



# Statistical bulletin

Technical Management of the System

July 2018

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Natural gas demand follow-up

Evolution of conventional demand and power generation

Consumption by geographic location

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Unloads and loads of LNG vessels

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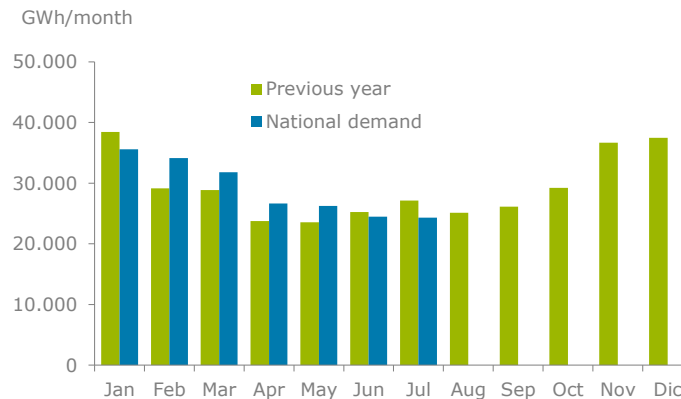
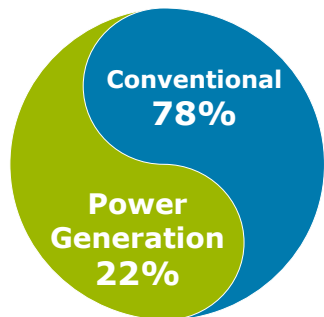
## **5. Underground storage**

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# NATURAL GAS DEMAND FOLLOW-UP

Unit : GWh	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2017
	1 <sup>st</sup> to 31 <sup>st</sup> July		Year 2018		1 <sup>st</sup> August 2017 to 31 <sup>st</sup> July 2018	
<i>National Demand</i>	24.346	-10,1%	203.121	3,5%	357.792	2,0%
- Conventional demand	19.075	1,3%	171.825	6,9%	286.234	4,0%
- NG for Power Generation	5.272	-36,1%	31.296	-11,8%	71.559	-5,5%
<i>International Demand</i>						
- International connections exports	2.774	23,0%	20.075	6,5%	31.977	4,0%
- LNG Vessel loading	2.753	>100%	4.961	>100%	6.011	>100%
<b>TOTAL</b>	<b>29.873</b>	<b>1,8%</b>	<b>228.157</b>	<b>6,1%</b>	<b>395.781</b>	<b>3,4%</b>

National demand  
July - 2018

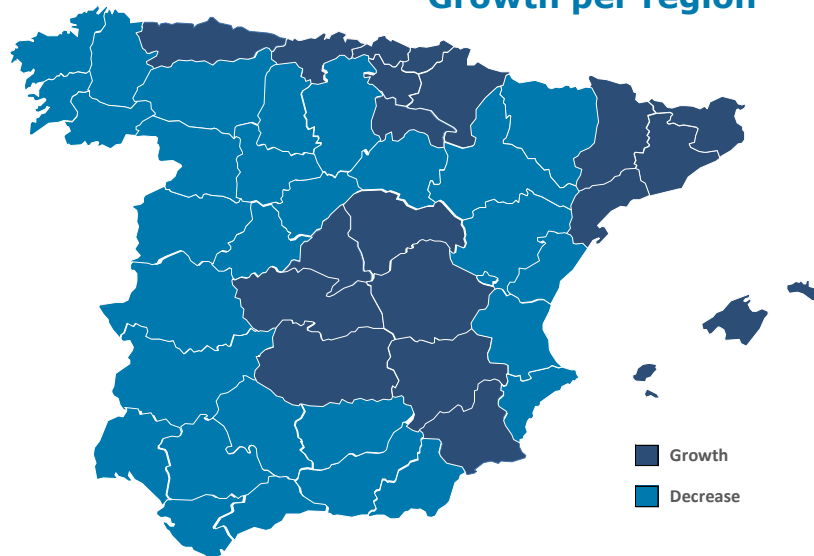
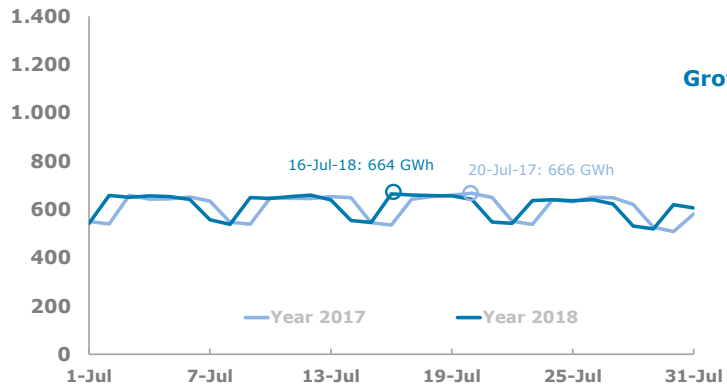


