

**PREVIEW**



# **Statistical bulletin**

Technical Management of the System

December 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

Production at regasification plants

Activity detail by LNG plant

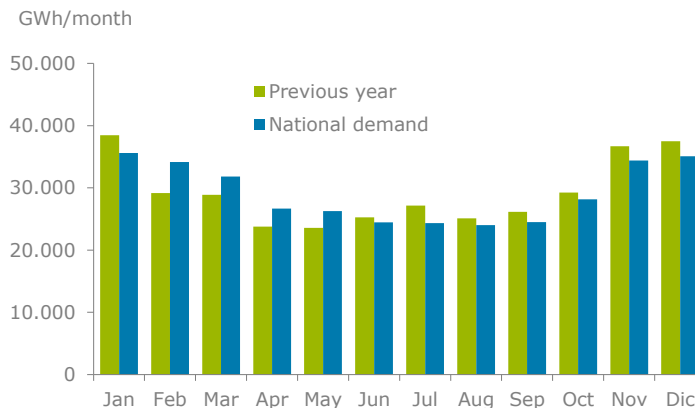
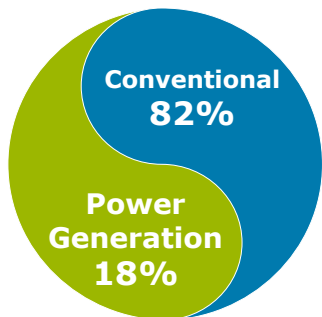
## **5. Underground storage**

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# NATURAL GAS DEMAND FOLLOW-UP

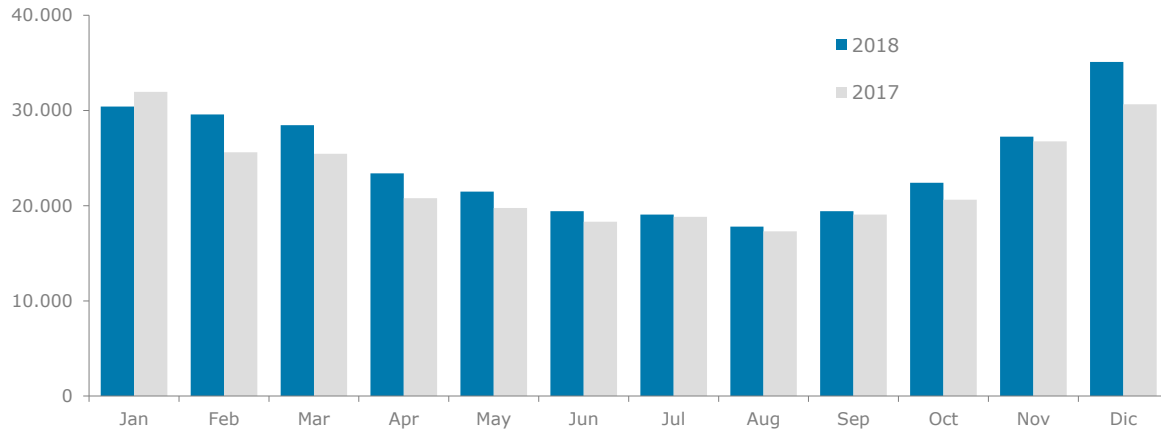
Unit : GWh	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2017
	1 <sup>st</sup> to 31 <sup>st</sup> December		Year 2018		1 <sup>st</sup> January 2018 to 31 <sup>st</sup> December 2018	
<i>National Demand</i>	35.098	-6,4%	349.341	-0,4%	349.341	-0,4%
- Conventional demand	28.739	-6,2%	287.500	4,5%	287.500	4,5%
- NG for Power Generation	6.359	-7,1%	61.841	-18,3%	61.841	-18,3%
<i>International Demand</i>						
- International connections exports	1.413	-42,7%	30.993	0,8%	30.993	0,8%
- LNG Vessel loading	11	-28,1%	4.972	>100%	4.972	>100%
<b>TOTAL</b>	<b>36.522</b>	<b>-8,6%</b>	<b>385.307</b>	<b>0,7%</b>	<b>385.307</b>	<b>0,7%</b>

