



Statistical bulletin

Technical Management of the System

March 2018

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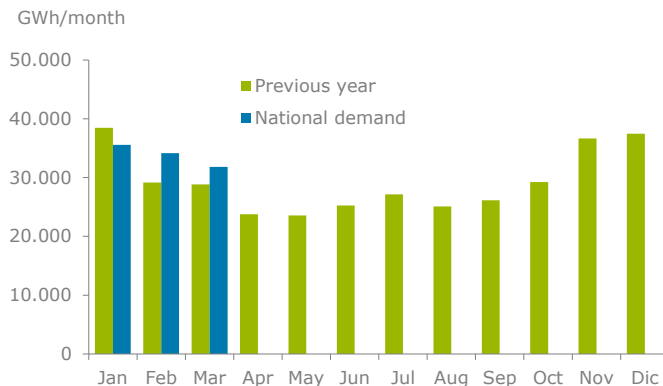
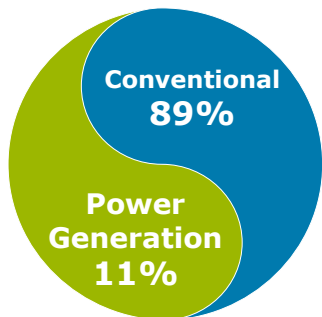
5. Underground storage

6. Operating notes

NATURAL GAS DEMAND FOLLOW-UP

Unit : GWh	Month	% Δ Month	Year 2017	% Δ Year	MAT	% Δ 2016
	1 st to 31 st March		Year 2018		1 st April 2017 to 31 st March 2018	
<i>National Demand</i>	31.818	10,2%	101.559	5,2%	355.915	1,4%
- Conventional demand	28.460	11,8%	88.452	6,5%	280.591	2,0%
- NG for Power Generation	3.358	-1,7%	13.107	-3,0%	75.324	-0,5%
<i>International Demand</i>						
- International connections exports	2.722	-14,1%	6.964	9,4%	31.344	1,9%
- LNG Vessel loading			2.170		3.222	>100%
TOTAL	34.540	7,8%	110.693	7,6%	390.481	2,0%

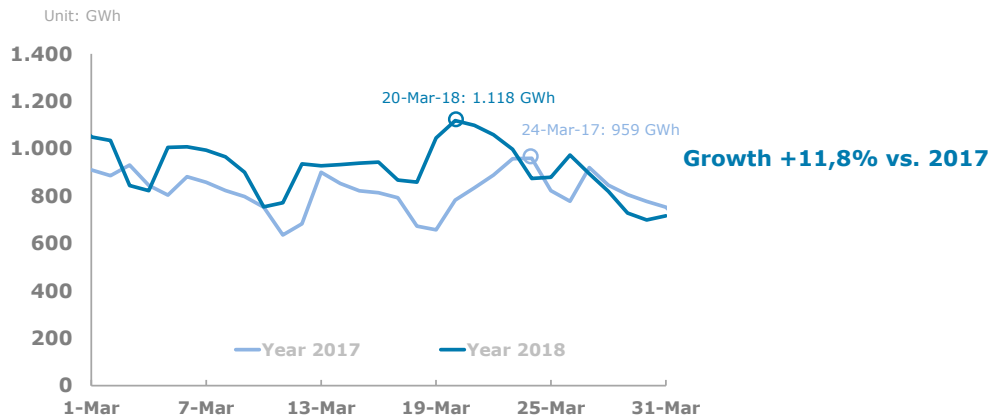
National demand
March - 2018



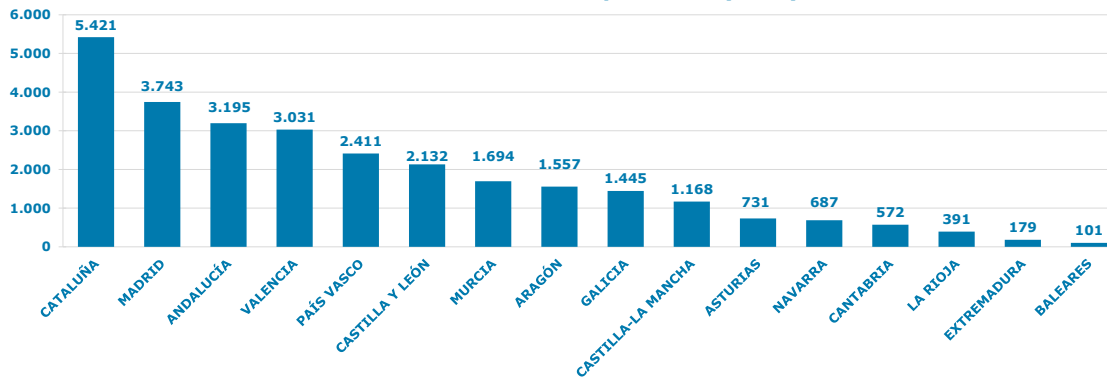
CONVENTIONAL DEMAND

Growth per region

Comparison 2017 - 2018



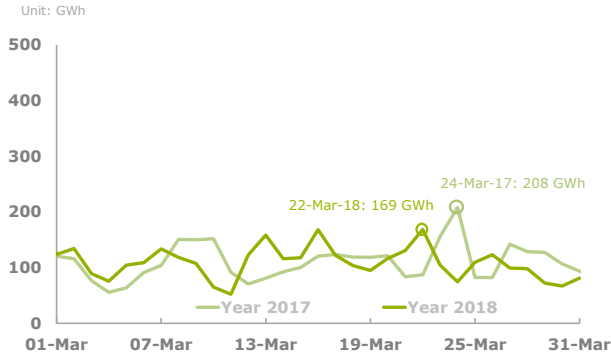
Conventional demand per CCAA (GWh)



