



Statistical bulletin

Technical Management of the System

November 2017

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1. Demand for natural gas

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Consumption by geographic location

2. Origins of supplies

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4. Regasification Plants

Discharges and charges of methane carriers

Production at regasification plants

Activity detail by LNG plant

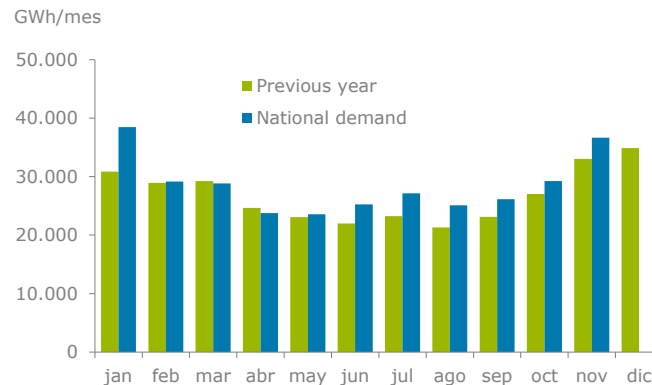
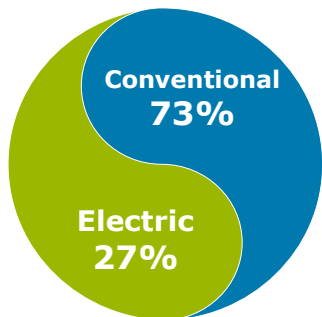
5. Underground storages

6. Operation notes

TRACKING OF GAS OUTPUTS

Unit : GWh	Month	% Δ Month	Year 2017	% Δ Year	MAT	% Δ 2016
	1 to 30 of November		Year 2017		1 december 2016 to 30 november 2017	
<i>National Demand</i>	36.713	11,0%	313.410	9,3%	348.344	8,3%
- Conventional national	26.762	4,6%	244.521	4,4%	272.238	4,0%
- NG for Power Generation	9.952	32,8%	68.889	31,2%	76.106	27,5%
<i>International Demand</i>						
-International conexions exports	1.984	-44,4%	28.278	-28,9%	31.398	-26,8%
-LNG Vessel loading	24	-18,1%	1.037	-24,9%	1.037	-24,9%
TOTAL	38.721	5,6%	342.724	4,6%	380.779	4,1%

National demand November - 2017

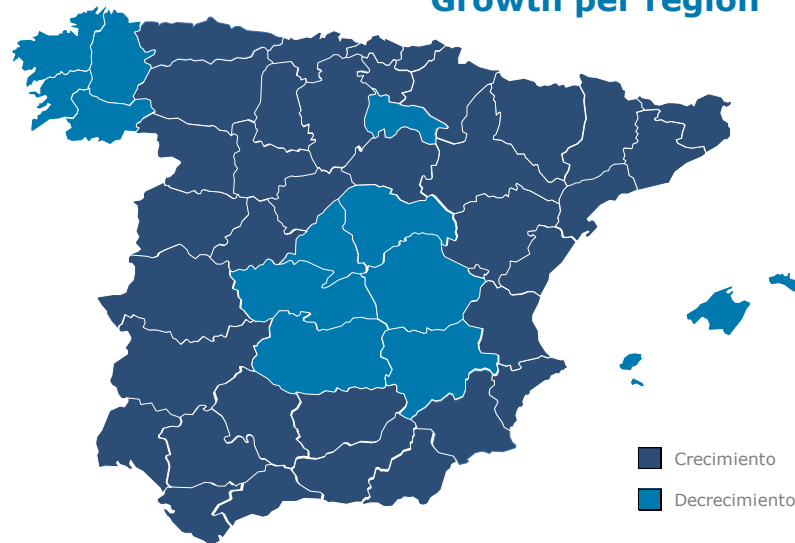
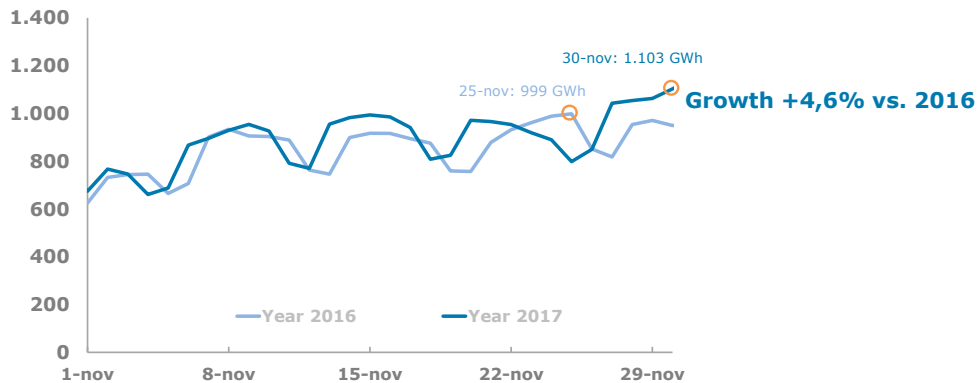


