



# Statistical bulletin

Technical Management of the System

November 2018

# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

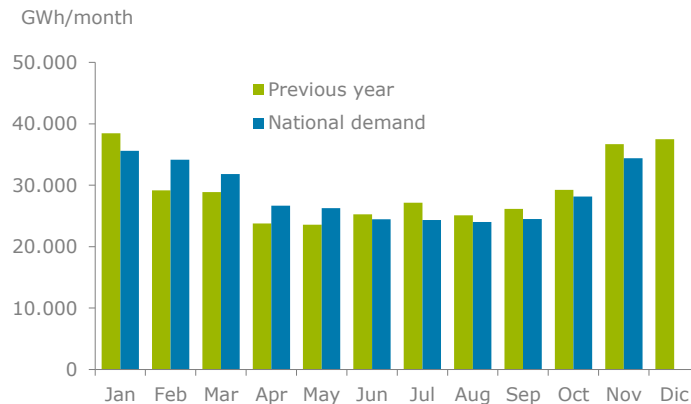
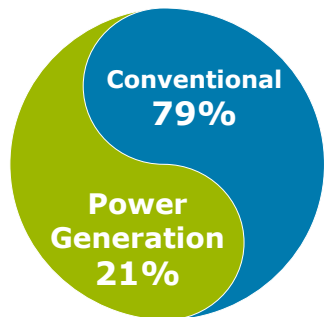
## **6. Operating notes**

# NATURAL GAS DEMAND FOLLOW-UP

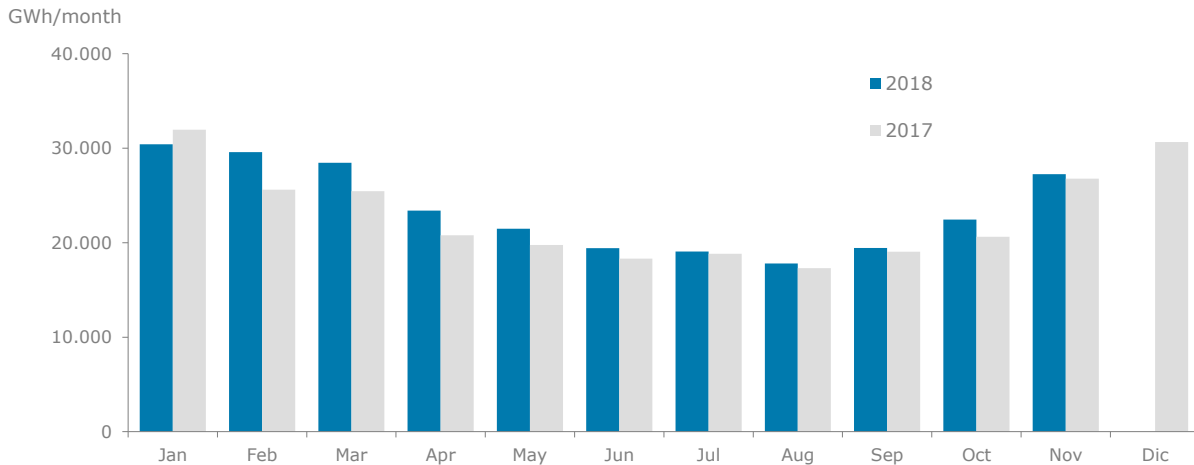
Unit : GWh

	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2017
	1 <sup>st</sup> to 30 <sup>th</sup> November		Year 2018		1 <sup>st</sup> December 2017 to 30 <sup>th</sup> November 2018	
<i>National Demand</i>	34.379	-6,4%	314.223	0,3%	351.710	0,2%
- Conventional demand	27.252	1,8%	258.761	5,8%	289.404	5,2%
- NG for Power Generation	7.127	-28,4%	55.463	-19,5%	62.306	-17,7%
<i>International Demand</i>						
- International connections exports	1.234	-37,8%	29.583	4,6%	32.050	4,2%
- LNG Vessel loading	0	-100,0%	4.961	>100%	4.977	>100%
<b>TOTAL</b>	<b>35.613</b>	<b>-8,0%</b>	<b>348.767</b>	<b>1,8%</b>	<b>388.737</b>	<b>1,6%</b>