# CONVENTIONAL DEMAND

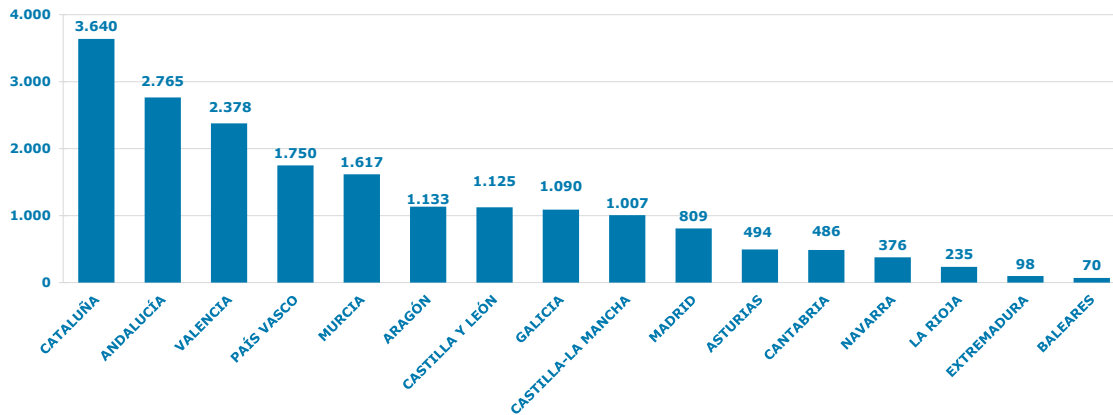
Growth per region

## Comparison 2017 - 2018

Unit: GWh



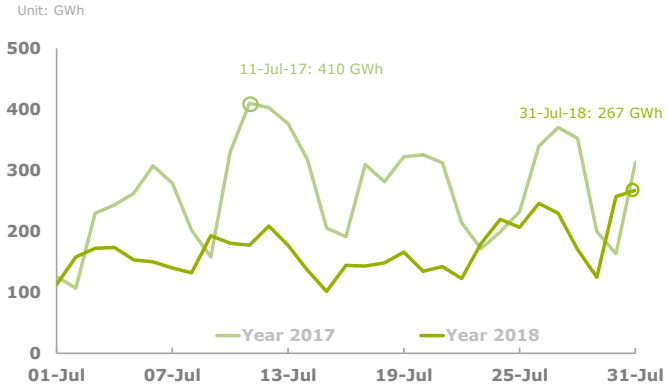
## Conventional demand per CCAA (GWh)