CONVENTIONAL DEMAND

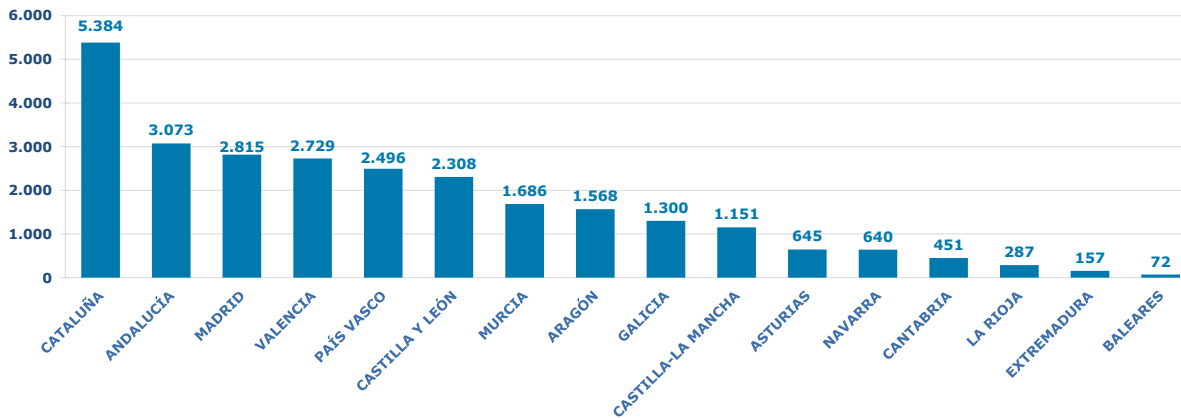
Growth per region

Comparativa 2016 - 2017

Unit: GWh



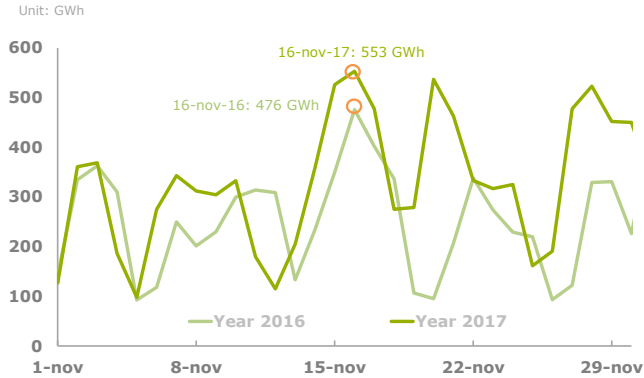
Conventional consumption per CCAA (GWh)



