



Statistical bulletin

Technical Management of the System

December 2017

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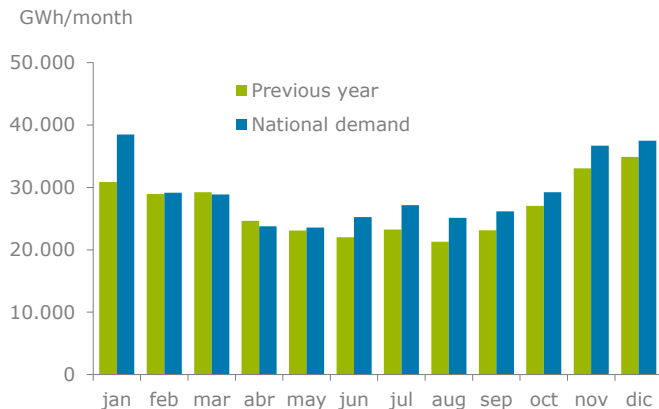
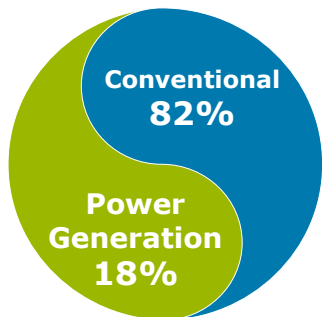
5. Underground storage

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NATURAL GAS DEMAND FOLLOW-UP

Unit : GWh	Month	% Δ Month	Year 2017	% Δ Year	MAT	% Δ 2016
	1 st to 31 st December		Year 2017		1 st January 2017 to 31 st December 2017	
<i>National Demand</i>	37.487	7,3%	350.896	9,1%	350.896	9,1%
- Conventional demand	30.643	10,6%	275.164	5,1%	275.164	5,1%
- NG for Power Generation	6.843	-5,2%	75.732	26,8%	75.732	26,8%
<i>International Demand</i>						
- International connections exports	2.467	-20,9%	30.745	-28,3%	30.745	-28,3%
- LNG Vessel loading	16		1.052	-23,7%	1.052	-23,7%
TOTAL	39.969	5,0%	382.694	4,6%	382.694	4,6%