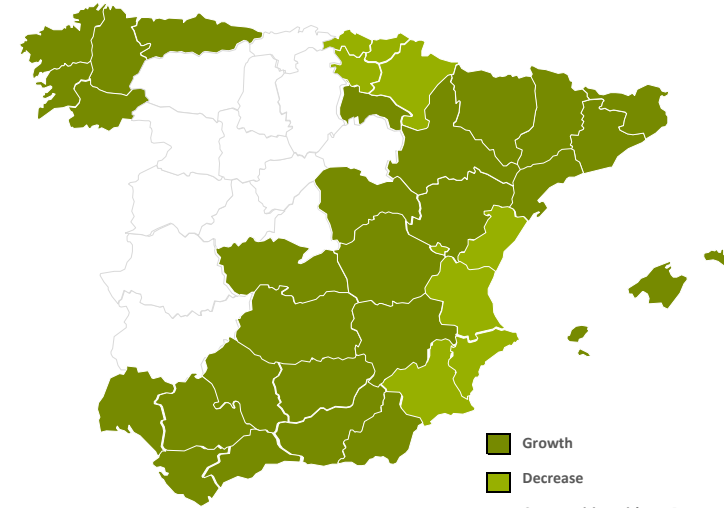
NATURAL GAS FOR POWER GENERATION

Growth per region

Comparison 2017 - 2018

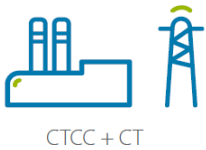
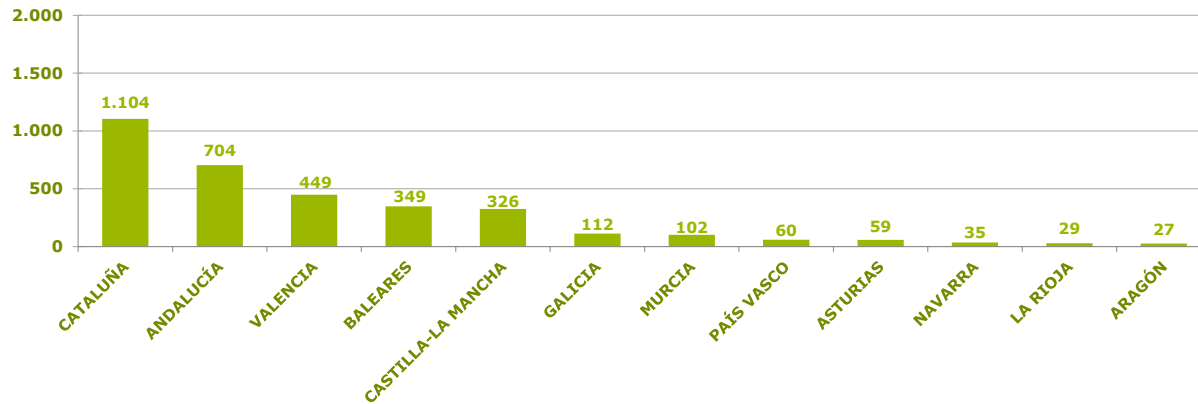


Decrease -1,7% vs. 2017



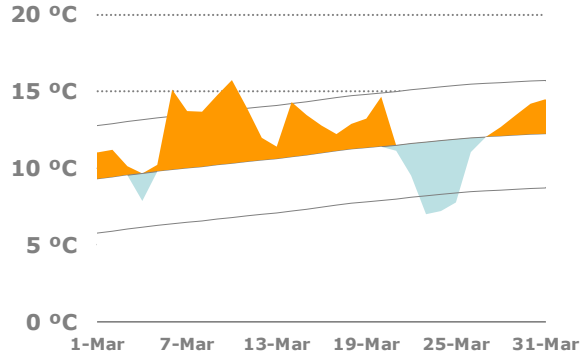
- Growth
- Decrease
- Communities without Power Plants

NG for Power Generation (GWh)

