Statistical bulletin

Technical Management of the System

September 2019

PREVIEW

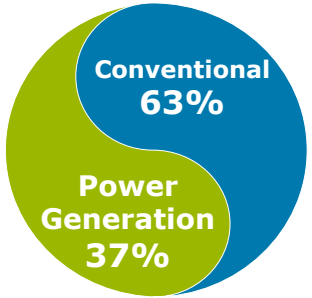
Content

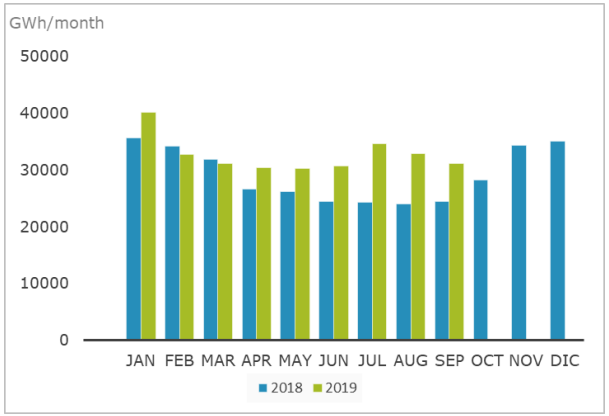
1. **Natural gas demand**
   - Natural gas demand flow-up
   - Evolution of conventional demand and power generation
   - Consumption by geographic location
2. **Origin of supplies**
3. **Interconnection Points**
4. **Regasification Plants**
   - Unloads and loads of LNG vessels
   - Production at regasification plants
   - Activity by LNG plant
5. **Underground storage**
6. **Operating notes**

Natural Gas demand follow-up

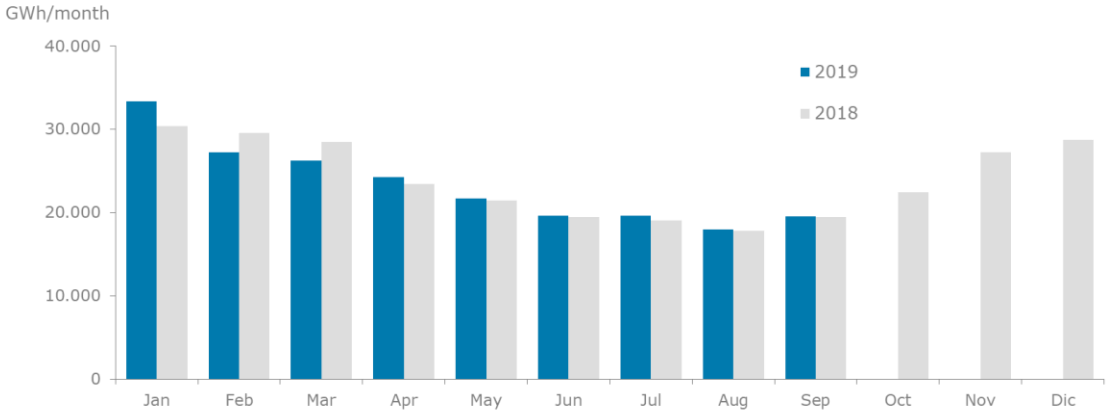
Unit : GWh	Month	% Δ Month	Year	% Δ Year	MAT	% Δ 2018
	1st to 30th July		Year 2019		1st August 2018 to 31th July 2019	
National Demand	*31.069*	*26,9%*	*294.192*	*16,9%*	*391.838*	*12,2%*
- Conventional demand	19.558	0,6%	209.533	0,2%	287.937	0,2%
- NG for Power Generation	11.511	128,2%	84.659	98,8%	103.901	68,1%
International Demand	0	0,0%	0	0,0%	0	0,0%
- International conections exports	915	-53,9%	5.818	-77,7%	10.687	-65,5%
- LNG Vessel loading	18,87	100,0%	234	-95,3%	245	-95,1%
TOTAL	**32.003**	**20,4%**	**300.244**	**6,2%**	**402.770**	**4,6%**

