

Price report

2017

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|Price report 2017

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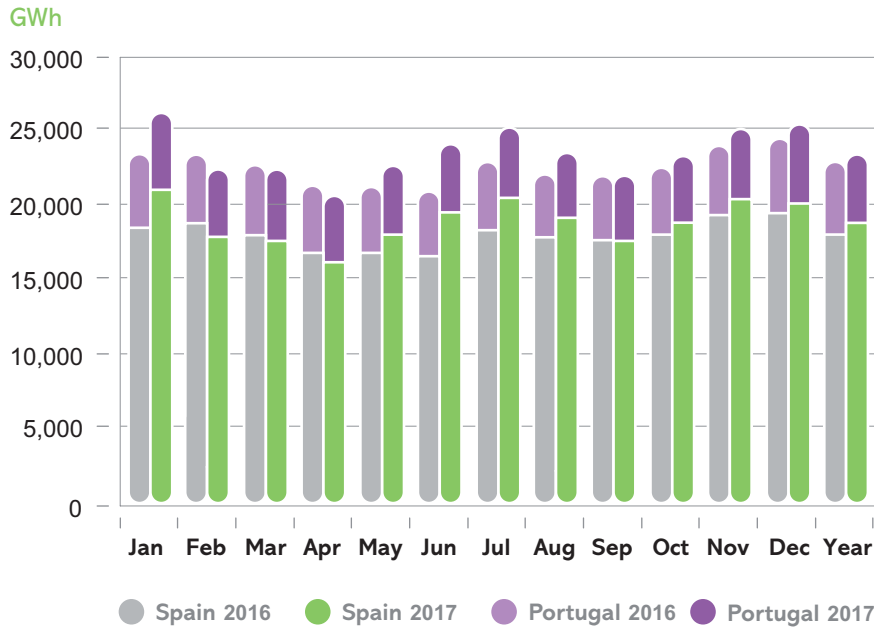
MIBEL: Energy, economic volume and technologies

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1.1.

Purchases on the MIBEL of energy traded on the Daily and Intraday Markets

The Spanish zone includes exports across the borders with France, Morocco and Andorra

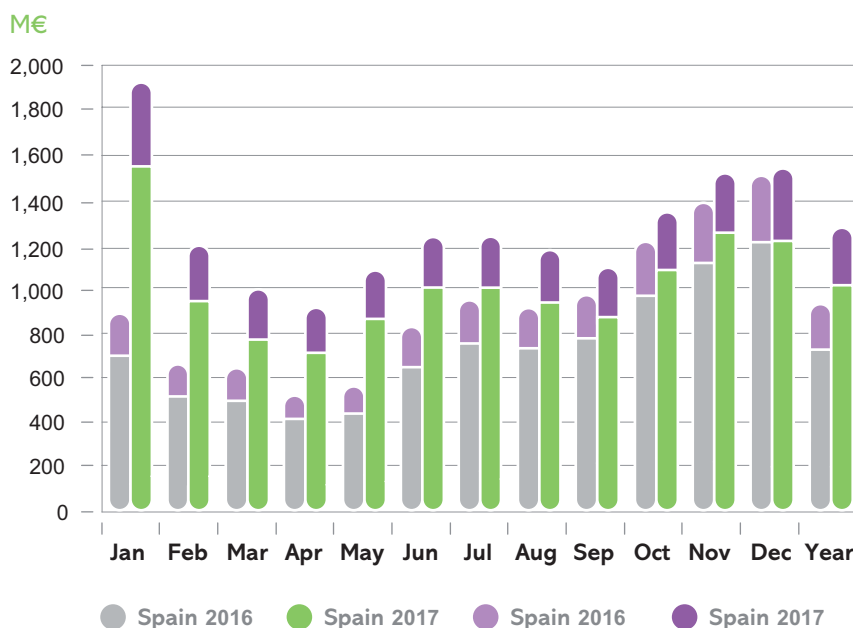


Variation
2017-2016
4.3
%

1.2.

Economic value of the purchases negotiated on the Daily and Intraday Markets

The Spanish zone includes exports across the borders with France, Morocco and Andorra



Variation
2017-2016
37.8
%

1.3.