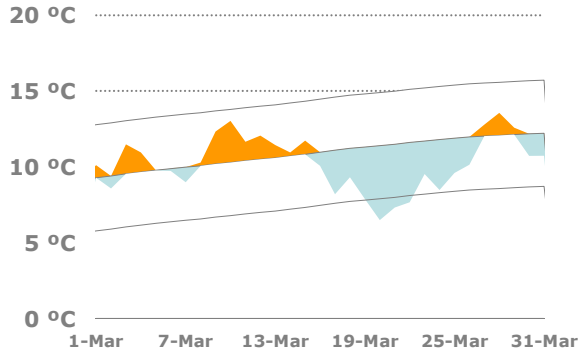


DEMAND - TEMPERATURES

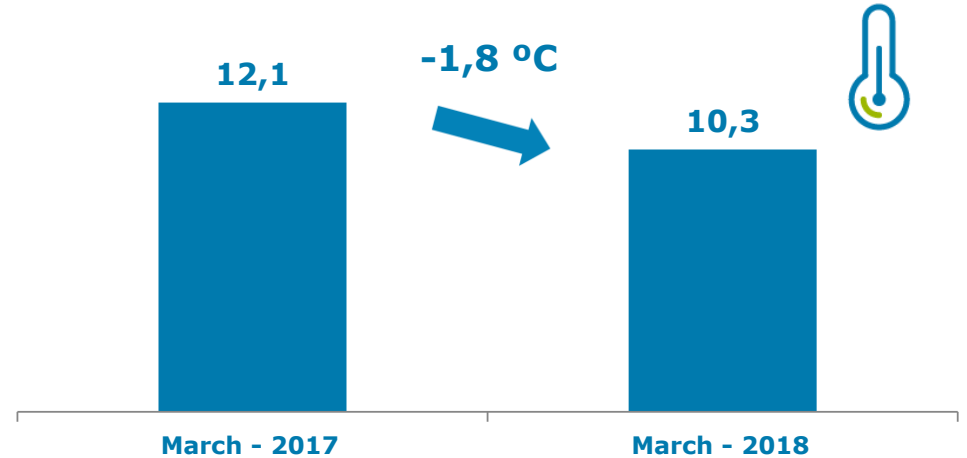
Temperatures 2017



Temperatures 2018



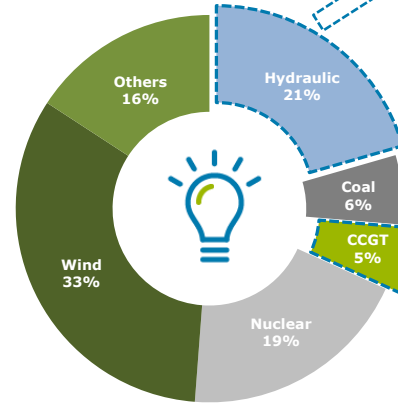
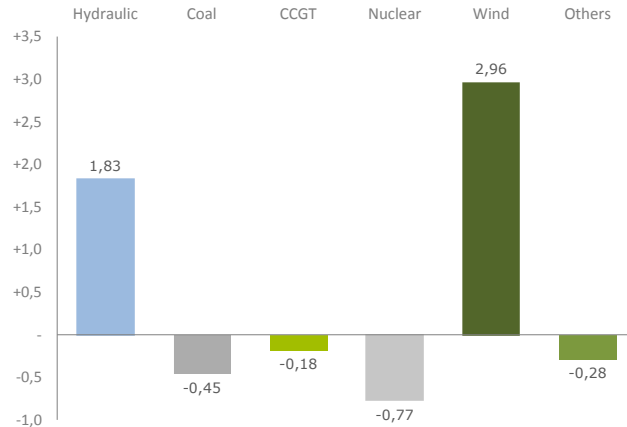
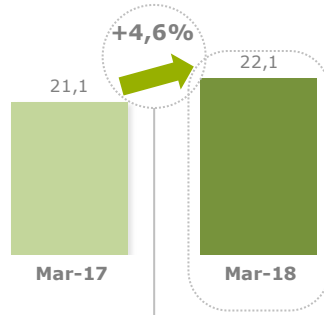
- Temperatures have been lower during March 2018 in comparison with March 2017
- The average temperature has been **1,8°C** lower than the average of March 2017



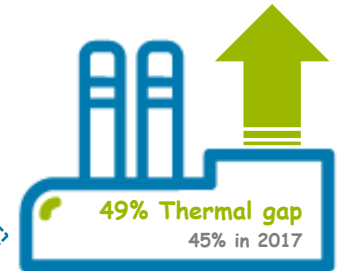
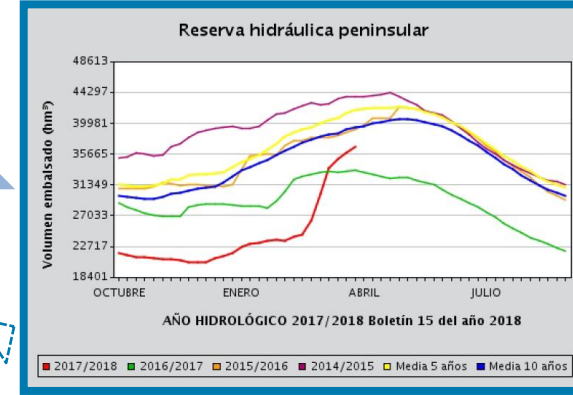
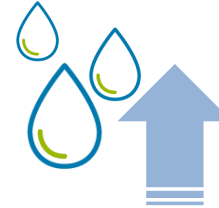
GAS FOR POWER GENERATION