National demand  
November - 2018

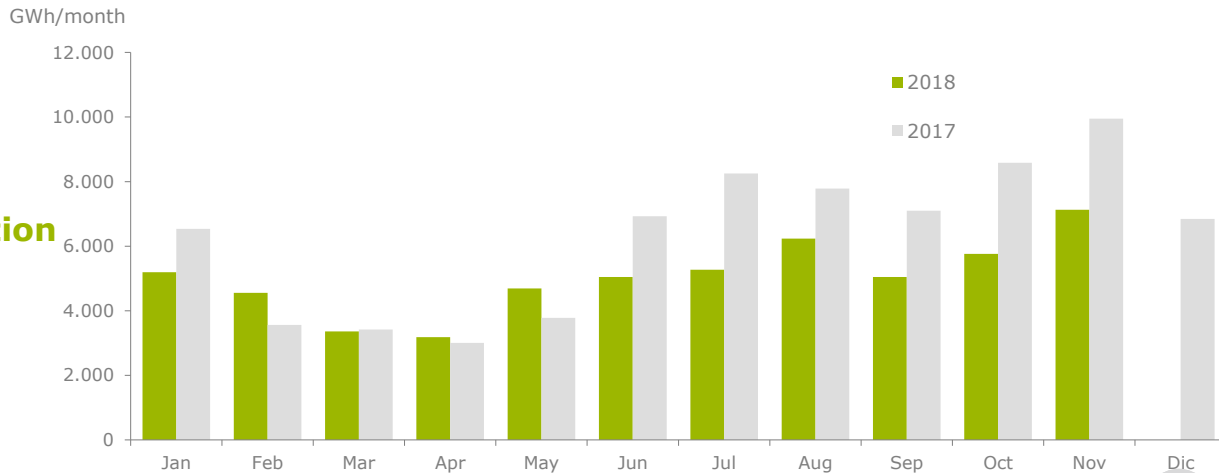


# NATURAL GAS DEMAND FOLLOW-UP



**Conventional demand  
2017 - 2018**

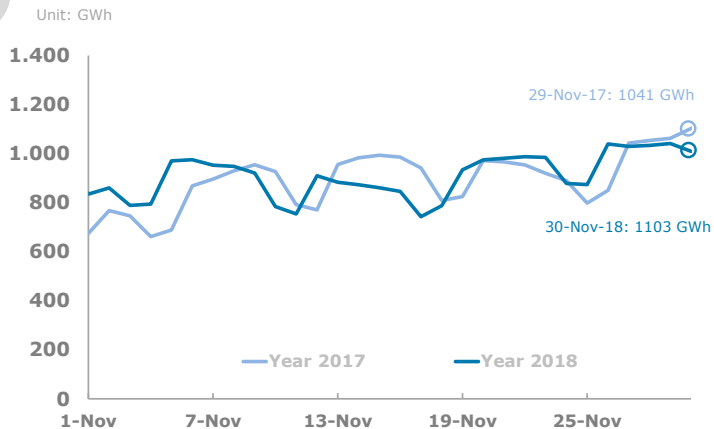
**NG for Power Generation  
2017 - 2018**



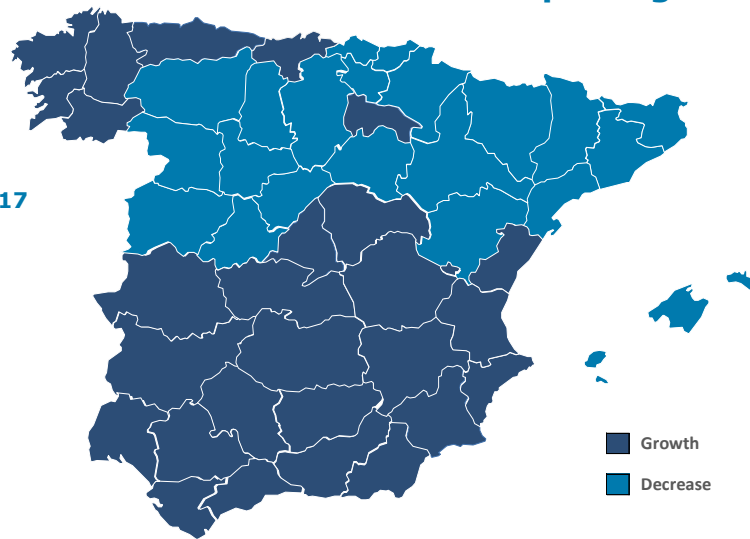
# CONVENTIONAL DEMAND

Growth per region

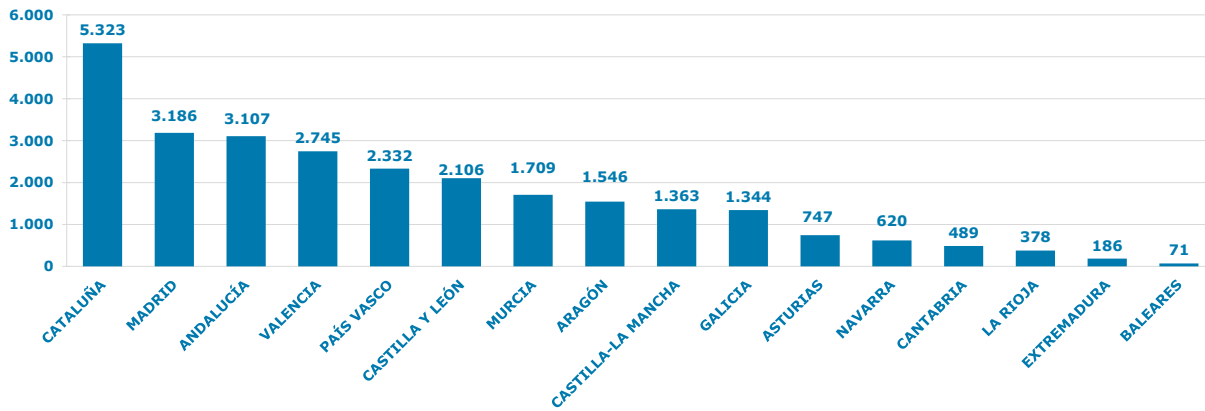
## Comparison 2017 - 2018



Growth +1,8% vs. 2017



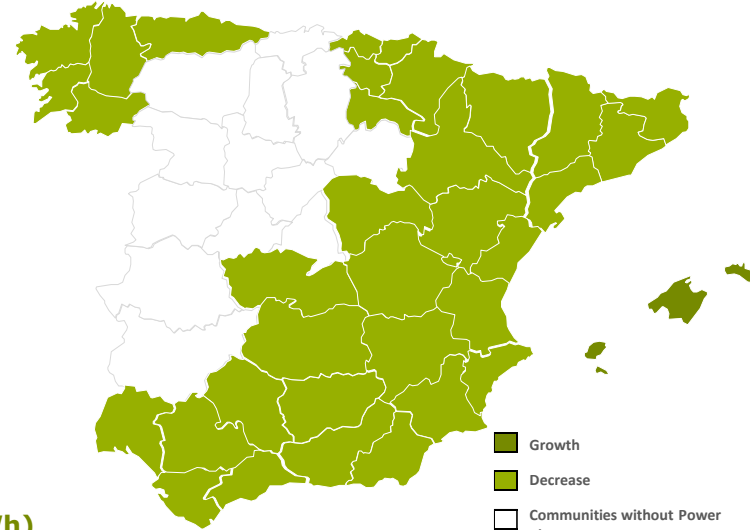
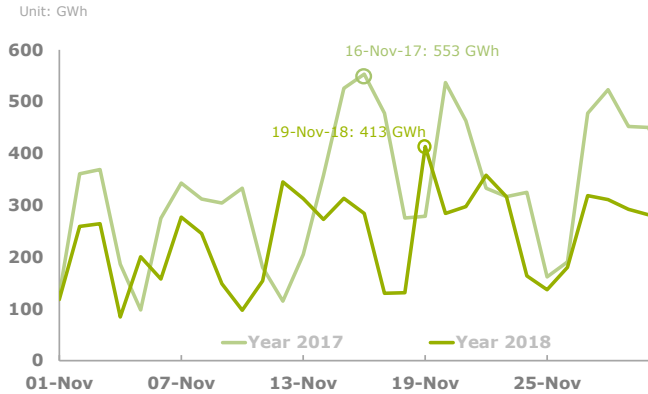
## Conventional demand per CCAA (GWh)