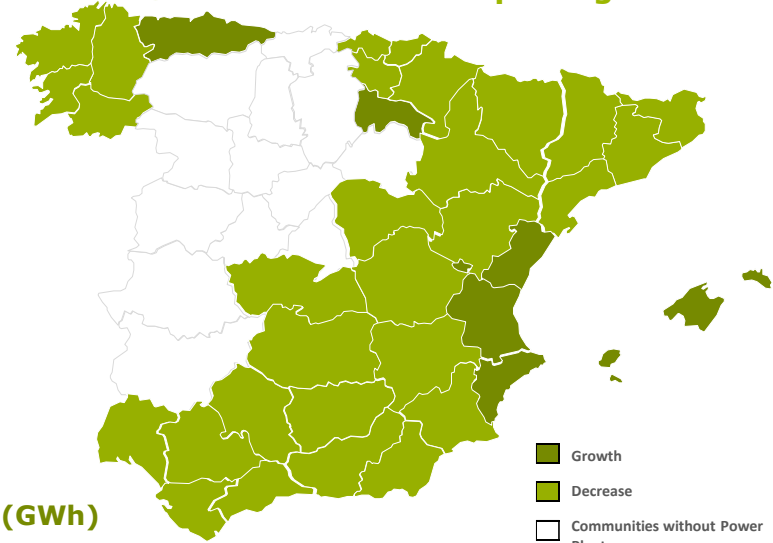
# NATURAL GAS FOR POWER GENERATION

Growth per region

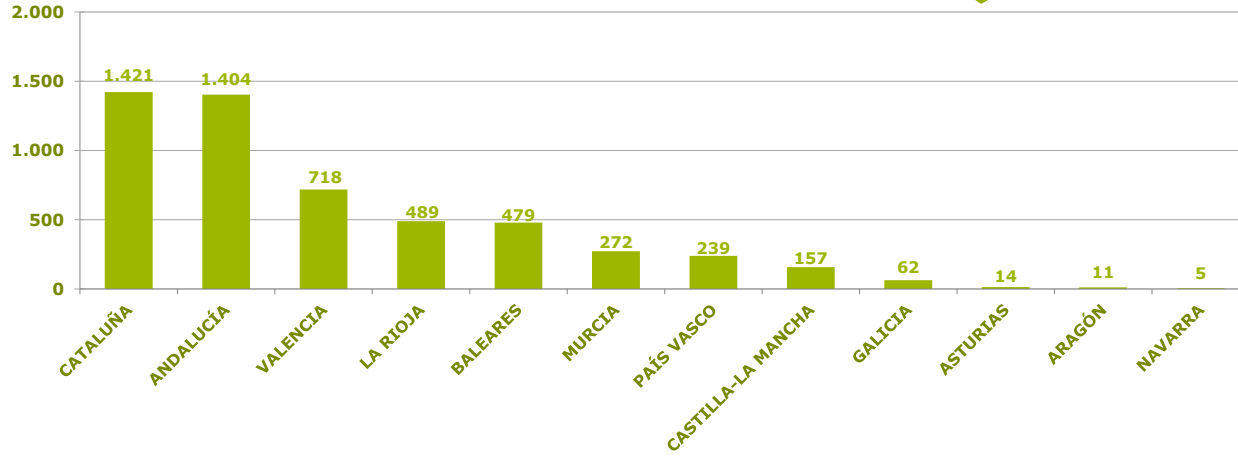
## Comparison 2017 - 2018



Decrease -36,1% vs. 2017



## NG for Power Generation (GWh)

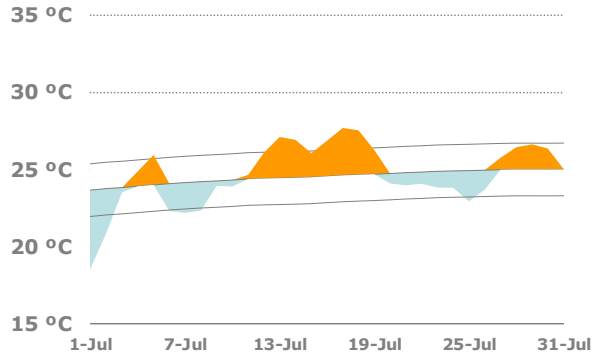


CTCC + CT

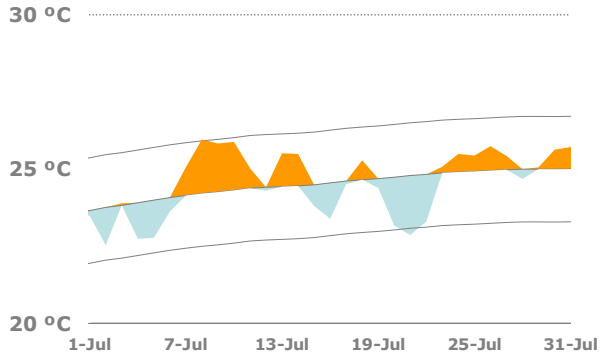


# DEMAND - TEMPERATURES

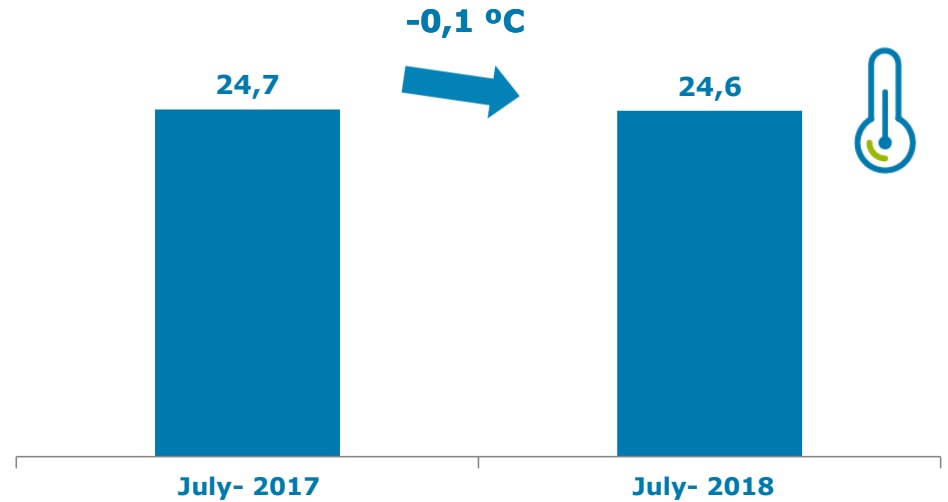
## Temperatures 2017



## Temperatures 2018



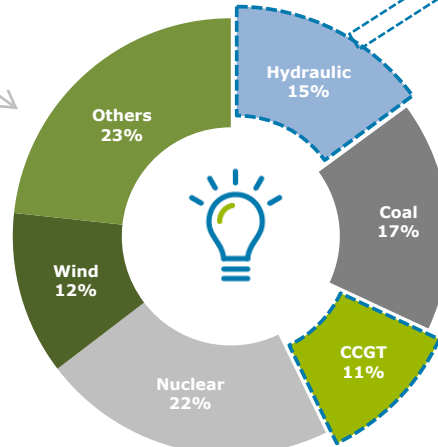
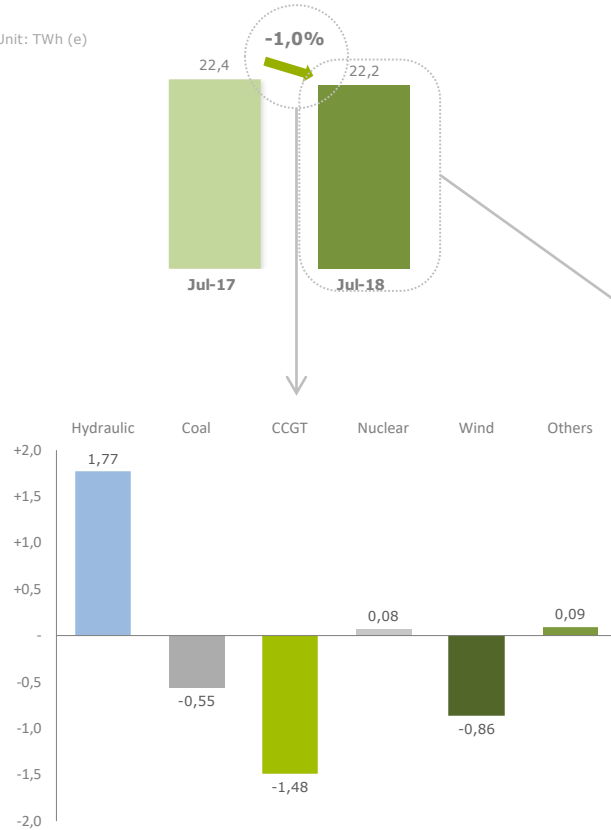
- Temperatures have been lower during July 2018 in comparison with July 2017.
- The average temperature has been **0,1°C** lower than the average of July 2017