TRANSMISSION DEMAND MARCH-18 VS. MARCH-17

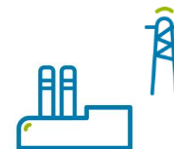
Unit: TWh (e)



RED ELÉCTRICA DE ESPAÑA



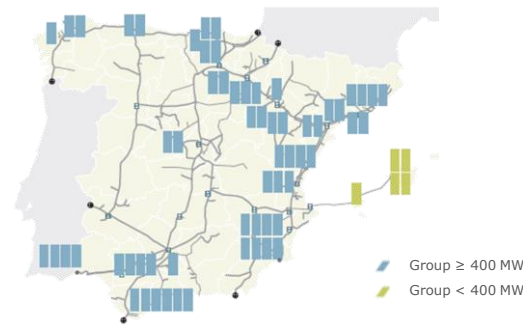
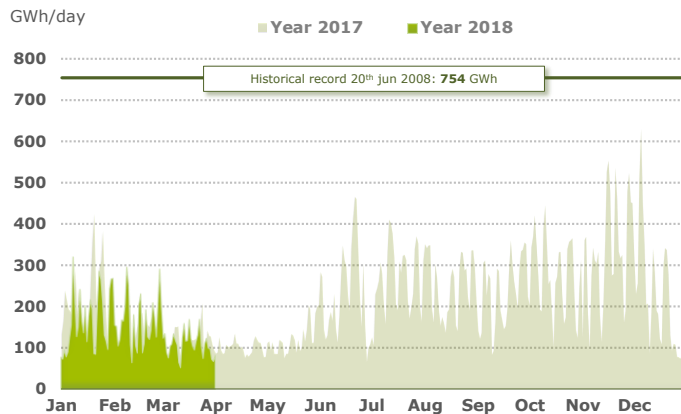
GAS FOR POWER GENERATION



Unit: GWh	Monthly record			Mobile Annual Total record		
	Mar-17	Mar-18	Δ s/mar-17	Year 2017	MAT Apr-2017/Mar-2018	Δ over/Year 2017
NG for Power Generation	3.417	3.358	-1,7%	75.682	75.324	-0%
- Thermal Power Plants	15	8	-45%	232	250	+8%
- CCGT 's	3.402	3.350	-2%	75.450	75.073	-0%
Installed power MW	26.251	26.251	-	26.251	26.251	-
Maximum daily consumption	208	169	-19%	630	630	-
	24-Mar-17	22-Mar-18		05-Dec-17	05-Dec-17	
Minimum daily consumption	56	52	-6%	56	52	-6%
	04-Mar-17	11-Mar-18		04-Mar-17	11-Mar-18	
% Generation mix	6%	5%	-0,7 points	11%	10%	-0,2 points
% Thermal Gap *	45%	45%	+0,0 points	42%	34%	-8,8 points

TPCC 's

* Thermal gap=CCGT 's+Coal



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ORIGIN OF SUPPLIES



Unit: GWh		Monthly record		Mobile Annual Total record		
		Mar-17	Mar-18	Year 2017	MAT Apr-17/Mar-18	%
Algeria	NG	15.486	18.108	161.243	166.318	} 50%
	LNG	2.459	1.479	26.767	27.323	
Nigeria	LNG	5.095	3.419	48.592	47.482	12%
Qatar	LNG	898	2.695	38.977	39.880	10%
T&T	LNG	-	1.813	6.117	7.062	2%
Peru	LNG	2.020	714	39.441	34.110	9%
France	NG	1.973	3.484	44.084	45.844	} 12%
	LNG	-	487	-	487	
Angola	LNG	-	-	3.111	2.065	0,5%
United States	LNG	-	-	8.543	5.244	1%
Norway	LNG	-	-	10.070	8.694	2%
Egypt	LNG	-	-	1.127	1.127	0,3%
National	NG	47	9	419	307	0,1%
Portugal	NG	-	-	15	10	0,00%
Netherlands	LNG	-	-	1.198	820	0,2%
Russia	LNG	-	-	-	1.030	0,27%
TOTAL		27.978	32.207	389.703	387.803	100%

National NG includes the withdrawal from national fields and biogas

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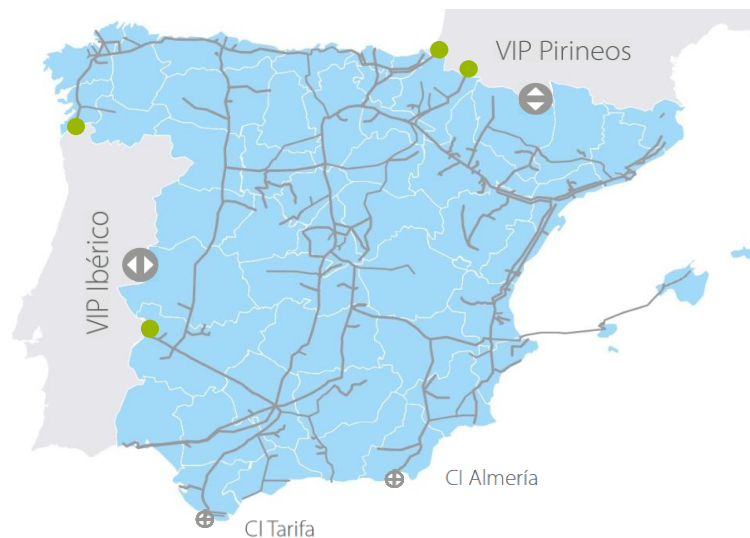
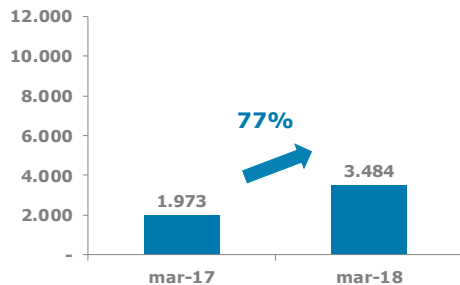
INTERCONNECTION POINTS



