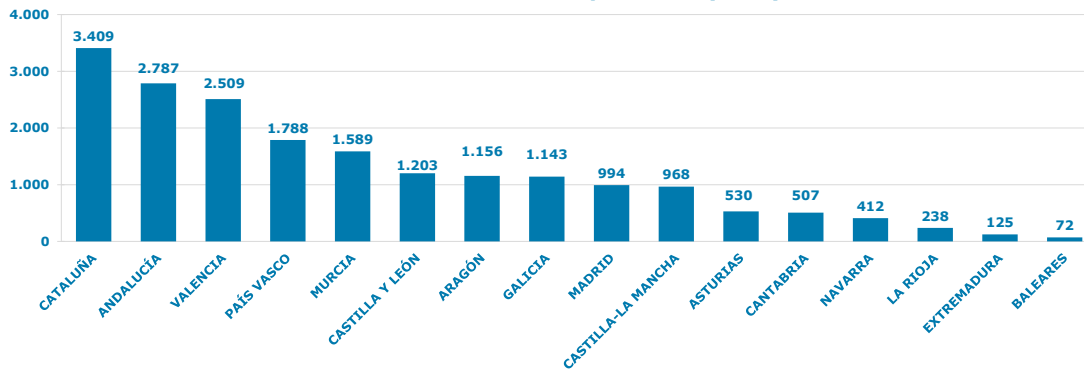
## Growth per region

### Comparison 2017 - 2018

Unit: GWh



### Conventional demand per CCAA (GWh)

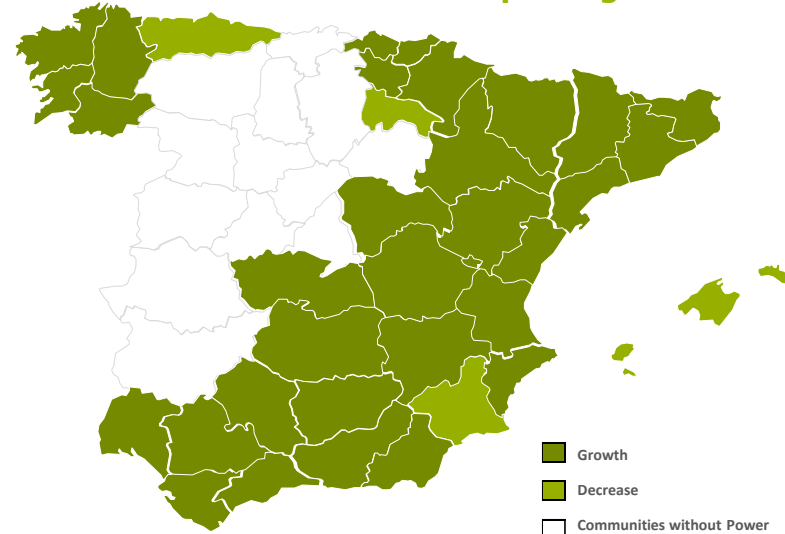
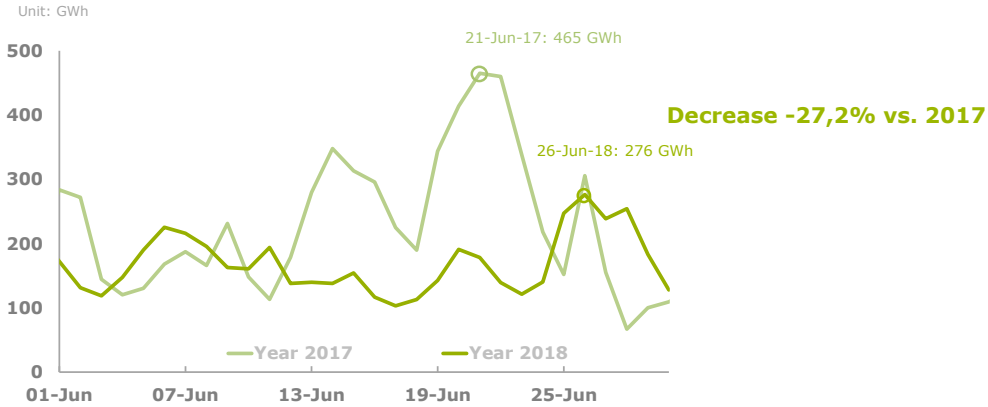