National demand
September - 2019



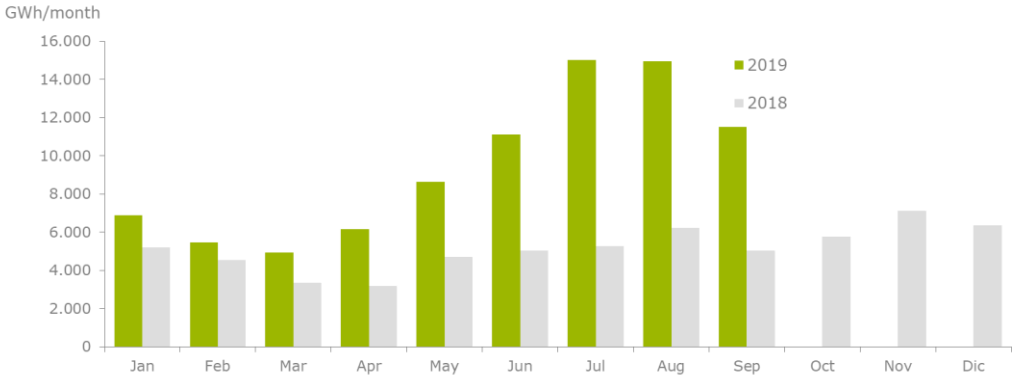


Natural Gas demand follow-up



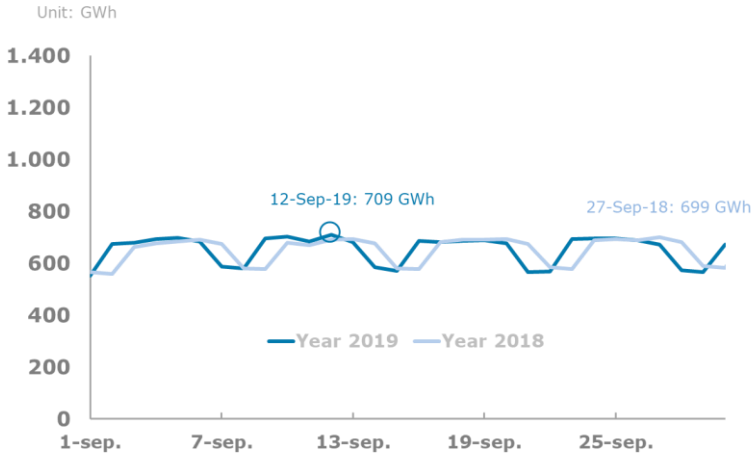
Conventional demand 2018 - 2019

NG for Power Generation 2018 - 2019



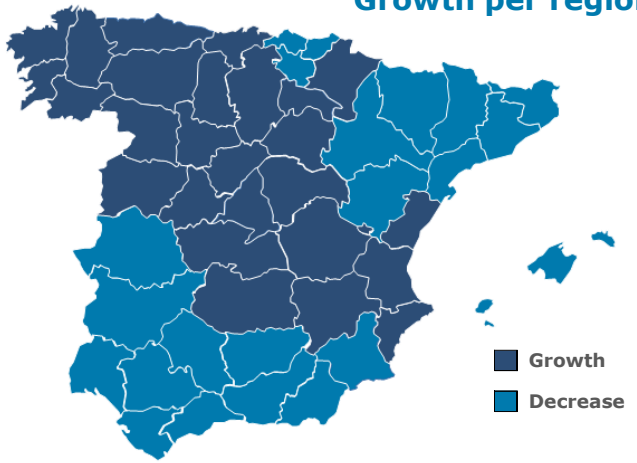
Conventional demand

Comparison 2018-2019



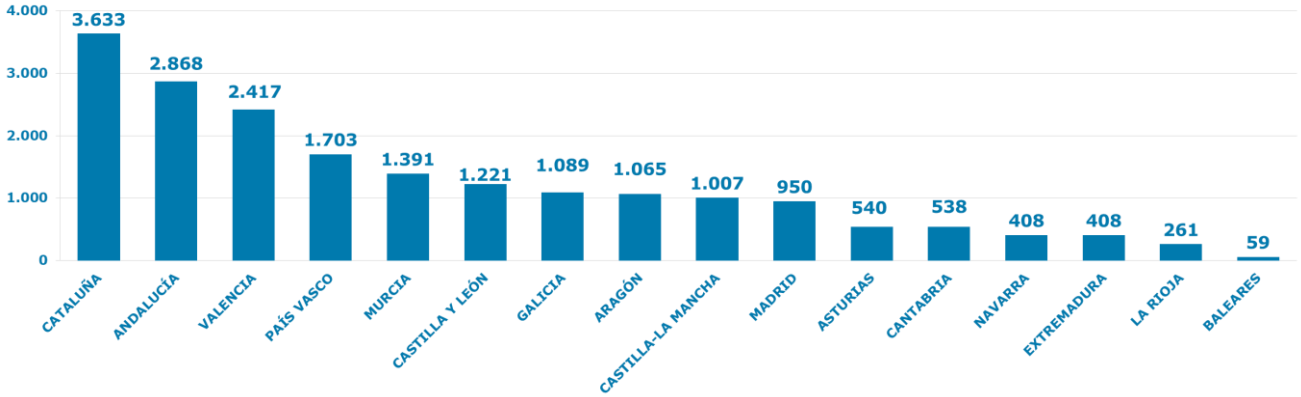
Increase 0,6% vs. 2018

Growth per region



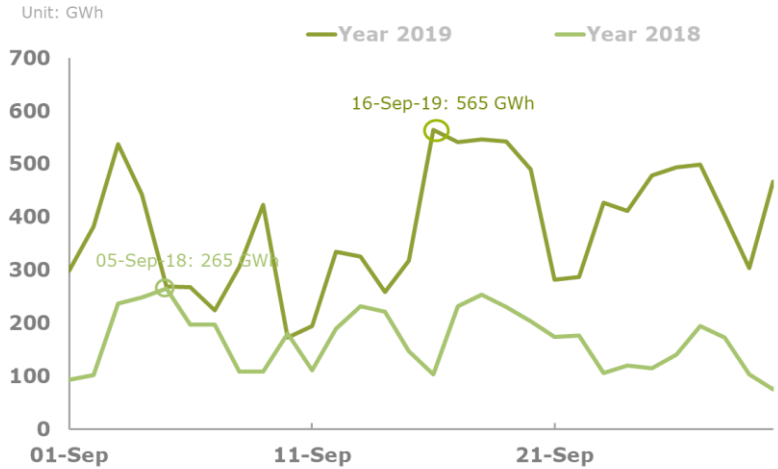
Industrial + DC

Conventional demand per CCAA (GWh)