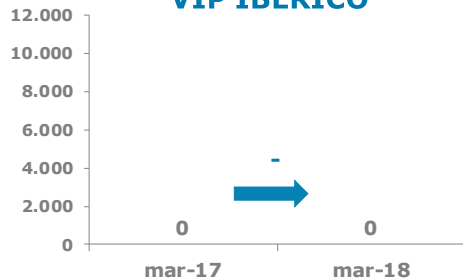
Imports

Unit: GWh

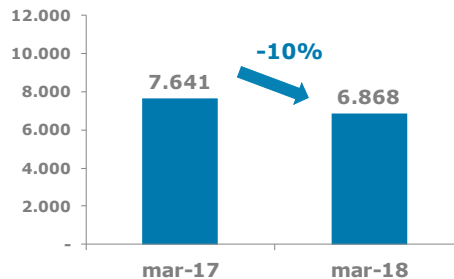
VIP PIRINEOS



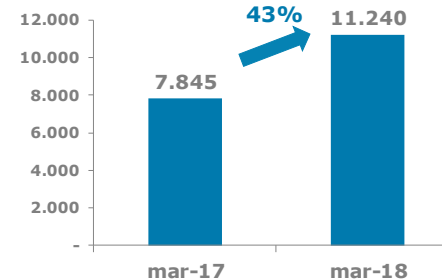
VIP IBÉRICO



ALMERÍA



TARIFA



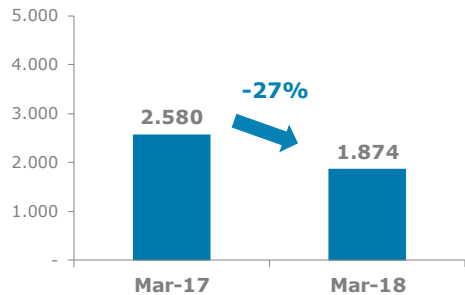
INTERCONNECTION POINTS



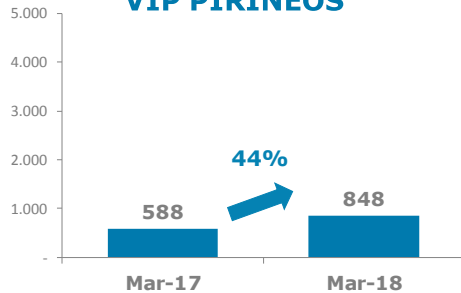
Exports

Unit: GWh

VIP IBÉRICO



VIP PIRINEOS



INTERCONNECTION POINTS

Balance



Unit: GWh	Monthly record			Mobile Annual Total record		
	Mar-17	Mar-18	Δ s/Mar-17	Year 2017	MAT Apr-17/Mar-18	Δ s/MAT
Tarifa GME	7.845	11.240	43%	86.497	94.634	9,4%
Almería MEDGAZ	7.641	6.868	-10%	74.746	71.684	-4,1%
VIP PIRINEOS	1.385	2.636	90%	43.192	44.532	3,1%
VIP IBÉRICO	-2.580	-1.874	-27%	-29.839	-30.021	0,6%
National Gas	47	9	-82%	419	307	-26,8%
TOTAL	14.339	18.878	32%	175.015	181.136	3,5%

(+) Entry flows; (-) Exit flows

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ACTIVITY AT BARCELONA PLANT

Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	137	156
LNG Trucks	GWh/day	11	8
% average contract vs. nominal		26%	29%
% average contract use		93%	80%