Industrial + DC

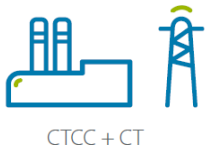
# NATURAL GAS FOR POWER GENERATION

Growth per region

## Comparison 2017 - 2018

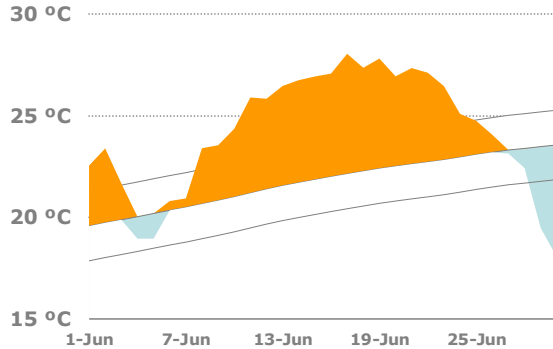


## NG for Power Generation (GWh)

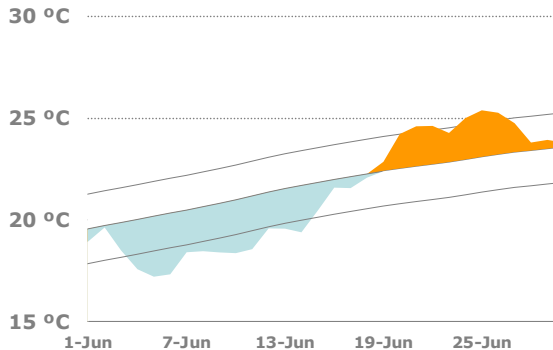


# DEMAND - TEMPERATURES

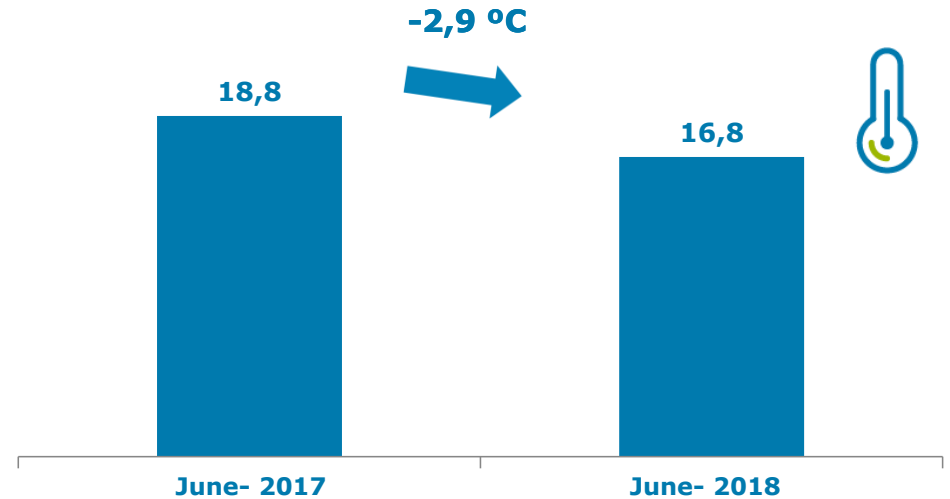
## Temperatures 2017



## Temperatures 2018



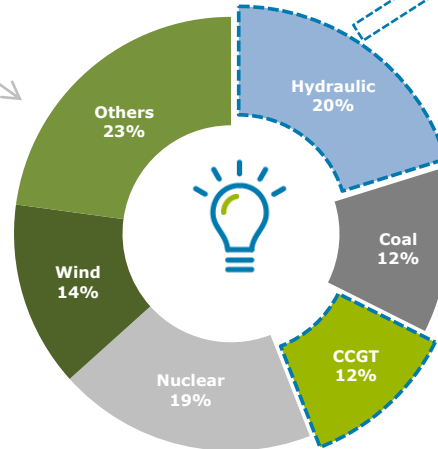
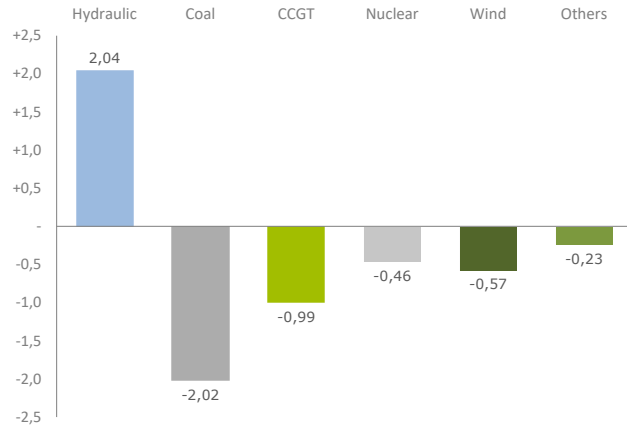
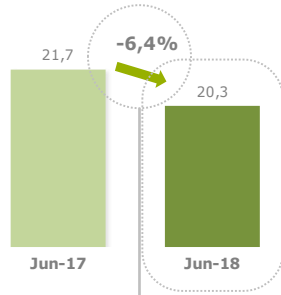
- Temperatures have been lower during June 2018 in comparison with May 2017.
- The average temperature has been **2,9°C** lower than the average of June 2017