National demand  
December - 2018



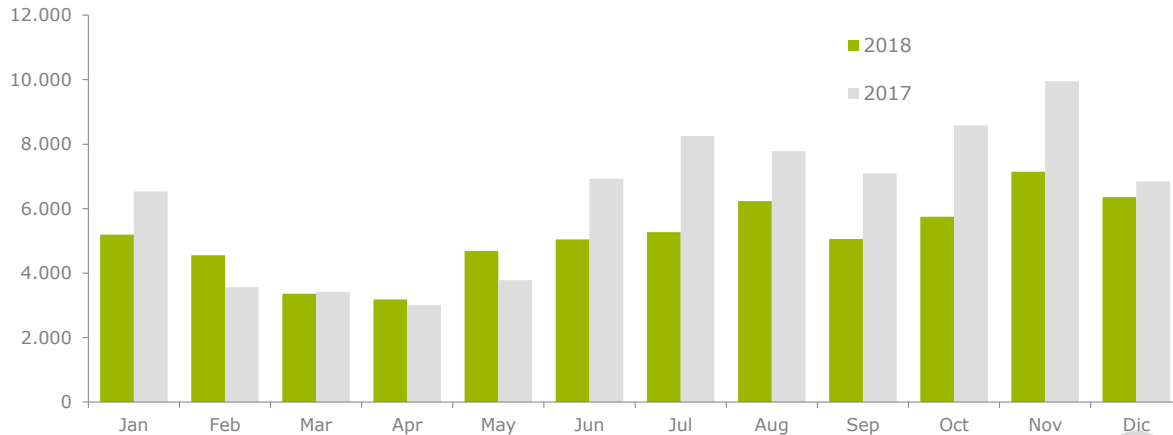
# NATURAL GAS DEMAND FOLLOW-UP

GWh/month



**Conventional demand  
2017 - 2018**

GWh/month

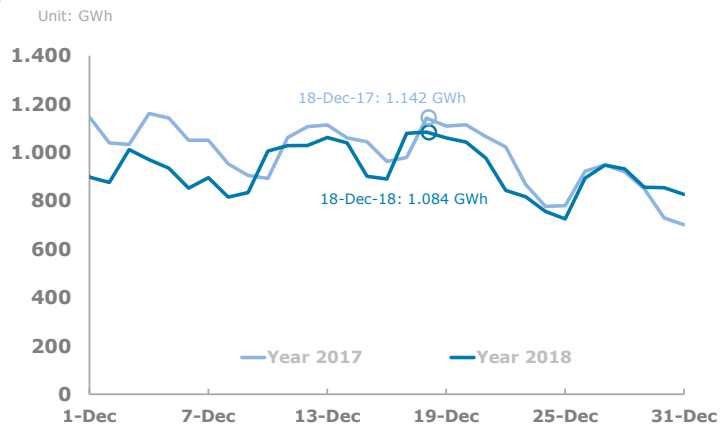


**NG for Power Generation  
2017 - 2018**

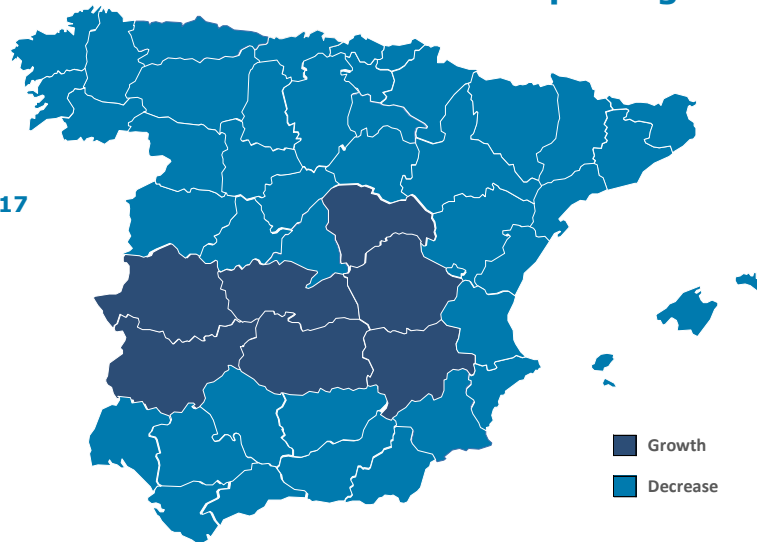
# CONVENTIONAL DEMAND

Growth per region

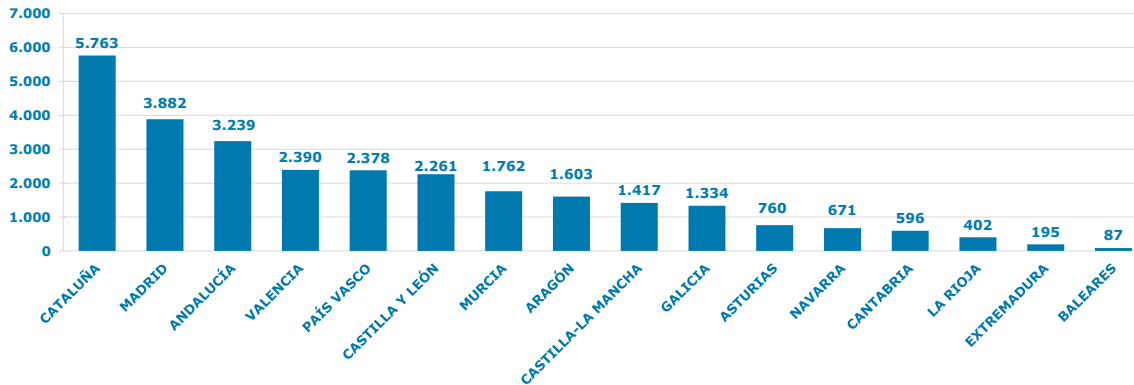
## Comparison 2017 - 2018



Decrease -6,2% vs. 2017



## Conventional demand per CCAA (GWh)

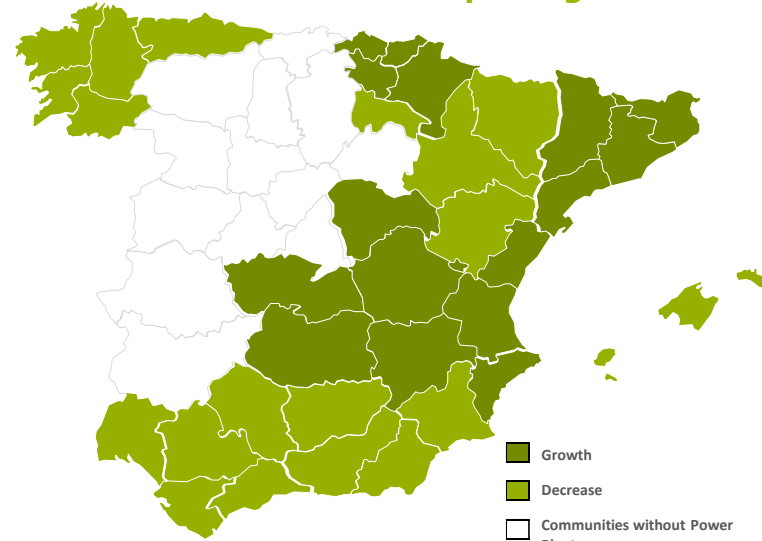
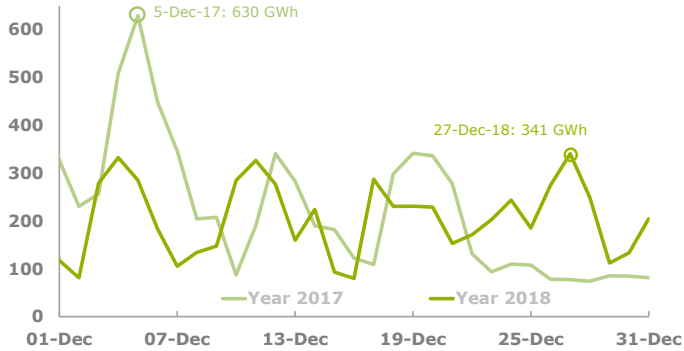