2017

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

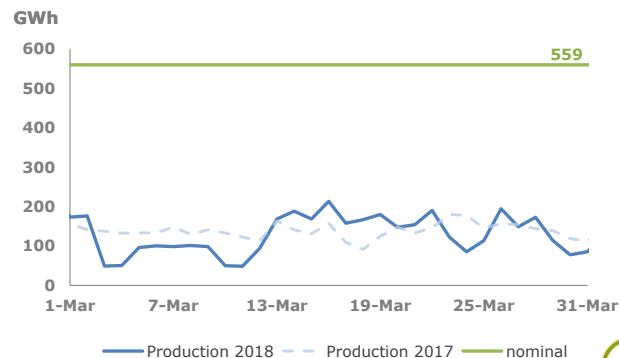
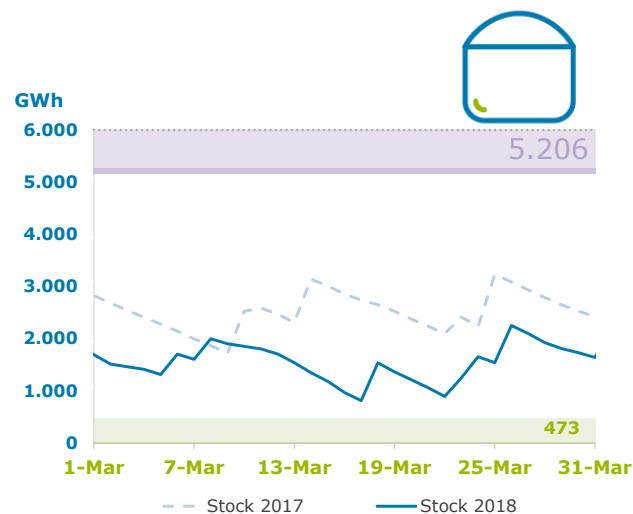


2018

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



Physical production		Mar-17	Mar-18	
Nominal	Send-out	GWh/day	544	544
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	559	559
Monthly production		GWh	4.280	3.980



ACTIVITY AT HUELVA PLANT



Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	152	186
LNG Trucks	GWh/day	8	9
% average contract vs. nominal		41%	50%
% average contract use		85%	64%

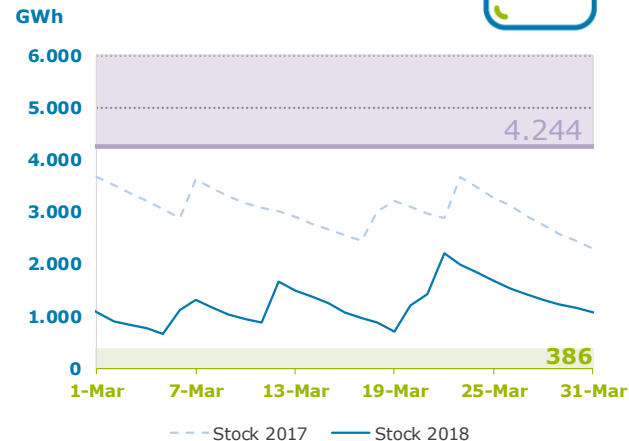
2017

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

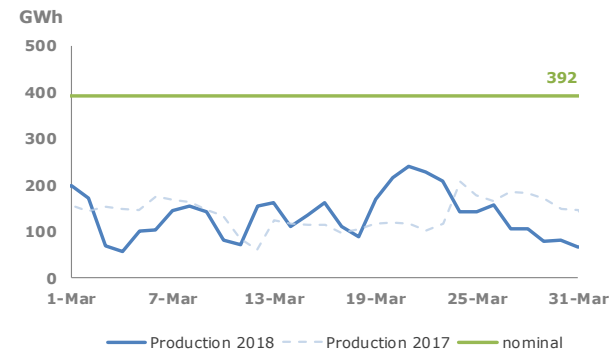


2018

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



Physical production		Mar-17	Mar-18	
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production		GWh	4.292	4.169



ACTIVITY AT CARTAGENA PLANT

Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	10	12
LNG Trucks	GWh/day	7	7
% average contract vs. nominal		4%	5%
% average contract use		80%	98%

2017

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

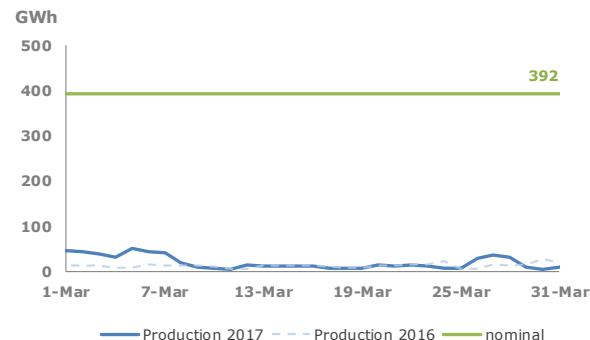
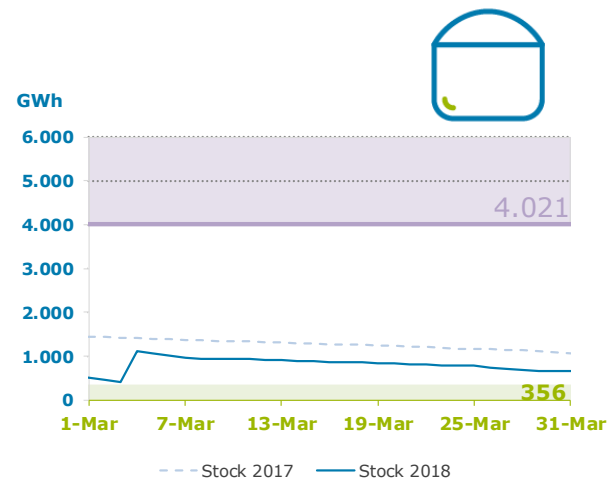