Natural gas for power generation

Comparison 2018-2019

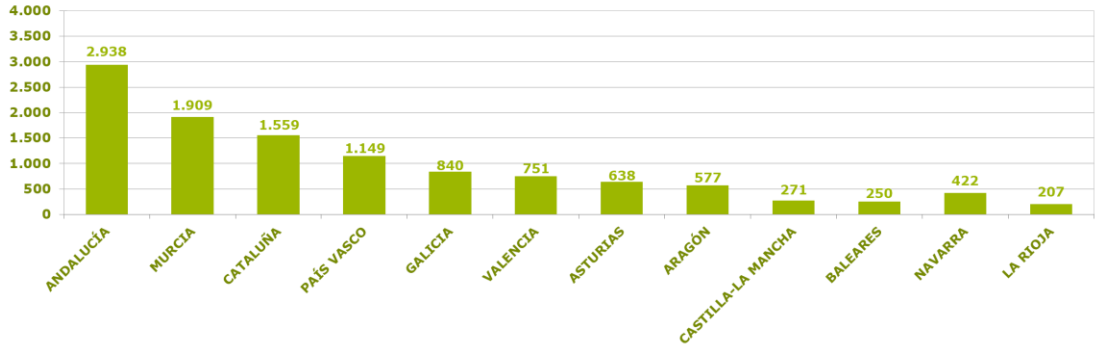


Increase 128,2% vs. 2018

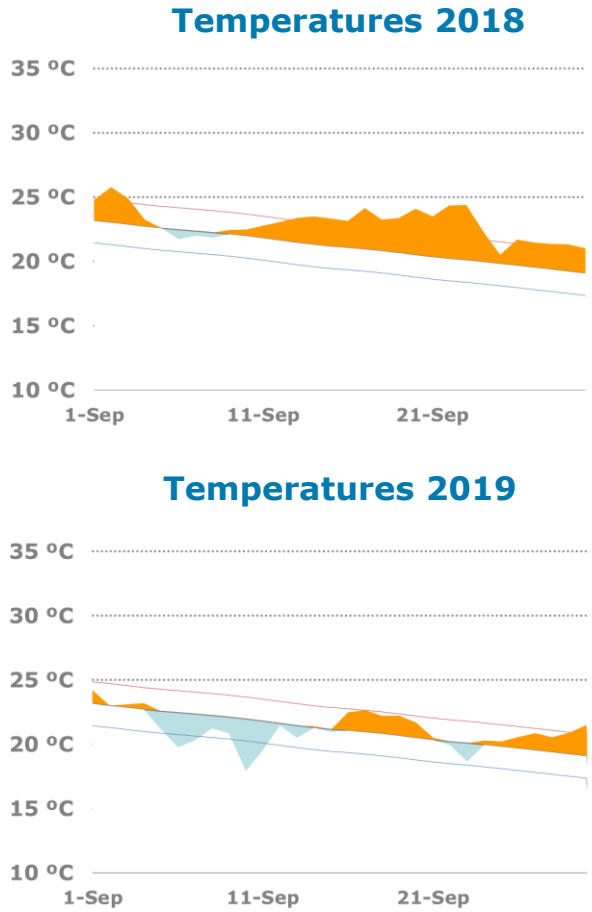
Growth per region

CTCC + CT

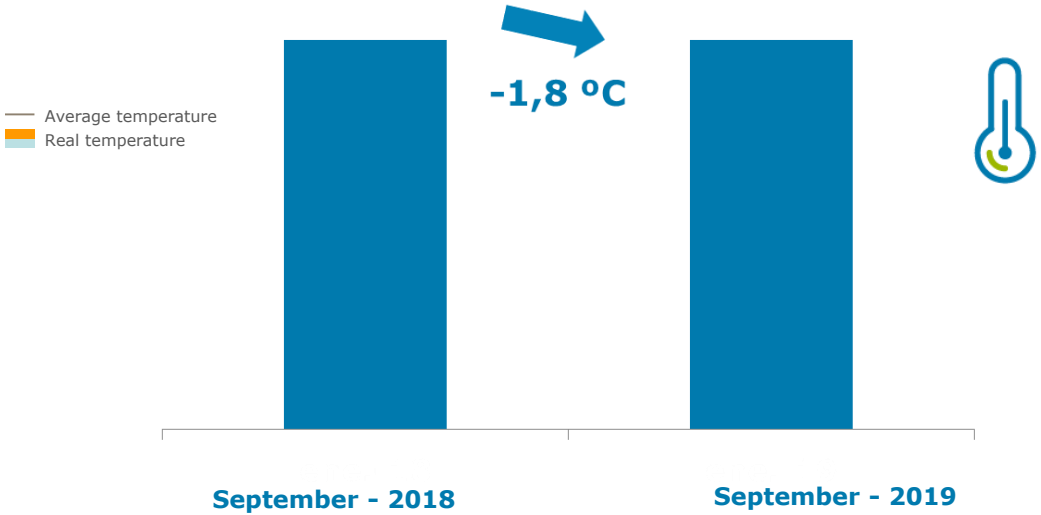
NG for Power Generation (GWh)



Demand - Temperatures

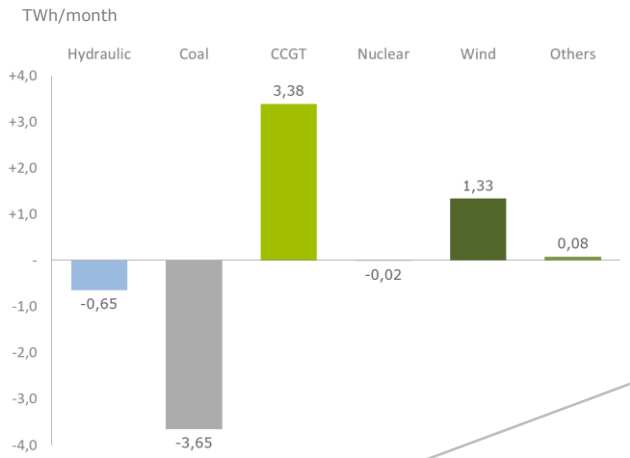


- Temperatures have been lowest during September 2019 in comparison with September 2018.
- The average temperature has been **-1.8ºC** lowest than the average of September 2018

