

# Statistical bulletin

## Technical Management of the System

April 2019

**PREVIEW**



# Content



## **1. Natural gas demand**

Natural gas demand flow-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 by LNG plant

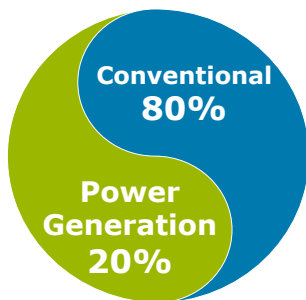
## **5. Underground storage**

## **6. Operating notes**

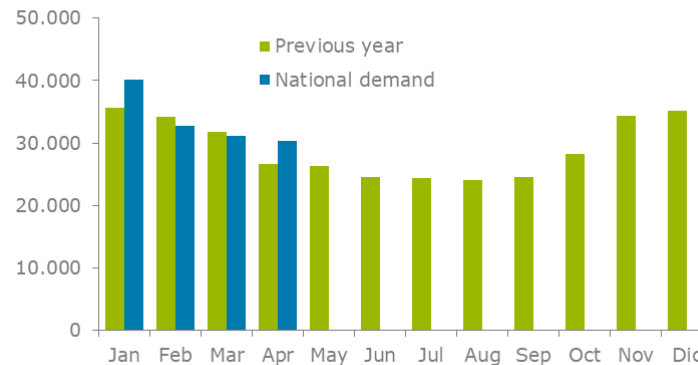
# Natural Gas demand follow-up

Unit : GWh	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2018
	1 <sup>st</sup> to 30th April		Year 2019		1 <sup>st</sup> May 2018 to 30 <sup>th</sup> April 2019	
<b>National Demand</b>	30.398	14,4%	134.439	4,9%	355.585	1,8%
- Conventional demand	24.257	3,7%	111.075	-0,7%	286.692	-0,3%
- NG for Power Generation	6.140	92,9%	23.365	43,4%	68.893	11,4%
<b>International Demand</b>						
- International connections exports	650	-69,4%	1.471	-83,8%	23.376	-24,6%
- LNG Vessel loading	92	>100%	108	-95,1%	2.896	-41,8%
<b>TOTAL</b>	<b>31.140</b>	<b>8,4%</b>	<b>136.018</b>	<b>-2,4%</b>	<b>381.856</b>	<b>-0,9%</b>