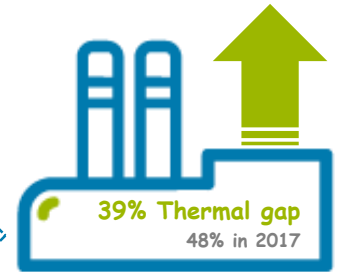
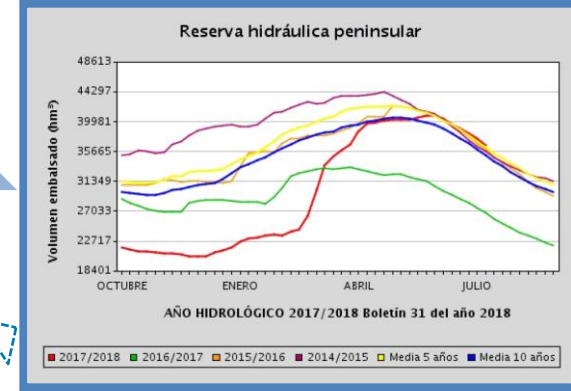
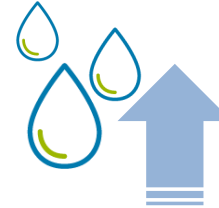
# GAS FOR POWER GENERATION

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

Unit: TWh (e)



RED ELÉCTRICA DE ESPAÑA



# GAS FOR POWER GENERATION



## Monthly record

## Mobile Annual Total record

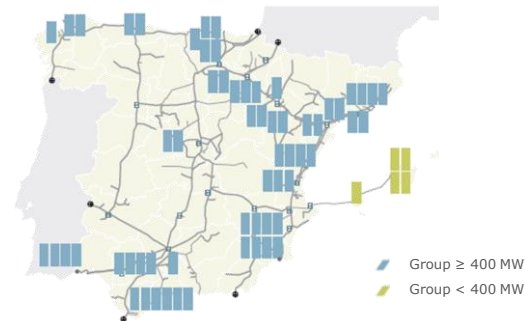
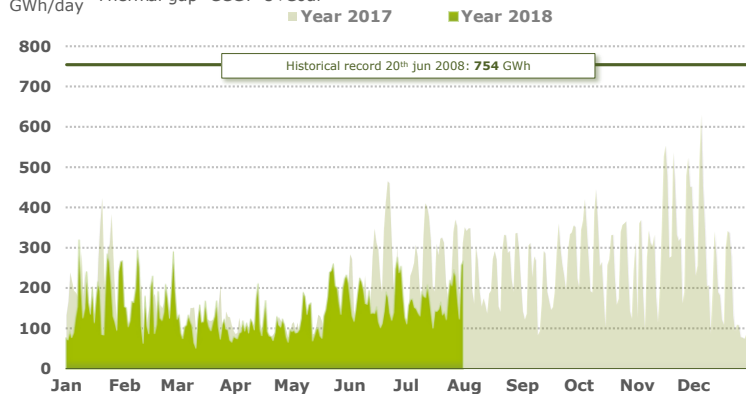
Unit: GWh

	Jul-17	Jul-18	Δ s/jul-18	Year 2017	MAT Aug-2017/Jul-2018	Δ over/Year 2017
<b>NG for Power Generation</b>	<b>8.251</b>	<b>5.272</b>	<b>-36,1%</b>	<b>75.737</b>	<b>71.560</b>	<b>-5,5%</b>
- Thermal Power Plants	18	15	-18%	227	232	+2%
- CCGT´s	8.232	5.257	-36%	75.510	71.329	-6%
<b>Installed power MW</b>	<b>26.251</b>	<b>26.251</b>	<b>-</b>	<b>26.251</b>	<b>26.251</b>	<b>-</b>
<b>Maximum daily consumption</b>	<b>410</b>	<b>267</b>	<b>-35%</b>	<b>630</b>	<b>630</b>	<b>-</b>
	11-Jul-17	31-Jul-18		05-Dec-17	05-Dec-17	
<b>Minimum daily consumption</b>	<b>107</b>	<b>101</b>	<b>-5%</b>	<b>56</b>	<b>52</b>	<b>-6%</b>
	02-Jul-17	15-Jul-18		04-Mar-17	11-Mar-18	
<b>% Generation mix</b>	<b>17%</b>	<b>11%</b>	<b>-6,4 points</b>	<b>14%</b>	<b>10%</b>	<b>-3,8 points</b>
<b>% Thermal Gap *</b>	<b>48%</b>	<b>39%</b>	<b>-8,9 points</b>	<b>44%</b>	<b>37%</b>	<b>-6,9 points</b>

TPCC´s

\* Thermal gap=CCGT´s+Coal

GWh/day





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Production at regasification plants