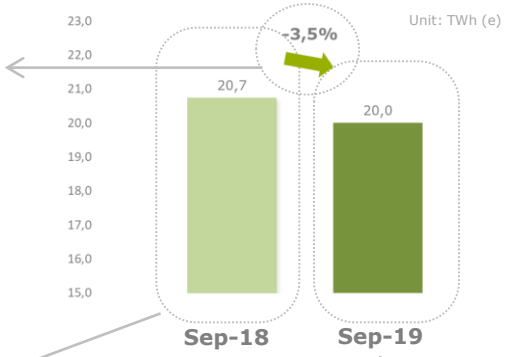


Gas for power generation

GROWTH SEP-19 VS. SEP-18



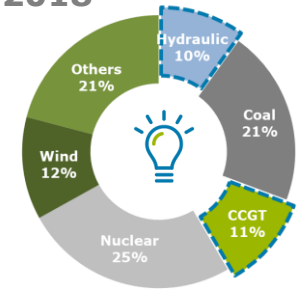
TRANSMISSION DEMAND SEP-19 VS. SEP-18



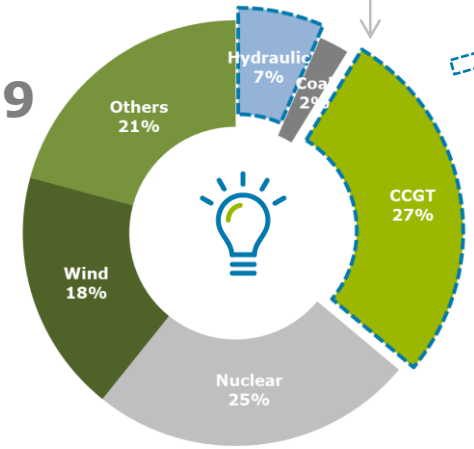
CAPACITY

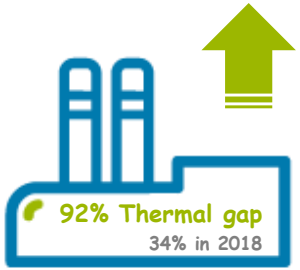
TOTAL : 56,113 hm3 = 23,281 GWh
ACTUAL : 23,038 hm3 = 7,914 GWh

2018



2019

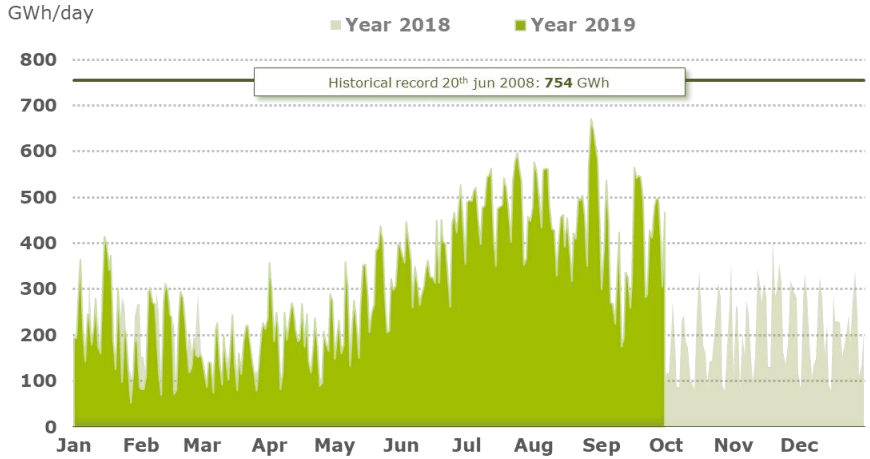




ORIGIN: RED ELÉCTRICA DE ESPAÑA

Gas for power generation

Unit: GWh	Monthly record			Mobile Anual Total Record		
	Sep-18	Sep-19	Δ s/sep-18	Year 2019	MAT Oct-2018/Sep-2019	Δ over/Year 2018
NG for Power Generation	**5.045**	**11.511**	**+128,2%**	**84.659**	**103.901**	**+68,1%**
- Thermal Power Plants	13	12	-11%	84	148	-33,4%
- CCGT's	5.032	11.499	+129%	84.575	103.752	+68,4%
Maximum daily consumption	**266** 05-Sep-18	**565** 16-Sep-19	**+112%**	**671** 27-Aug-19	**671** 27-Aug-19	**-**
Minimum daily consuption	**76** 30-Sep-18	**174** 10-Sep-19	**+130%**	**51** 27-Jan-19	**51** 27-Jan-19	**-**



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**

Origin of supplies

		Monthly record		Annual Total record		Mobile Annual Total record	
Unit: GWh		Sep-18	Sep-19	Year 2019	% 2019	MAT Oct-18/Sep-19	% MAT
Algeria	NG	13.763	6.775	82.722	29,9%	124.139	33,1%
	LNG	-	2.011	10.467		14.440	
Nigeria	LNG	3.725	3.512	37.574	12,1%	51.878	12,4%
Qatar	LNG	5.028	5.061	41.371	13,3%	49.522	11,8%
T&T	LNG	1.676	4.053	28.124	9,0%	34.932	8,4%
Peru	LNG	858	860	860	0,3%	8.387	2,0%
France	NG	3.371	4.153	41.965	13,5%	56.671	13,6%
	LNG	-	-	-		-	
Angola	LNG	-	-	3.051	1,0%	3.051	0,7%
United States	LNG	-	6.529	26.860	8,6%	28.930	6,9%
Norway	LNG	-	-	5.518	1,8%	7.381	1,8%
Bélgica	LNG	-	-	1.038	0,3%	1.038	0,2%
National gas field	NG	95	80	1.115	0,4%	1.482	0,4%
National biogas	NG	6	7	75	0,0%	101	0,0%
Portugal	NG	-	-	1.655	0,5%	1.715	0,4%
Dominican Republic	LNG	-	-	-	0,0%	338	0,1%
Russia	LNG	997	7.480	27.954	9,0%	32.364	7,7%
Cameroon	LNG	-	-	966	0,3%	1.829	0,4%
TOTAL		**29.519**	**40.520**	**311.315**	**100%**	**418.199**	**100%**