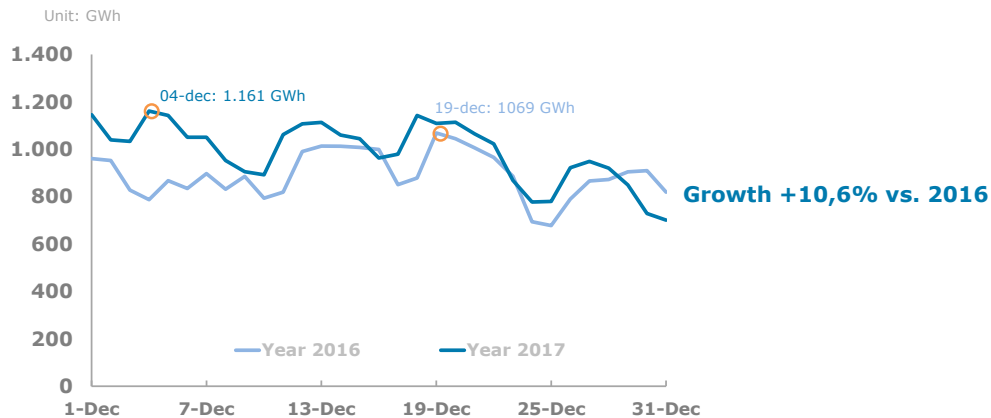
National demand
December - 2017



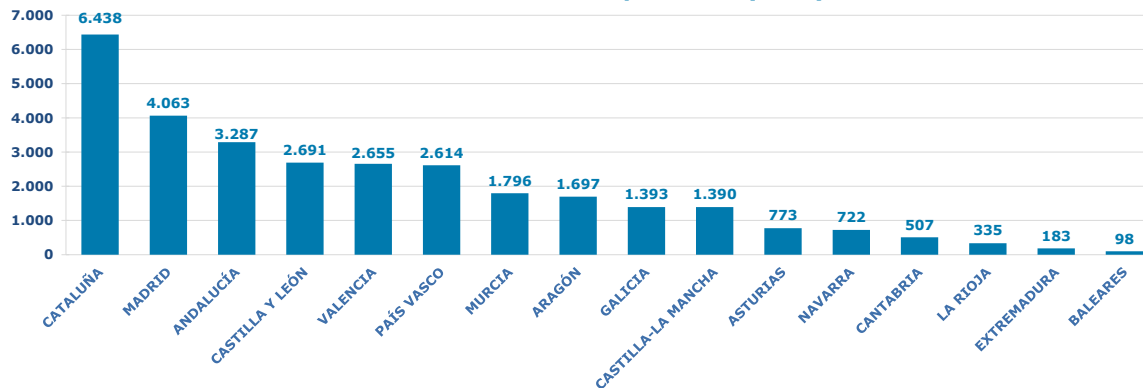
CONVENTIONAL DEMAND

Growth per region

Comparison 2016 - 2017



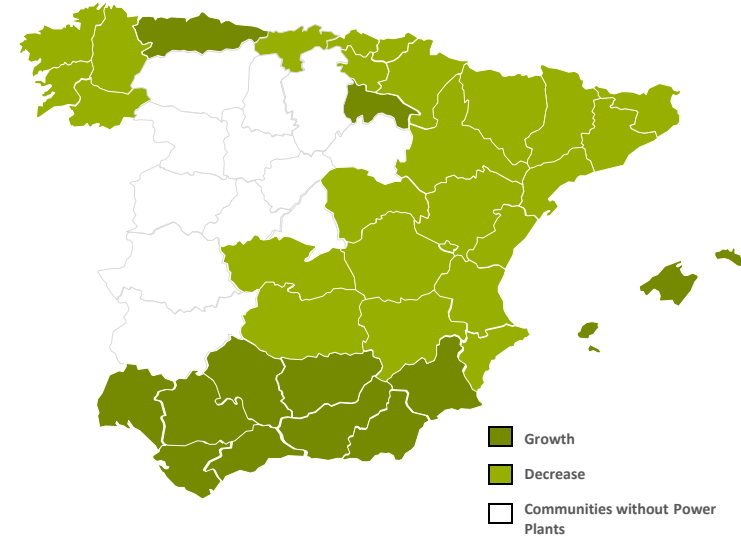
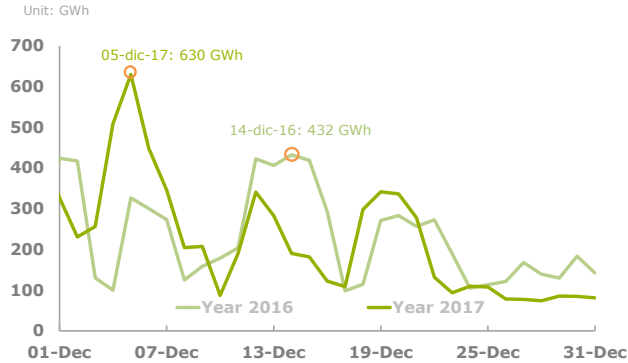
Conventional demand per CCAA (GWh)



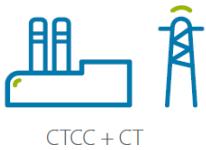
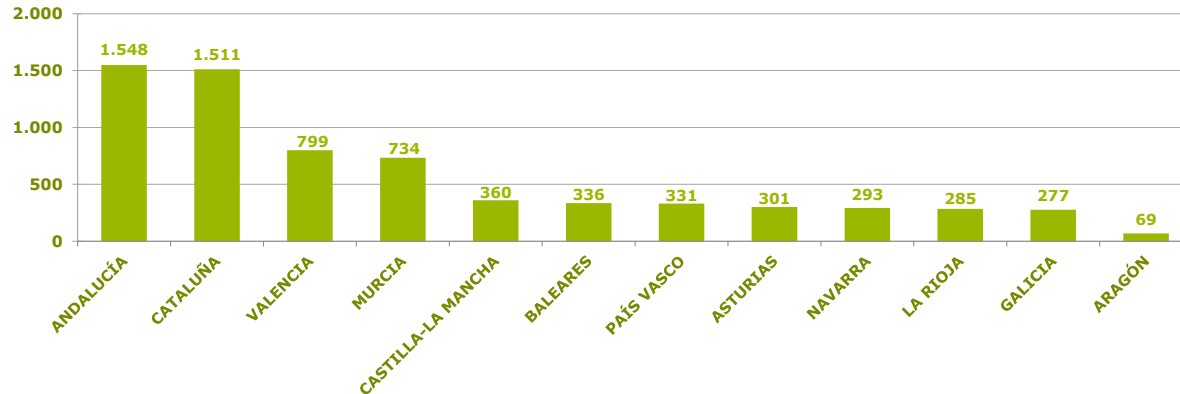
NATURAL GAS FOR POWER GENERATION

Growth per region

Comparison 2016 - 2017

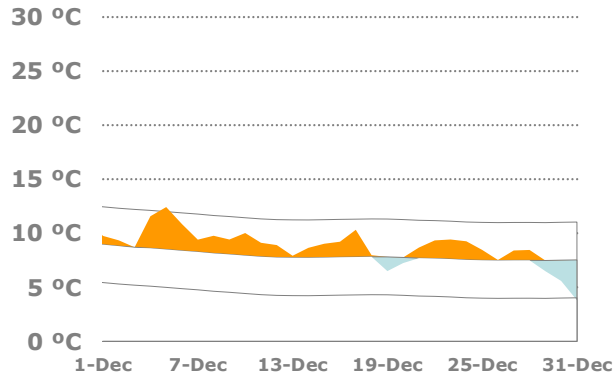


NG for Power Generation (GWh)