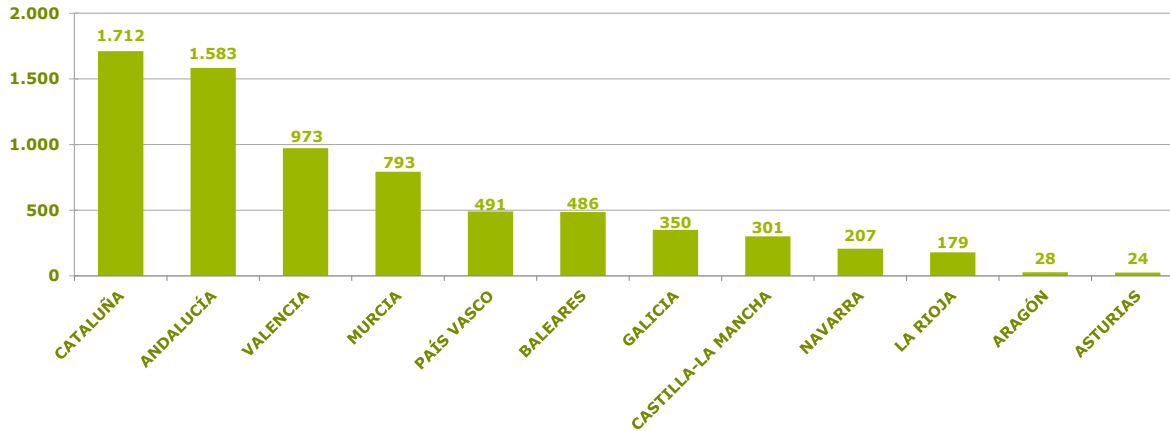
# NATURAL GAS FOR POWER GENERATION

Growth per region

## Comparison 2017 - 2018



## NG for Power Generation (GWh)

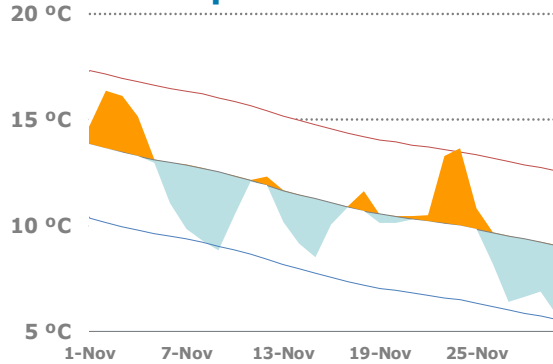


CTCC + CT

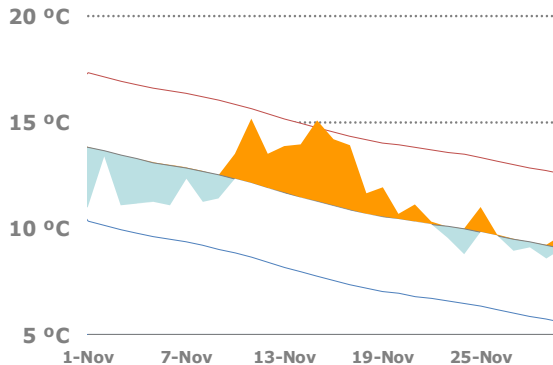


# DEMAND - TEMPERATURES

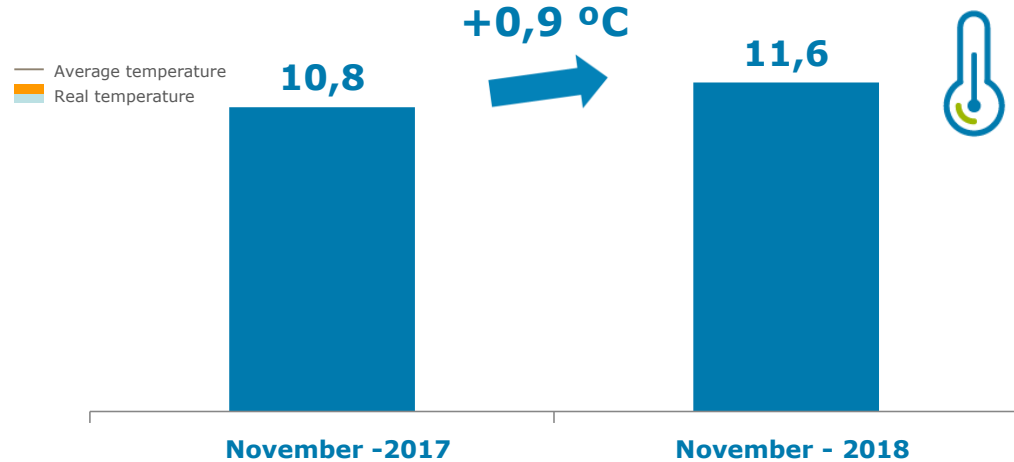
## Temperatures 2017



## Temperatures 2018

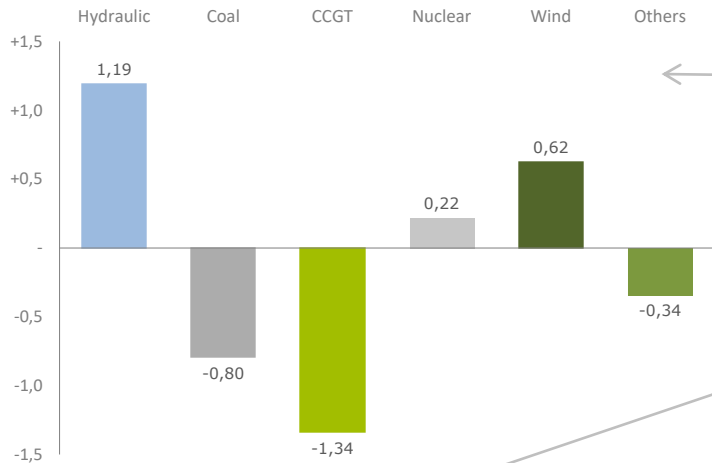


- Temperatures have been higher during November 2018 in comparison with November 2017.
- The average temperature has been **0,9°C** higher than the average of November 2017

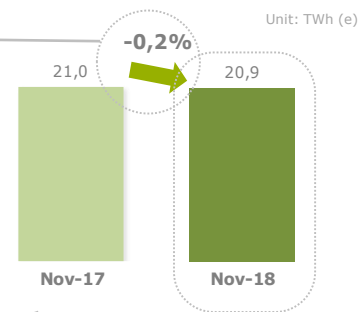


# GAS FOR POWER GENERATION

## GROWTH NOV-18 VS. NOV-17

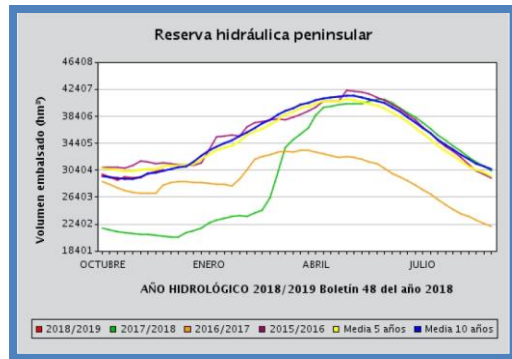


## TRANSMISSION DEMAND NOV-18 VS. NOV-17

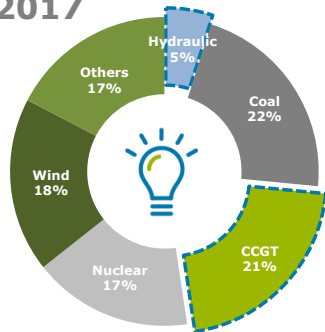


## CAPACITY

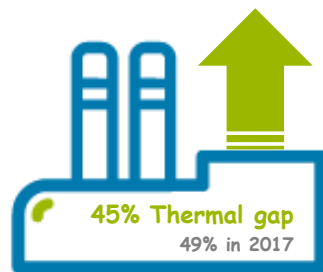