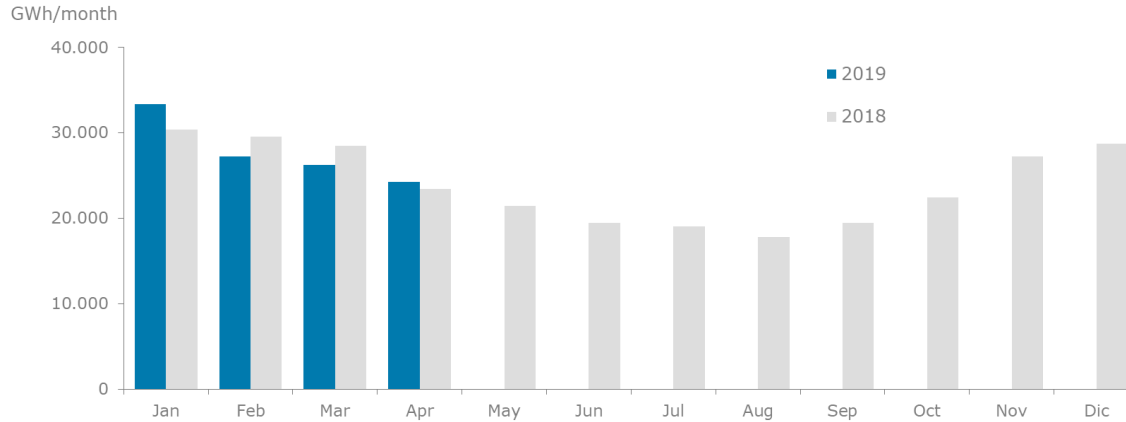
National demand  
April - 2019



GWh/month

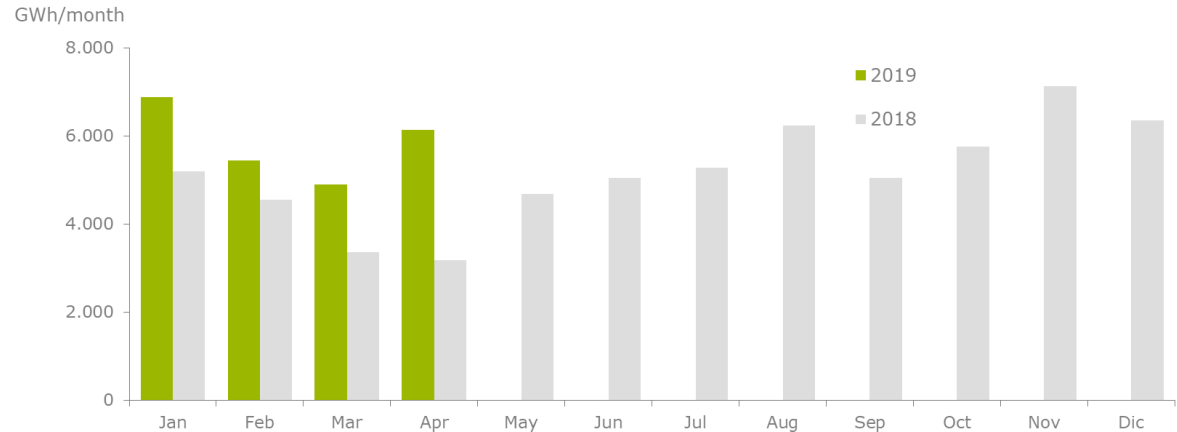


# Natural Gas demand follow-up



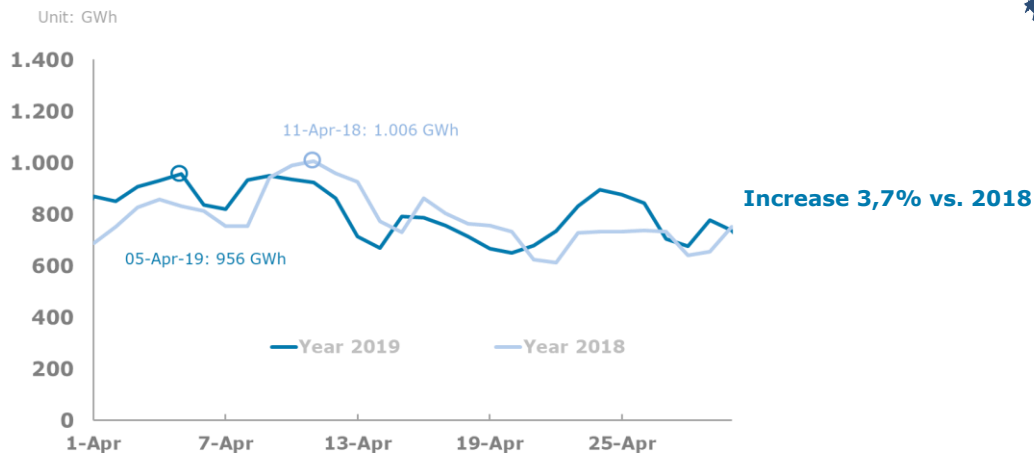
**Conventional demand  
2018 - 2019**

**NG for Power Generation  
2018 - 2019**

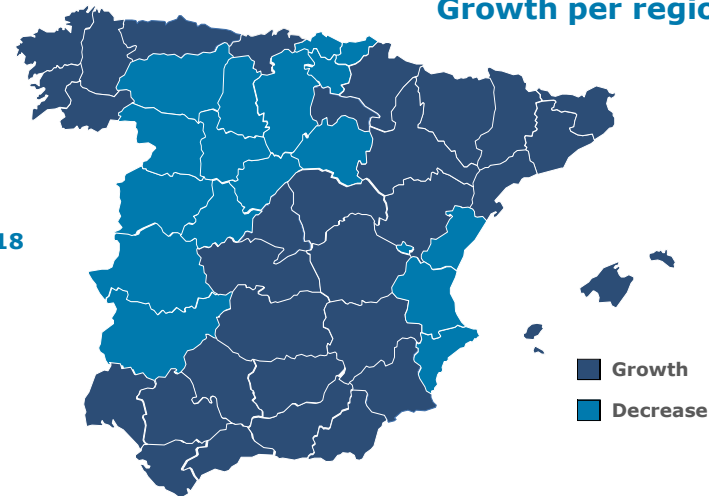


# Conventional demand

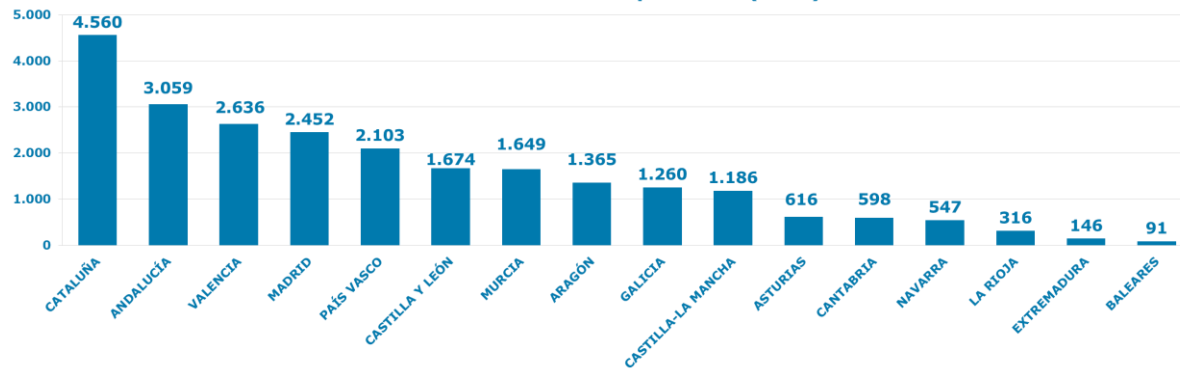
## Comparison 2018-2019



## Growth per region



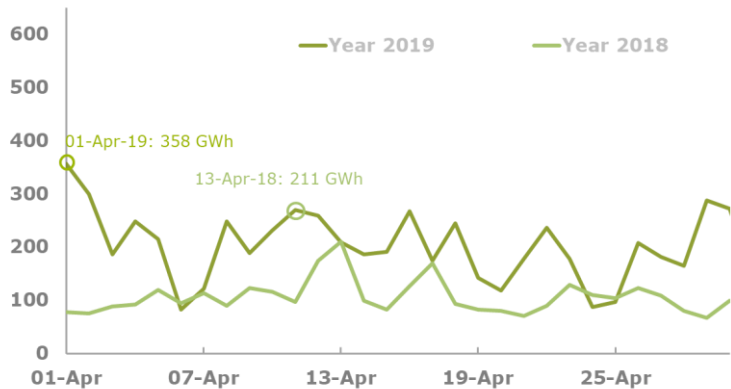
## Conventional demand per CCAA (GWh)