Energy values and contracting on the MIBEL

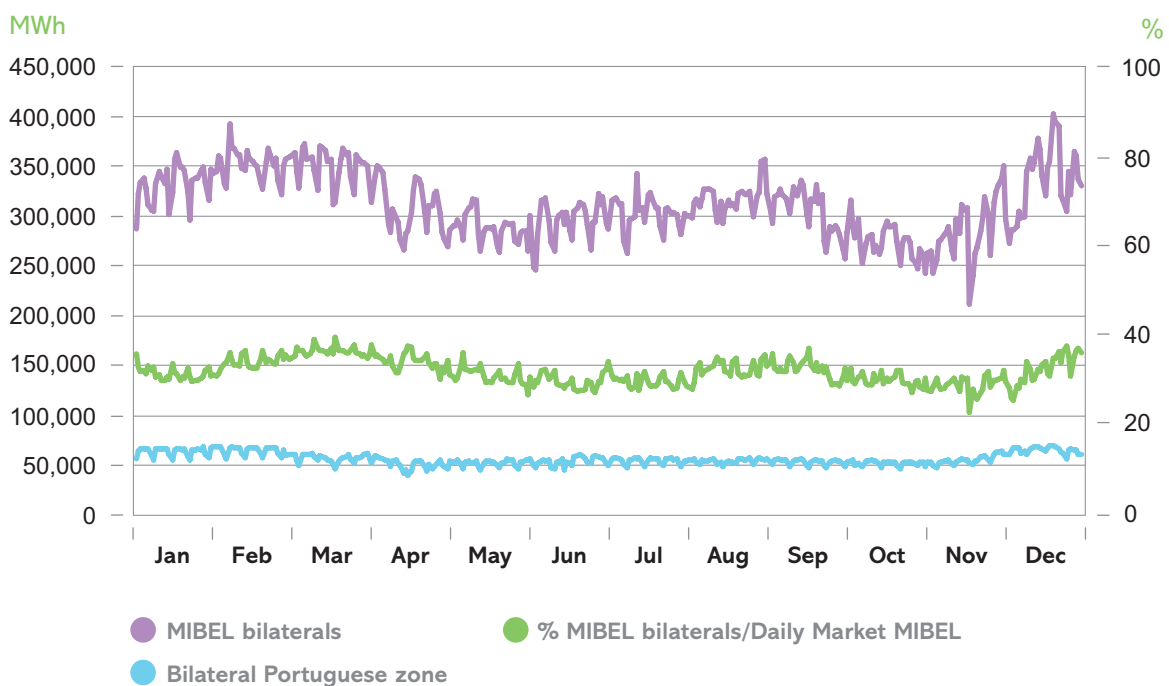
2017

	Daily Market		Intraday Market		Total	
	Energy GWh	Contracting kEUR	Energy GWh	Contracting kEUR	Energy GWh	Contracting kEUR
Jan	23,223	1,714,858	2,764	209,836	25,987	1,924,694
Feb	19,583	1,037,749	2,767	145,744	22,350	1,183,493
Mar	19,178	849,646	3,117	138,361	22,295	988,007
Apr	17,763	791,271	2,708	120,165	20,471	911,436
May	19,654	947,930	2,775	132,189	22,429	1,080,119
Jun	21,146	1,085,866	2,954	149,793	24,100	1,235,659
Jul	21,921	1,086,840	2,939	143,102	24,860	1,229,942
Aug	20,627	1,004,247	2,834	134,849	23,461	1,139,096
Sep	19,040	953,652	2,886	141,585	21,926	1,095,237
Oct	19,809	1,148,156	3,433	199,074	23,242	1,347,230
Nov	21,479	1,307,475	3,424	214,725	24,903	1,522,200
Dec	22,226	1,353,052	3,001	182,700	25,227	1,535,752
Year	245,650	13,280,742	35,601	1,912,122	281,251	15,192,864

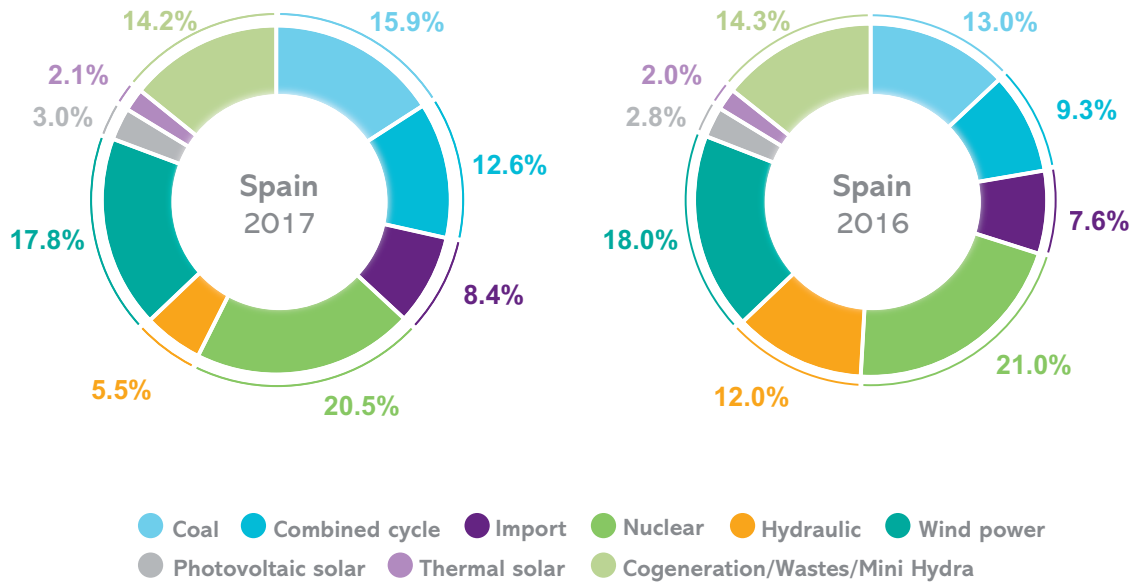
1.4.