Activity detail by LNG plant

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## **6. Operating notes**

# ORIGIN OF SUPPLIES



Unit: GWh		Monthly record		Mobile Annual Total record		
		Jul-17	Jul-18	Year 2017	MAT Aug-17/Jul-18	%
Algeria	NG	9.605	13.502	161.243	183.904	} 52%
	LNG	498	979	26.767	24.776	
Nigeria	LNG	3.815	2.907	48.592	40.454	10%
Qatar	LNG	4.566	2.699	38.977	42.588	11%
T&T	LNG	-	1.699	6.117	17.561	4%
Peru	LNG	2.701	4.058	39.441	28.271	7%
France	NG	4.444	2.205	44.084	38.749	} 10%
	LNG	-	-	-	487	
Angola	LNG	-	-	3.111	2.084	0,5%
United States	LNG	66	-	8.543	5.177	1%
Norway	LNG	2.029	-	10.070	8.518	2%
Egypt	LNG	1.127	-	1.127	-	0,0%
National	NG	35	119	419	562	0,1%
Portugal	NG	-	19	15	46	0,01%
Netherlands	LNG	820	-	1.198	-	0,00%
Russia	LNG	-	1.109	-	4.354	1,10%
<b>TOTAL</b>		<b>29.707</b>	<b>29.296</b>	<b>389.703</b>	<b>397.531</b>	<b>100%</b>

National NG includes the withdrawal from national fields and biogas

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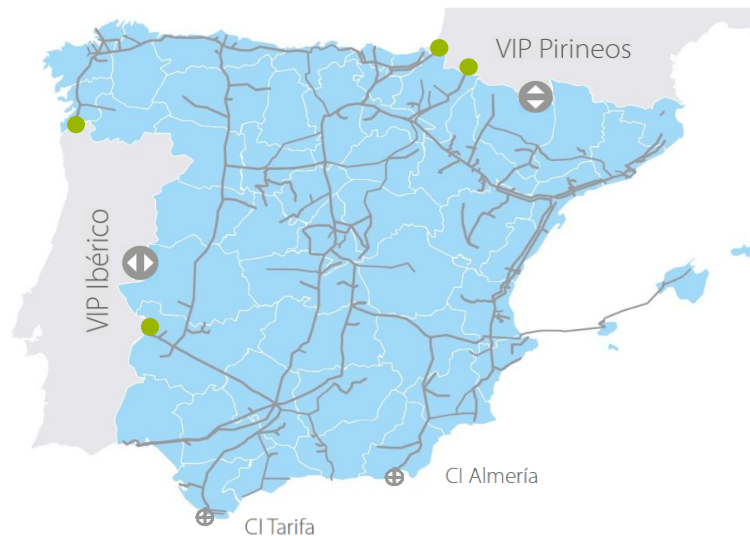
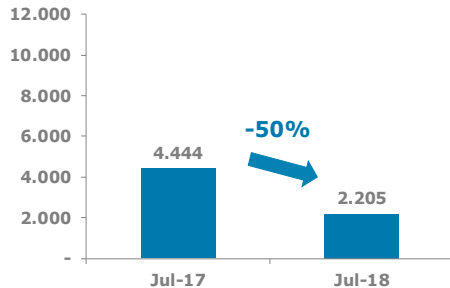
# INTERCONNECTION POINTS