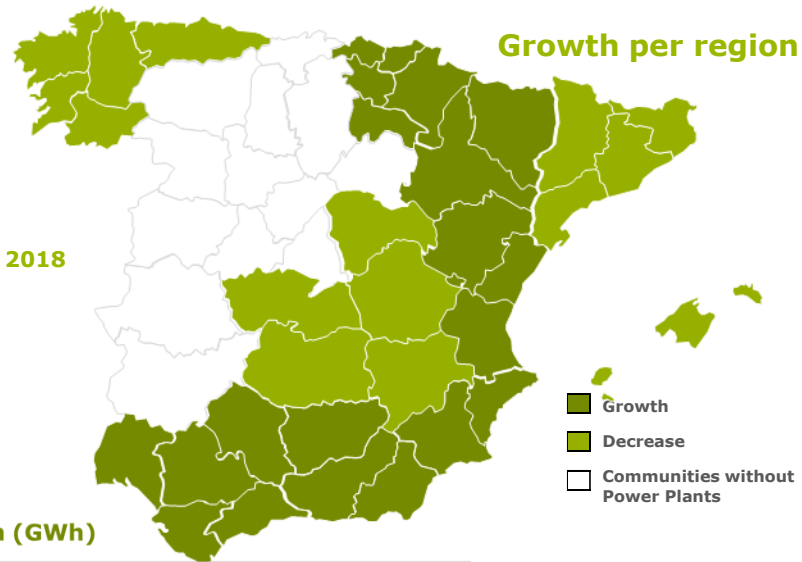
# Natural gas for power generation

## Comparison 2018-2019

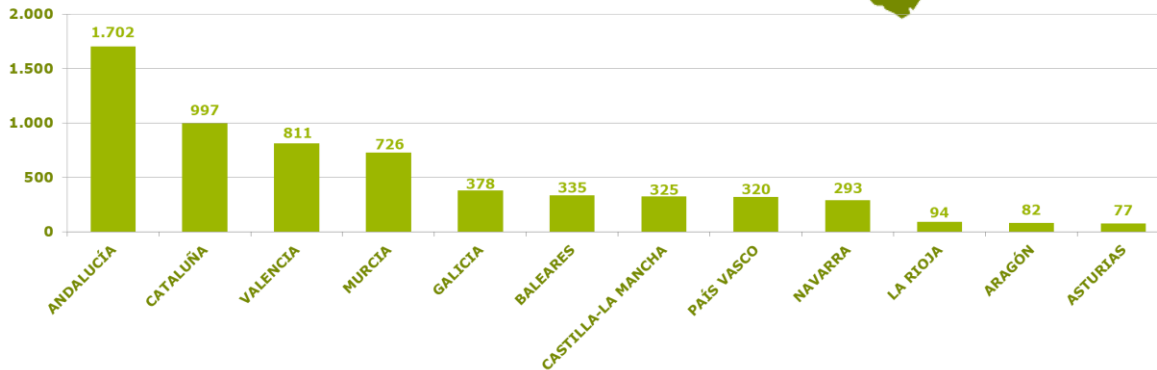
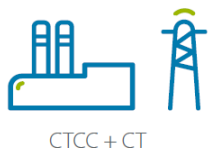
Unit: GWh