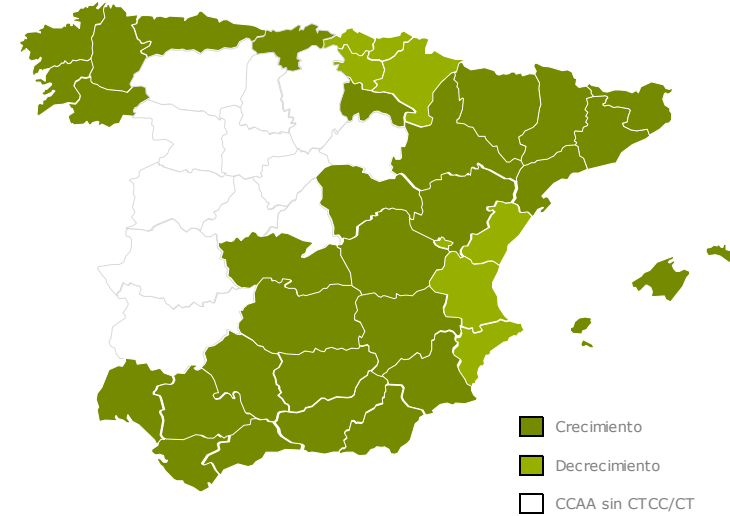
ELECTRIC SECTOR DEMAND

Growth per region

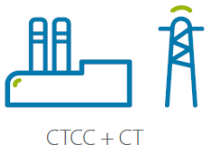
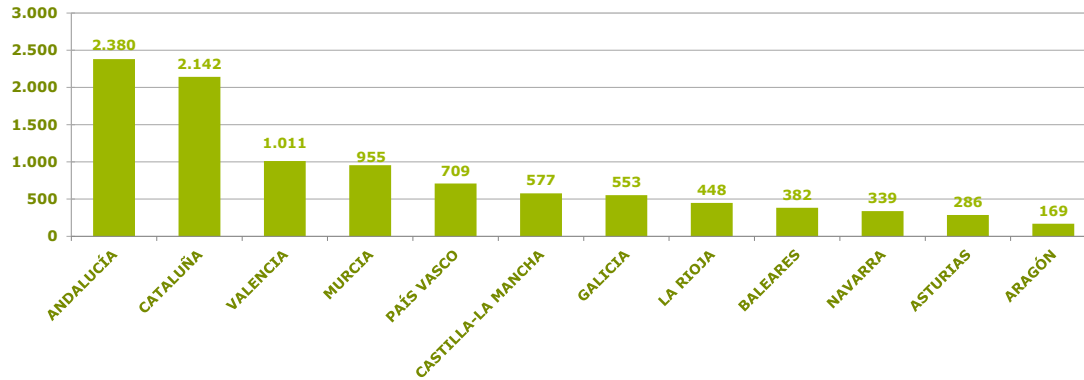
Comparison 2016 - 2017



Growth +32,8% vs. 2016

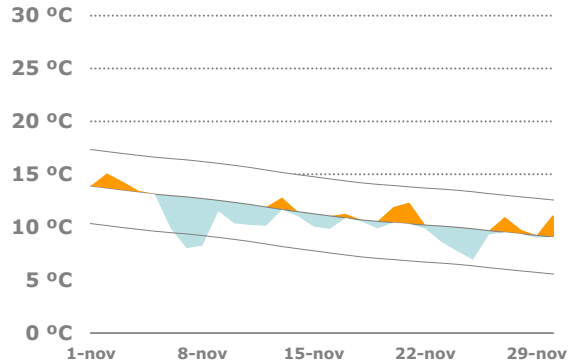


Electric Sector (GWh)