Content

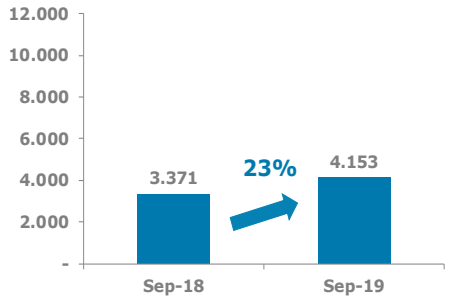
1. **Natural gas demand**
   - Natural gas demand flow-up
   - Evolution of conventional demand and power generation
   - Consumption by geographic location
2. **Origin of supplies**
3. **Interconnection Points**
4. **Regasification Plants**
   - Unloads and loads of LNG vessels
   - Production at regasification plants
   - Activity by LNG plant
5. **Underground storage**
6. **Operating notes**

Interconnection points

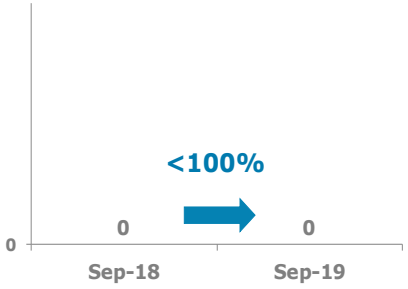
Imports

Unit:: GWh

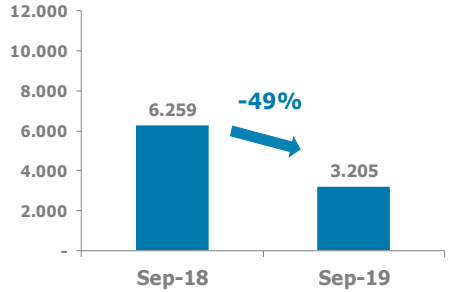
VIP PIRINEOS



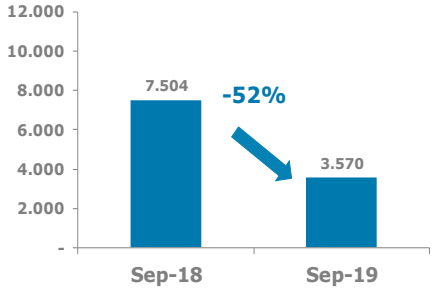
VIP IBÉRICO



ALMERÍA



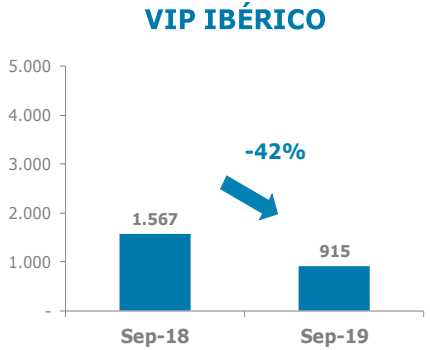
TARIFA

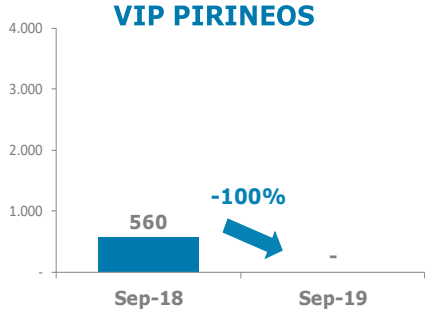


Interconnection points

Exports

Unit: GWh





Interconnection points

Balance

Unit: GWh	Monthly Record				Monthly Mobile Anual Record	
	Sep-18	Sep-19	Δ over/Sep-18	Year 2019	MAT Oct-18/Sep-19	Δ s/2018
Tarifa GME	7.504	3.570	-52%	36.077	55.632	-47%
Almería MEDGAZ	6.259	3.205	-49%	46.644	68.507	-14%
VIP PIRINEOS	2.811	4.153	48%	41.644	55.313	75%
VIP IBÉRICO	-1.567	-915	-42%	-3.843	-7.614	-66%
National gas field	95	80	-16%	1.115	1.482	53%
National biogas	6	7	24%	75	101	7%
TOTAL	**15.108**	**10.100**	**-33%**	**121.714**	**173.421**	**-10,8%**

(+) Entry flows; (-) Exit flows

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**

Activity at Barcelona plant

Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	163	203
LNG Trucks	GWh/day	9	15
% average contract vs. nominal		31%	39%
% average contract use		76%	87%

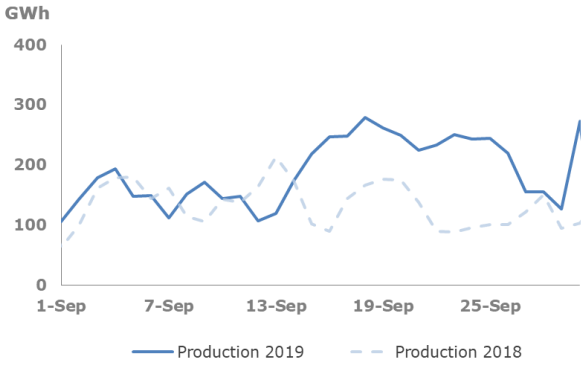
2018

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

2019

8 LNG Unloaded
(7.474 GWh)
0 LNG Loaded
(46 GWh)

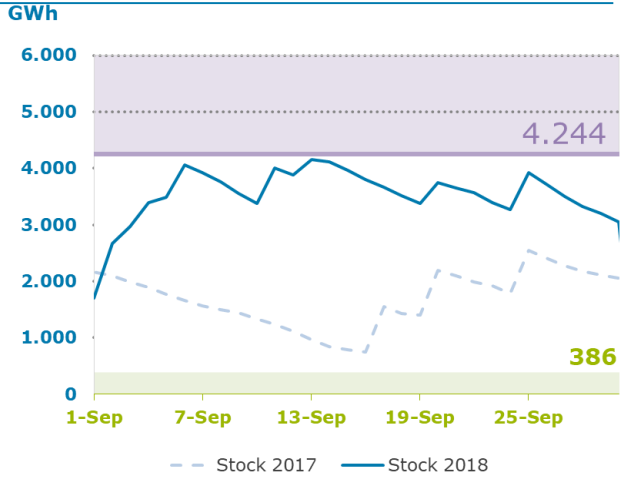
* Bunkering



Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	544	544
	LNG Trucks	GWh/day	15	15
	Total	**GWh/day**	559	559
Monthly production		**GWh**	3.985	5.909