# NATURAL GAS FOR POWER GENERATION

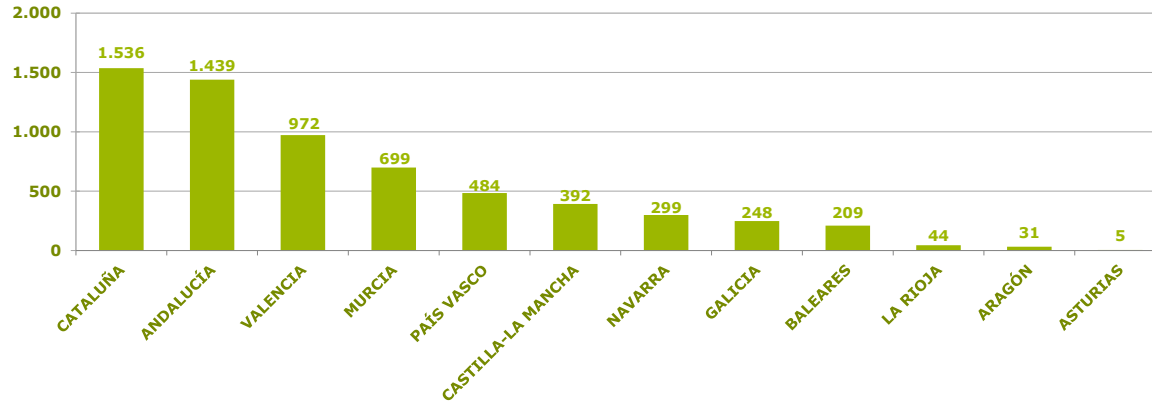
Growth per region

## Comparison 2017 - 2018

Unit: GWh



## NG for Power Generation (GWh)

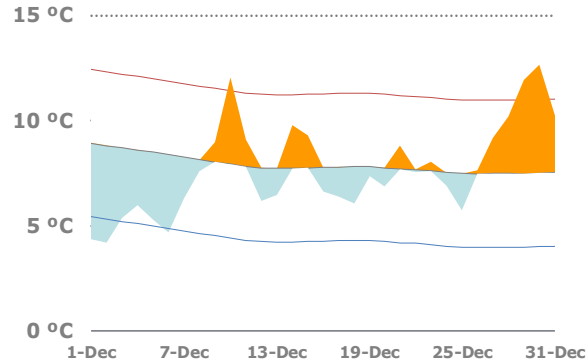


CTCC + CT



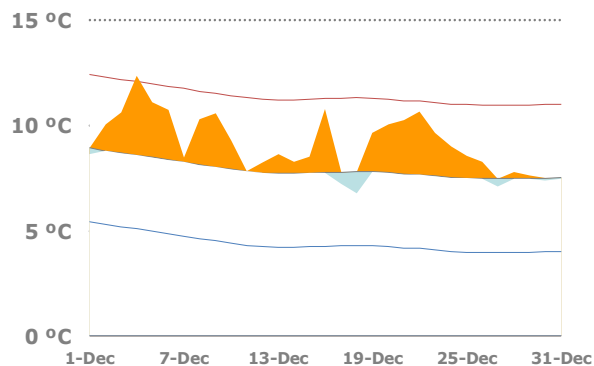
# DEMAND - TEMPERATURES

## Temperatures 2017

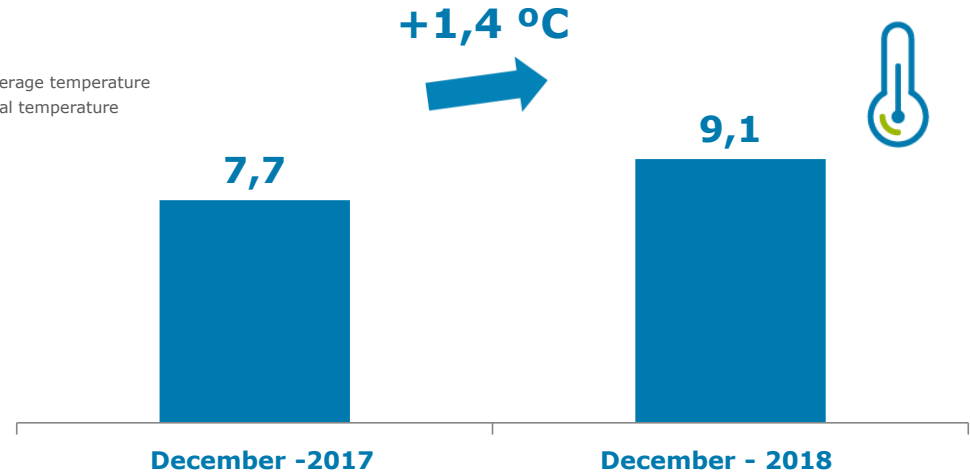


- Temperatures have been higher during December 2018 in comparison with December 2017.
- The average temperature has been **1,4°C** higher than the average of December 2017