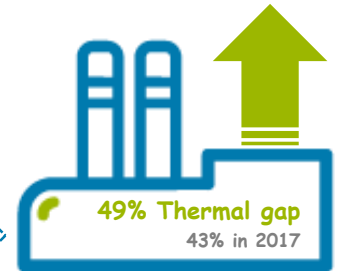
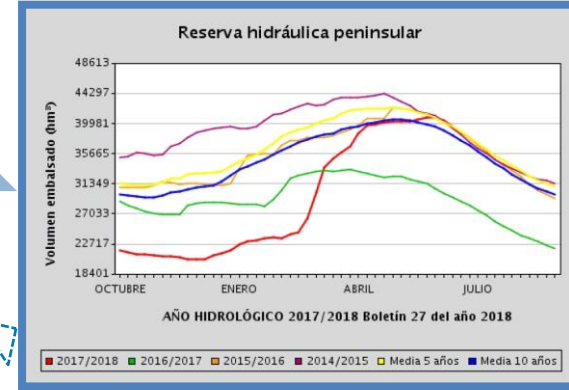
# GAS FOR POWER GENERATION

## TRANSMISSION DEMAND JUNE-18 VS. JUNE-17

Unit: TWh (e)



RED ELÉCTRICA DE ESPAÑA



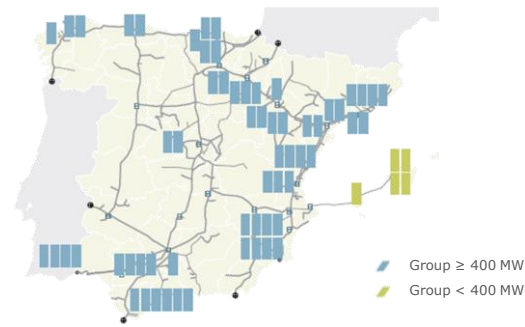
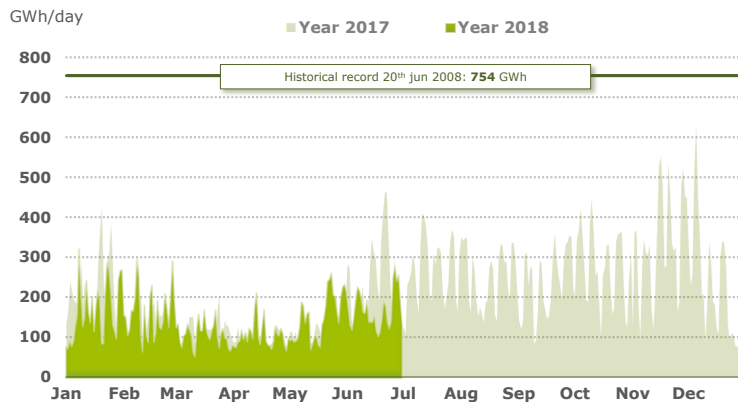
# GAS FOR POWER GENERATION



TPPCC 's

Unit: GWh	Monthly record			Mobile Annual Total record		
	Jun-17	Jun-18	Δ s/jun-18	Year 2017	MAT Jul-2017/Jun-2018	Δ over/Year 2017
<b>NG for Power Generation</b>	<b>6.926</b>	<b>5.044</b>	<b>-27,2%</b>	<b>75.735</b>	<b>74.537</b>	<b>-1,6%</b>
- Thermal Power Plants	22	21	-6%	228	235	+3,3%
- CCGT 's	6.903	5.023	-27%	75.508	74.302	-1,6%
<b>Maximum daily consumption</b>	<b>465</b>	<b>276</b>	<b>-41%</b>	<b>630</b>	<b>630</b>	-
	21-Jun-17	26-Jun-18		05-Dec-17	05-Dec-17	
<b>Minimum daily consumption</b>	<b>67</b>	<b>103</b>	<b>+54%</b>	<b>56</b>	<b>52</b>	<b>-6,2%</b>
	28-Jun-17	17-Jun-18		04-Mar-17	11-Mar-18	
<b>% Generation mix</b>	<b>15%</b>	<b>12%</b>	<b>-3,5 points</b>	<b>14%</b>	<b>13%</b>	<b>-0,3 points</b>
<b>% Thermal Gap *</b>	<b>43%</b>	<b>49%</b>	<b>+6,4 points</b>	<b>44%</b>	<b>47%</b>	<b>+3,1 points</b>

\* Thermal gap=CCGT 's+Coal





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Activity detail by LNG plant