2018

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



Physical production			Mar-17	Mar-18
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	GWh/day	392	392
Monthly production		GWh	374	603



ACTIVITY AT BILBAO PLANT



Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	97	96
LNG Trucks	GWh/day	2	3
% average contract vs. nominal		43%	43%
% average contract use		76%	77%

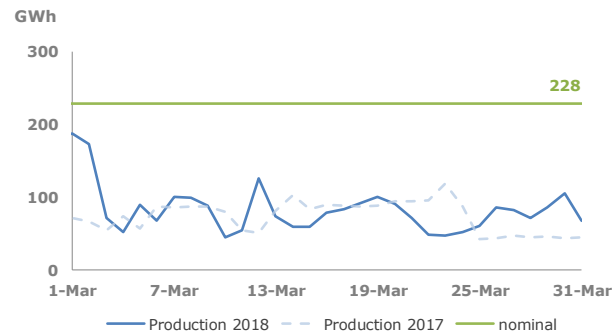
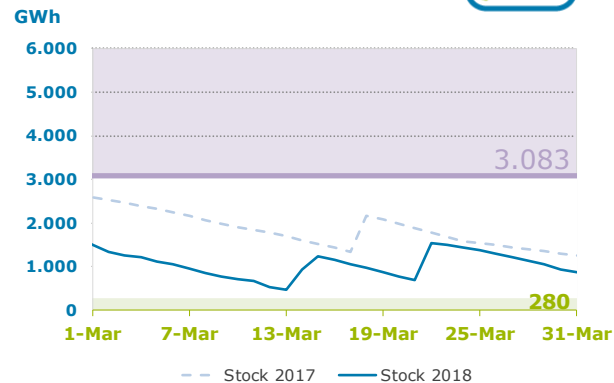
2017

2018

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



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

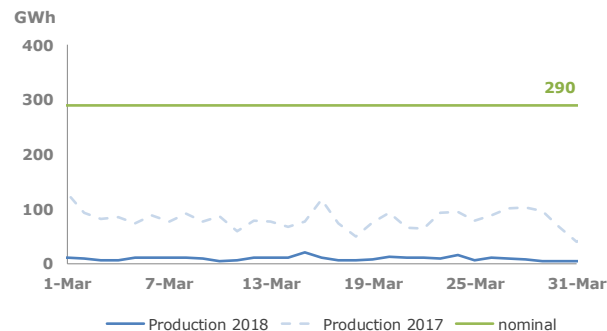
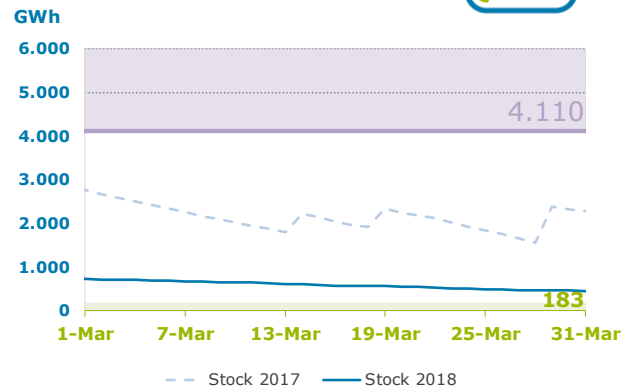


Physical production			Mar-17	Mar-18
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	Total	GWh/day	228	228
Monthly production		GWh	2.284	2.570

ACTIVITY AT SAGUNTO PLANT



Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	100	1
LNG Trucks	GWh/day	6	6
% average contract vs. nominal		37%	2%
% average contract use		76%	101%



2017		2018
3 LNG Unloaded (1.922 GWh)		0 LNG Unloaded (0 GWh)
0 LNG Loaded (0 GWh)		0 LNG Loaded (0 GWh)

Physical production		Mar-17	Mar-18	
Nominal	Send-out	GWh/day	279	279
	LNG Trucks	GWh/day	10	10
	Total	GWh/day	290	290
Monthly production		GWh	2.532	273

ACTIVITY AT MUGARDOS PLANT



Contract information (Average value)		Mar-17	Mar-18
Send-out	GWh/day	35	25
LNG Trucks	GWh/day	6	4
% average contract vs. nominal		32%	23%
% average contract use		78%	97%

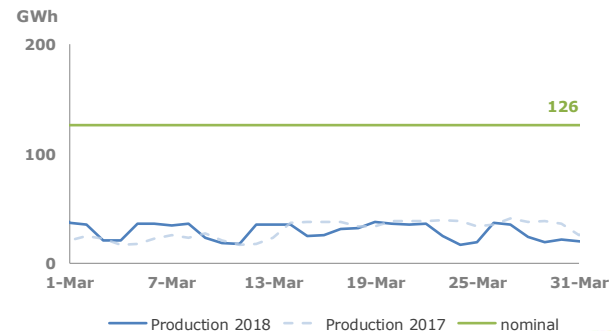
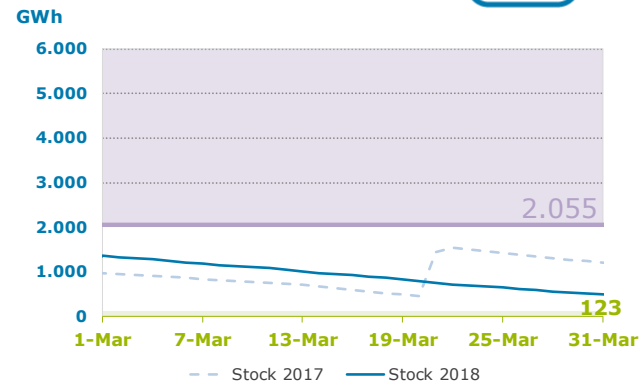
2017