## Temperatures 2018

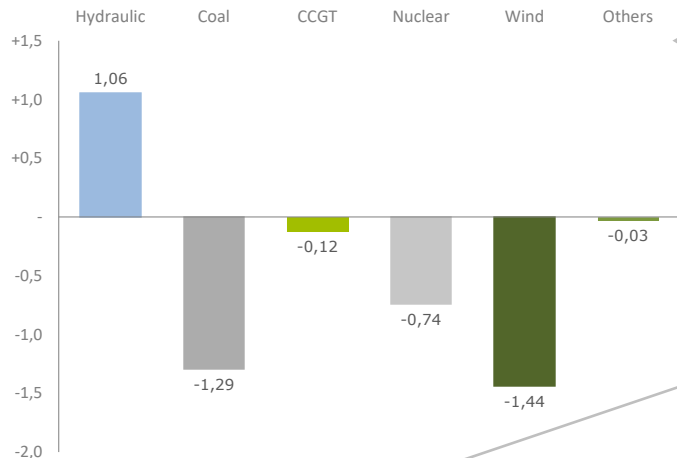


— Average temperature  
— Real temperature

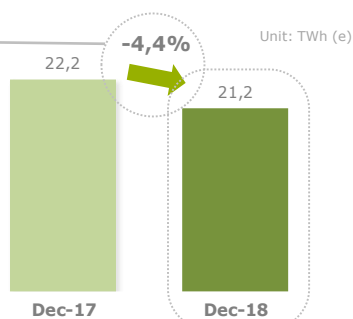


# GAS FOR POWER GENERATION

## GROWTH DEC-18 VS. DEC-17

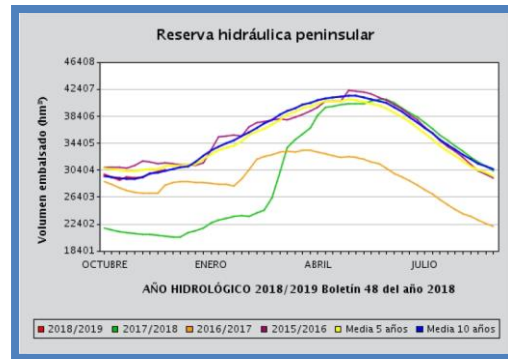


## TRANSMISSION DEMAND DEC-18 VS. DEC-17

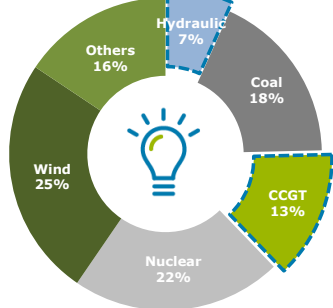


## CAPACITY

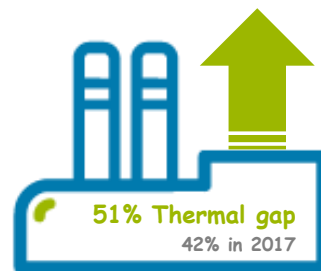
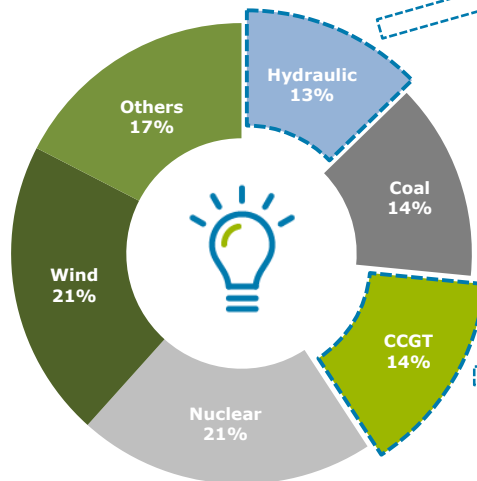
**TOTAL:** 56.074 hm<sup>3</sup> = 23.281 GWh  
**ACTUAL:** 30.974 hm<sup>3</sup> = 10.234 GWh