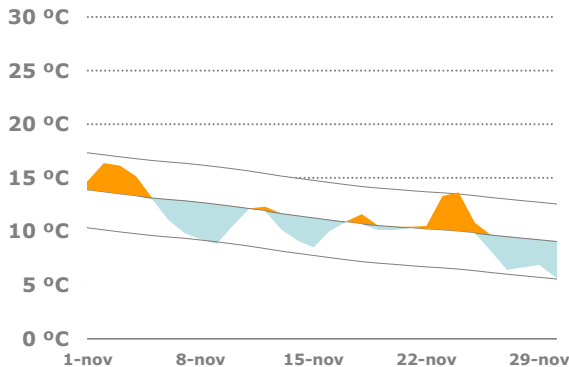


DEMAND - TEMPERATURES

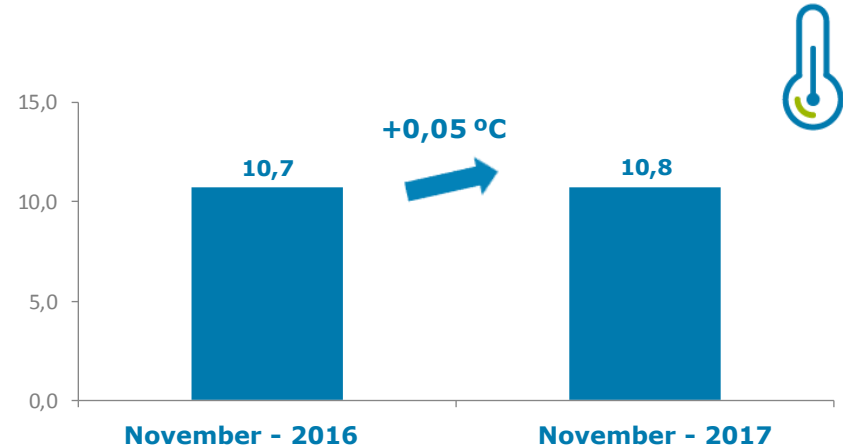
Temperatures 2016



Temperatures 2017



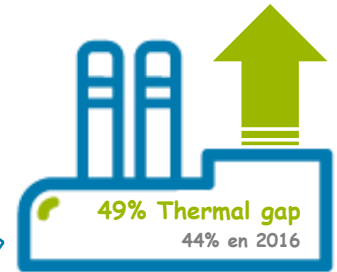
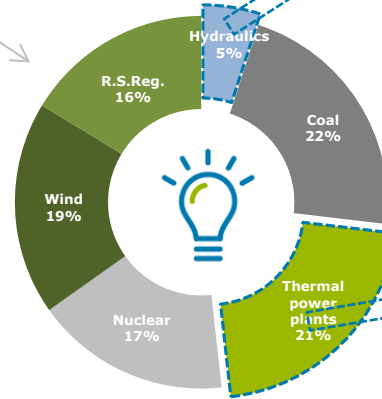
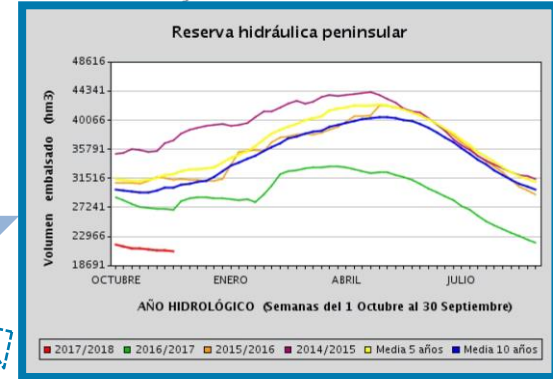
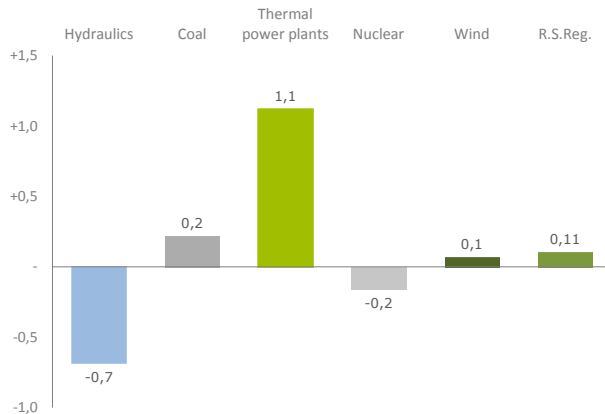
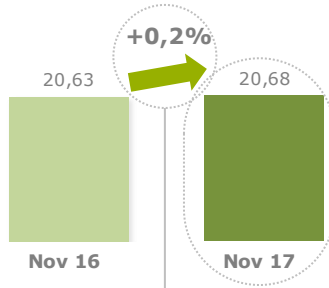
- Temperatures have been slightly warmer during november 2017 in comparison with november 2016
- The average temperature has been **+0,05°C** warmer than the mean from november 2016



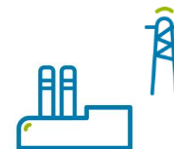
GAS FOR ELECTRICITY PRODUCTION

TRANSMISSION DEMAND NOVEMBER-17 VS. NOVEMBER-16

Unit: TWh (e)



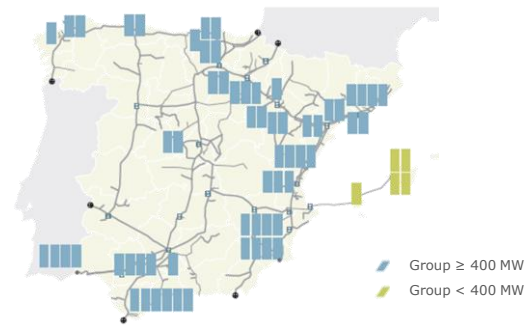
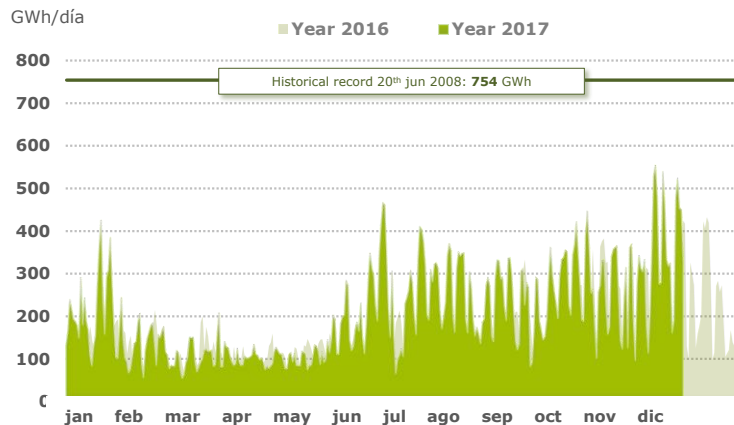
GAS FOR ELECTRICITY PRODUCTION



Unit: GWh	Monthly record			Mobile Annual Fee record		
	nov-16	nov-17	Δ s/nov-16	Year 2016	MAF Dic-16/Nov-17	Δ s/Year 2016
Electric Sector	7.493	9.903	+32%	59.709	76.058	+27%
- Thermal Power Plants	17	23	+41%	180	220	+23%
- Combined Cycles	7.477	9.880	+32%	59.529	75.838	+27%
Installed power MW	26.251	26.251	-	26.251	26.251	-
Daily maximums	476	553	+16%	476	553	+16%
	16-nov-16	16-nov-17		16-nov-16	16-nov-17	
Daily minimums	92	98	+6%	51	56	+9%
	5-nov-16	5-nov-17		27-feb-16	4-mar-17	
% mix generación eléc.	17%	21%	+4,7 pts	11%	14%	+3,2 pts
% en el Hueco Térmico *	44%	49%	+5,8 pts	42%	44%	+1,3 pts