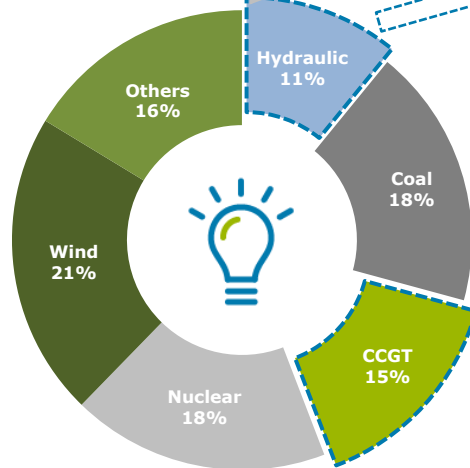
**TOTAL :** 56.074 hm<sup>3</sup> = 23.281 GWh  
**ACTUAL :** 30.367 hm<sup>3</sup> = 9.986 GWh



2017



2018





# GAS FOR POWER GENERATION

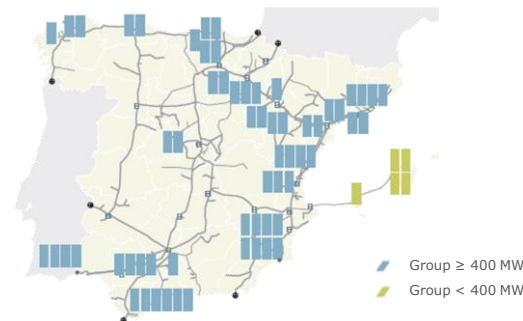
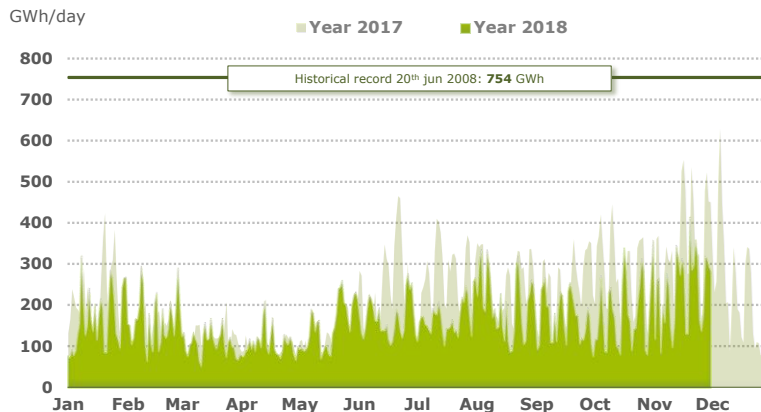


## Monthly record

## Mobile Anual Total Record

Unit: GWh

	Nov-17	Nov-18	Δ s/nov-18	Year 2018	MAT Dec-2017/Nov-2018	Δ over/Year 2018
<b>NG for Power Generation</b>	<b>9.952</b>	<b>7.127</b>	<b>-28,4%</b>	<b>55.463</b>	<b>62.306</b>	<b>-17,7%</b>
- Thermal Power Plants	22	14	-33%	202	222	-2,3%
- CCGT's	9.930	7.113	-28%	55.260	62.084	-18%
<b>Maximum daily consumption</b>	<b>553</b>	<b>413</b>	<b>-25%</b>	<b>413</b>	<b>630</b>	<b>+52%</b>
	16-Nov-17	19-Nov-18		19-Nov-18	05-Dec-17	
<b>Minimum daily consumption</b>	<b>98</b>	<b>84</b>	<b>-14%</b>	<b>52</b>	<b>52</b>	<b>-</b>
	05-Nov-17	19-Nov-18		11-Mar-18	11-Mar-18	



# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

## **6. Operating notes**

# ORIGIN OF SUPPLIES



		Monthly record		Annual Total record		Mobile Annual Total record	
Unit: GWh		Nov-17	Nov-18	Year 2018	% 2018	MAT Dec-17/Nov-18	% MAT
Algeria	NG	16.160	14.332	169.412	} 52,2%	186.136	} 52,3%
	LNG	2.979	992	14.863		18.169	
Nigeria	LNG	2.948	5.308	40.881	11,6%	42.736	10,9%
Qatar	LNG	3.633	1.756	34.960	9,9%	39.967	10,2%
T&T	LNG	869	2.559	21.676	6,1%	21.676	5,6%
Peru	LNG	5.265	1.941	16.511	4,7%	21.222	5,4%
France	NG	2.985	4.913	34.835	} 10,0%	38.520	} 10,0%
	LNG	-	-	487		487	
Angola	LNG	172	-	1.033	0,3%	1.033	0,3%
United States	LNG	1.963	-	2.018	0,6%	3.035	0,8%
Norway	LNG	1.034	-	5.620	1,6%	6.539	1,7%
Bélgica	LNG	-	-	896	0,3%	896	0,2%
National gas field	NG	-	95	796	0,2%	815	0,2%
National biogas	NG	8	9	85	0,0%	93	0,0%
Portugal	NG	-	12	106	0,0%	106	0,0%
Dominican Republic	LNG	-	-	338	0,1%	338	0,1%
Russia	LNG	-	1.092	8.668	2,5%	8.668	2,2%
<b>TOTAL</b>		<b>38.015</b>	<b>33.008</b>	<b>353.185</b>	<b>100%</b>	<b>390.436</b>	<b>100%</b>

# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

## **6. Operating notes**

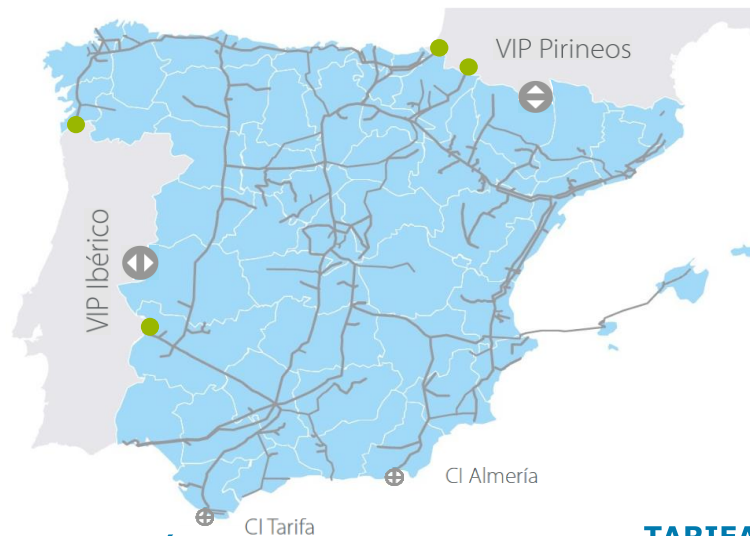
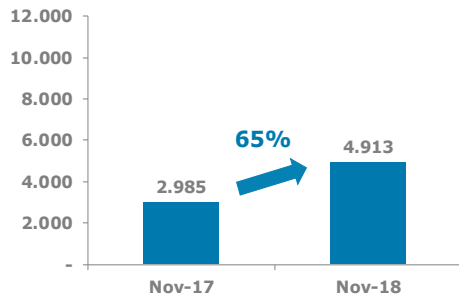
# INTERCONNECTION POINTS