2017



2018





# GAS FOR POWER GENERATION

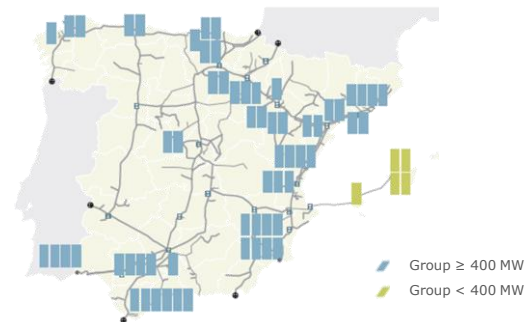
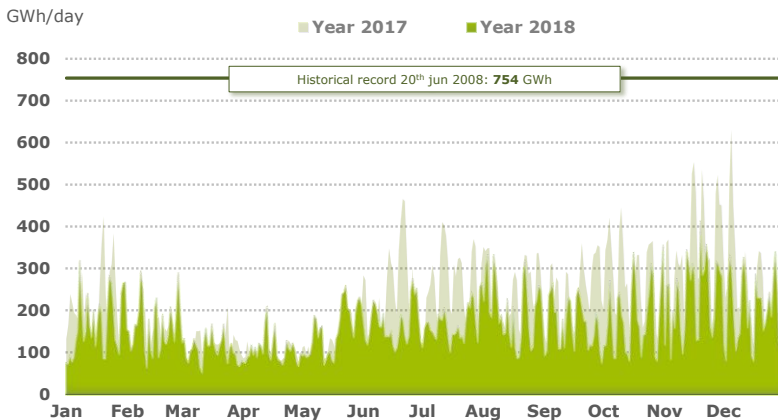


## Monthly record

## Mobile Anual Total Record

Unit: GWh

	Dec-17	Dec-18	Δ s/Dec-17	Year 2018	MAT Jan-2018/Dec-2018	Δ over/Year 2017
<b>NG for Power Generation</b>	<b>6.843</b>	<b>6.359</b>	<b>-7,1%</b>	<b>61.841</b>	<b>61.841</b>	<b>-18,3%</b>
- Thermal Power Plants	20	22	+13%	227	227	-0,2%
- CCGT's	6.823	6.336	-7%	61.614	61.614	-18%
<b>Maximum daily consumption</b>	<b>630</b>	<b>341</b>	<b>-46%</b>	<b>413</b>	<b>413</b>	-
	05-Dec-17	27-Dec-18		19-Nov-18	19-Nov-18	
<b>Minimum daily consumption</b>	<b>74</b>	<b>80</b>	<b>+8%</b>	<b>52</b>	<b>52</b>	-
	28-Dec-17	19-Nov-18		11-Mar-18	11-Mar-18	



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# ORIGIN OF SUPPLIES



		Monthly record		Annual Total record		Mobile Annual Total record	
Unit: GWh		Dec-17	Dec-18	Year 2018	% 2018	MAT Jan-18/Dec-18	% MAT
Algeria	NG	16.724	14.685	184.097	51,2%	184.097	51,2%
	LNG	3.307	1.987	16.850		16.850	
Nigeria	LNG	1.855	5.086	45.968	11,7%	45.968	11,7%
Qatar	LNG	5.007	2.727	37.687	9,6%	37.687	9,6%
T&T	LNG	-	2.566	24.242	6,2%	24.242	6,2%
Peru	LNG	4.711	2.783	19.295	4,9%	19.295	4,9%
France	NG	3.685	5.397	40.230	10,4%	40.230	10,4%
	LNG	-	-	487		487	
Angola	LNG	-	-	1.033	0,3%	1.033	0,3%
United States	LNG	1.017	1.001	3.020	0,8%	3.020	0,8%
Norway	LNG	919	942	6.562	1,7%	6.562	1,7%
Bélgica	LNG	-	-	896	0,2%	896	0,2%
National gas field	NG	19	171	967	0,2%	967	0,2%
National biogas	NG	8	9	94	0,0%	94	0,0%
Portugal	NG	-	-	106	0,0%	106	0,0%
Dominican Republic	LNG	-	-	338	0,1%	338	0,1%
Russia	LNG	-	1.092	9.761	2,5%	9.761	2,5%
Cameroon	LNG	-	863	863	0,2%	863	0,2%
<b>TOTAL</b>		<b>37.252</b>	<b>39.312</b>	<b>392.495</b>	<b>100%</b>	<b>392.495</b>	<b>100%</b>

During **December 2018** an origin of supply has been added:

**Cameroon**

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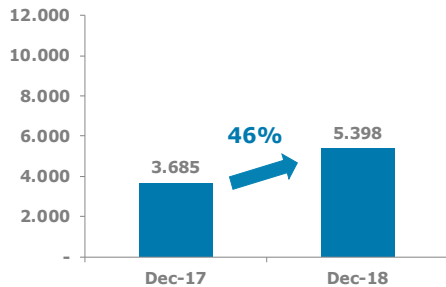
# INTERCONNECTION POINTS