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



2018

0 LNG Unloaded *
(447 GWh)
0 LNG Loaded
(0 GWh)



Physical production		Mar-17	Mar-18	
Nominal	Send-out	GWh/day	115	115
	LNG Trucks	GWh/day	10	10
	Total	GWh/day	126	126
Monthly production		GWh	936	891

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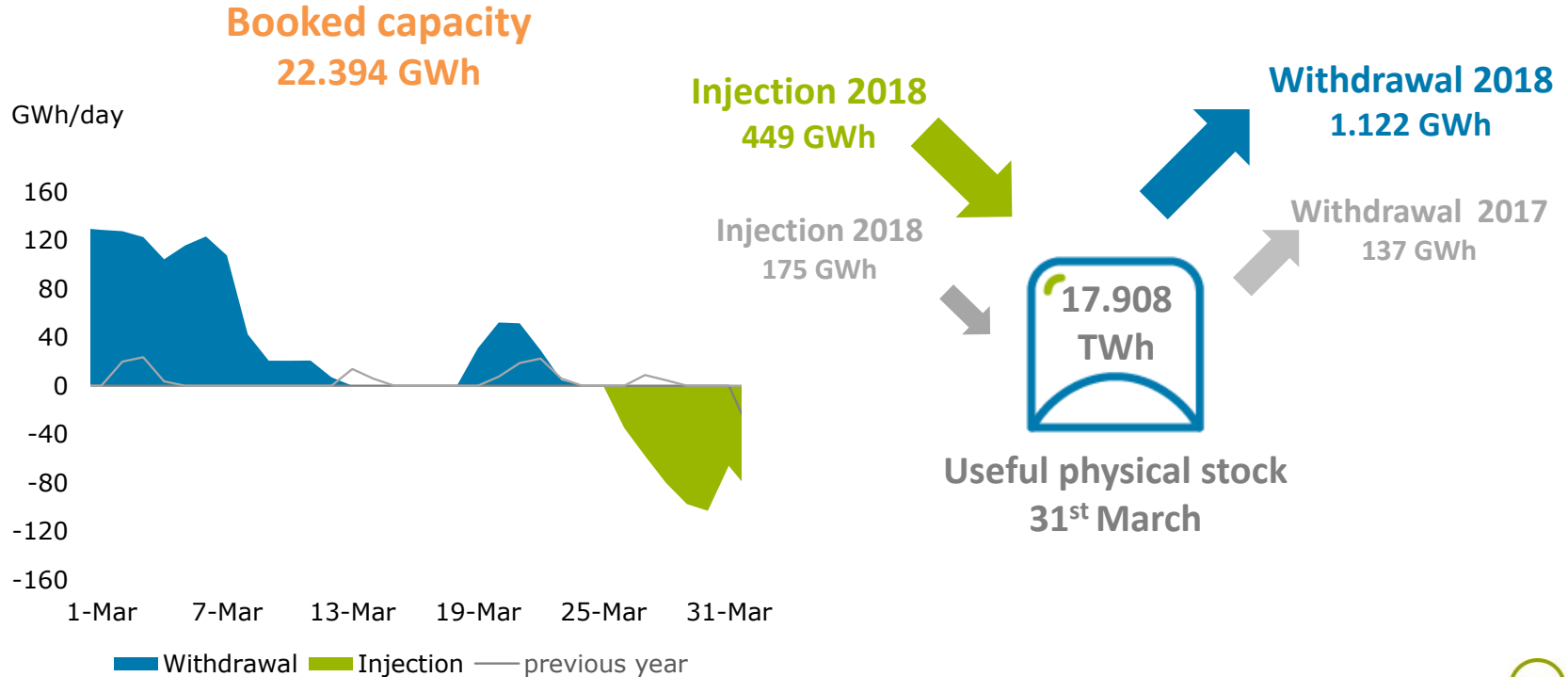
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UNDERGROUND STORAGE



Withdrawal season



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OPERATING NOTES

4 Operating Notes were published during **March 2018**

- Operating Note 04: Exceptional alternative mechanism for constitution of strategic character reserves for campaign 2018-2019 (15/03/2018)
- Operating Note 05: Exceptional Operating Situation – Level zero – Cold snap (15/03/2018)
- Operating Note 06: Partial mobilization of the winter reserve 2017-2018 (16/03/2018)
- Operating Note 07: End of obligation winter reserves 2017-2018 (23/03/2018)