## **5. Underground storage**

## **6. Operating notes**

# ORIGIN OF SUPPLIES



Unit: GWh		Monthly record		Mobile Annual Total record		
		Jun-17	Jun-18	Year 2017	MAT Jul-17/Jun-18	%
Algeria	NG	10.188	15.997	161.243	180.007	52%
	LNG	1.988	1.983	26.767	24.294	
Nigeria	LNG	7.551	3.737	48.592	41.362	11%
Qatar	LNG	923	1.816	38.977	44.455	11%
T&T	LNG	-	3.394	6.117	15.862	4%
Peru	LNG	3.581	876	35.864	23.338	6%
France	NG	4.121	2.074	44.084	40.988	11%
	LNG	-	-	-	487	
Angola	LNG	1.014	-	3.111	2.084	0,5%
United States	LNG	-	-	7.451	4.152	1%
Norway	LNG	-	960	10.070	10.547	3%
Egypt	LNG	-	-	1.127	1.127	0,3%
National	NG	33	127	419	478	0,1%
Portugal	NG	-	-	15	27	0,01%
Netherlands	LNG	-	-	1.198	820	0,21%
Russia	LNG	-	1.112	-	3.244	0,82%
<b>TOTAL</b>		<b>29.399</b>	<b>32.077</b>	<b>385.034</b>	<b>393.272</b>	<b>100%</b>

National NG includes the withdrawal from national fields and biogas

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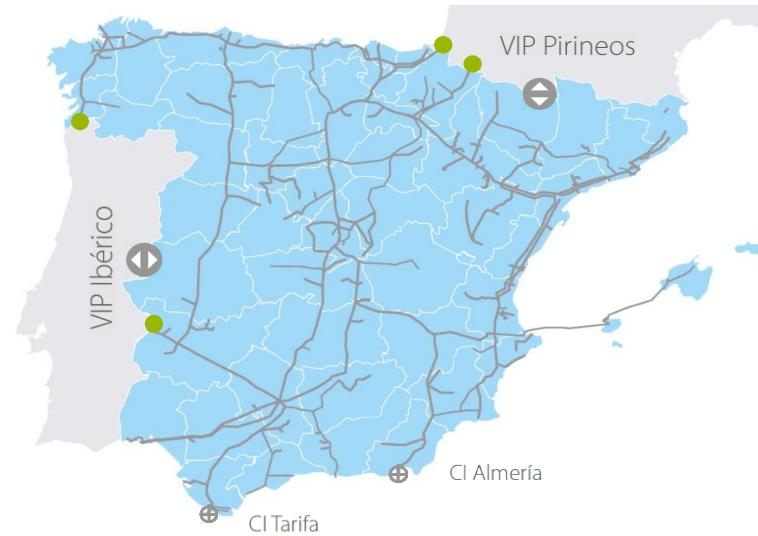
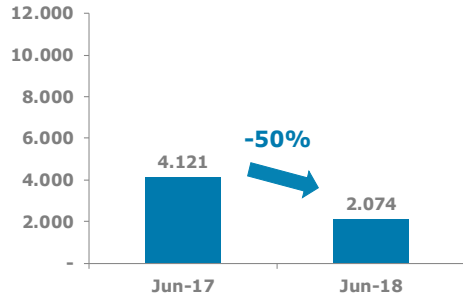
## **6. Operating notes**

# INTERCONNECTION POINTS

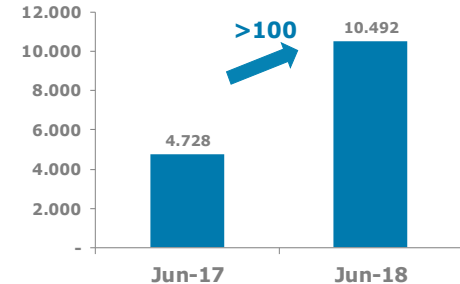
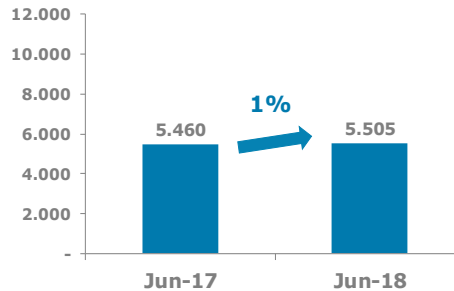
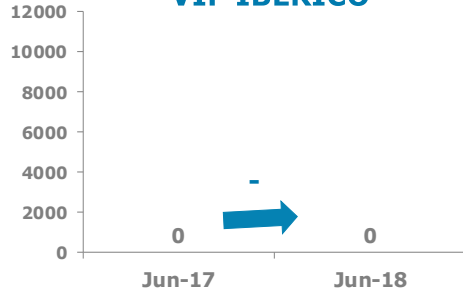