TPPCC's

* Thermal gap=TPPCC's+Coal



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ORIGINS OF SUPPLIES



Unit: GWh		Monthly record		Mobile Annual Total record		fee MAT
		nov-16	nov-17	Year 2016	MAT dic-16/nov-17	
Algelia	GN	16.281	16.160	173.537	160.251	} 48%
	GNL	3.502	2.979	33.499	26.956	
Nigeria	GNL	3.781	2.948	52.762	52.664	13%
Qatar	GNL	1.846	3.633	28.943	37.572	10%
T&T	GNL	-	869	7.660	6.117	2%
Peru	GNL	3.801	5.265	19.797	39.909	10%
France	GN	3.248	2.985	37.574	44.525	11%
Angola	GNL	-	172	1.040	4.151	1,1%
United States	GNL	-	1.963	846	7.526	2%
Norway	GNL	920	1.034	8.667	10.069	3%
Egypt	GNL	-	-	-	1.127	0,3%
National	GN	44	8	675	431	0,1%
Portugal	GN	-	-	8	23	0,01%
Netherlands	GNL	-	-	-	1.198	0,3%
TOTAL		33.423	38.015	365.006	392.519	100%

National NG includes the extraction from national fields and biogas

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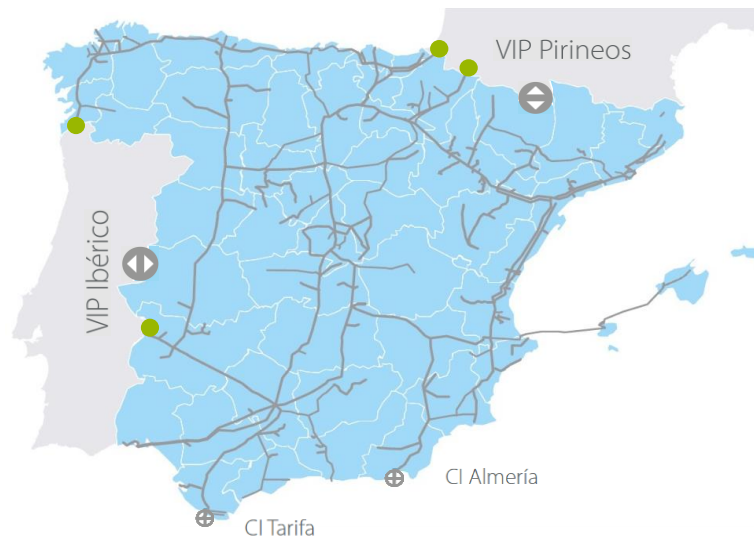
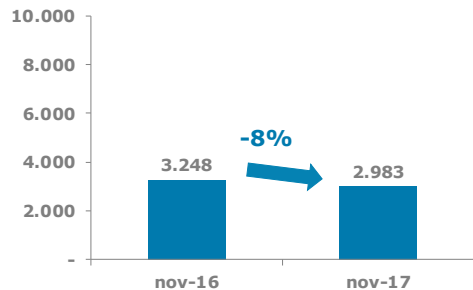
INTERNATIONAL CONECTIONS