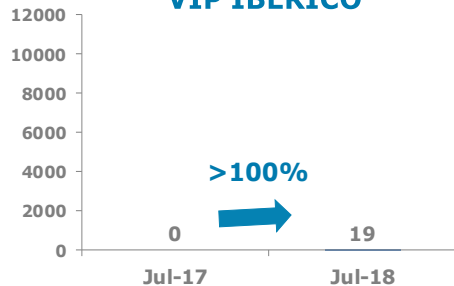
## Imports

Unit: GWh

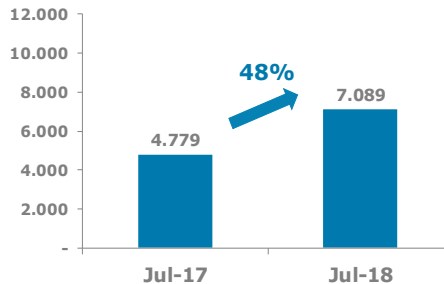
### VIP PIRINEOS



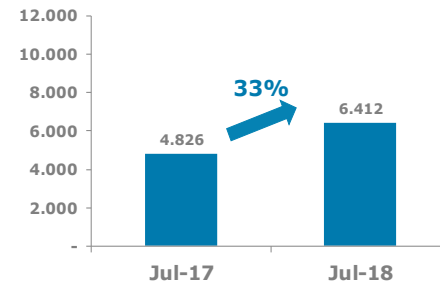
### VIP IBÉRICO



### ALMERÍA



### TARIFA



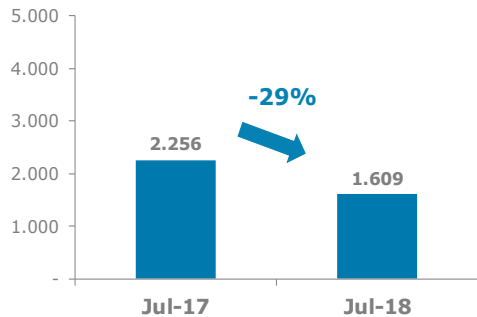
# INTERCONNECTION POINTS



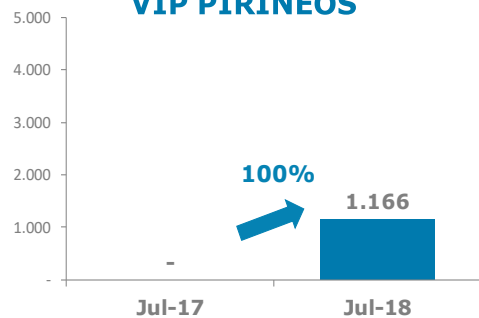
## Exports

Unit: GWh

### VIP IBÉRICO



### VIP PIRINEOS



# INTERCONNECTION POINTS

## Balance



Unit: GWh	Monthly record			Mobile Annual Total record		
	Jul-17	Jul-18	$\Delta$ s/Jul-17	Year 2017	MAT Aug- 17/Jul-18	$\Delta$ s/MAT
<b>Tarifa GME</b>	4.826	6.412	33%	86.497	110.616	27,9%
<b>Almería MEDGAZ</b>	4.779	7.089	48%	74.746	73.288	-2,0%
<b>VIP PIRINEOS</b>	4.444	1.039	-77%	43.192	33.278	-23,0%
<b>VIP IBÉRICO</b>	-2.256	-1.589	-30%	-29.839	-26.460	-11,3%
<b>National Gas</b>	35	119	>100%	419	562	34,2%
<b>TOTAL</b>	<b>11.827</b>	<b>13.070</b>	<b>11%</b>	<b>175.015</b>	<b>191.284</b>	<b>9,3%</b>

(+) Entry flows; (-) Exit flows

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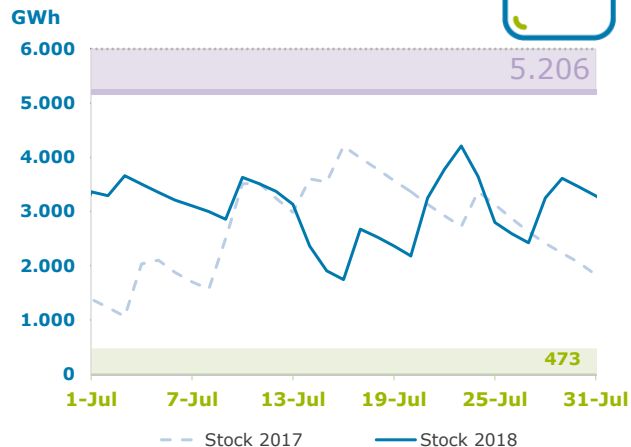
## **5. Underground storage**

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# ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	226	171
LNG Trucks	GWh/day	10	9
% average contract vs. nominal		42%	32%
% average contract use		87%	76%



2017

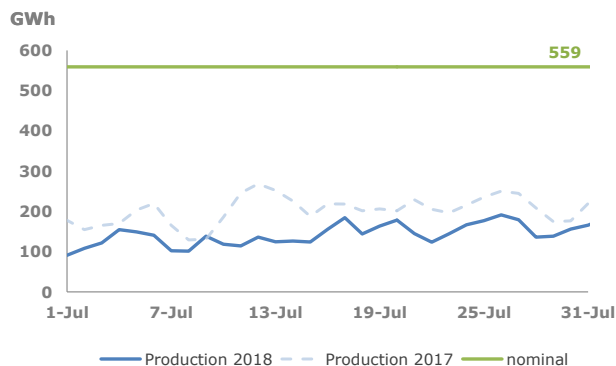
6 LNG Unloaded  
(6.536 GWh)  
0 LNG Loaded  
(0 GWh)



2018

8 LNG Unloaded  
(7.393 GWh)  
2 LNG Loaded  
(2.105 GWh)

Physical production		Jul-17	Jul-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>
<b>Monthly production</b>		<b>GWh</b>	<b>6.286</b>	<b>4.408</b>





# ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	133	157
LNG Trucks	GWh/day	11	7
% average contract vs. nominal		37%	42%
% average contract use		84%	71%

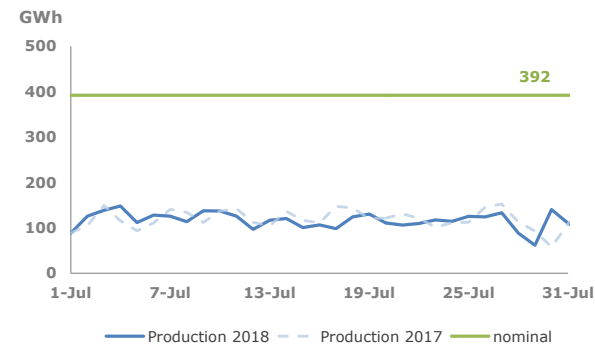
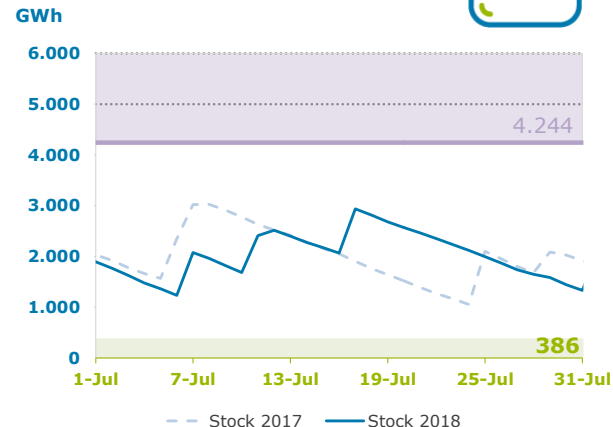
2017