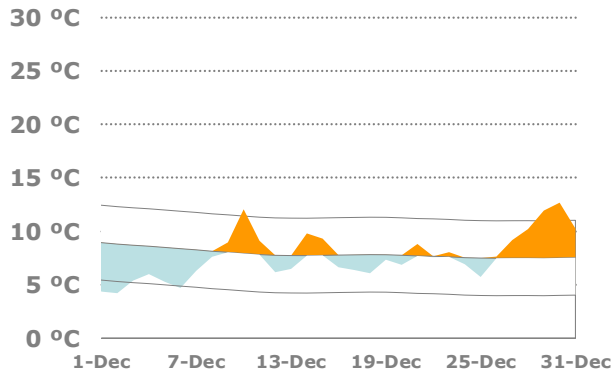


DEMAND - TEMPERATURES

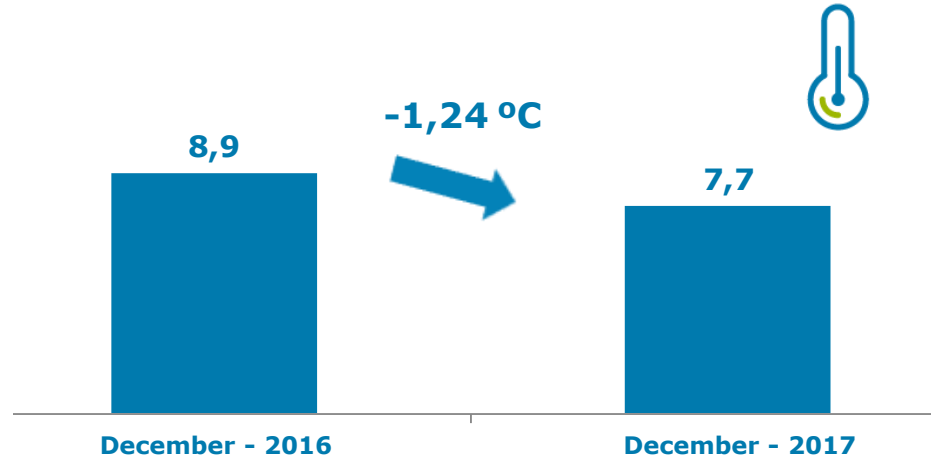
Temperatures 2016



Temperatures 2017



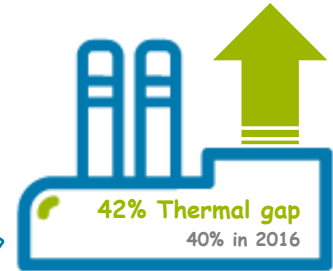
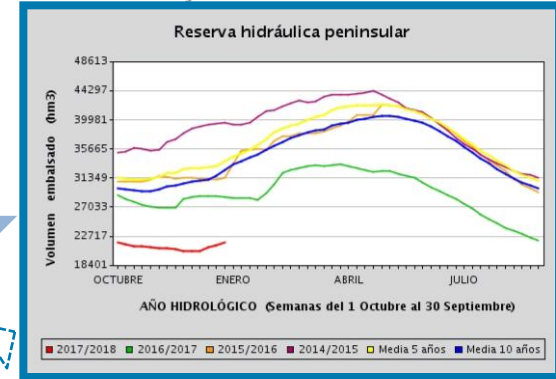
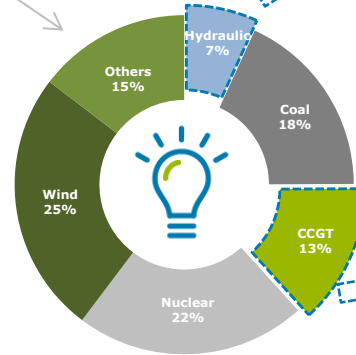
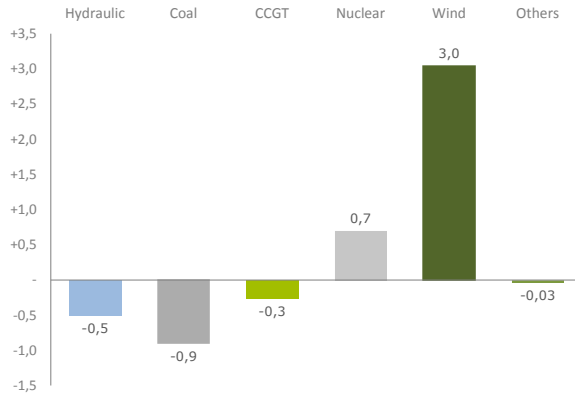
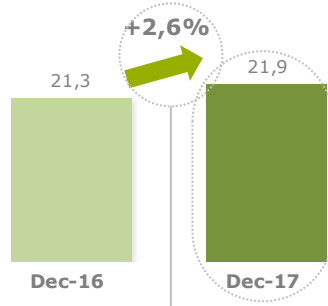
- Temperatures have been colder during December 2017 in comparison with December 2016
- The average temperature has been **-1,24°C** lower than the average of December 2016