Activity at Huelva plant

Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	142	198
LNG Trucks	GWh/day	9	13
% average contract vs. nominal		39%	54%
% average contract use		61%	73%

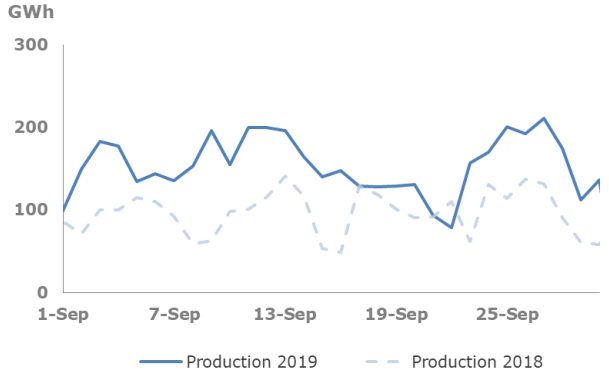


2018

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

2019

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



Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	**GWh/day**	392	392
Monthly production		**GWh**	2.900	4.843

Activity at Cartagena plant

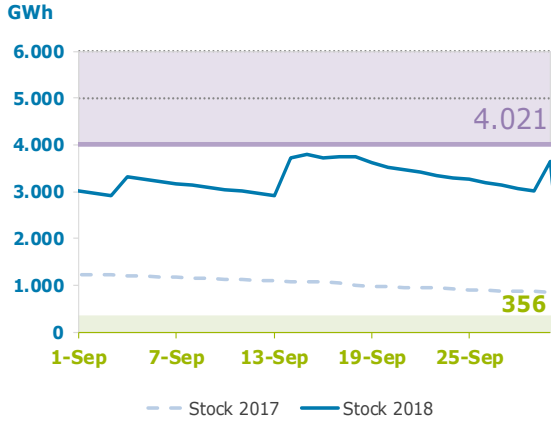
Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	10	74
LNG Trucks	GWh/day	7	9
% average contract vs. nominal		4%	21%
% average contract use		101%	64%

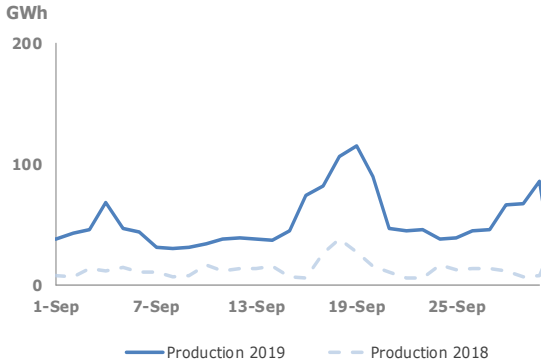
<u>2018</u>

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

<u>2019</u>

4 Descargas
(2.409 GWh)
0 LNG Loaded
(0 GWh)

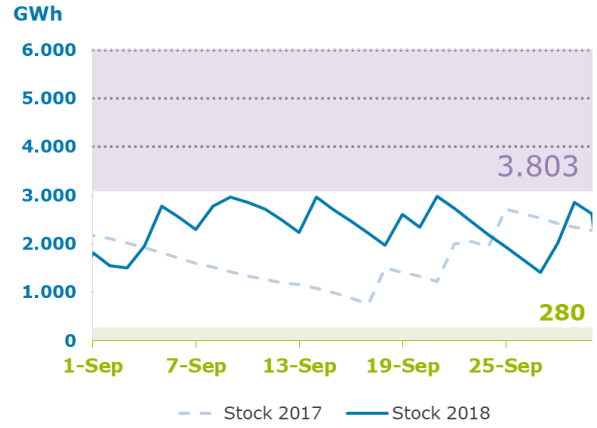




Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	377	377
	LNG Trucks	GWh/day	15	15
	Total	**GWh/day**	392	392
Monthly production		**GWh**	379	1.810

Activity at Bilbao plant

Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	106	249
LNG Trucks	GWh/day	2	5
% average contract vs. nominal		47%	111%
% average contract use		85%	≈100%



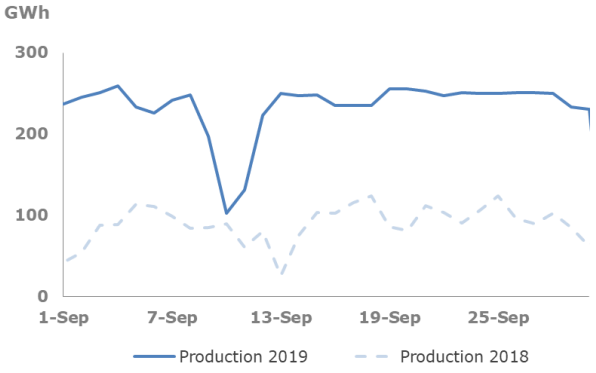
2018

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

2019

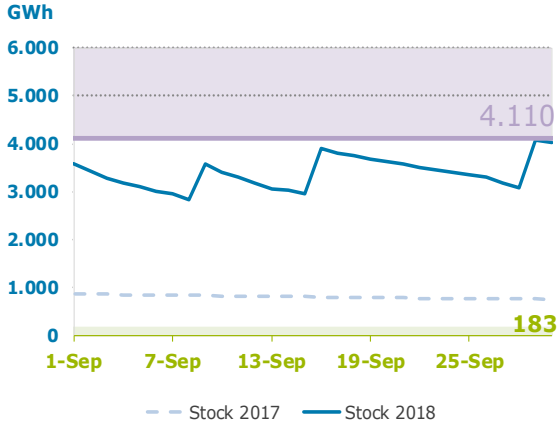
9 LNG Unloaded
(8.647 GWh)
1 LNG Loaded
(19 GWh)

Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	223	223
	LNG Trucks	GWh/day	5	5
	Total	**GWh/day**	228	249
Monthly production		**GWh**	2.683	7.128



Activity at Sagunto plant

Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	0	92
LNG Trucks	GWh/day	3	4
% average contract vs. nominal		1%	33%
% average contract use		52%	88%

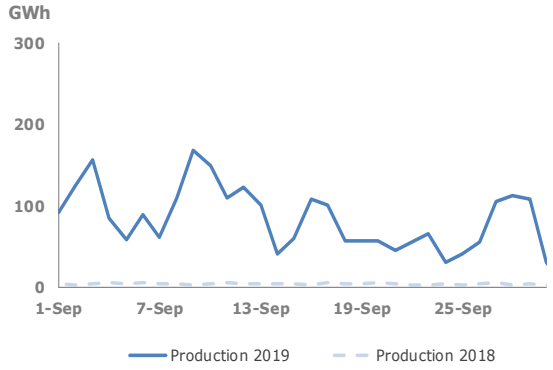


2018

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

2019

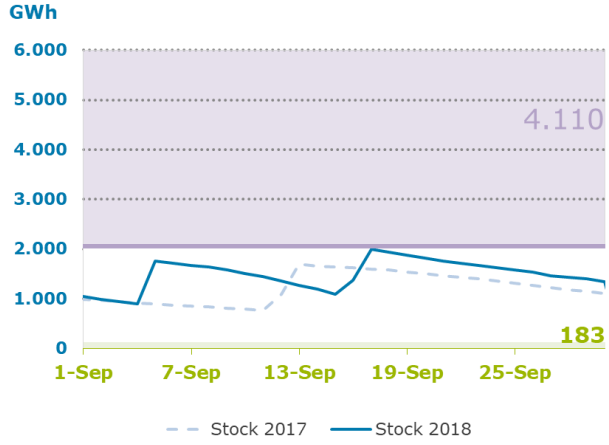
3 LNG Unloaded
(3.023 GWh)
0 LNG Loaded
(0 GWh)



Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	279	279
	LNG Trucks	GWh/day	10	10
	Total	GWh/day	290	290
Monthly production		GWh	116	2.657

Activity at Mugardos plant

Contract information (Average value)		Sep-18	Sep-19
Send-out	GWh/day	31	53
LNG Trucks	GWh/day	4	4
% average contract vs. nominal		28%	45%
% average contract use		97%	94%



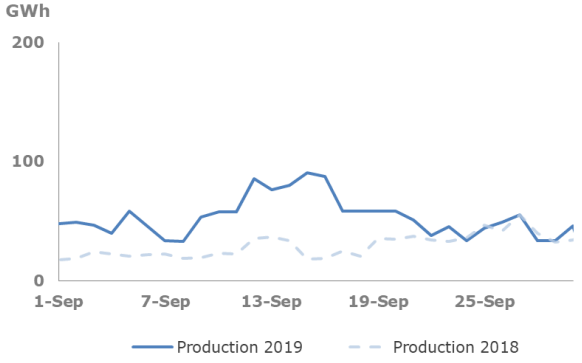
2018

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

2019

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

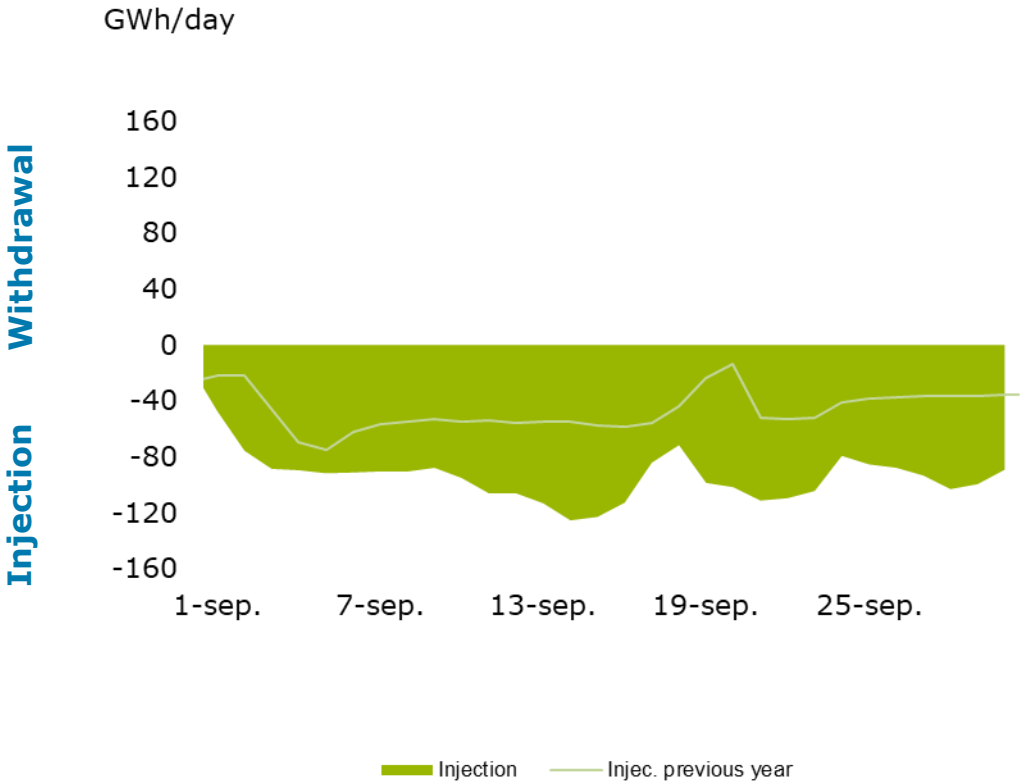
Physical production			Sep-18	Sep-19
Nominal	Send-out	GWh/day	115	115
	LNG Trucks	GWh/day	10	10
	Total	**GWh/day**	126	126
Monthly production		**GWh**	886	1.701



