



# Statistical bulletin

Technical Management of the System

October 2018

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## **1. Natural gas demand**

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

Production at regasification plants

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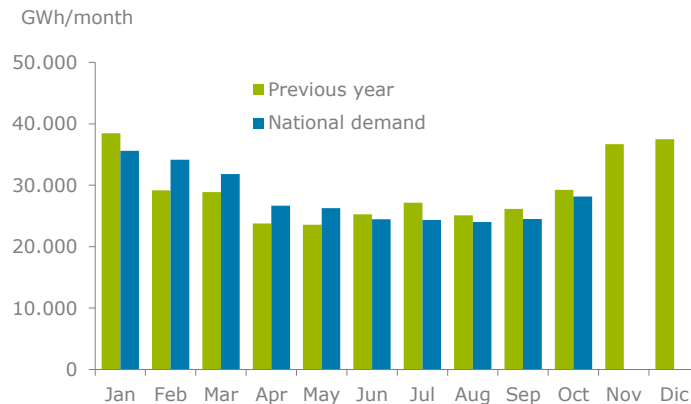
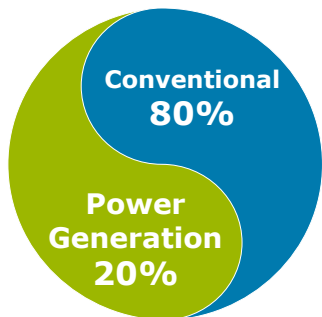
## **6. Operating notes**

# NATURAL GAS DEMAND FOLLOW-UP

Unit : GWh

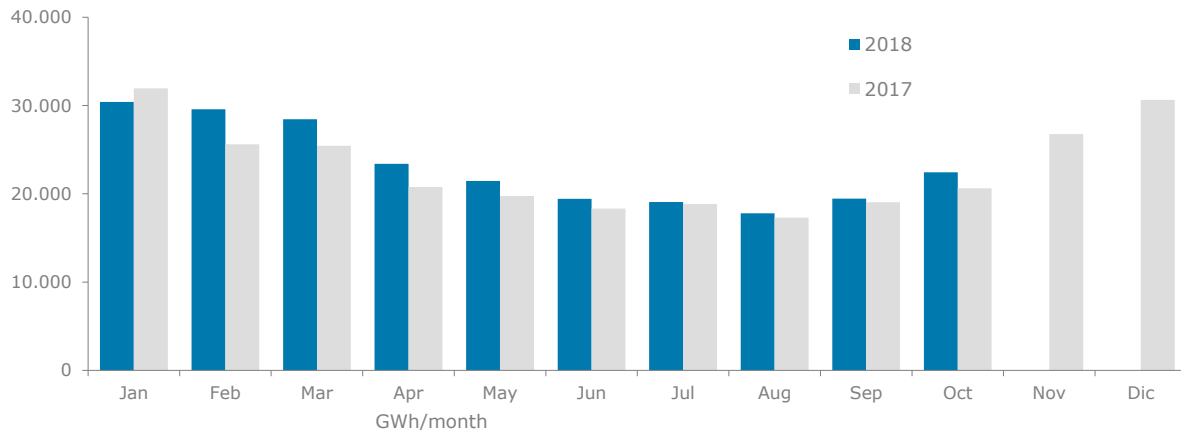
	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2017
	1 <sup>st</sup> to 31st October		Year 2018		1 <sup>st</sup> November 2017 to 31 <sup>st</sup> October 2018	
<i>National Demand</i>	28.204	-3,5%	279.844	1,2%	354.060	0,9%
- Conventional demand	22.444	8,8%	231.509	6,3%	288.930	5,0%
- NG for Power Generation	5.760	-32,9%	48.335	-18,0%	65.130	-14,0%
<i>International Demand</i>						
- International connections exports	2.223	-7,1%	28.348	7,8%	32.800	6,7%
- LNG Vessel loading		-100,0%	4.961	>100%	5.001	>100%
<b>TOTAL</b>	<b>30.426</b>	<b>-6,7%</b>	<b>313.154</b>	<b>3,0%</b>	<b>391.861</b>	<b>2,4%</b>