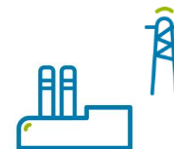
GAS FOR POWER GENERATION

TRANSMISSION DEMAND DECEMBER-17 VS. DECEMBER-16

Unit: TWh (e)



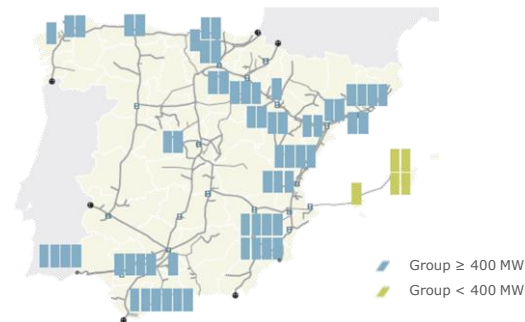
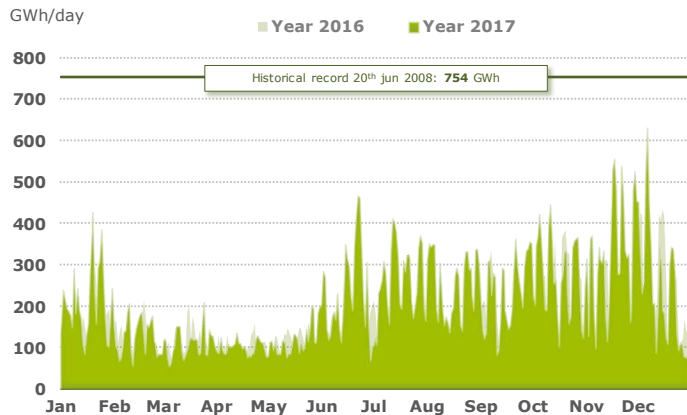
GAS FOR POWER GENERATION



Unit: GWh	Monthly record			Mobile Annual Total record		
	dec-2016	dec-2017	Δ s/dec-2016	Year 2016	MAT jan-17/dec-17	Δ over/Year 2016
NG for Power Generation	7.218	6.842	-5%	59.709	75.732	+27%
- Thermal Power Plants	10	22	+115%	180	228	+27%
- CCGT 's	7.207	6.820	-5%	59.529	75.504	+27%
Installed power MW	26.251	26.251	-	26.251	26.251	-
Maximum daily consumption	432	630	+46%	476	630	+32%
	14-Dec-16	05-Dec-17		16-Nov-16	05-Dec-17	
Minimum daily consumption	98	74	-25%	51	56	+9%
	17-Dec-16	28-Dec-17		27-Feb-16	04-Mar-17	
% Generation mix	16%	13%	-2,6 ptos	11%	14%	+3,3 ptos
% Thermal Gap *	40%	42%	+2,8 ptos	42%	44%	+1,9 ptos

TPPCC 's

* Thermal gap=CCGT 's+Coal



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ORIGIN OF SUPPLIES



Unit: GWh		Monthly record		Mobile Annual Total record		
		Dec-16	Dec-17	Year 2016	MAT Jan-17/Dec-17	%
Algeria	NG	15.732	16.724	173.537	161.243	48%
	LNG	3.496	3.307	33.499	26.767	
Nigeria	LNG	5.927	1.855	52.762	48.592	12%
Qatar	LNG	3.602	5.007	28.943	38.977	10%
T&T	LNG	-	-	7.660	6.117	2%
Peru	LNG	5.179	4.711	19.797	39.441	10%
France	NG	4.127	3.685	37.574	44.084	11%
Angola	LNG	1.040	-	1.040	3.111	0,8%
United States	LNG	-	1.017	846	8.543	2%
Norway	LNG	918	919	8.667	10.070	3%
Egypt	LNG	-	-	-	1.127	0,3%
National	NG	39	27	675	419	0,1%
Portugal	NG	8	-	8	15	0,00%
Netherlands	LNG	-	-	-	1.198	0,3%
TOTAL		40.068	37.252	365.006	389.703	100%

National NG includes the withdrawal from national fields and biogas

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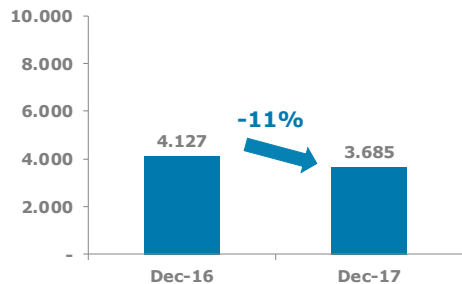
INTERCONNECTION POINTS