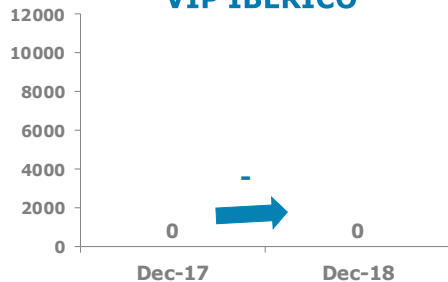
## Imports

Unit: GWh

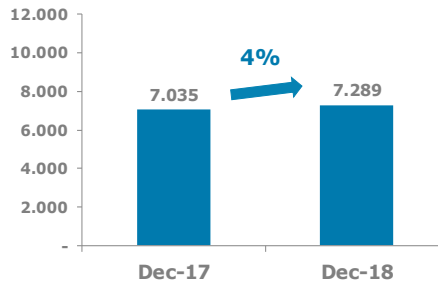
### VIP PIRINEOS



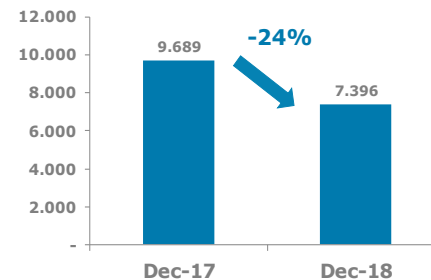
### VIP IBÉRICO



### ALMERÍA



### TARIFA



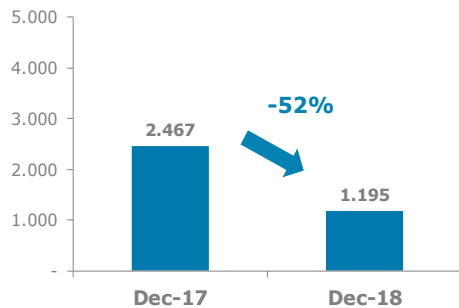
# INTERCONNECTION POINTS



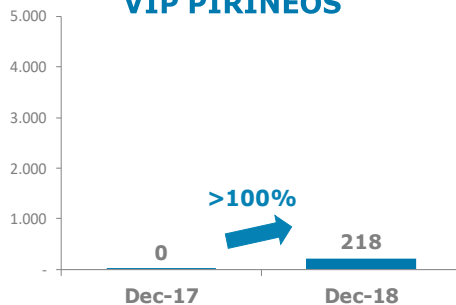
## Exports

Unit: GWh

### VIP IBÉRICO



### VIP PIRINEOS



# INTERCONNECTION POINTS



## Balance

Unit: GWh	Monthly Record			Monthly Mobile Anual Record		
	Dec-17	Dec-18	Δ over/Dec-17	Year 2018	MAT Jan- 18/Dec-18	Δ s/MAT
Tarifa GME	9.689	7.396	-24%	104.807	104.807	21%
Almería MEDGAZ	7.035	7.289	4%	79.290	79.290	6%
VIP PIRINEOS	3.685	5.179	41%	31.563	31.563	-27%
VIP IBÉRICO	-2.467	-1.194	-52%	-22.220	-22.220	-26%
National gas field	19	171	>100%	967	967	>100%
National biogas	8	9	12%	94	94	2%
<b>TOTAL</b>	<b>17.969</b>	<b>18.850</b>	<b>5%</b>	<b>194.501</b>	<b>194.501</b>	<b>11%</b>

(+) Entry flows; (-) Exit flows

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# ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	247	182
LNG Trucks	GWh/day	10	10
% average contract vs. nominal		46%	34%
% average contract use		76%	85%

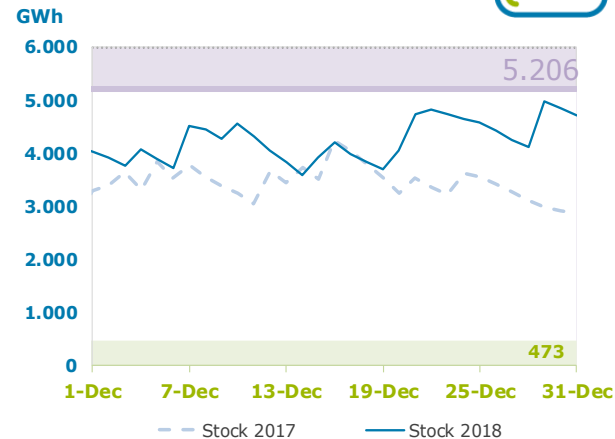
2017

9 LNG Unloaded  
(6.530 GWh)  
0 LNG Loaded  
(0 GWh)

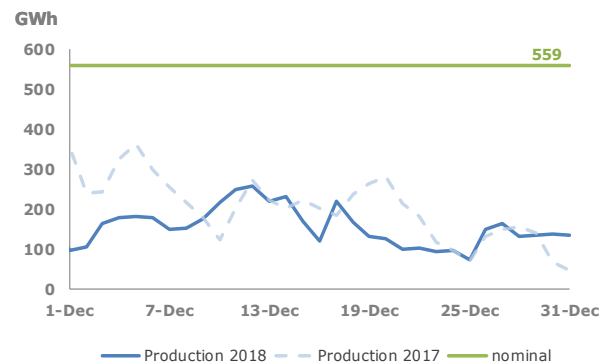


2018

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



Physical production		Dec-17	Dec-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	6.251	4.779



# ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	216	150
LNG Trucks	GWh/day	8	8
% average contract vs. nominal		57%	40%
% average contract use		78%	79%

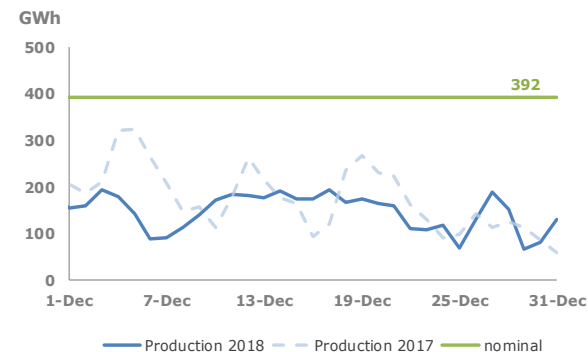
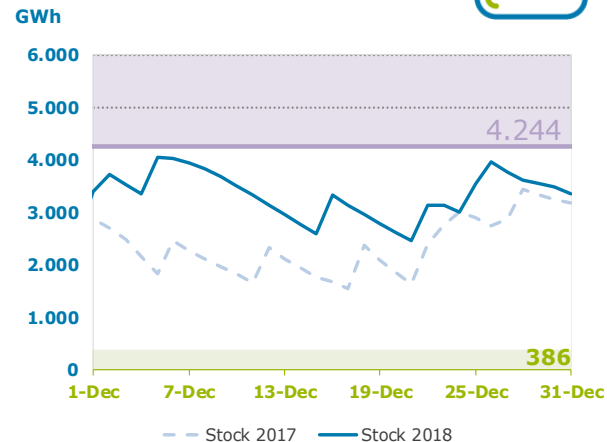
2017