National demand  
October - 2018

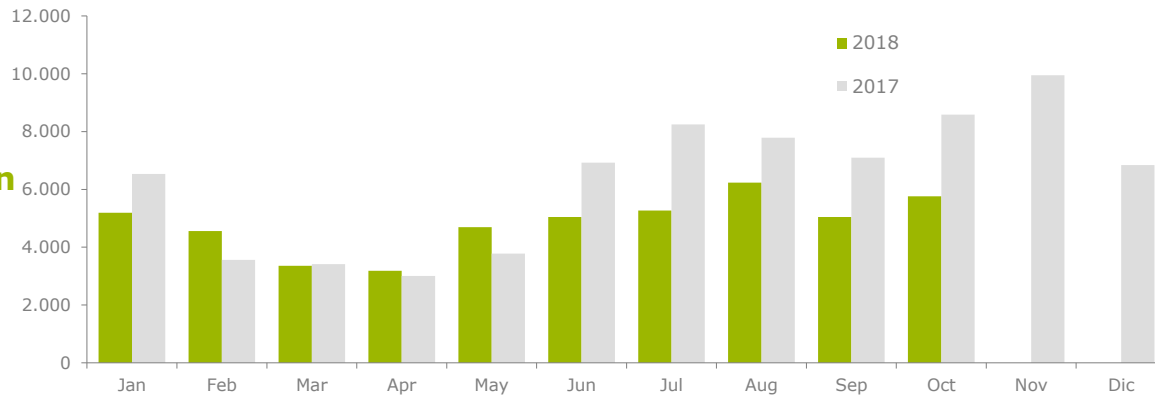


# NATURAL GAS DEMAND FOLLOW-UP

GWh/month



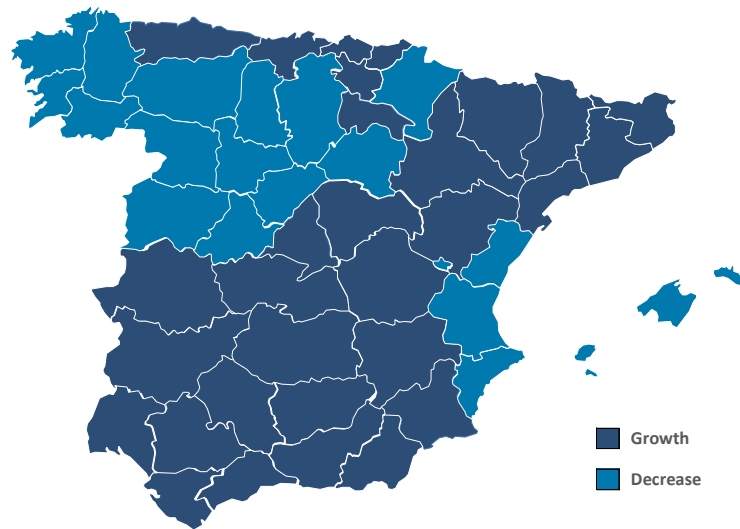
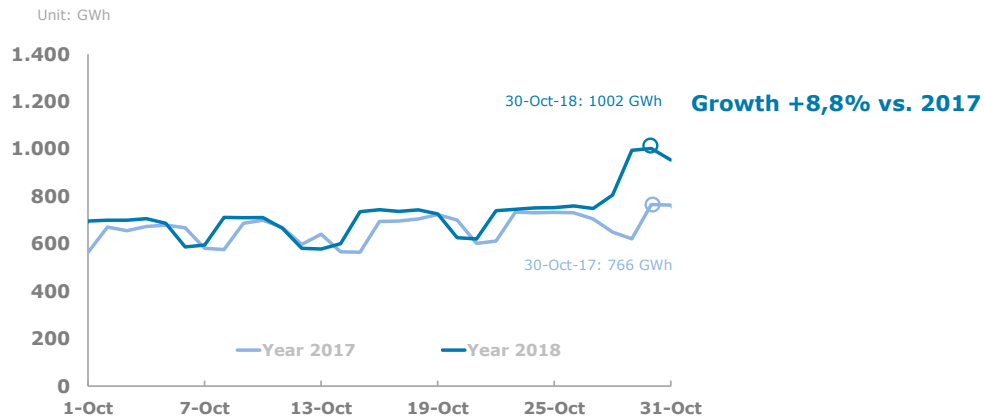
**NG for Power Generation 2017 - 2018**



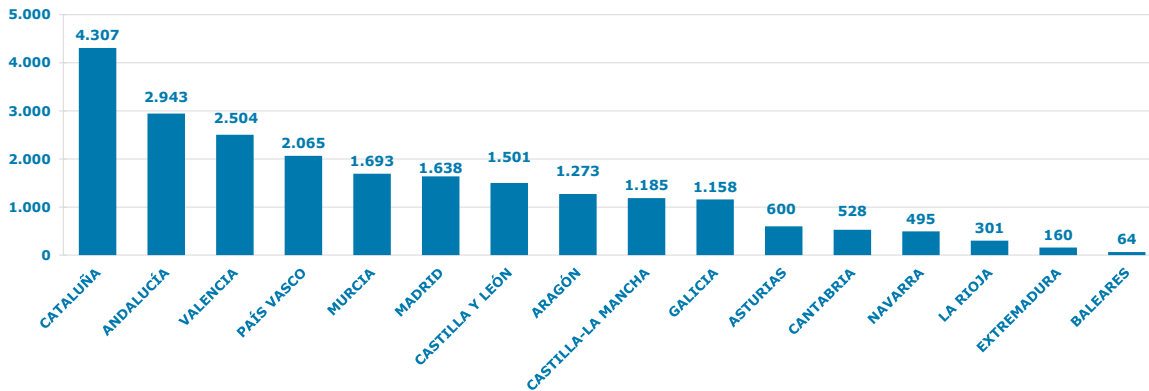
# CONVENTIONAL DEMAND

Growth per region

## Comparison 2017 - 2018



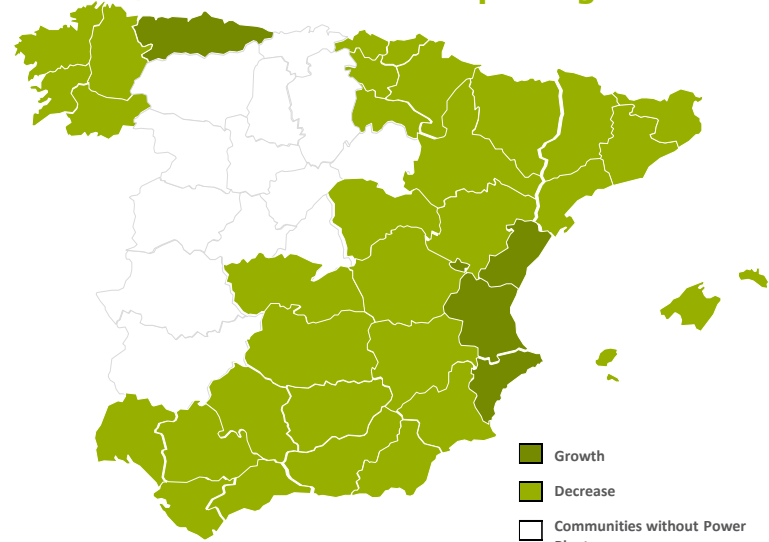
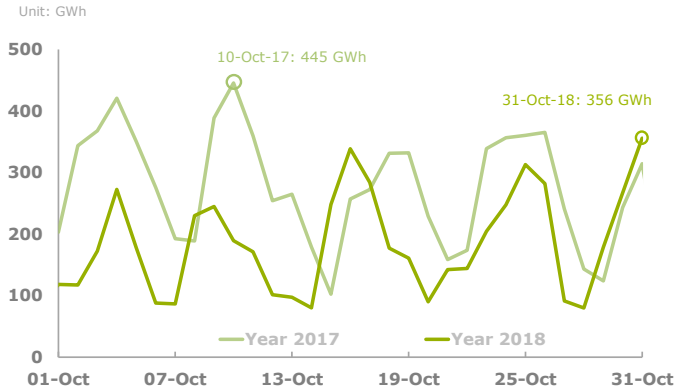
## Conventional demand per CCAA (GWh)