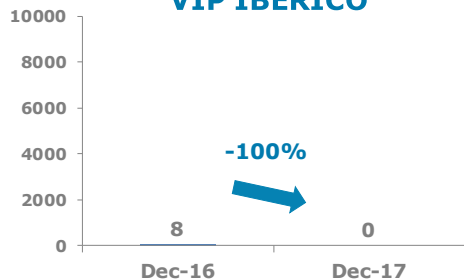
Imports

Unit: GWh

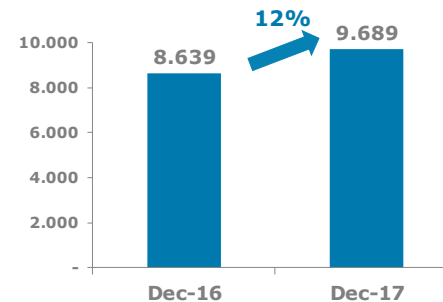
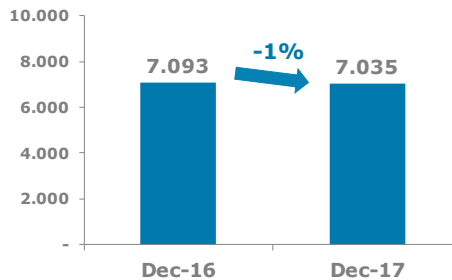
VIP PIRINEOS



VIP IBÉRICO



ALMERÍA



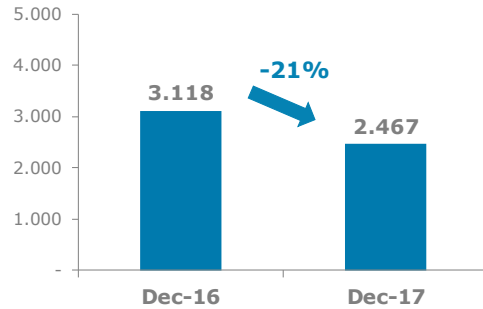
INTERCONNECTION POINTS



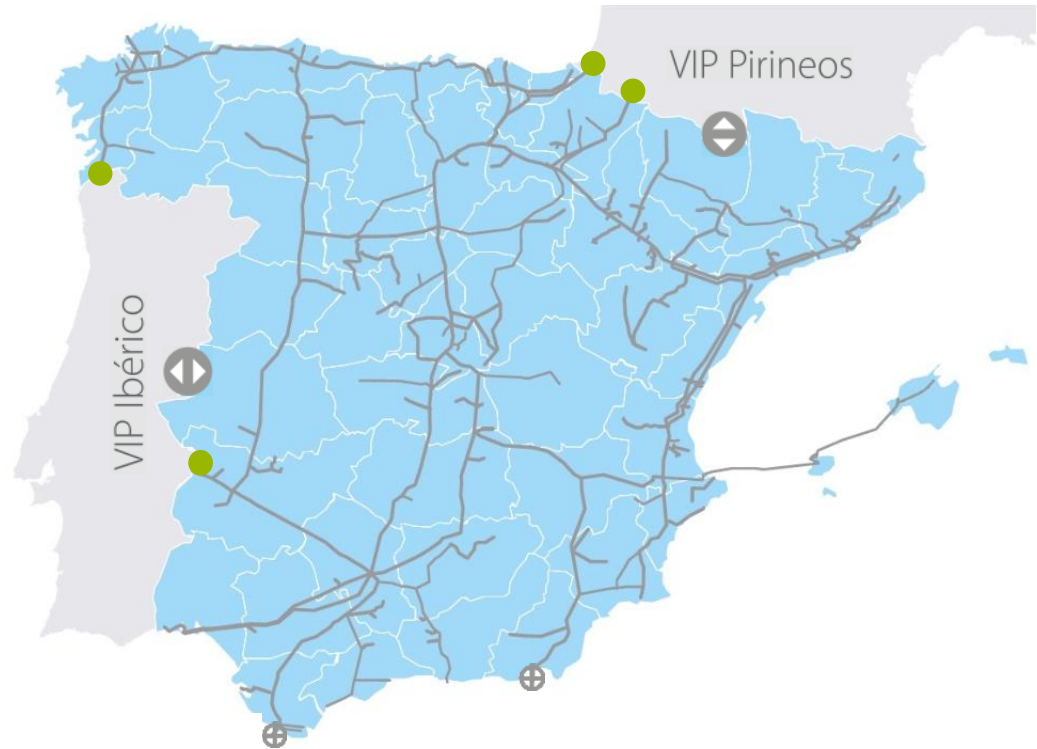
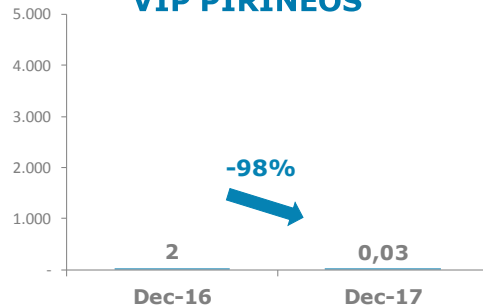
Exports