## Imports

Unit: GWh **VIP PIRINEOS**



## VIP IBÉRICO



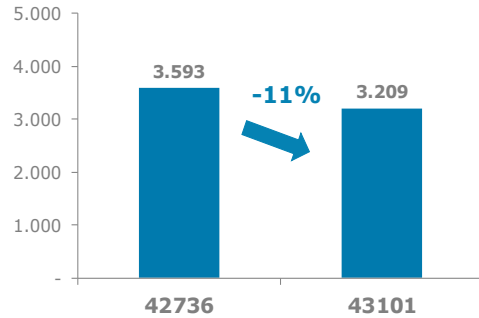
# INTERCONNECTION POINTS



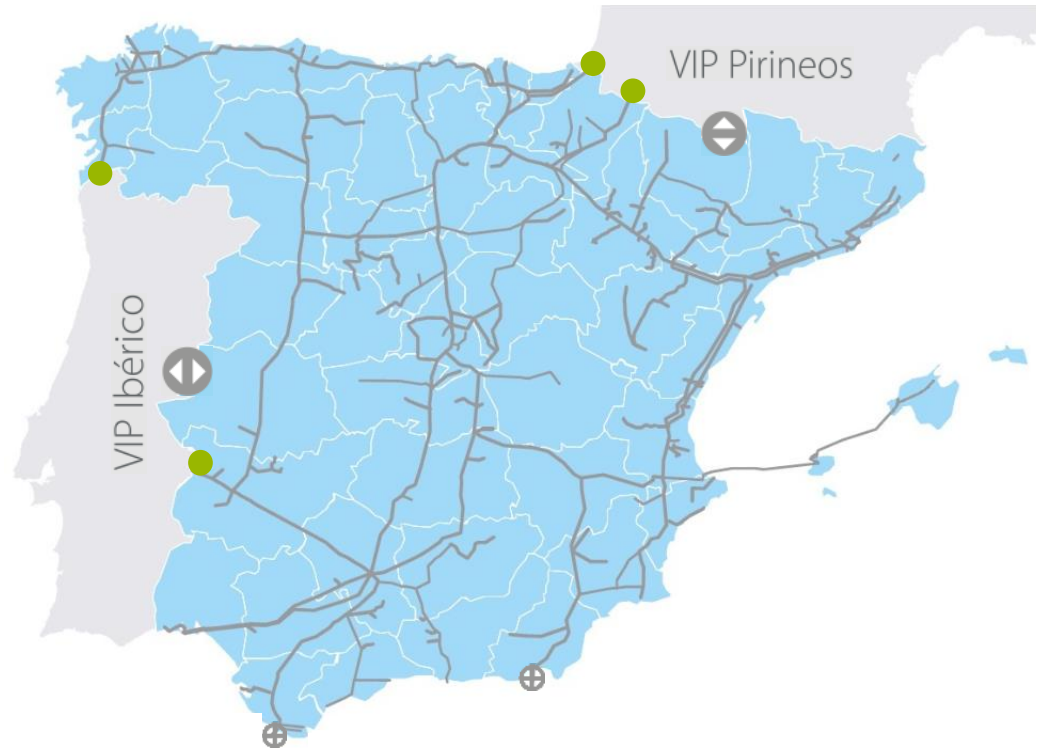
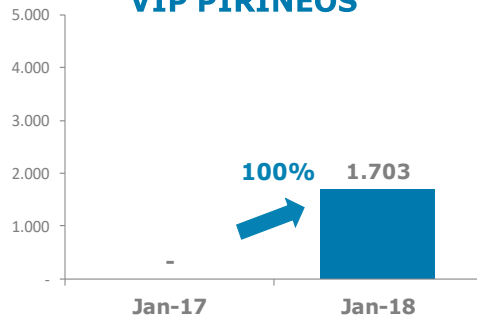
## Exports

Unit: GWh

### VIP IBÉRICO



### VIP PIRINEOS



# INTERCONNECTION POINTS

## Balance



Unit: GWh	Monthly record			Mobile Annual Total record		
	Jun-17	Jun-18	$\Delta$ s/Jun-17	Year 2017	MAT Jul-17/Jun-18	$\Delta$ s/MAT
<b>Tarifa GME</b>	4.728	10.492	>100%	86.497	109.030	26,1%
<b>Almería MEDGAZ</b>	5.460	5.505	1%	74.746	70.977	-5,0%
<b>VIP PIRINEOS</b>	4.121	371	-91%	43.192	36.682	-15,1%
<b>VIP IBÉRICO</b>	-3.593	-3.209	-11%	-29.839	-27.127	-9,1%
<b>National Gas</b>	33	127	288%	419	478	14,0%
<b>TOTAL</b>	<b>10.749</b>	<b>13.286</b>	<b>24%</b>	<b>175.015</b>	<b>190.041</b>	<b>8,6%</b>