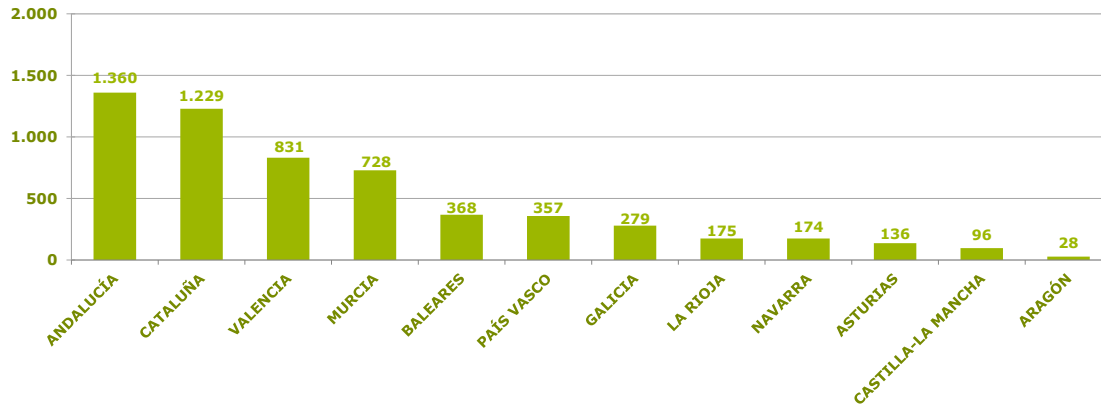
# NATURAL GAS FOR POWER GENERATION

Growth per region

## Comparison 2017 - 2018



## NG for Power Generation (GWh)

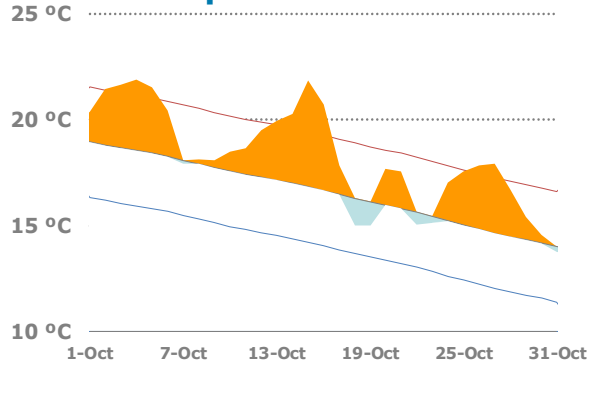


CTCC + CT

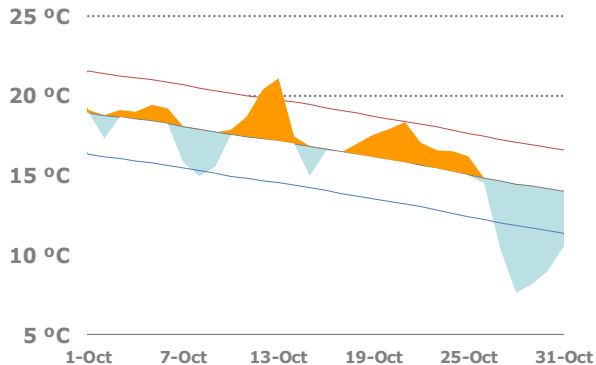


# DEMAND - TEMPERATURES

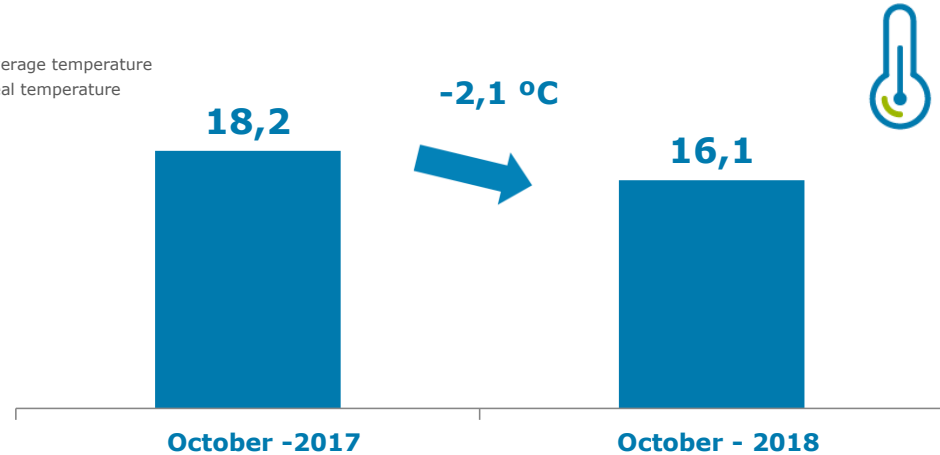
## Temperatures 2017



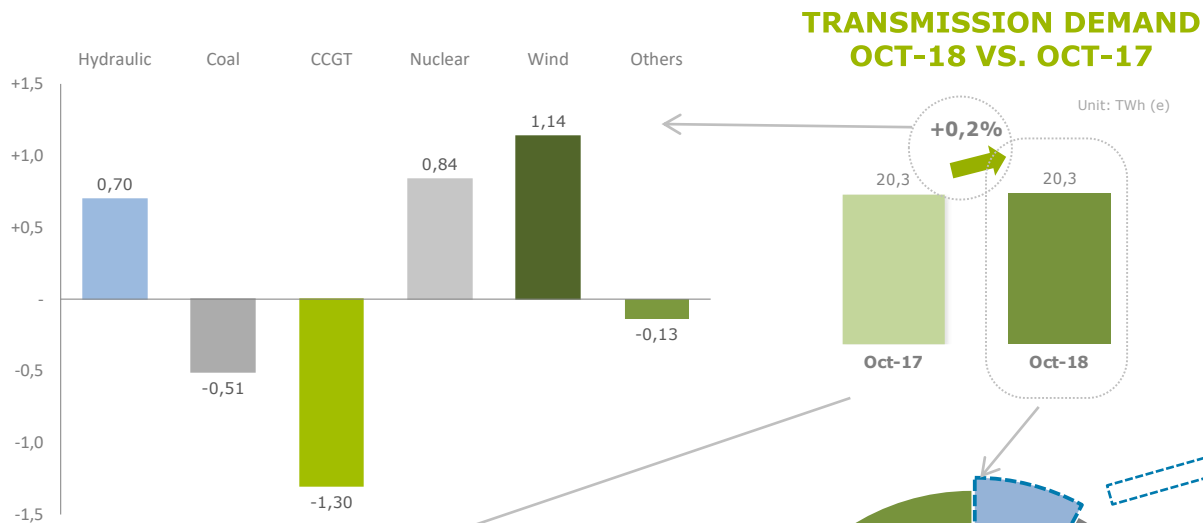