2018

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



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



Physical production		Jul-17	Jul-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>3.683</b>	<b>3.610</b>

# ACTIVITY AT CARTAGENA PLANT



Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	10	10
LNG Trucks	GWh/day	5	6
% average contract vs. nominal		4%	4%
% average contract use		97%	89%

2017

2018

1 LNG Unloaded  
(66 GWh)

0 LNG Loaded  
(0 GWh)

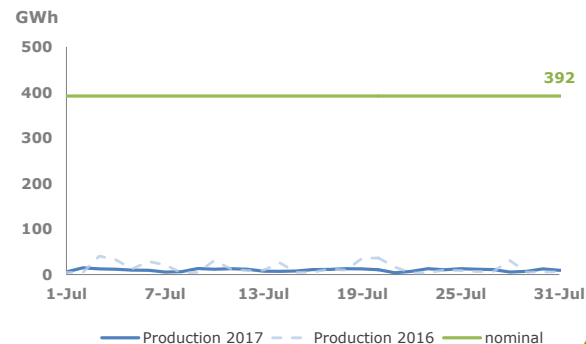
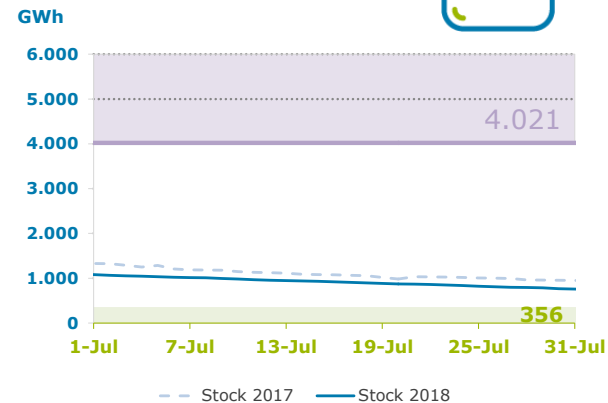


0 LNG Unloaded  
(0 GWh)

0 LNG Loaded  
(0 GWh)



Physical production			Jul-17	Jul-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>450</b>	<b>311</b>



# ACTIVITY AT BILBAO PLANT



Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	114	96
LNG Trucks	GWh/day	2	2
% average contract vs. nominal		51%	43%
% average contract use		93%	86%

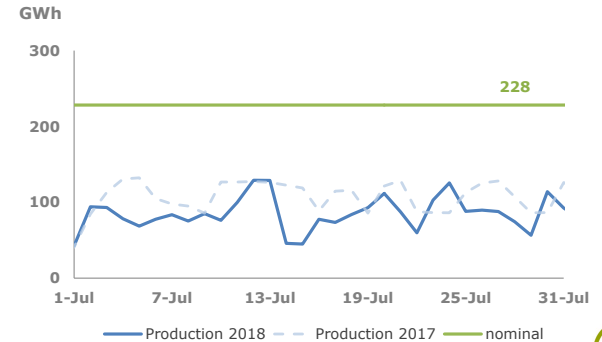
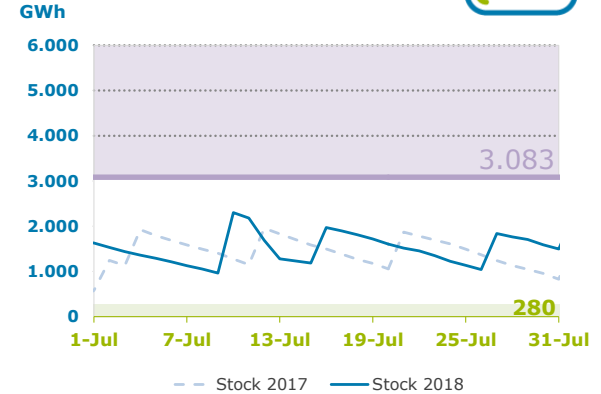
2017

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



2018

3 LNG Unloaded  
(3.078 GWh)  
1 LNG Loaded  
(648 GWh)



Physical production		Jul-17	Jul-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>3.321</b>	<b>2.643</b>

# ACTIVITY AT SAGUNTO PLANT

Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	82	2
LNG Trucks	GWh/day	6	3
% average contract vs. nominal		31%	2%
% average contract use		67%	71%