(+) Entry flows; (-) Exit flows

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# ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	214	178
LNG Trucks	GWh/day	10	9
% average contract vs. nominal		40%	34%
% average contract use		80%	86%

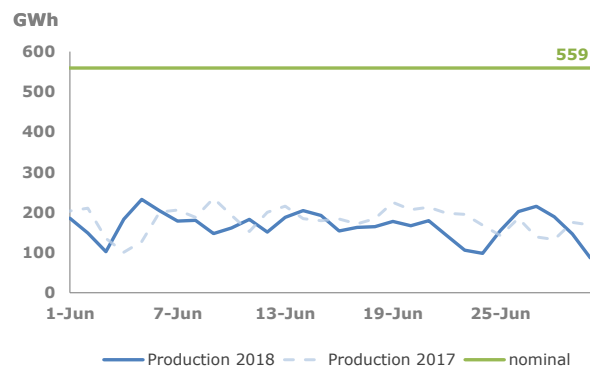
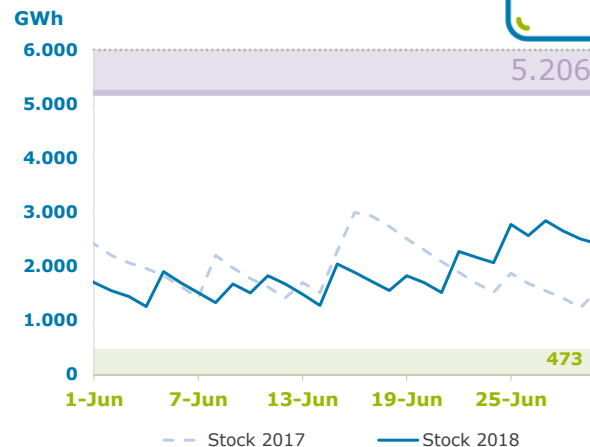
2017

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



2018

8 LNG Unloaded  
(5.501 GWh)  
0 LNG Loaded  
(0 GWh)



Physical production		Jun-17	Jun-18	
Nominal	Send-out	GWh/day	544	544
	LNG Trucks	GWh/day	15	15
	<b>Total</b>	<b>GWh/day</b>	<b>559</b>	<b>559</b>
Monthly production		GWh	5.411	4.984



# ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	143	167
LNG Trucks	GWh/day	8	8
% average contract vs. nominal		39%	45%
% average contract use		81%	68%

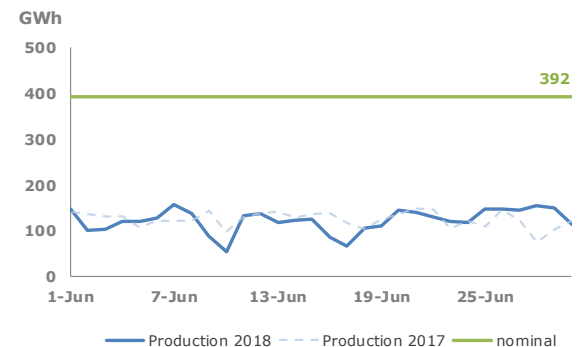
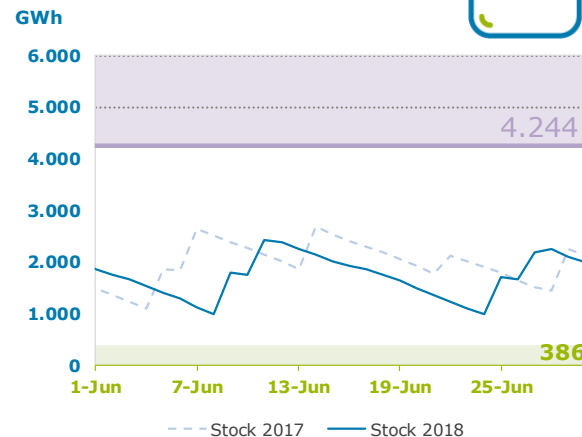
2017

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



2018

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



Physical production		Jun-17	Jun-18	
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	<b>Total</b>	<b>GWh/day</b>	<b>392</b>	<b>392</b>
<b>Monthly production</b>		<b>GWh</b>	<b>3.745</b>	<b>3.675</b>

# ACTIVITY AT CARTAGENA PLANT



Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	20	10
LNG Trucks	GWh/day	6	7
% average contract vs. nominal		7%	4%
% average contract use		81%	85%