## Temperatures 2018



- Temperatures have been lower during October 2018 in comparison with October 2017.
- The average temperature has been **2,1°C** lower than the average of October 2017

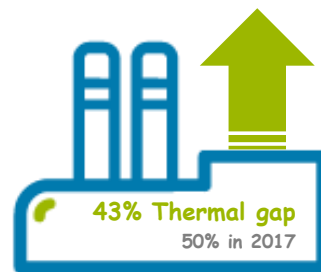
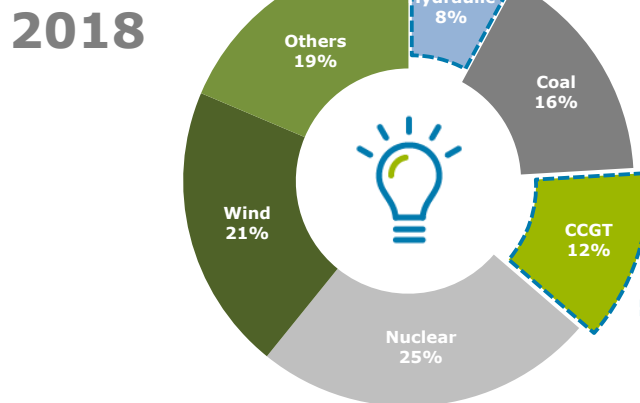
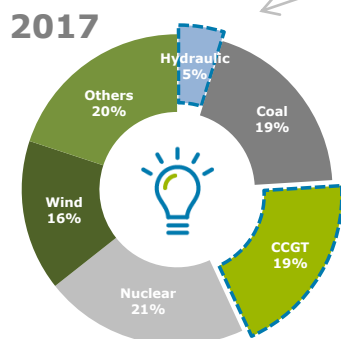
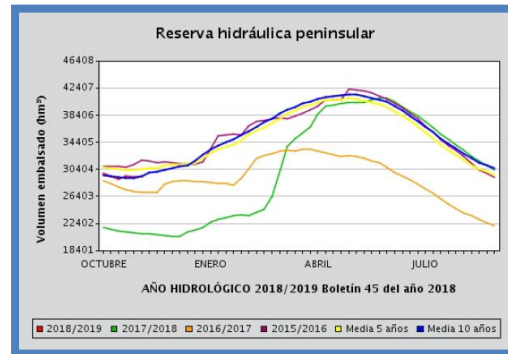