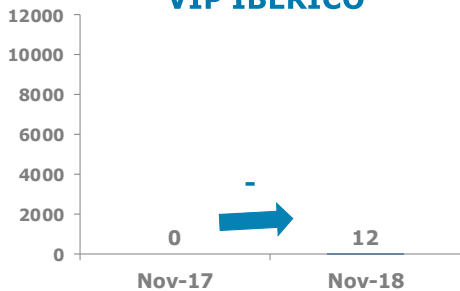
## Imports

### VIP PIRINEOS

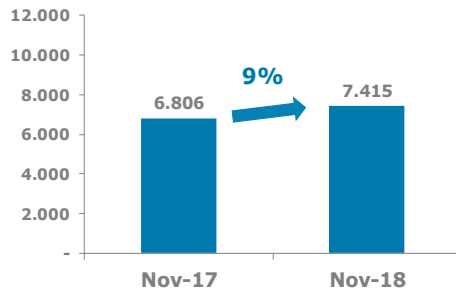
Unit: GWh



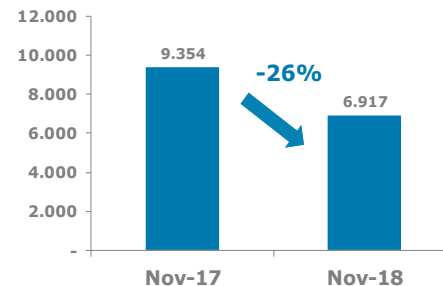
### VIP IBÉRICO



### ALMERÍA



### TARIFA

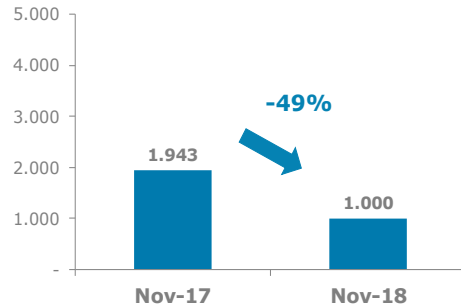


# INTERCONNECTION POINTS

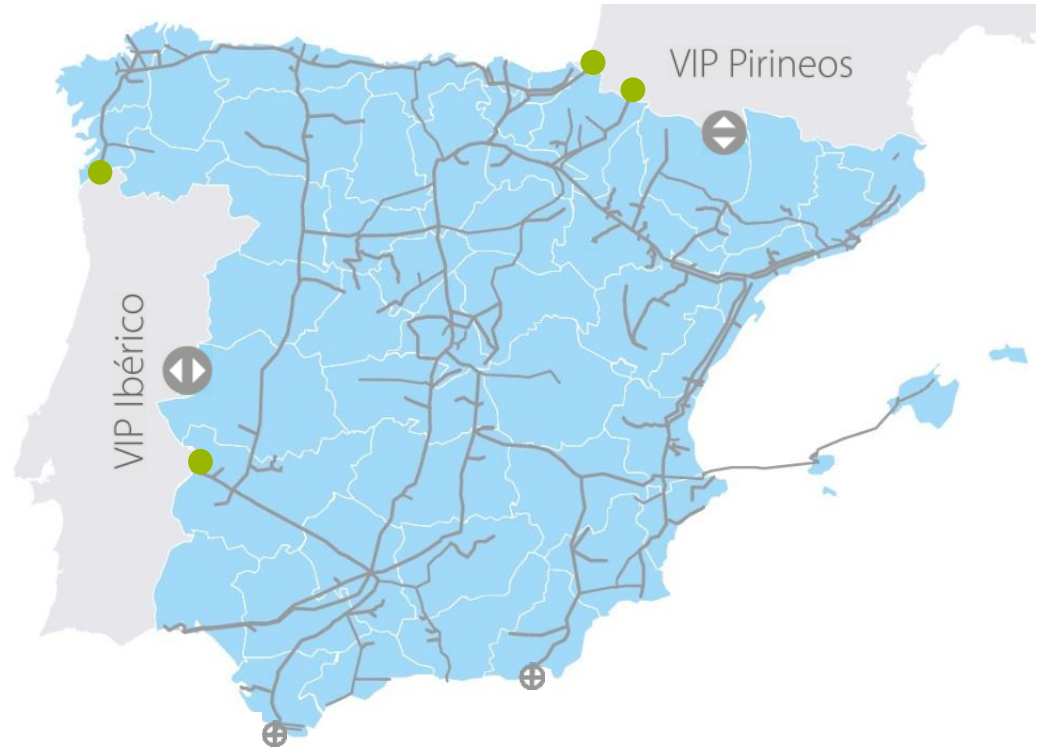
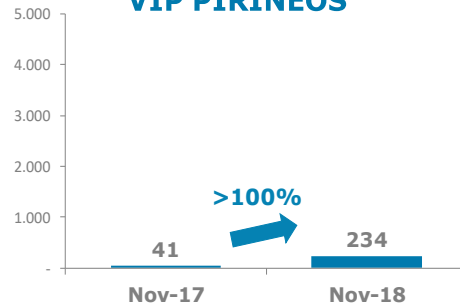


## Exports

Unit: GWh **VIP IBÉRICO**



**VIP PIRINEOS**



# INTERCONNECTION POINTS



## Balance

Unit: GWh	Monthly Record			Monthly Mobile Annual Record		
	Nov-17	Nov-18	Δ over/Nov-17	Year 2018	MAT Dec- 17/Nov-18	Δ s/MAT
Tarifa GME	9.354	6.917	-26%	97.411	107.100	24%
Almería MEDGAZ	6.806	7.415	9%	72.001	79.036	6%
VIP PIRINEOS	2.944	4.680	59%	26.383	30.069	-30%
VIP IBÉRICO	-1.943	-988	-49%	-21.026	-23.493	-21%
National gas field	-	95	-	796	815	>100%
National biogas	8	9	8%	85	93	1%
<b>TOTAL</b>	<b>17.169</b>	<b>18.127</b>	<b>6%</b>	<b>175.650</b>	<b>193.620</b>	<b>11%</b>

(+) Entry flows; (-) Exit flows

# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

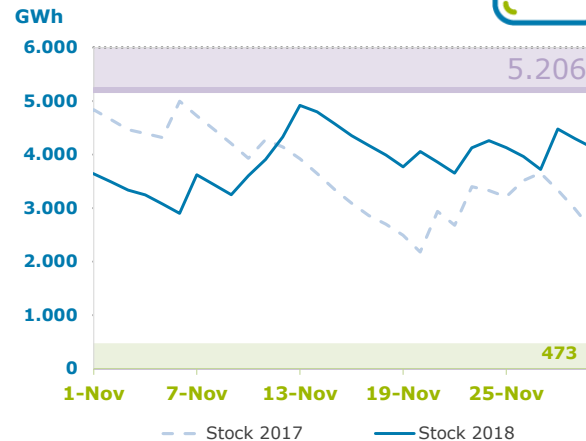
## **6. Operating notes**



# ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	236	188
LNG Trucks	GWh/day	10	12
% average contract vs. nominal		44%	36%
% average contract use		93%	96%



2017

2018

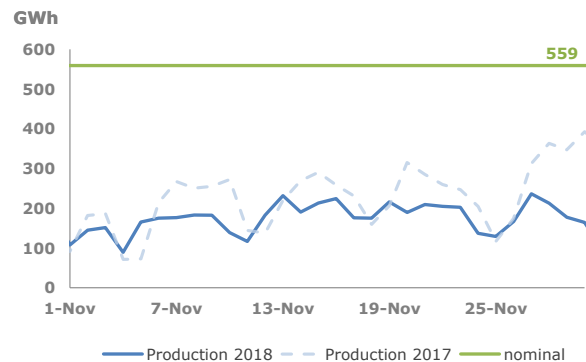
7 LNG Unloaded  
(5.499 GWh)  
0 LNG Loaded  
(0 GWh)