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



2018

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



Physical production		Dec-17	Dec-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>5.429</b>	<b>4.529</b>

# ACTIVITY AT CARTAGENA PLANT



Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	23	24
LNG Trucks	GWh/day	7	9
% average contract vs. nominal		8%	8%
% average contract use		98%	102%

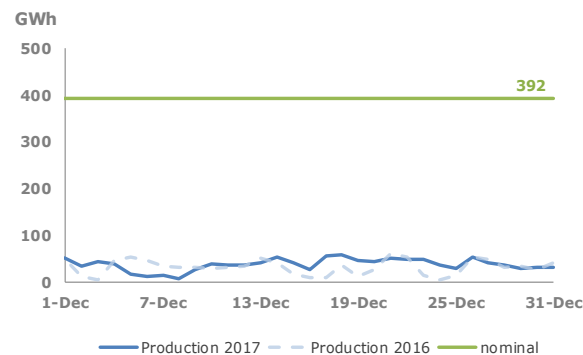
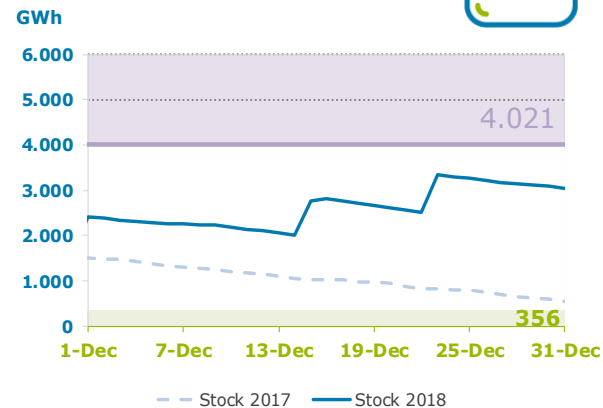
2017

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



2018

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



Physical production		Dec-17	Dec-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>
Monthly production		GWh	978	1.155

# ACTIVITY AT BILBAO PLANT

Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	107	154
LNG Trucks	GWh/day	2	3
% average contract vs. nominal		48%	69%
% average contract use		81%	81%

2017

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

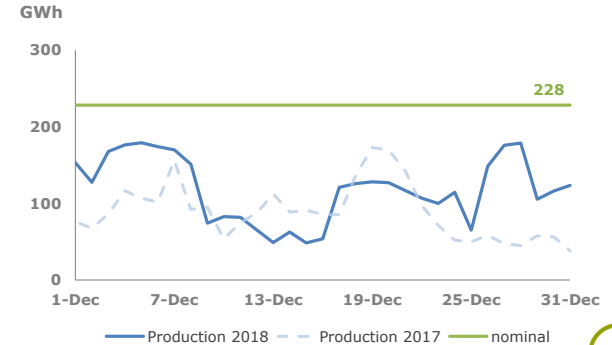
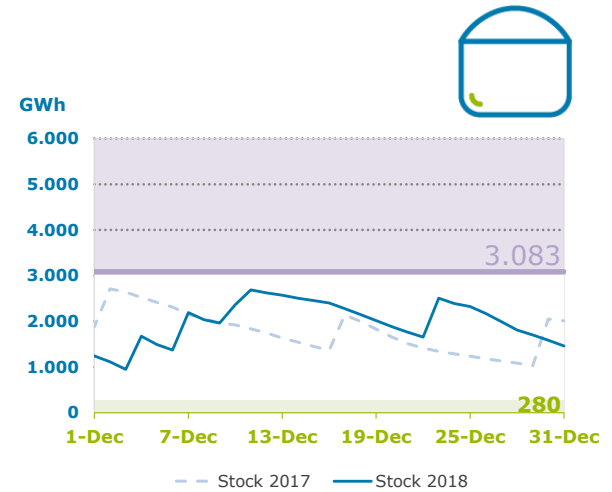


2018

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



Physical production			Dec-17	Dec-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>
Monthly production		GWh	2.771	3.668



# ACTIVITY AT SAGUNTO PLANT

Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	62	0
LNG Trucks	GWh/day	6	2
% average contract vs. nominal		24%	1%
% average contract use		84%	102%

2017

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

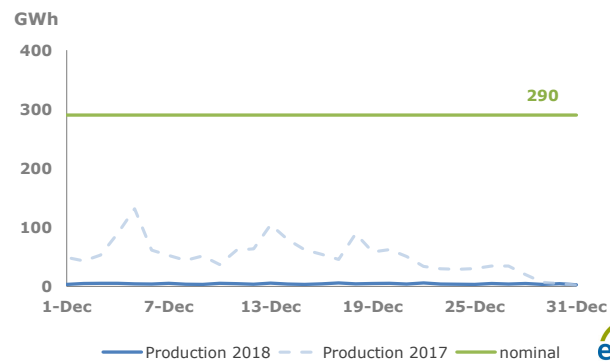
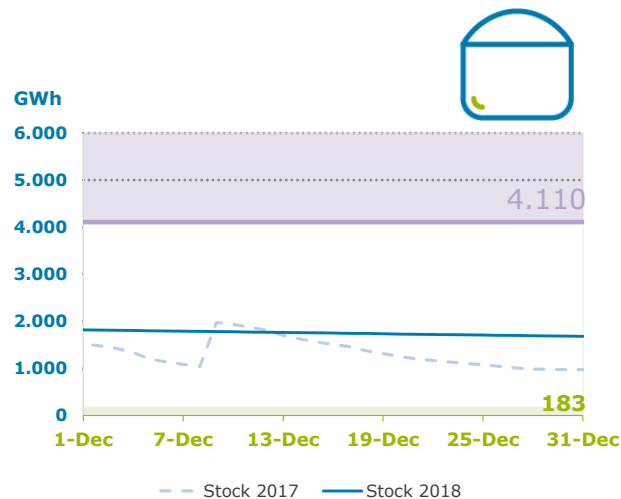