# GAS FOR POWER GENERATION



### CAPACITY

**TOTAL :** 56.074 hm<sup>3</sup> = 23.281 GWh  
**ACTUAL :** 29.307 hm<sup>3</sup> = 9.560 GWh

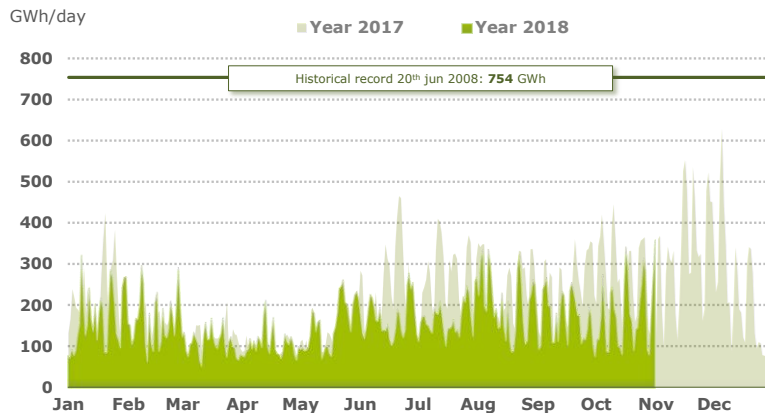




# GAS FOR POWER GENERATION



Unidad: GWh Unit: GWh	Monthly record			Mobile Anual Total Record		
	Oct-17	Oct-18	Δ s/oct-18	Year 2018	MAT Nov-2017/Oct-2018	Δ over/Year 2018
<b>NG for Power Generation</b>	<b>8.585</b>	<b>5.760</b>	<b>-32,9%</b>	<b>48.335</b>	<b>65.130</b>	<b>-14,0%</b>
- Thermal Power Plants	19	30	+56%	188	229	+0,9%
- CCGT's	8.566	5.730	-33%	48.147	64.901	-14%
<b>Maximum daily consumption</b>	<b>445</b>	<b>356</b>	<b>-20%</b>	<b>356</b>	<b>630</b>	<b>+77%</b>
	10-Oct-17	31-Oct-18		31-Oct-18	05-Dec-17	
<b>Minimum daily consumption</b>	<b>102</b>	<b>80</b>	<b>-22%</b>	<b>52</b>	<b>52</b>	<b>-</b>
	15-Oct-17	28-Oct-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		Oct-17	Oct-18	Year 2018	% 2018	MAT Nov-17/Oct-18	% MAT
Algeria	GN	16.482	12.401	155.080	} 52,8%	187.964	} 52,6%
	GNL	3.523	994	13.871		20.157	
Nigeria	GNL	3.697	3.910	35.574	11,1%	40.376	10,2%
Qatar	GNL	1.795	3.668	33.204	10,4%	41.843	10,6%
T&T	GNL	2.536	1.683	19.117	6,0%	19.986	5,1%
Peru	GNL	2.782	2.803	14.570	4,6%	24.546	6,2%
France	GN	4.213	4.395	29.921	} 9,5%	36.592	} 9,4%
	GNL	-	-	487		487	
Angola	GNL	878	-	1.033	0,3%	1.206	0,3%
United States	GNL	-	1.069	2.018	0,6%	4.998	1,3%
Norway	GNL	1.872	920	5.620	1,8%	7.572	1,9%
Bélgica	GNL	-	-	896	0,3%	896	0,2%
National gas field	GN	8	101	701	0,2%	720	0,2%
National biogas	GN	8	8	76	0,0%	92	0,0%
Portugal	GN	-	48	94	0,0%	94	0,0%
Dominican Republic	GNL	-	338	338	0,1%	338	0,1%
Rusia	GNL	-	2.226	7.577	2,4%	7.577	1,9%
<b>TOTAL</b>		<b>37.796</b>	<b>34.564</b>	<b>320.177</b>	<b>100%</b>	<b>395.444</b>	<b>100%</b>

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

**Dominican Republic**

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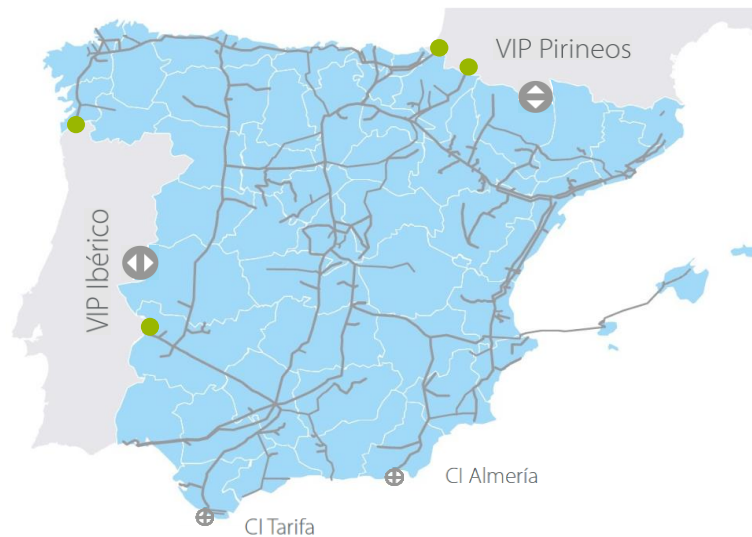
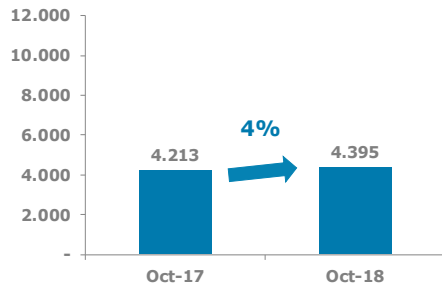
# INTERCONNECTION POINTS



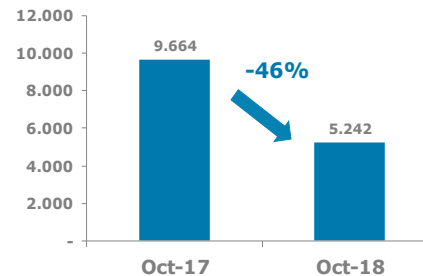
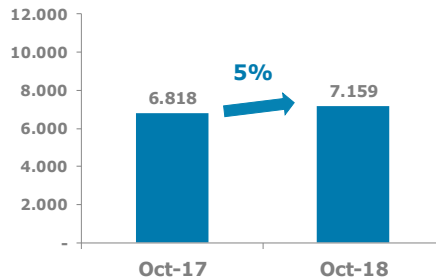
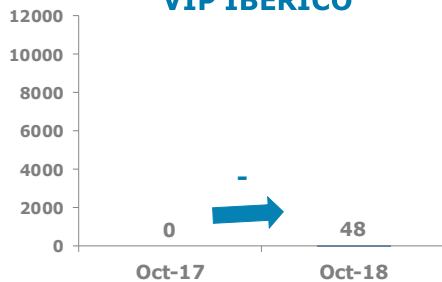
## Imports