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



Physical production		Nov-17	Nov-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	6.799	5.269



# ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	223	157
LNG Trucks	GWh/day	8	9
% average contract vs. nominal		59%	42%
% average contract use		81%	84%

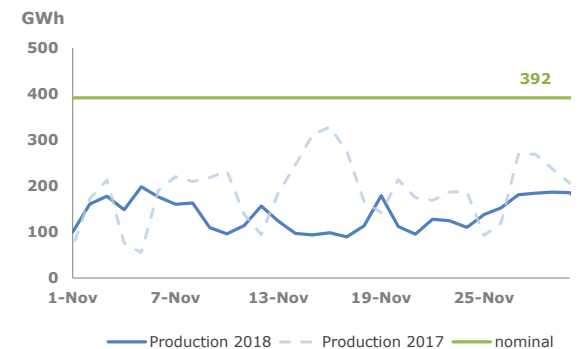
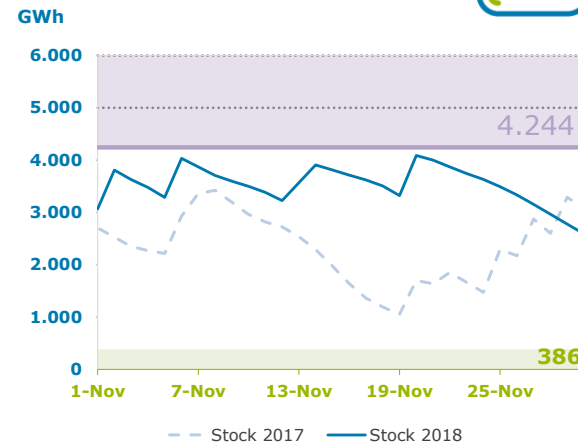
2017

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



2018

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



Physical production		Nov-17	Nov-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	5.632	4.156

# ACTIVITY AT CARTAGENA PLANT

Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	46	34
LNG Trucks	GWh/day	5	10
% average contract vs. nominal		13%	11%
% average contract use		92%	86%

2017

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

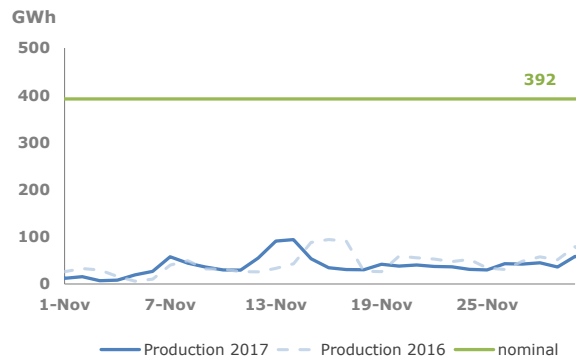
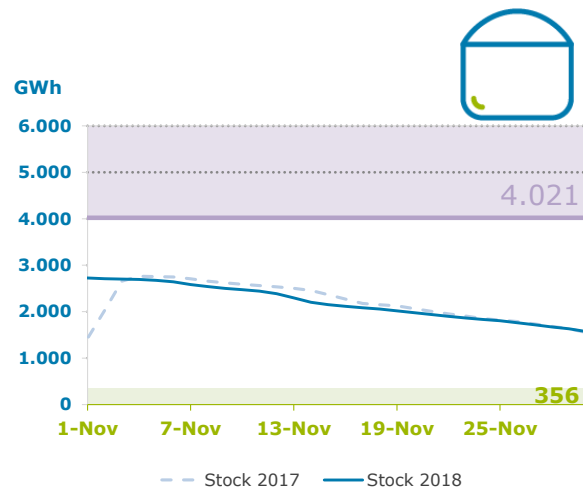


2018

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



Physical production		Nov-17	Nov-18	
<b>Nominal</b>	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>1.292</b>	<b>1.154</b>



# ACTIVITY AT BILBAO PLANT



Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	99	127
LNG Trucks	GWh/day	2	3
% average contract vs. nominal		44%	57%
% average contract use		87%	94%

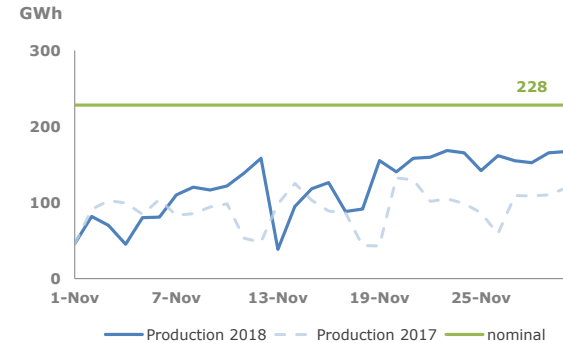
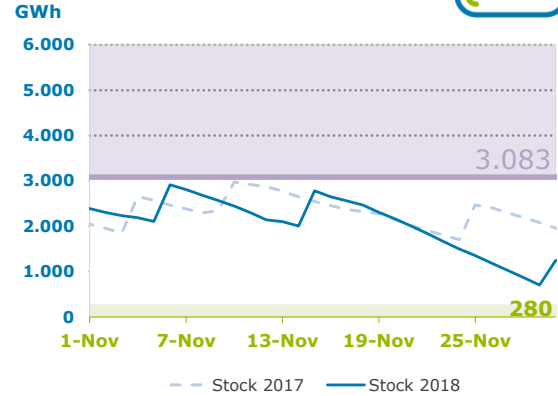
2017

2018

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



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



Physical production		Nov-17	Nov-18	
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	Total	GWh/day	228	228
Monthly production		GWh	2.734	3.615

# ACTIVITY AT SAGUNTO PLANT



Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	10	5
LNG Trucks	GWh/day	6	2
% average contract vs. nominal		5%	2%
% average contract use		90%	93%