2018

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



Physical production		Dec-17	Dec-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>
Monthly production		GWh	1.573	137



# ACTIVITY AT MUGARDOS PLANT



Contract information (Average value)		Dec-17	Dec-18
Send-out	GWh/day	31	64
LNG Trucks	GWh/day	4	4
% average contract vs. nominal		28%	54%
% average contract use		97%	86%

2017

2018

1 LNG Unloaded  
(988 GWh)

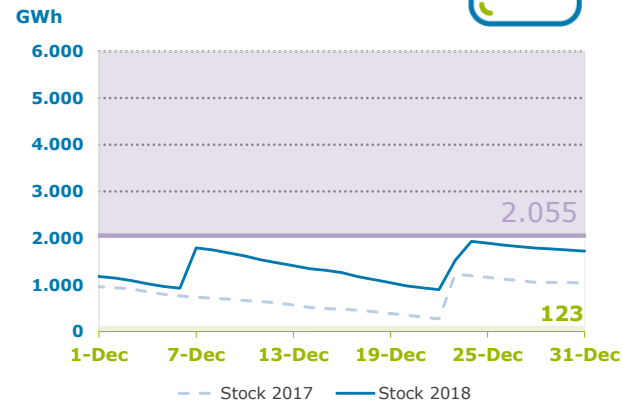


1 LNG Loaded  
(16 GWh)

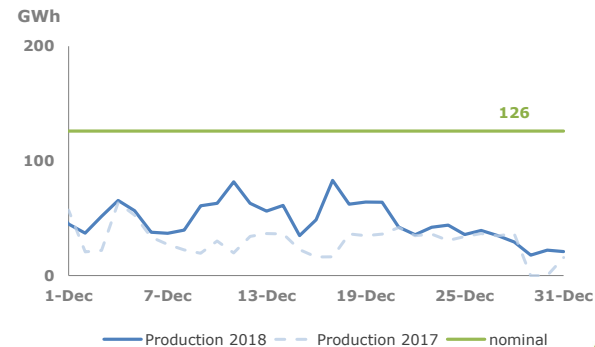
2 LNG Unloaded  
(1.949 GWh)



1 LNG Loaded  
(11 GWh)



Physical production			Dec-17	Dec-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>
Monthly production		GWh	942	1.479



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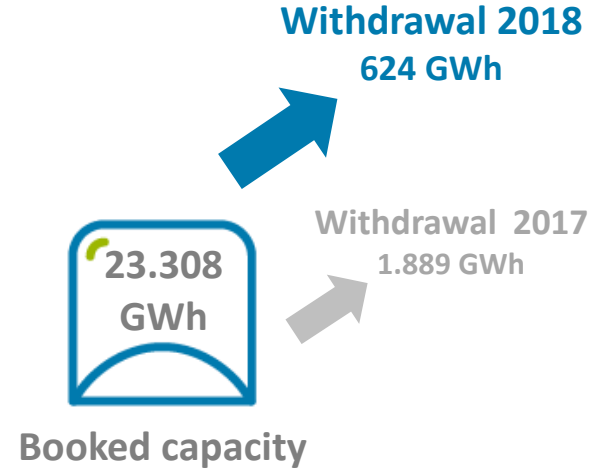
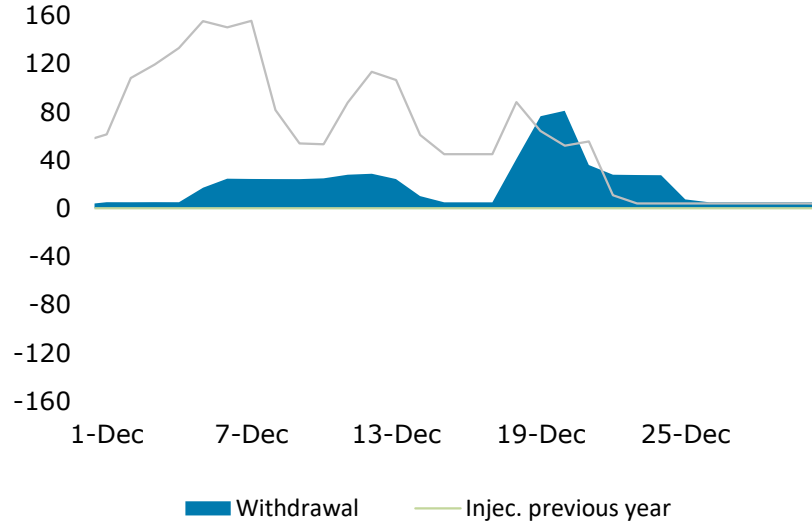
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# UNDERGROUND STORAGE



## Injection season

GWh/day





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# OPERATING NOTES

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