Unit: GWh

### VIP PIRINEOS



### VIP IBÉRICO

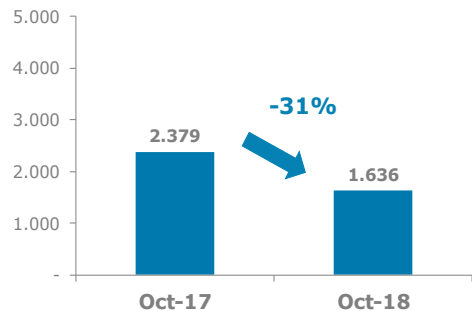


# INTERCONNECTION POINTS

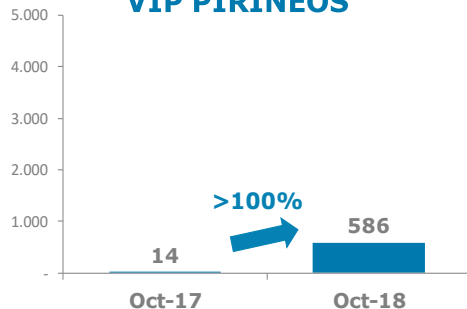


## Exports

Unit: GWh **VIP IBÉRICO**



**VIP PIRINEOS**



# INTERCONNECTION POINTS

## Balance



Unidad: GWh	Monthly Record			Monthly Mobile Anual Record		
	Oct-17	Oct-18	$\Delta$ over/Oct-17	Year 2018	MAT Nov-17/Oct-18	$\Delta$ s/MAT
Tarifa GME	9.664	5.242	-46%	90.494	109.537	26,6%
Almería MEDGAZ	6.818	7.159	5%	64.586	78.426	4,9%
VIP PIRINEOS	4.199	3.809	-9%	21.704	28.333	-34,4%
VIP IBÉRICO	-2.379	-1.589	-33%	-20.037	-24.447	-18,1%
Gas Nacional	16	109	563%	777	812	93,9%
<b>TOTAL</b>	<b>18.319</b>	<b>14.730</b>	<b>-20%</b>	<b>157.524</b>	<b>192.662</b>	<b>10,1%</b>

(+) Entry flows; (-) Exit flows

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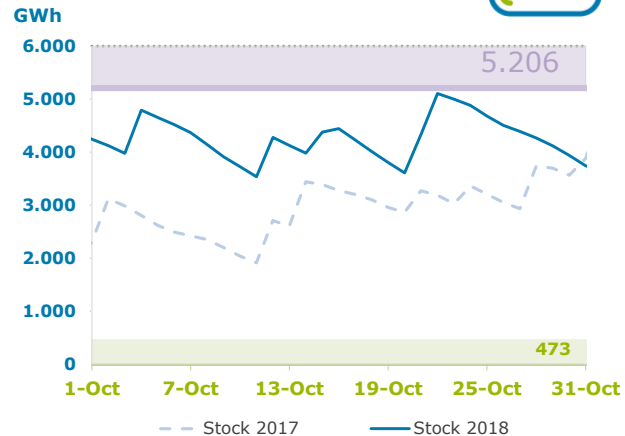
## **6. Operating notes**



# ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	154	163
LNG Trucks	GWh/day	10	10
% average contract vs. nominal		29%	31%
% average contract use		74%	92%



2017

2018

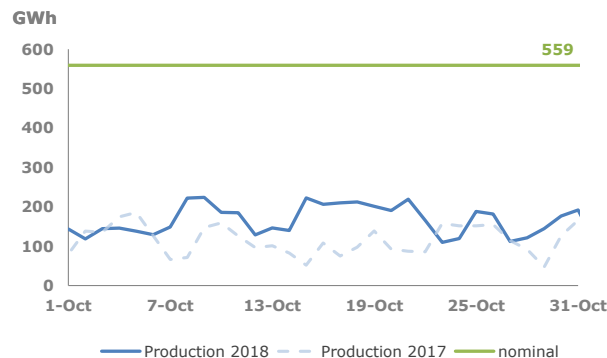
8 LNG Unloaded  
(5.563 GWh)  
0 LNG Loaded  
(0 GWh)



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



Physical production		Oct-17	Oct-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	3.593	5.167



# ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	169	132
LNG Trucks	GWh/day	8	8
% average contract vs. nominal		45%	36%
% average contract use		83%	77%