Unit: GWh

VIP IBÉRICO



VIP PIRINEOS



INTERCONNECTION POINTS

Balance



	Monthly record			Mobile Annual Total record		
Unit: GWh	Dec-16	Dec-17	Δ s/Dec-16	Year 2016	MAT Jan- 17/Dec-17	Δ s/MAT
Tarifa GME	8.639	9.689	12%	97.920	86.497	-11,7%
Almería MEDGAZ	7.093	7.035	-1%	75.617	74.746	-1,2%
VIP PIRINEOS	4.126	3.685	-11%	30.992	43.192	39,4%
VIP IBÉRICO	-3.110	-2.467	-21%	-36.281	-29.839	-17,8%
National Gas	39	27	-32%	675	419	-37,9%
TOTAL	16.787	17.969	7%	168.923	175.015	3,6%

(+) Entry flows; (-) Exit flows

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ACTIVITY AT BARCELONA PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	144	247
LNG Trucks	GWh/day	7	10
% average contract vs. nominal		27%	46%
% average contract use		81%	76%

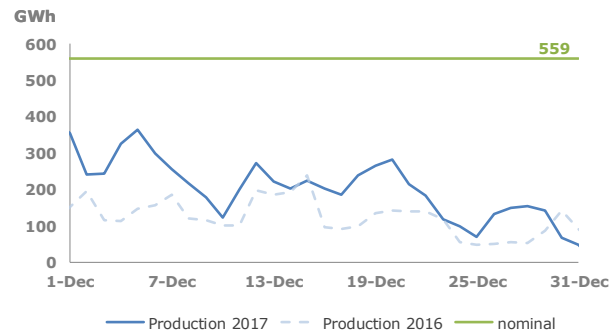
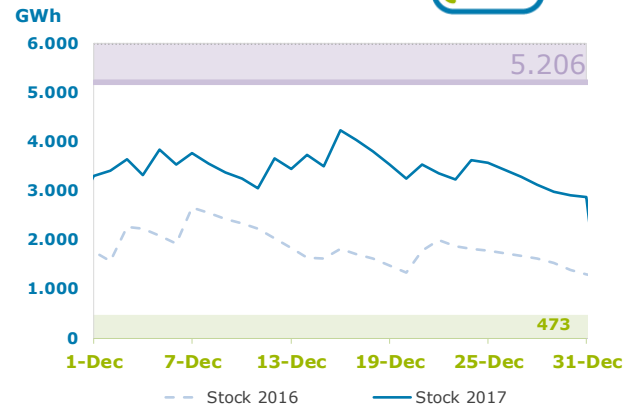
2016

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



2017

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



Physical production			Dec-16	Dec-17
Nominal	Send-out	GWh/day	544	544
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	559	559
Monthly production		GWh	3.821	6.251

ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	152	216
LNG Trucks	GWh/day	8	8
% average contract vs. nominal		41%	57%
% average contract use		84%	78%

2016

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

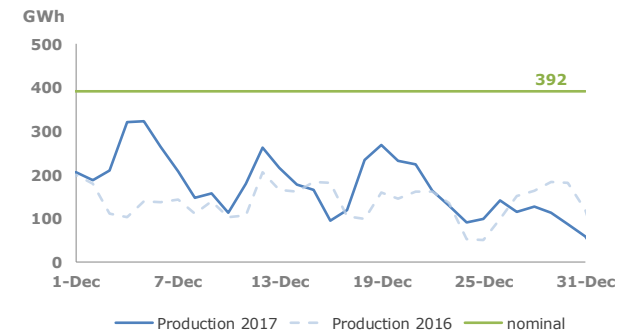
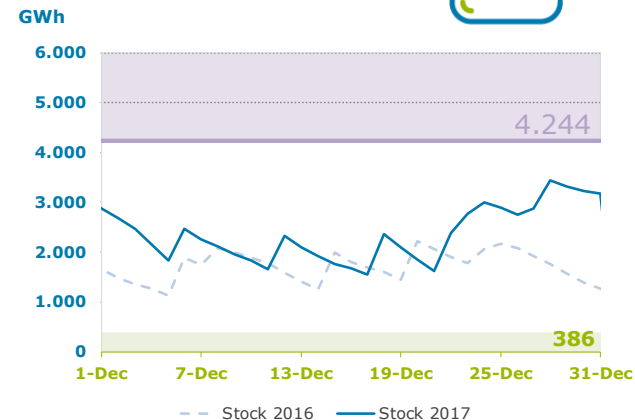


2017

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



Physical production		Dec-16	Dec-17	
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production	GWh	4.329	5.429	



ACTIVITY AT CARTAGENA PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	48	23
LNG Trucks	GWh/day	7	7
% average contract vs. nominal		14%	8%
% average contract use		92%	98%