Increase 93% vs. 2018

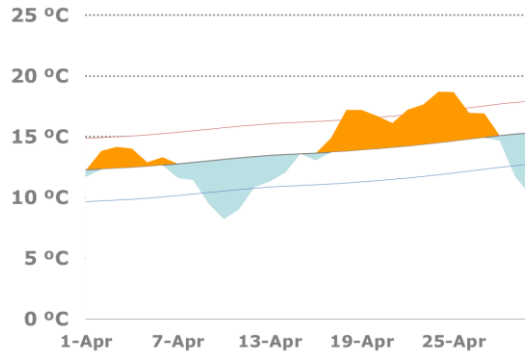


## NG for Power Generation (GWh)

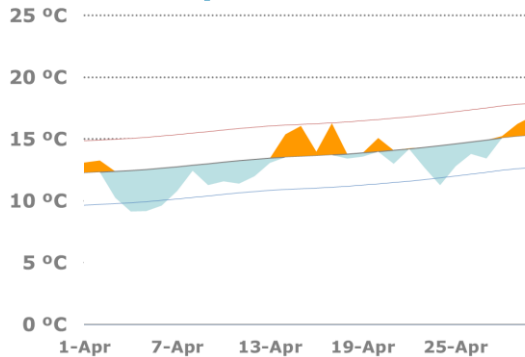


# Demand - Temperatures

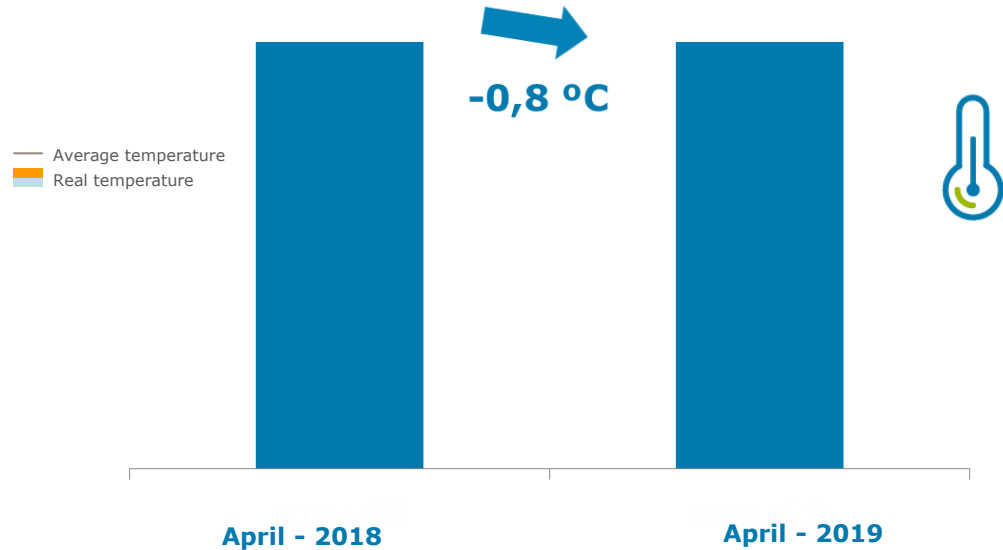
## Temperatures 2018



## Temperatures 2019

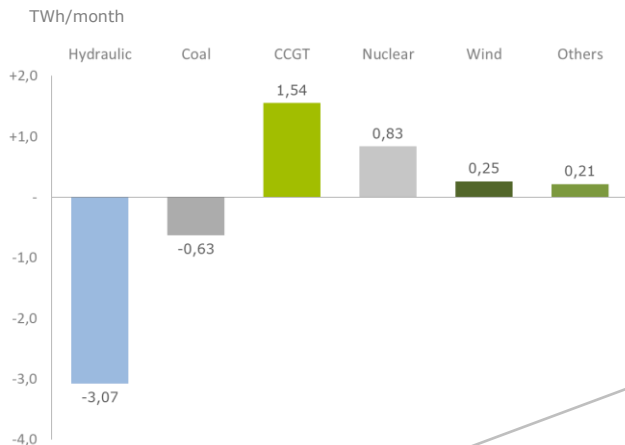


- Temperatures have been lowest during April 2019 in comparison with April 2018.
- The average temperature has been **0.8°C** lowest than the average of April 2018

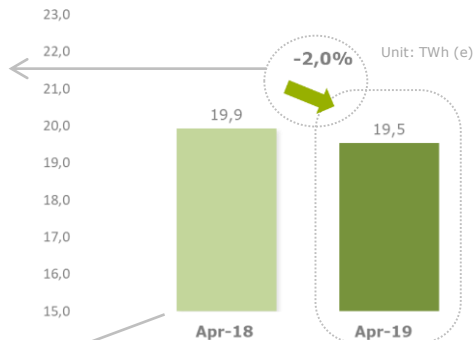


# Gas for power generation

## GROWTH APR-19 VS. APR-18



## TRANSMISSION DEMAND APR-19 VS. APR-18

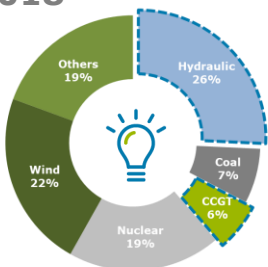


## CAPACITY

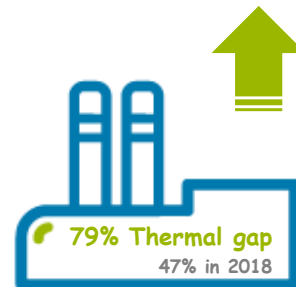
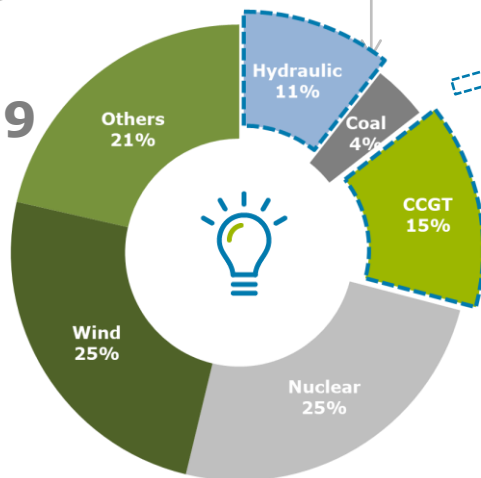
**TOTAL :** 56.118 hm<sup>3</sup> = 23.281 GWh  
**ACTUAL :** 34.033 hm<sup>3</sup> = 12.223 GWh



2018



2019





# Gas for power generation

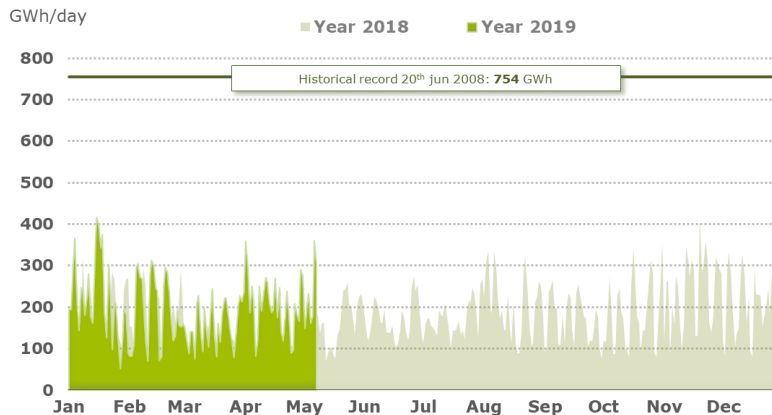


## Monthly record

## Mobile Annual Total Record

Unit: GWh

	Apr-18	Apr-19	Δ s/Apr-18	Year 2019	MAT May-2018/Apr-2019	Δ over/Year 2018
<b>NG for Power Generation</b>	<b>3.182</b>	<b>6.140</b>	<b>+92,9%</b>	<b>23.377</b>	<b>68.905</b>	<b>+11,5%</b>
- Thermal Power Plants	13	5	-65%	52	197	-11,8%
- CCGT's	3.169	6.136	+94%	23.325	68.709	+11,5%
<b>Maximum daily consumption</b>	<b>211</b>	<b>358</b>	<b>+69%</b>	<b>415</b>	<b>415</b>	-
	13-Apr-18	01-Apr-19		15-Jan-19	15-Jan-19	
<b>Minimum daily consumption</b>	<b>67</b>	<b>82</b>	<b>+23%</b>	<b>51</b>	<b>51</b>	-
	29-Apr-18	06-Apr-19		27-Jan-19	27-Jan-19	



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A yellow sign with the ENAGAS logo and text is visible in the upper right corner of the slide. The sign is partially obscured and tilted.