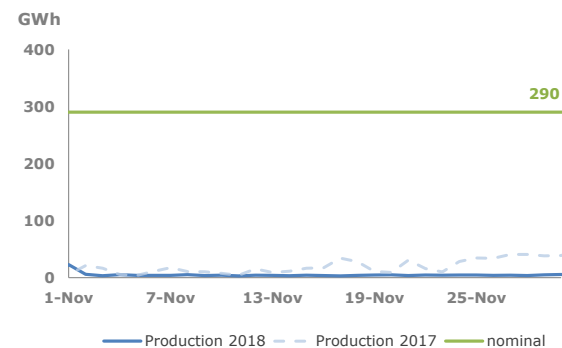
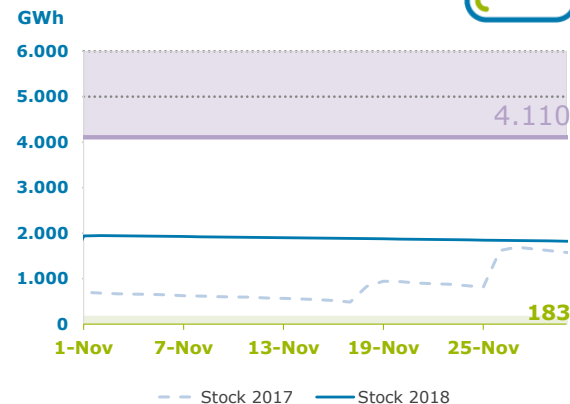
2017

2018

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



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



Physical production		Nov-17	Nov-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	582	149

# ACTIVITY AT MUGARDOS PLANT



Contract information (Average value)		Nov-17	Nov-18
Send-out	GWh/day	55	37
LNG Trucks	GWh/day	4	4
% average contract vs. nominal		47%	33%
% average contract use		94%	89%

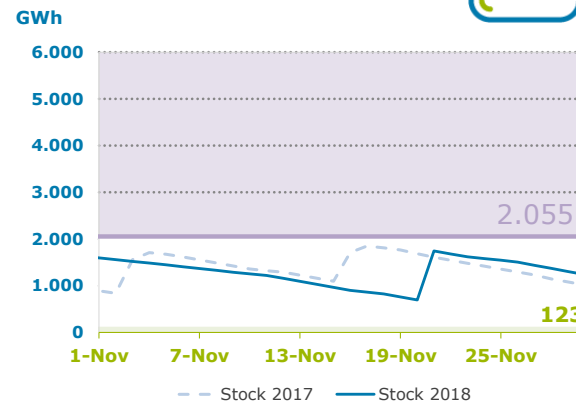
2017

2018

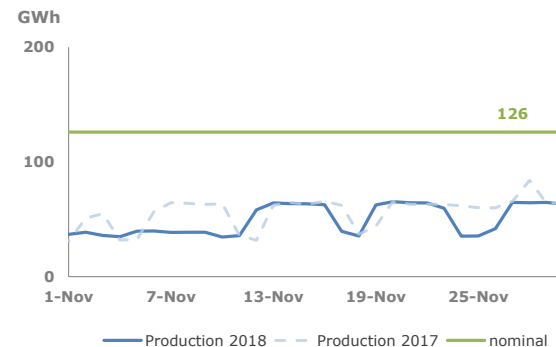
2 LNG Unloaded  
(1.816 GWh)  
1 LNG Loaded  
(24 GWh)



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



Physical production			Nov-17	Nov-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>1.695</b>	<b>1.485</b>



# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

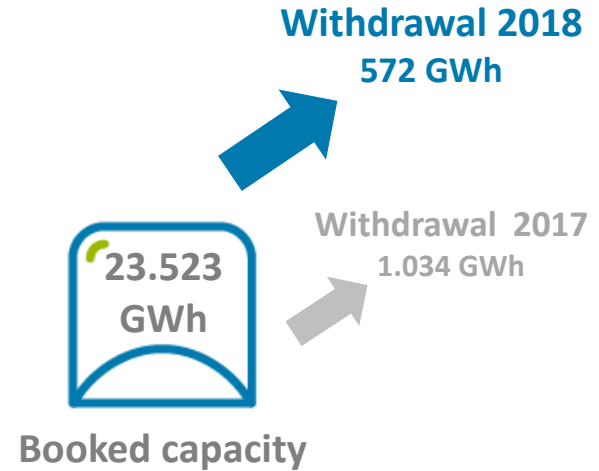
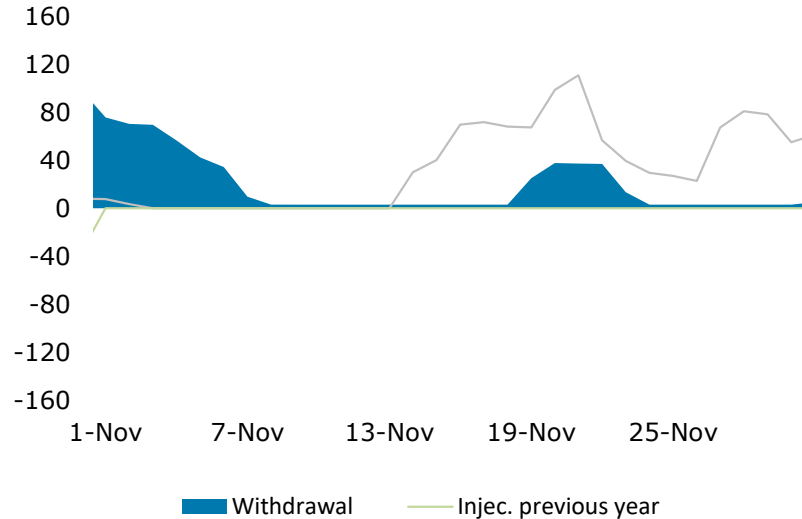
## **6. Operating notes**

# UNDERGROUND STORAGE



## Injection season

GWh/day





# Content

## **1. Natural gas demand**

Natural gas demand follow-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 detail by LNG plant

## **5. Underground storage**

## **6. Operating notes**

# OPERATING NOTES

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