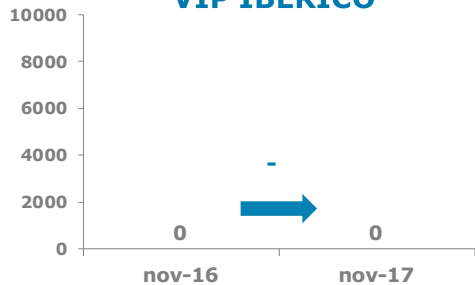
Inlets

Unit: GWh

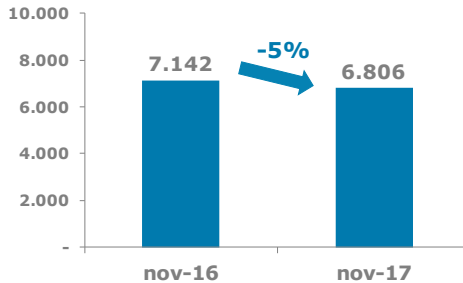
VIP PIRINEOS



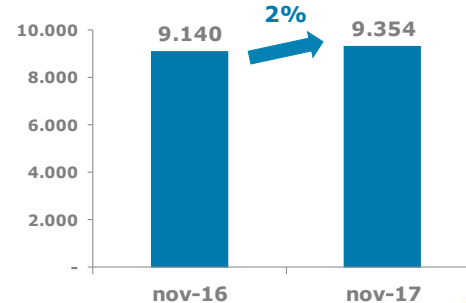
VIP IBÉRICO



ALMERÍA



TARIFA



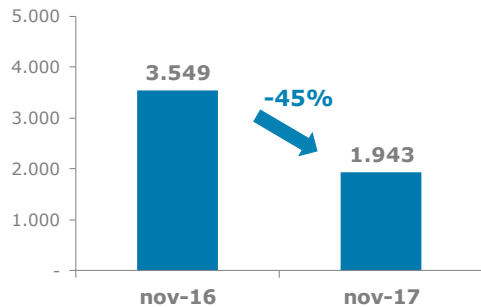
INTERNATIONAL CONECTIONS



Outlets

Unit: GWh

VIP IBÉRICO



VIP PIRINEOS



NG INLETS

Balances



Unit: GWh	Monthly record			Mobile Annual Fee record		
	nov-16	nov-17	Δ s/nov-16	Año 2016	MAF dic- 16/nov-17	Δ s/MAF
Tarifa GME	9.140	9.354	2%	97.920	85.447	-12,7%
Almería MEDGAZ	7.142	6.806	-5%	75.617	74.804	-1,1%
VIP PIRINEOS	3.228	2.944	-9%	30.992	43.632	40,8%
VIP IBÉRICO	-3.549	-1.943	-45%	-36.281	-30.482	-16,0%
National Gas	44	8	-82%	675	431	-36,1%
TOTAL	16.004	17.169	7%	168.923	173.832	2,9%

(+) Inputs to the transmission system; (-) Outputs from the transmission system

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ACTIVITY AT BARCELONA PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	119	236
Tanks	GWh/day	7	10
% mean contracted vs. Nominal		23%	44%
% mean used contracting		98%	93%

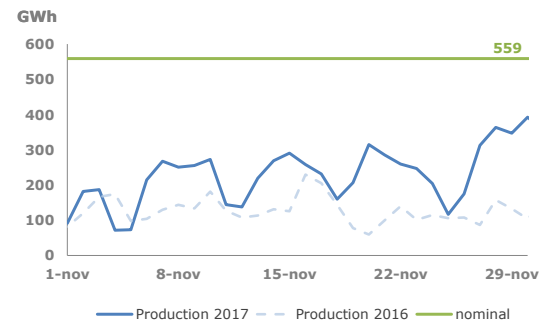
2016

5 Discharges
(3.869 GWh)
0 Charges
(0 GWh)



2017

7 Discharges
(5.499 GWh)
0 Charges
(0 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	544	544
	Tanks	GWh/day	15	15
	Total	GWh/day	559	559
Monthly production		GWh	3.789	6.799

ACTIVITY AT HUELVA PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	152	223
Tanks	GWh/day	8	8
% mean contracted vs. Nominal		41%	59%
% mean used contracting		83%	81%

2016

5 Discharges
(3.366 GWh)
0 Charges
(0 GWh)

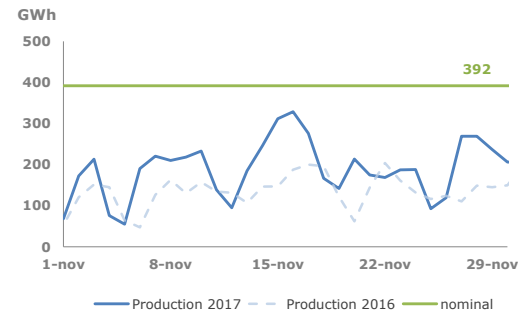
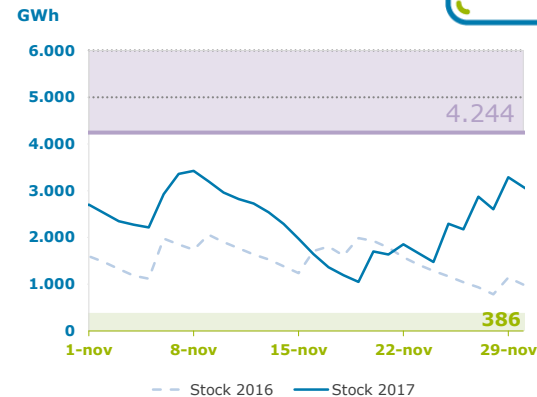


2017

7 Discharges
(6.129 GWh)
0 Charges
(0 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	377	377
	Tanks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production		GWh	4.028	5.632



ACTIVITY AT CARTAGENA PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	28	46
Tanks	GWh/day	7	5
% mean contracted vs. Nominal		9%	13%
% mean used contracting		92%	92%