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## 5. Underground storage

## 6. Operating notes

# Origin of supplies

		Monthly record		Annual Total record		Mobile Annual Total record	
Unit: GWh		Apr-18	Apr-19	Year 2019	% 2019	MAT May-18/Apr-19	% MAT
Algeria	NG	16.622	8.786	42.763	} 37,7%	157.157	} 44,3%
	LNG	492	3.228	4.719		13.145	
Nigeria	LNG	3.014	4.757	18.078	14,3%	48.277	12,6%
Qatar	LNG	4.581	2.733	9.011	7,2%	34.943	9,1%
T&T	LNG	2.670	2.678	11.814	9,4%	30.686	8,0%
Peru	LNG	-	-	-	0,0%	15.095	3,9%
France	NG	2.141	4.358	22.346	} 17,7%	49.135	} 12,8%
	LNG	-	-	-		-	
Angola	LNG	1.016	-	1.025	0,8%	1.042	0,3%
United States	LNG	-	996	8.092	6,4%	11.112	2,9%
Norway	LNG	893	927	1.850	1,5%	6.545	1,7%
Bélgica	LNG	-	-	-	0,0%	896	0,2%
National gas field	NG	50	149	623	0,5%	1.529	0,4%
National biogas	NG	8	10	36	0,0%	98	0,0%
Portugal	NG	17	214	1.469	1,2%	1.548	0,4%
Dominican Republic	LNG	-	-	-	0,0%	338	0,1%
Russia	LNG	1.102	1.093	3.216	2,6%	10.844	2,8%
Cameroon	LNG	-	-	966	0,8%	1.829	0,5%
<b>TOTAL</b>		<b>32.606</b>	<b>29.929</b>	<b>126.007</b>	<b>100%</b>	<b>384.218</b>	<b>100%</b>

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## 5. Underground storage

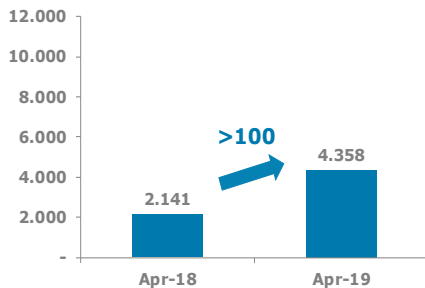
## 6. Operating notes

# Interconnection points

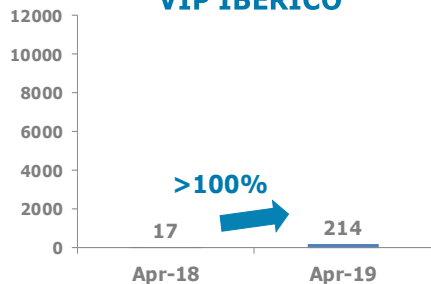
## Imports

Unit: GWh

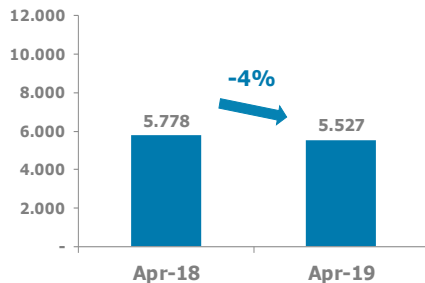
### VIP PIRINEOS



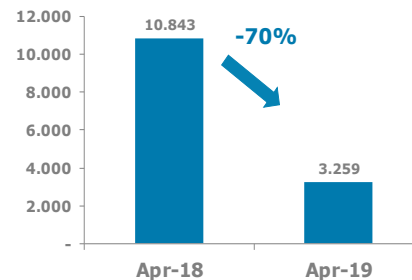
### VIP IBÉRICO



### ALMERÍA



### TARIFA

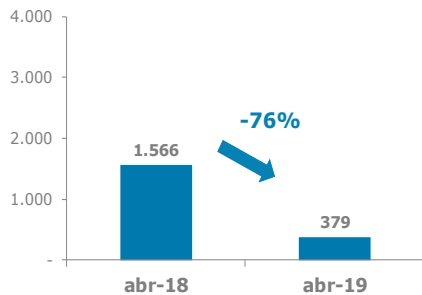


## Exports

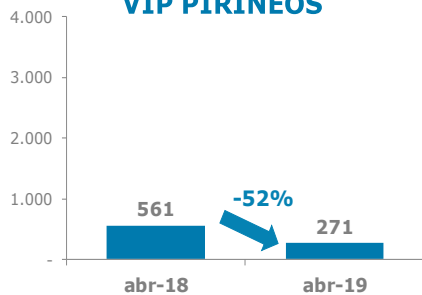
Unit: GWh



### VIP IBÉRICO



### VIP PIRINEOS



# Interconnection points

Balance	Monthly Record			Monthly Mobile Anual Record		
	Apr-18	Apr-19	$\Delta$ over/Apr-18	Year 2019	MAT May-18/Apr-19	$\Delta$ s/MAT
Unit: GWh						
Tarifa GME	10.843	3.259	-70%	19.282	79.980	-24%
Almería MEDGAZ	5.778	5.527	-4%	23.480	77.177	-3%
VIP PIRINEOS	1.580	4.087	>100%	22.033	41.873	33%
VIP IBÉRICO	-1.549	-165	-89%	293	-14.584	-34%
National gas field	50	149	>100%	623	1.529	58%
National biogas	8	10	23%	36	98	4%
<b>TOTAL</b>	<b>16.711</b>	<b>12.867</b>	<b>-23%</b>	<b>65.748</b>	<b>186.073</b>	<b>-4,3%</b>