2017

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

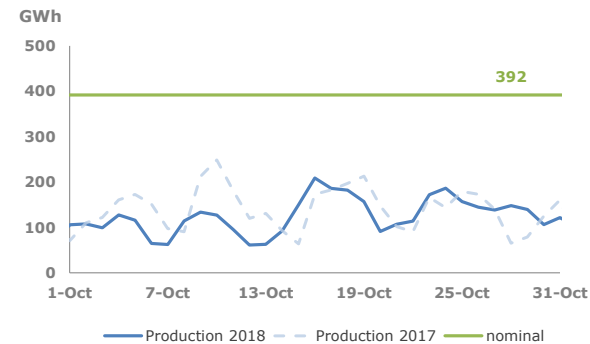
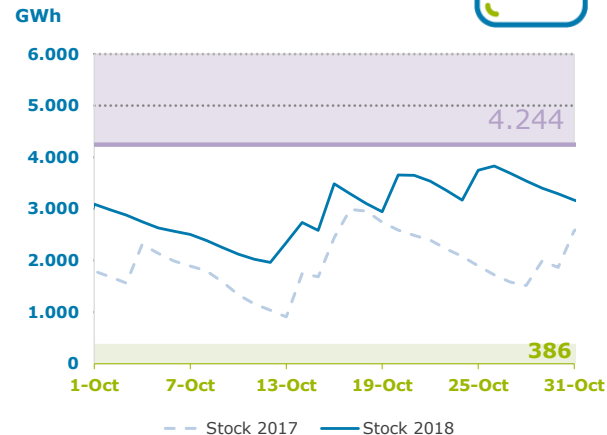


2018

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



Physical production		Oct-17	Oct-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	4.361	3.878



# ACTIVITY AT CARTAGENA PLANT

Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	13	36
LNG Trucks	GWh/day	5	8
% average contract vs. nominal		4%	11%
% average contract use		97%	95%

2017

3 LNG Unloaded  
(1.819 GWh)  
1 LNG Loaded  
(987 GWh)

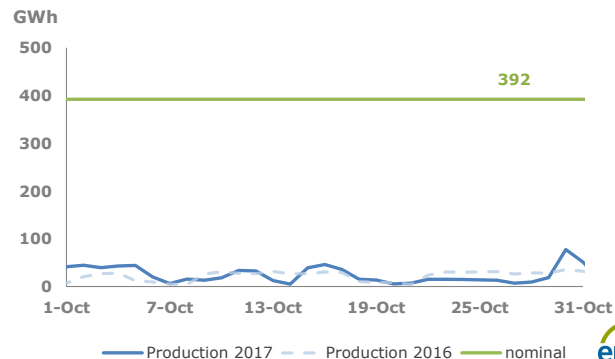
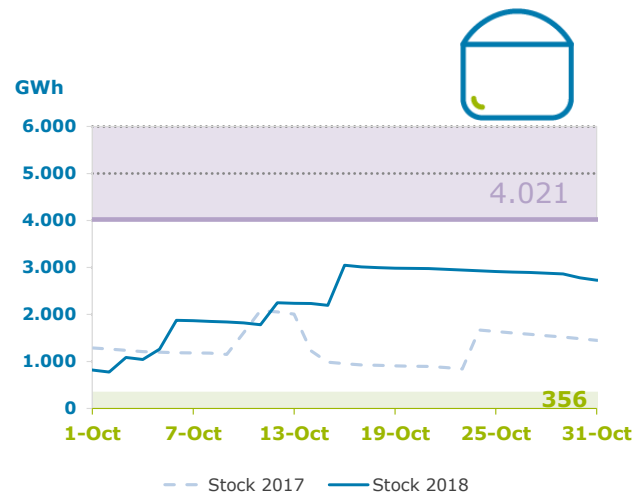


2018

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



Physical production			Oct-17	Oct-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	703	767



# ACTIVITY AT BILBAO PLANT

Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	96	101
LNG Trucks	GWh/day	2	3
% average contract vs. nominal		43%	45%
% average contract use		81%	86%

2017

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

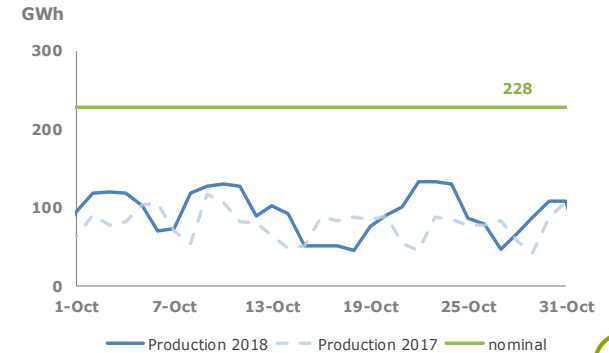
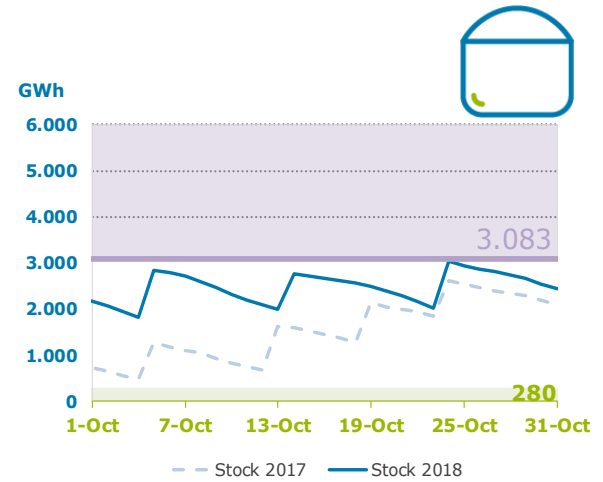


2018

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



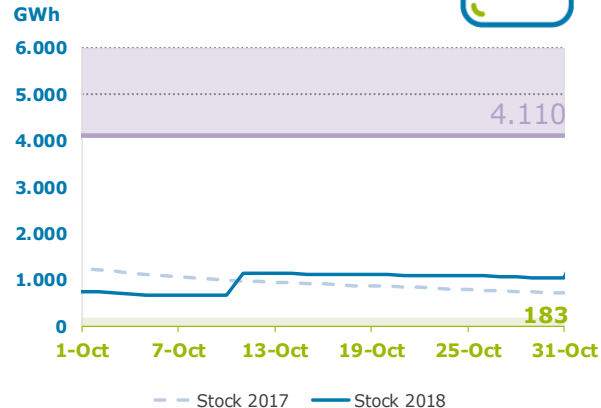
Physical production			Oct-17	Oct-18
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	<b>Total</b>	<b>GWh/day</b>	<b>228</b>	<b>228</b>
Monthly production		GWh	2.433	2.924