2017

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

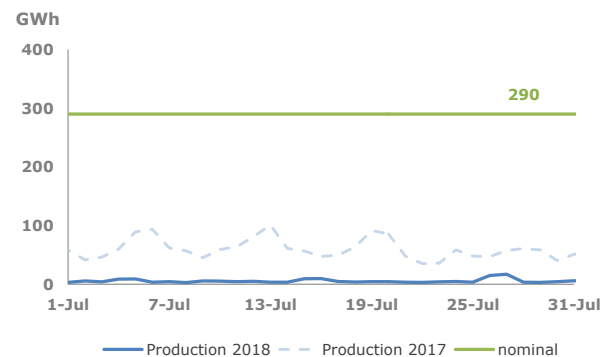
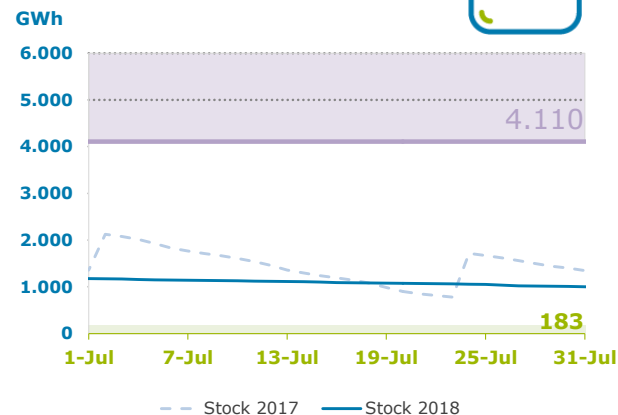


2018

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



Physical production		Jul-17	Jul-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>1.854</b>	<b>174</b>



# ACTIVITY AT MUGARDOS PLANT

Contract information (Average value)		Jul-17	Jul-18
Send-out	GWh/day	20	23
LNG Trucks	GWh/day	4	3
% average contract vs. nominal		19%	21%
% average contract use		91%	73%

2017

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

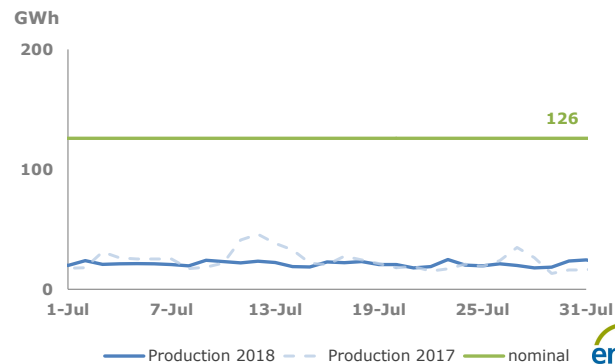
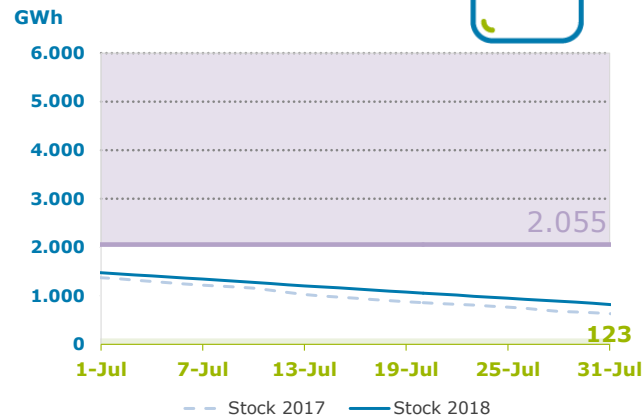


2018

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



Physical production			Jul-17	Jul-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>746</b>	<b>658</b>



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Evolution of conventional demand and power generation

Consumption by geographic location

## **2. Origin of supplies**

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## **4. Regasification Plants**

Unloads and loads of LNG vessels

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Activity detail by LNG plant

## **5. Underground storage**

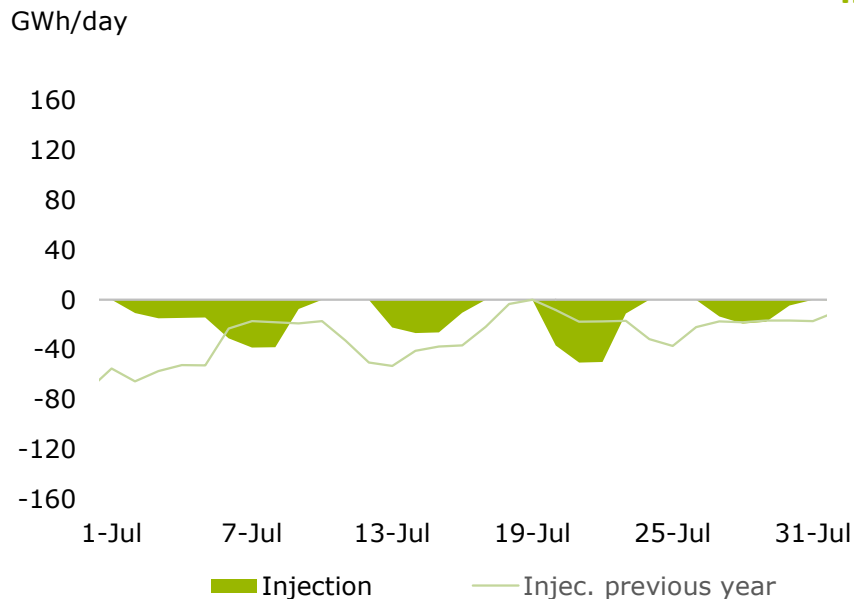
## **6. Operating notes**

# UNDERGROUND STORAGE



## Injection season

Booked capacity  
21.413 GWh



Injection 2018  
459 GWh

Injection 2017  
894 GWh

21.413  
TWh

Booked capacity  
31<sup>st</sup> July

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# OPERATING NOTES

No Operating Notes were published during July 2018