2017

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

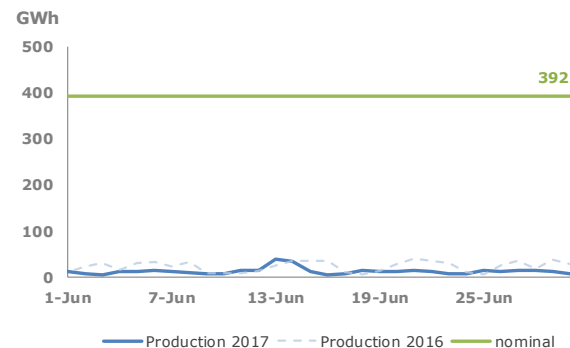
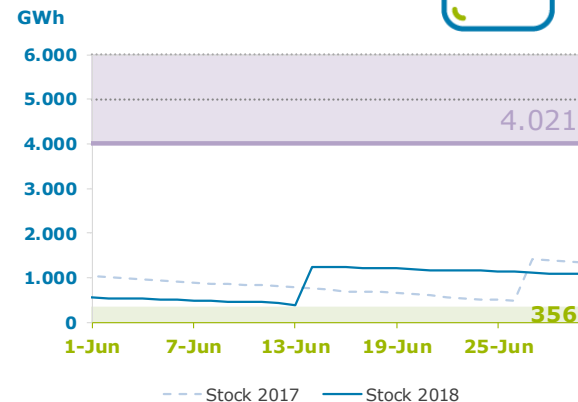


2018

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



Physical production			Jun-17	Jun-18
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	<b>Total</b>	<b>GWh/day</b>	<b>392</b>	<b>392</b>
<b>Monthly production</b>		<b>GWh</b>	<b>675</b>	<b>361</b>



# ACTIVITY AT BILBAO PLANT



Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	116	92
LNG Trucks	GWh/day	2	2
% average contract vs. nominal		52%	41%
% average contract use		81%	74%

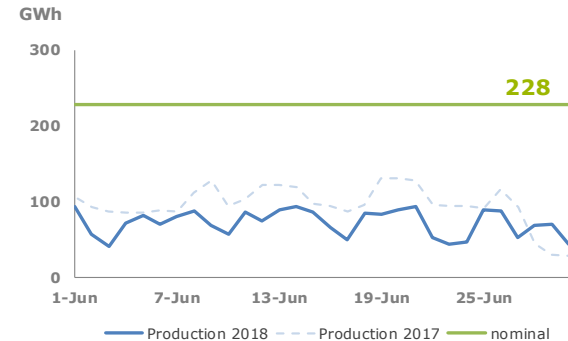
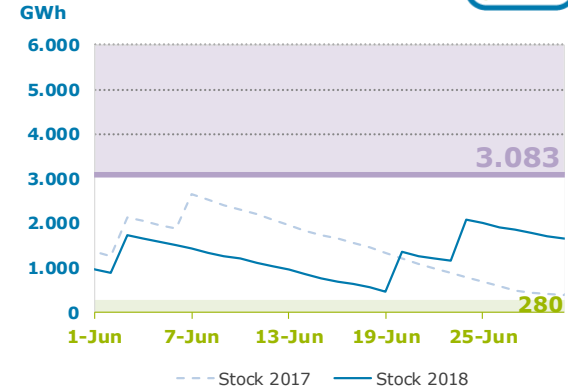
2017

2018

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



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



Physical production		Jun-17	Jun-18	
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	<b>Total</b>	<b>GWh/day</b>	<b>228</b>	<b>228</b>
<b>Monthly production</b>		<b>GWh</b>	<b>2.884</b>	<b>2.159</b>

# ACTIVITY AT SAGUNTO PLANT

Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	73	8
LNG Trucks	GWh/day	7	3
% average contract vs. nominal		28%	4%
% average contract use		85%	74%

2017

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

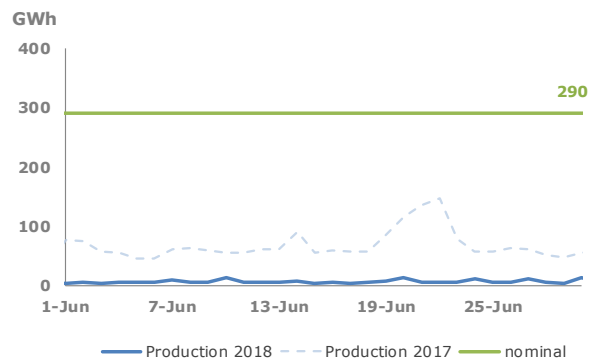
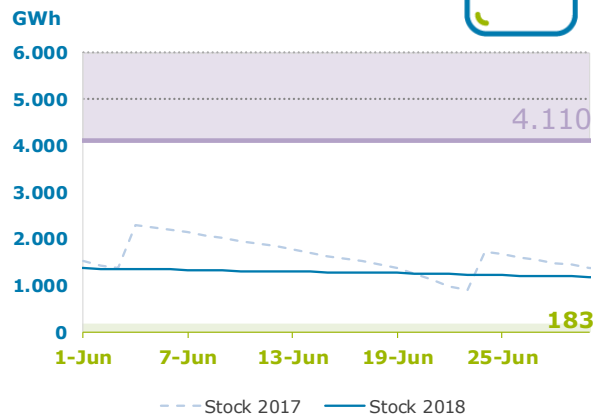