(+) Entry flows; (-) Exit flows



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## 6. Operating notes



# Activity at Barcelona plant



Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	161	229
LNG Trucks	GWh/day	9	15
% average contract vs. nominal		30%	44%
% average contract use		72%	92%

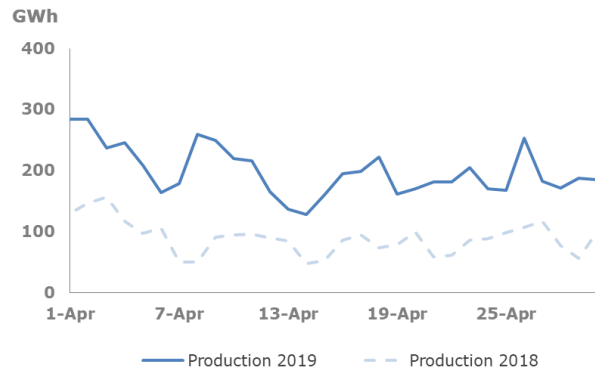
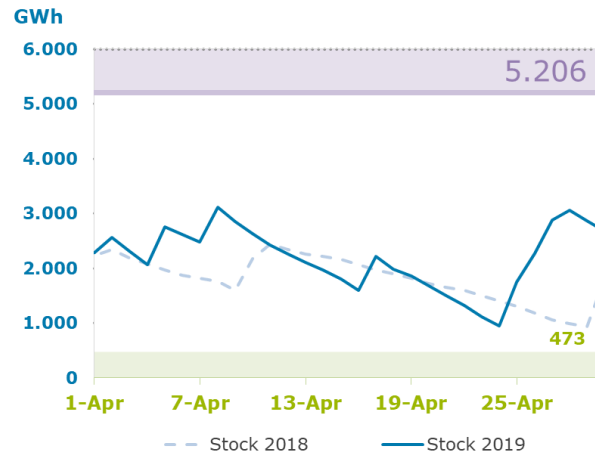
2018

2,98 LNG Unloaded  
(2.925 GWh)  
1 LNG Loaded  
(15 GWh)



2019

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



Physical production			Apr-18	Apr-19
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>
<b>Monthly production</b>		<b>GWh</b>	<b>2.699</b>	<b>5.975</b>

# Activity at Huelva plant



Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	162	152
LNG Trucks	GWh/day	8	8
% average contract vs. nominal		43%	41%
% average contract use		82%	97%

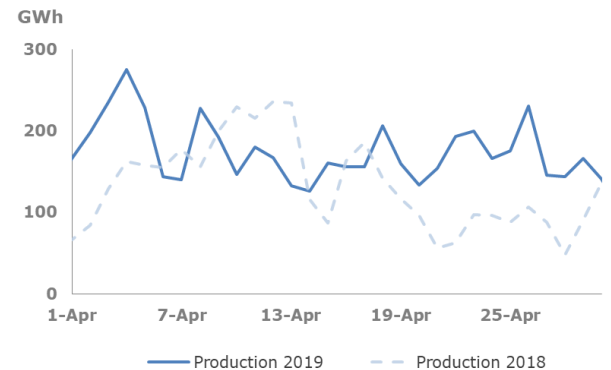
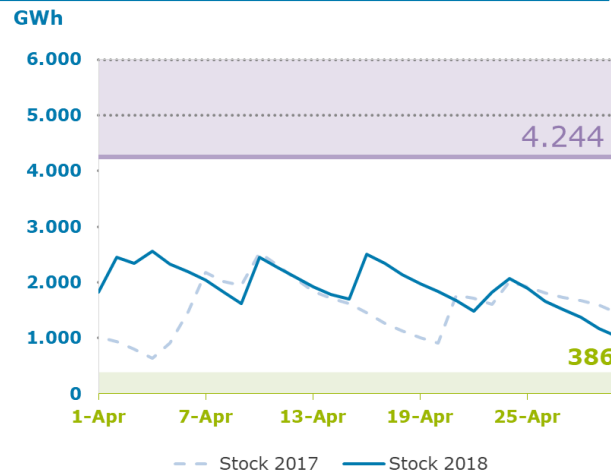
2018

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



2019

5 LNG Unloaded  
(4.374 GWh)  
2 LNG Loaded  
(77 GWh)

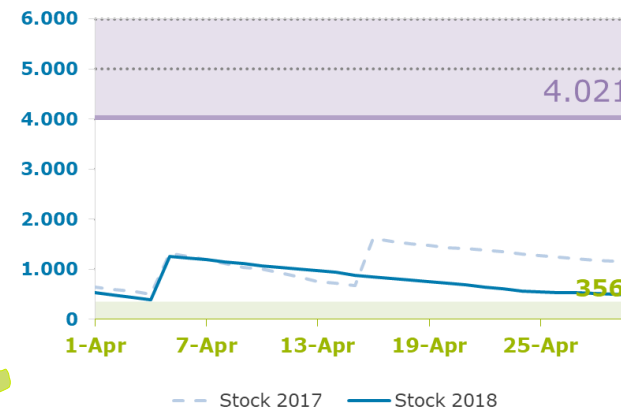


Physical production			Apr-18	Apr-19
<b>Nominal</b>	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	<b>Total</b>	<b>GWh/day</b>	<b>392</b>	<b>392</b>
<b>Monthly production</b>		<b>GWh</b>	<b>3.982</b>	<b>5.252</b>