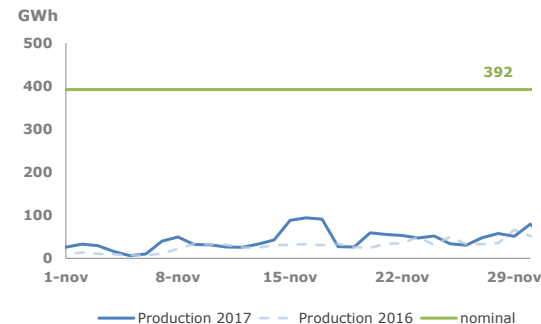
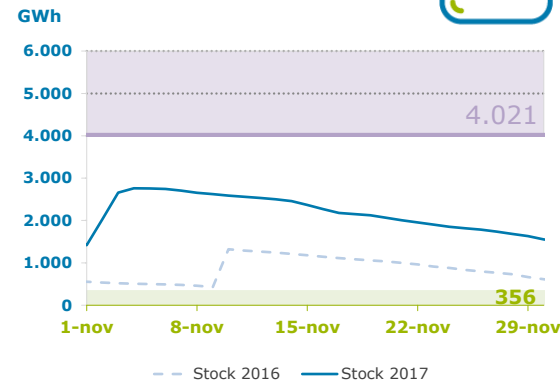
2016

1 Discharge
(924 GWh)
0 Charges
(0 GWh)



2017

2 Discharges
(1.413 GWh)
0 Charges
(0 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	377	377
	Tanks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production		GWh	865	1.292

ACTIVITY AT BILBAO PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	73	99
Tanks	GWh/day	1	2
% mean contracted vs. Nominal		33%	44%
% mean used contracting		90%	87%

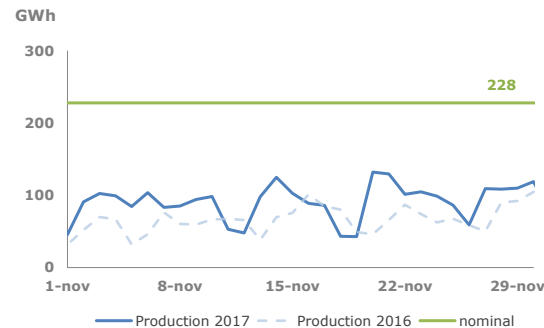
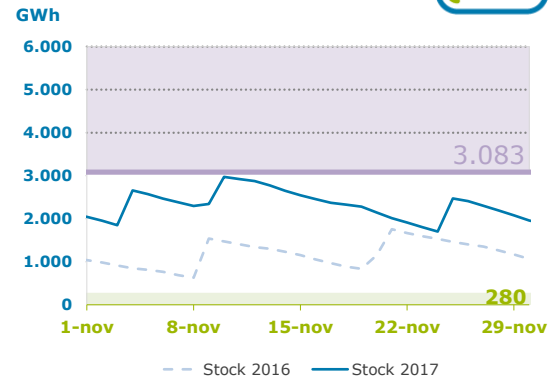
2016

2 Discharges
(1.985 GWh)
0 Charges
(0 GWh)



2017

3 Discharges
(2.574 GWh)
0 Charges
(0 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	223	223
	Tanks	GWh/day	5	5
	Total	GWh/day	228	228
Monthly production		GWh	1.993	2.734

ACTIVITY AT SAGUNTO PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	130	10
Tanks	GWh/day	6	6
% mean contracted vs. Nominal		47%	5%
% mean used contracting		101%	90%

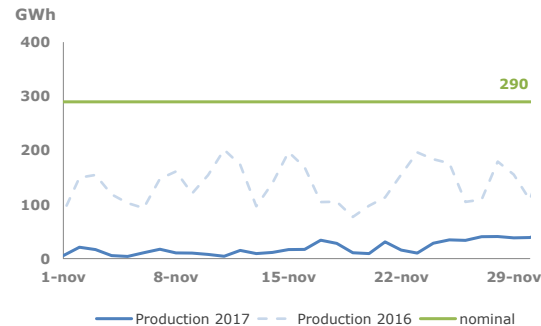
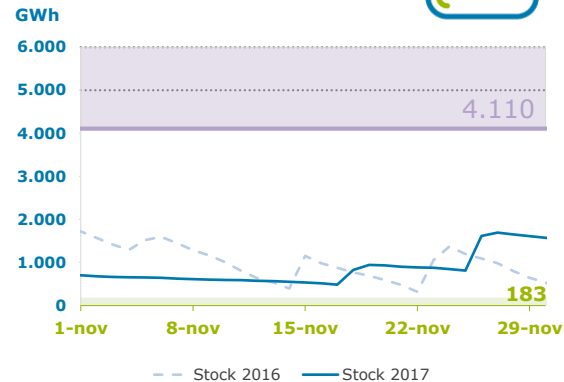
2016

4 Discharges
(2.866 GWh)
0 Charges
(0 GWh)



2017

2 Discharges
(1.431 GWh)
0 Charges
(0 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	279	279
	Tanks	GWh/day	10	10
	Total	GWh/day	290	290
Monthly production		GWh	4.140	582

ACTIVITY AT MUGARDOS PLANT



Contracting information (Average value)		Nov-16	Nov-17
Regasification	GWh/day	35	55
Tanks	GWh/day	6	4
% mean contracted vs. Nominal		33%	47%
% mean used contracting		89%	94%