2018

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



Physical production		Jun-17	Jun-18	
Nominal	Send-out	GWh/day	279	279
	LNG Trucks	GWh/day	10	10
	<b>Total</b>	<b>GWh/day</b>	<b>290</b>	<b>290</b>
<b>Monthly production</b>		<b>GWh</b>	<b>2.047</b>	<b>189</b>



# ACTIVITY AT MUGARDOS PLANT

Contract information (Average value)		Jun-17	Jun-18
Send-out	GWh/day	40	43
LNG Trucks	GWh/day	4	3
% average contract vs. nominal		35%	37%
% average contract use		85%	74%

2017

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

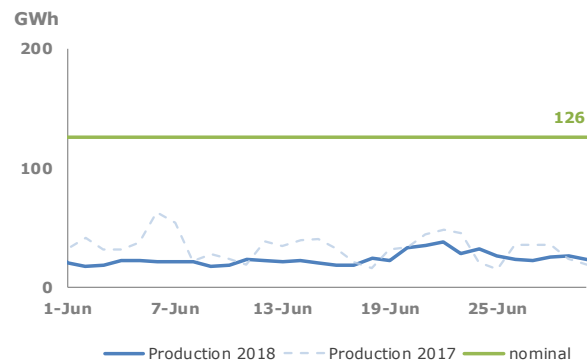
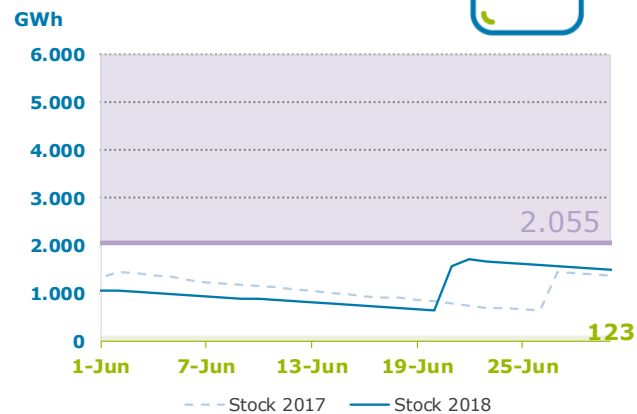


2018

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



Physical production			Jun-17	Jun-18
Nominal	Send-out	GWh/day	115	115
	LNG Trucks	GWh/day	10	10
	<b>Total</b>	<b>GWh/day</b>	<b>126</b>	<b>126</b>
<b>Monthly production</b>		<b>GWh</b>	<b>994</b>	<b>706</b>



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Consumption by geographic location

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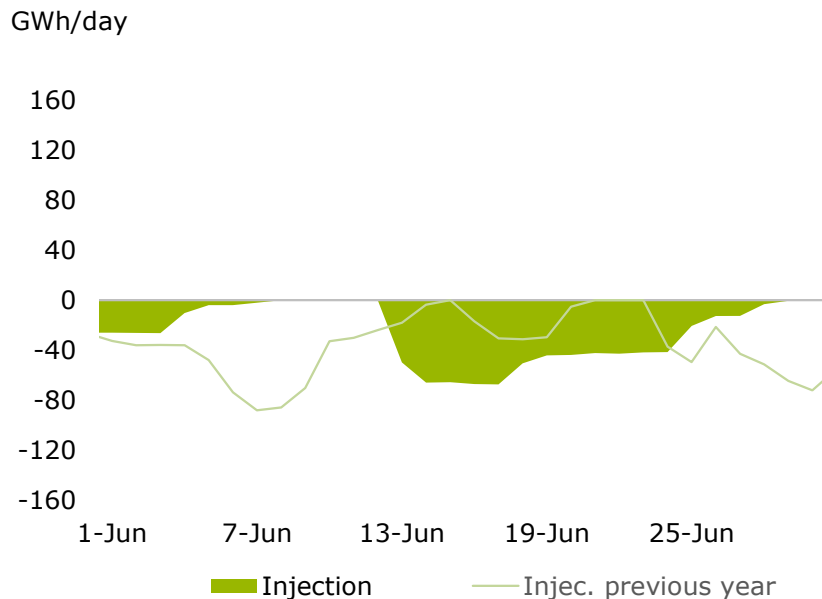
## **6. Operating notes**

# UNDERGROUND STORAGE



## Injection season

Booked capacity  
21.230 GWh



Injection 2018  
777 GWh

Injection 2017  
1.156 GWh

21.230  
TWh

Useful physical stock  
30<sup>th</sup> June

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# OPERATING NOTES

No Operating Notes were published during June 2018