# Activity at Cartagena plant

Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	51	32
LNG Trucks	GWh/day	6	9
% average contract vs. nominal		15%	11%
% average contract use		83%	81%

GWh



2018

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



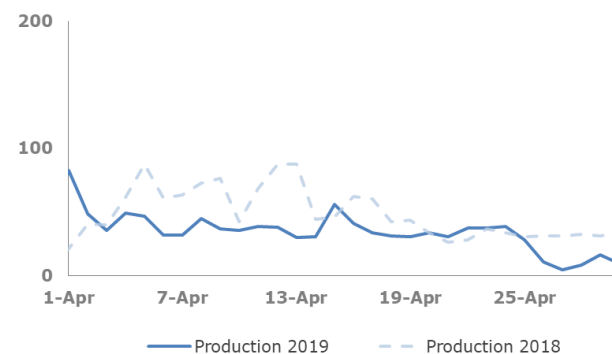
2019

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



Physical production			Apr-18	Apr-19
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>
<b>Monthly production</b>		<b>GWh</b>	<b>1.458</b>	<b>1.032</b>

GWh



# Activity at Bilbao plant



Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	94	125
LNG Trucks	GWh/day	2	3
% average contract vs. nominal		42%	56%
% average contract use		80%	89%

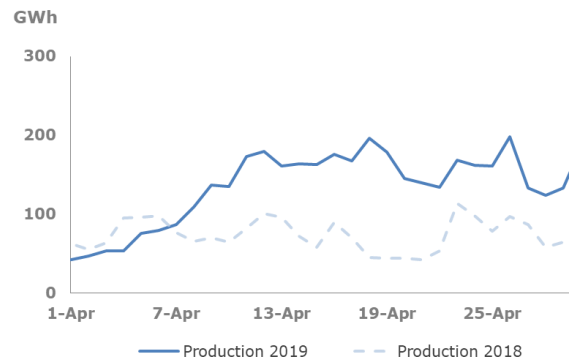
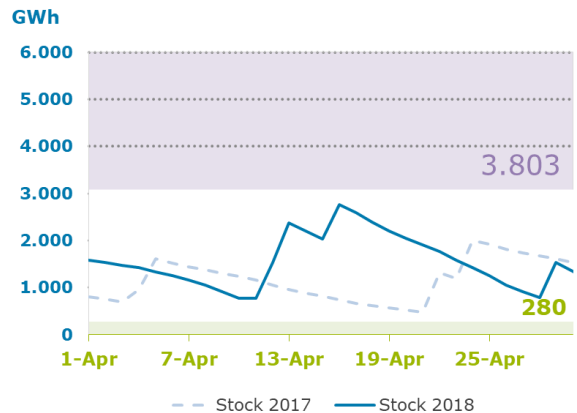
2018

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



2019

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



Physical production			Apr-18	Apr-19
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	<b>Total</b>	<b>GWh/day</b>	228	228
<b>Monthly production</b>		<b>GWh</b>	2.210	4.065

# Activity at Sagunto plant



Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	0	43
LNG Trucks	GWh/day	5	4
% average contract vs. nominal		2%	16%
% average contract use		89%	90%

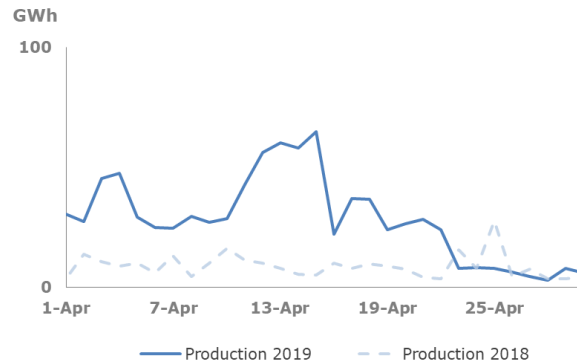
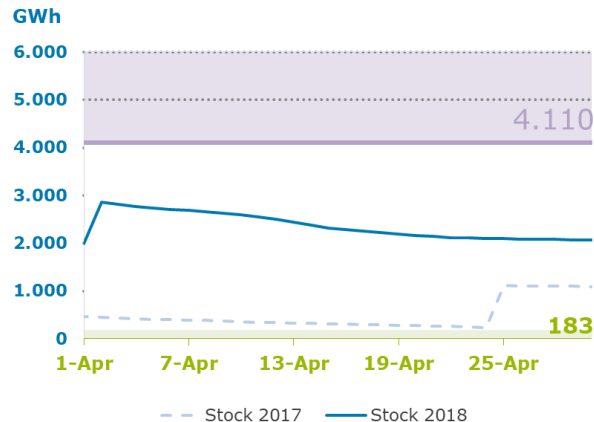
2018

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



2019

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



Physical production			Apr-18	Apr-19
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>266</b>	<b>847</b>

# Activity at Mugardos plant



Contract information (Average value)		Apr-18	Apr-19
Send-out	GWh/day	23	15
LNG Trucks	GWh/day	3	4
% average contract vs. nominal		21%	15%
% average contract use		70%	97%