# ACTIVITY AT SAGUNTO PLANT

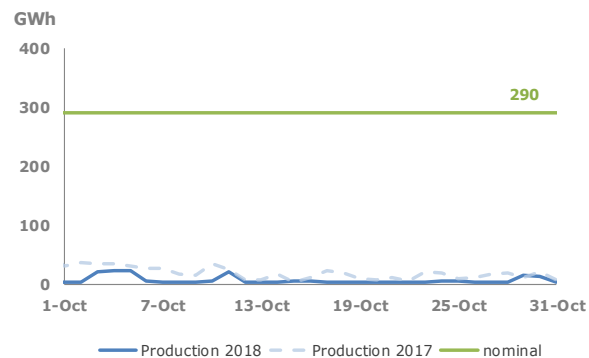


Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	10	0
LNG Trucks	GWh/day	6	2
% average contract vs. nominal		6%	1%
% average contract use		84%	76%



<u>2017</u>	<u>2018</u>
0 LNG Unloaded (0 GWh)	1 LNG Unloaded (494 GWh)
0 LNG Loaded (0 GWh)	0 LNG Loaded (0 GWh)

Physical production		Oct-17	Oct-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>565</b>	<b>218</b>



# ACTIVITY AT MUGARDOS PLANT



Contract information (Average value)		Oct-17	Oct-18
Send-out	GWh/day	51	55
LNG Trucks	GWh/day	4	4
% average contract vs. nominal		44%	47%
% average contract use		82%	86%

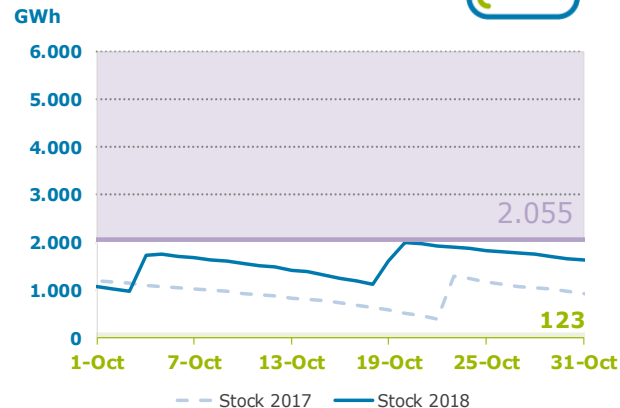
2017

2018

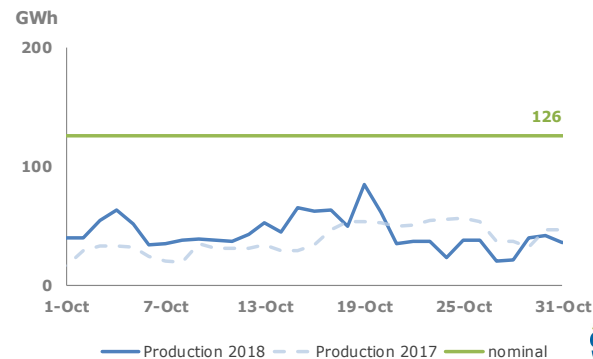
1 LNG Unloaded  
(938 GWh)  
1 LNG Loaded  
(23 GWh)



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



Physical production		Oct-17	Oct-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	1.188	1.365



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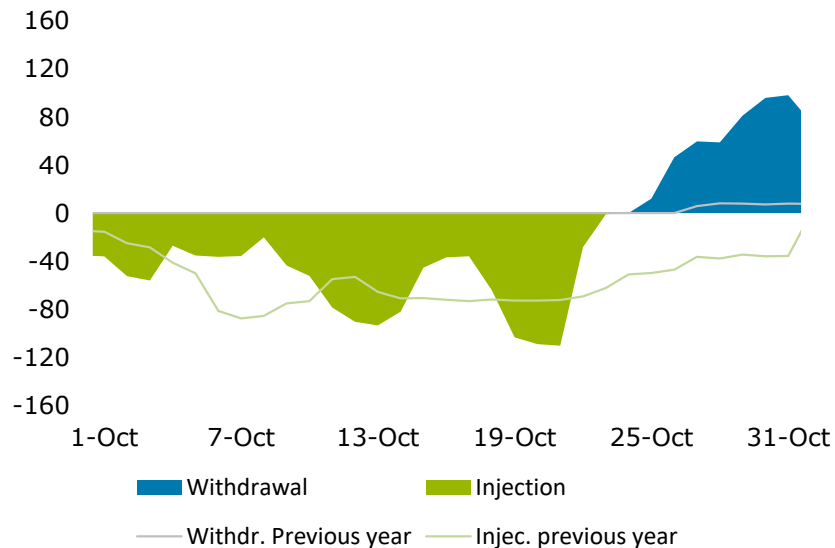
## **6. Operating notes**

# UNDERGROUND STORAGE



## Injection season

GWh/day



**Injection 2018**  
1.279 GWh

Injection 2017  
1.784 GWh

**23.523  
GWh**

**Booked capacity**

**Withdrawal 2018**  
454 GWh

Withdrawal 2017  
37 GWh



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# OPERATING NOTES

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