Content

Underground storage

Withdrawal / injection season



Withdrawal Sep 2019
2,806 GWh

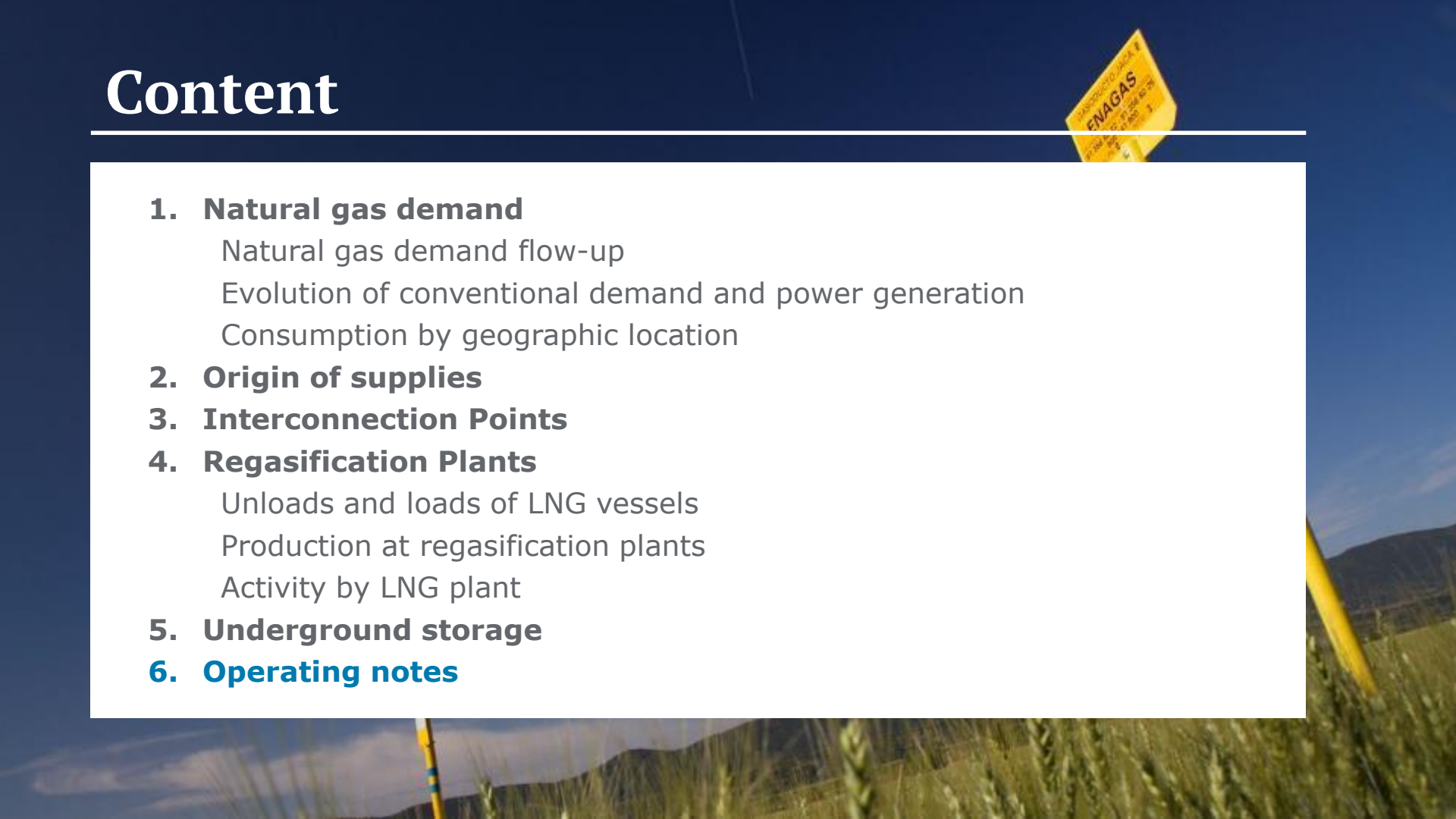
29,299 GWh

Booked capacity

Withdrawal Sep 2018
1.403 GWh

1st to 30th September 2019

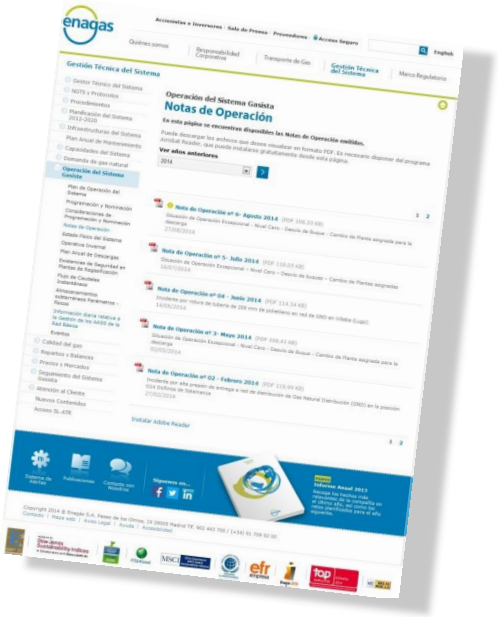
Content



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**

Operating notes

No Operating Notes were published during **September 2019**



The Operating notes can be checked at the Enagás Website

Thank you