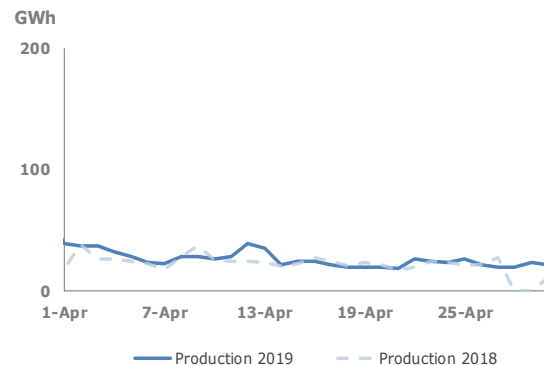
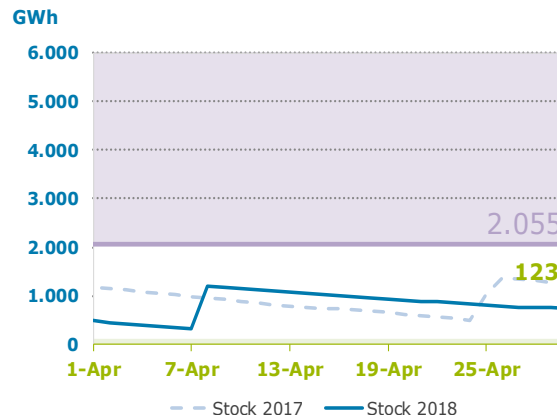
2018

2019

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



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



Physical production			Apr-18	Apr-19
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>659</b>	<b>771</b>

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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

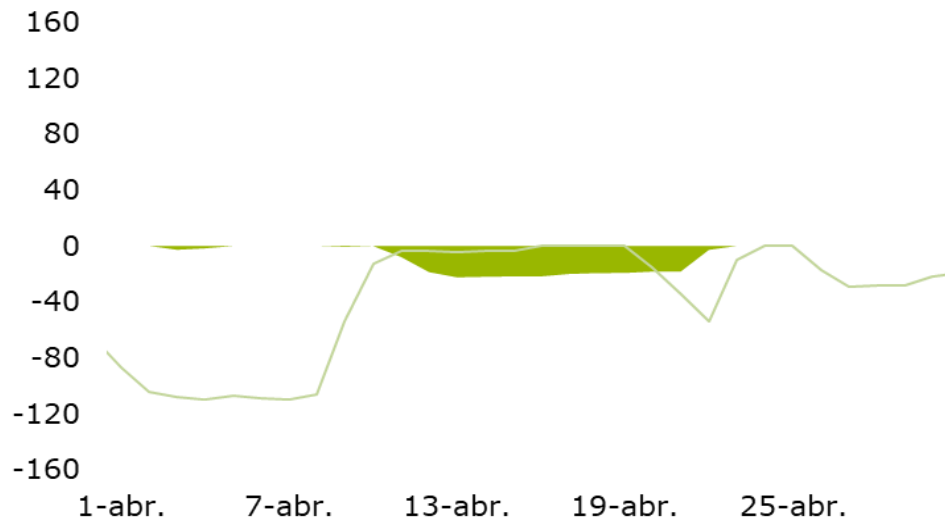
Activity by LNG plant

## 5. Underground storage

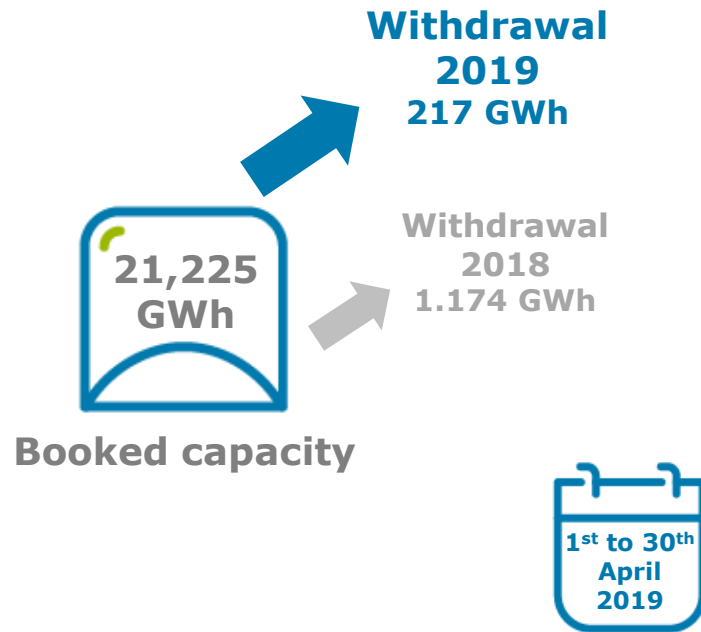
## 6. Operating notes

## Withdrawal / injection season

GWh/day



Injection Injec. previous year





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## 1 Operating Note were published during April 2019

### ○ Imbalance in PVB.

(23/04/2019) - Exceptional Operating Situation ZERO Level.

Nota de Operación nº 3 – 22.04.2019 (inicial)

**Desbalance sostenido en PVB**



#### **Situación de Operación Excepcional Nivel CERO**

El Gestor Técnico del Sistema, en cumplimiento de las funciones establecidas en el artículo 64 de la Ley de Hidrocarburos y atendiendo a lo establecido en el apartado 10.6, *Situación de Operación Excepcional de Nivel 0*, de las Normas de Gestión Técnica del Sistema y, tras la evaluación previa pertinente, **declara Situación de Operación Excepcional Nivel 0**.

Esta decisión está motivada por un desbalance negativo y sostenido de usuarios en PVB. Ante este escenario, el GTS se ha visto obligado, de forma excepcional, a tomar medidas tanto de mercado como operativas, para evitar que el nivel de existencias del gasoducto se posicionara en valores inferiores al Límite Mínimo Operativo durante varios días consecutivos, pudiendo ocasionar una situación de riesgo para la garantía, seguridad y continuidad en el suministro del Sistema Gasista.

Con objeto de que pueda restablecerse la Situación de Operación Normal en el Sistema Gasista, resulta imprescindible que, urgentemente, los usuarios causantes del desbalance tomen medidas para **estabilizar su balance en PVB**.



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

Thank you