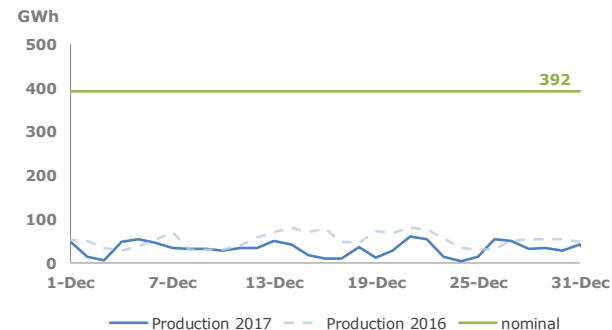
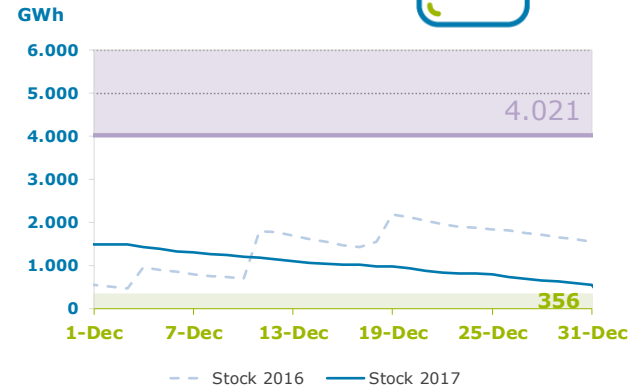
2016

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



2017

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



Physical production		Dec-16	Dec-17	
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production		GWh	1.591	978

ACTIVITY AT BILBAO PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	84	107
LNG Trucks	GWh/day	1	2
% average contract vs. nominal		37%	48%
% average contract use		89%	81%

2016

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

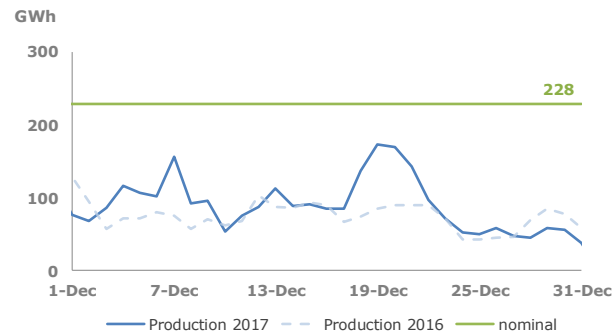
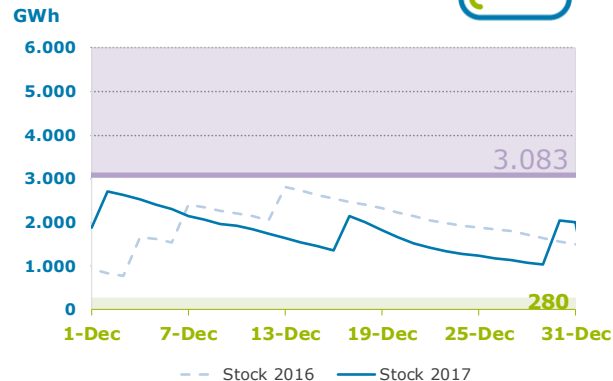


2017

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



Physical production			Dec-16	Dec-17
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	Total	GWh/day	228	228
Monthly production		GWh	2.326	2.771



ACTIVITY AT SAGUNTO PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	138	62
LNG Trucks	GWh/day	6	6
% average contract vs. nominal		50%	24%
% average contract use		99%	84%

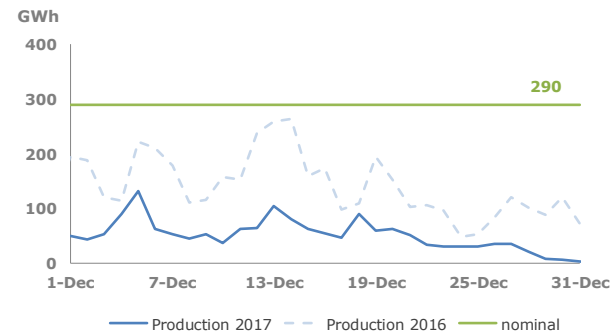
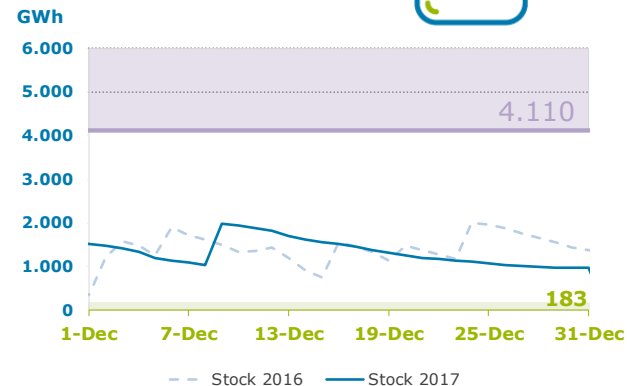
2016