2016

1 Discharge
(840 GWh)
1 Charge
(29 GWh)

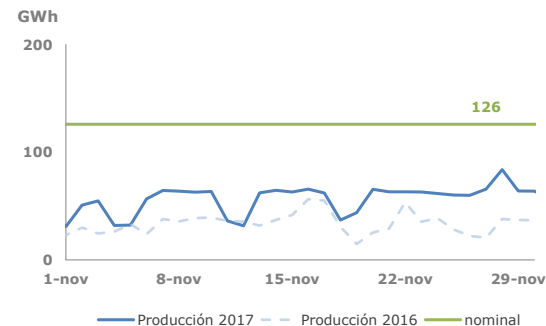
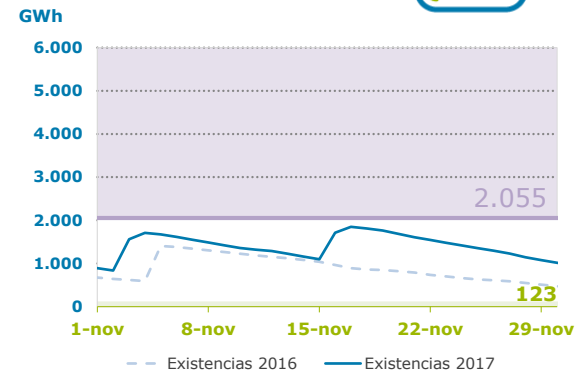


2017

2 Discharges
(1.816 GWh)
1 Charge
(24 GWh)



Physical production		Nov-16	Nov-17	
Nominal	Vaporization	GWh/day	115	115
	Tanks	GWh/day	10	10
	Total	GWh/day	126	126
Monthly production		GWh	1.026	1.695



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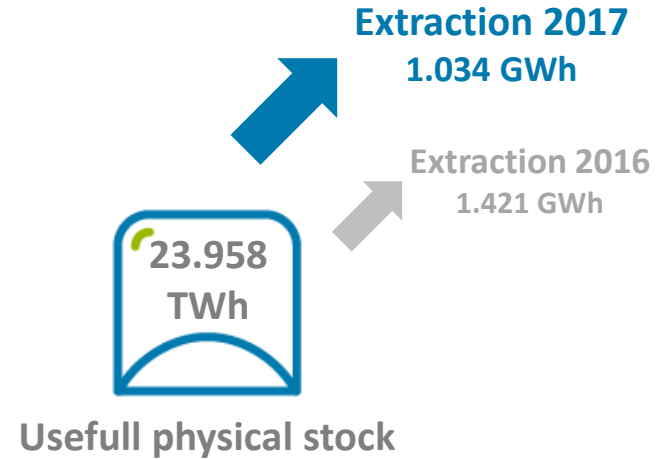
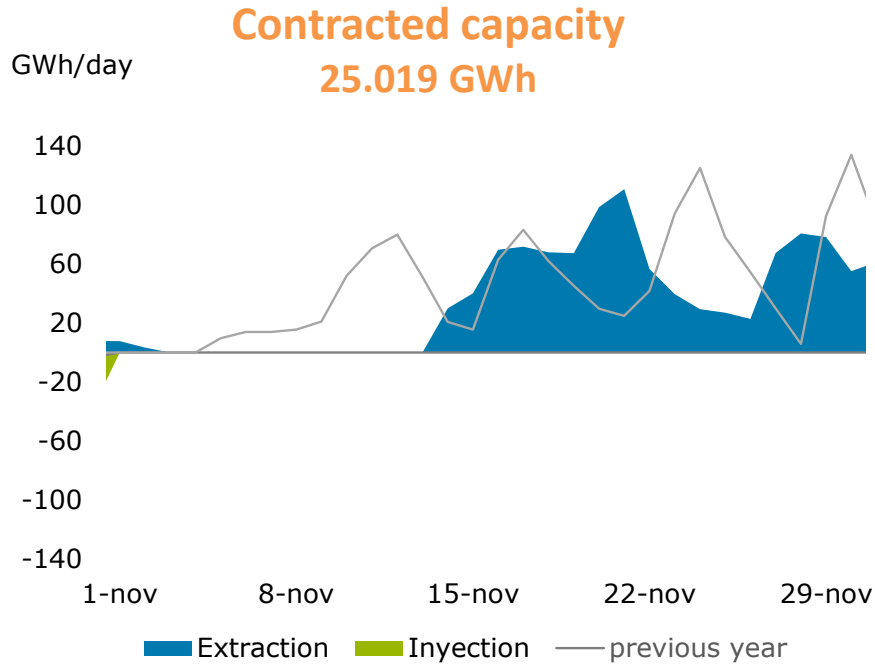
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EXTRACTION CYCLE MONITORING



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OPERATION NOTES

- No Operation notes were published during November 2017



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