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



2017

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



Physical production		Dec-16	Dec-17	
Nominal	Send-out	GWh/day	279	279
	LNG Trucks	GWh/day	10	10
	Total	GWh/day	290	290
Monthly production	GWh	4.397	1.573	

ACTIVITY AT MUGARDOS PLANT



Contract information (Average value)		Dec-16	Dec-17
Send-out	GWh/day	35	31
LNG Trucks	GWh/day	6	4
% average contract vs. nominal		33%	28%
% average contract use		85%	97%

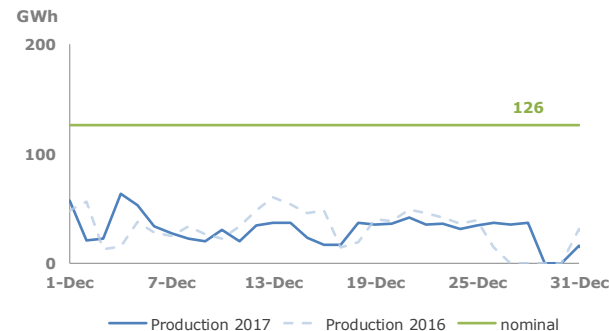
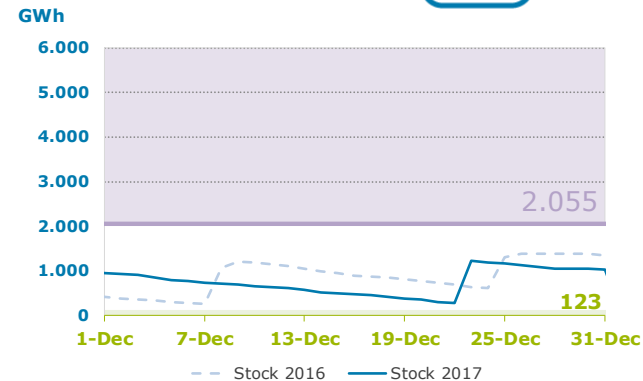
2016

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



2017

1 LNG Unloaded
(988 GWh)
1 LNG Loaded
(16 GWh)



Physical production		Dec-16	Dec-17	
Nominal	Send-out	GWh/day	115	115
	LNG Trucks	GWh/day	10	10
	Total	GWh/day	126	126
Monthly production		GWh	965	942

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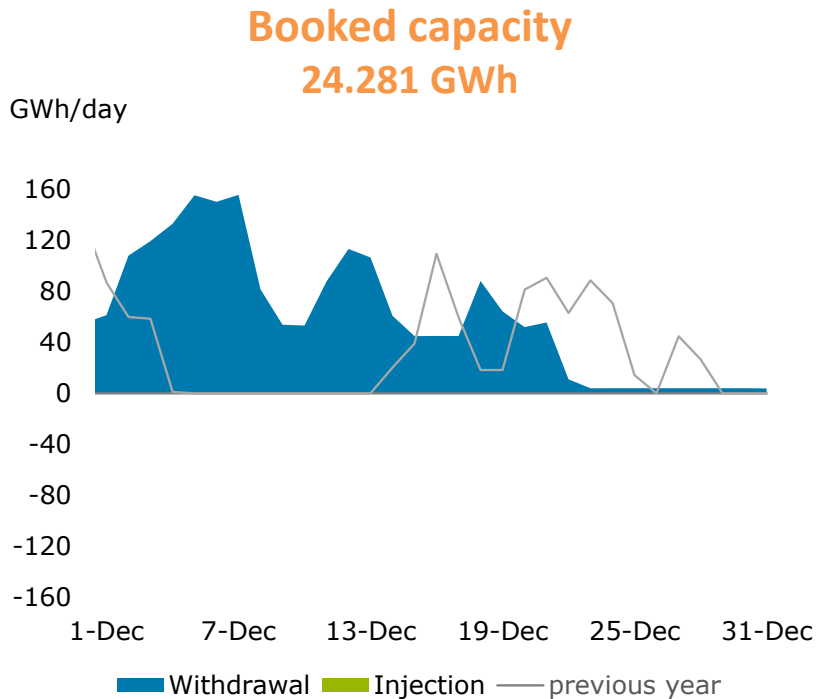
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UNDERGROUND STORAGE



Withdrawal season



Withdrawal 2017
1.889 GWh

Withdrawal 2016
873 GWh

22.068
TWh

Useful physical stock
31st December

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OPERATING NOTES

2 Operating Notes were published during December 2017

- Operating Note 04: Northwest Area Transport (12/12/2017)
- Operating Note 05: Unavailability of the Reganosa Plant for electrical supply maintenance (15/06/2017)



The Operating notes can be checked at the [Enagás Website](#)