Energy traded on the daily and intraday markets and final demand on the MIBEL

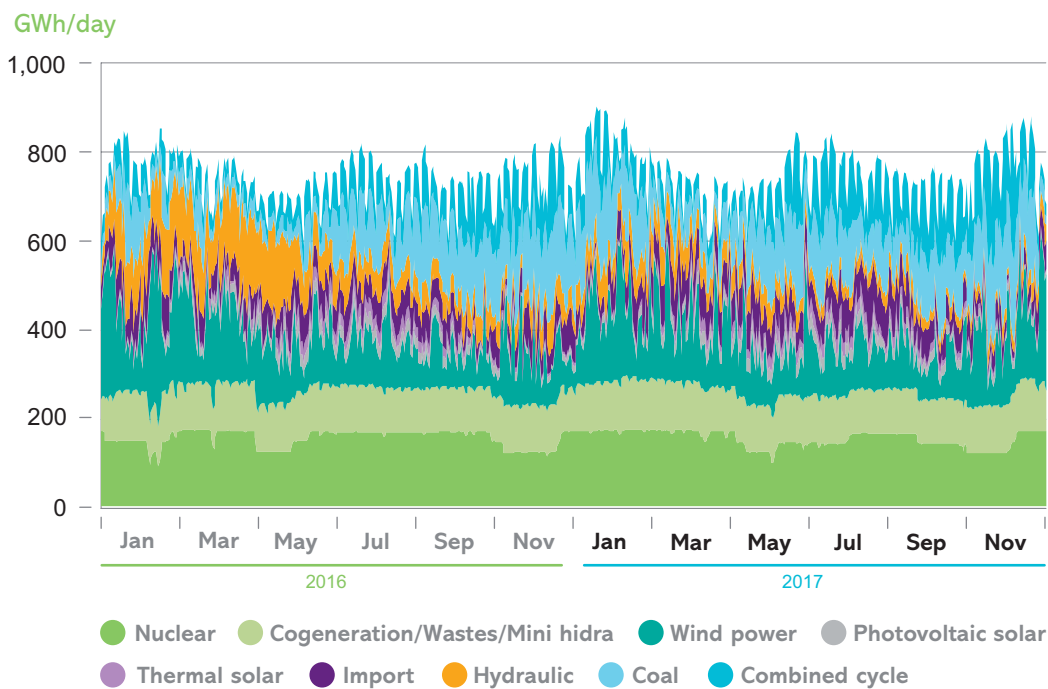
2017



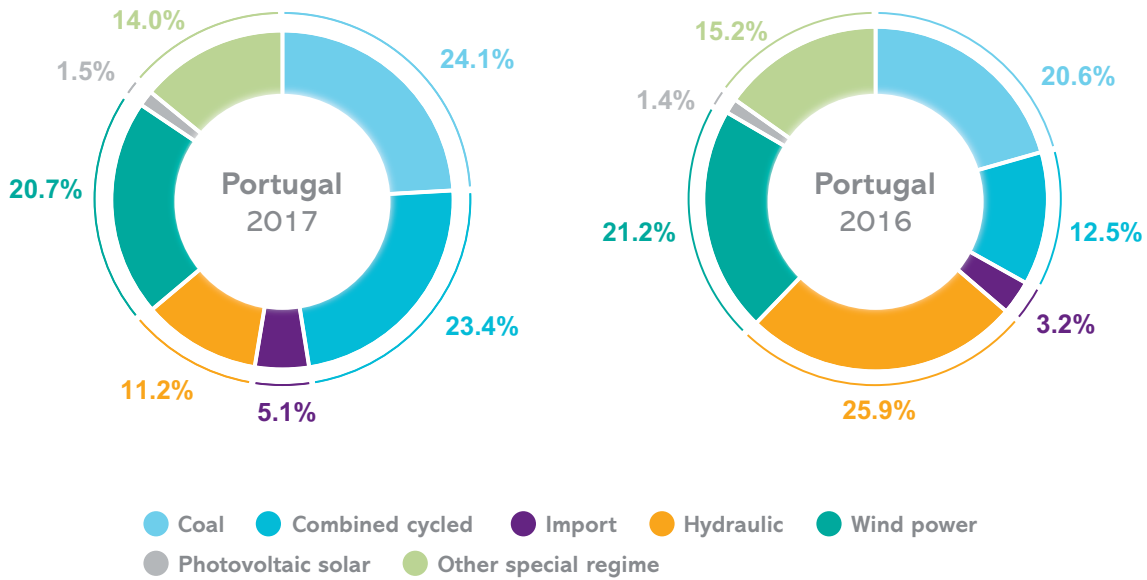
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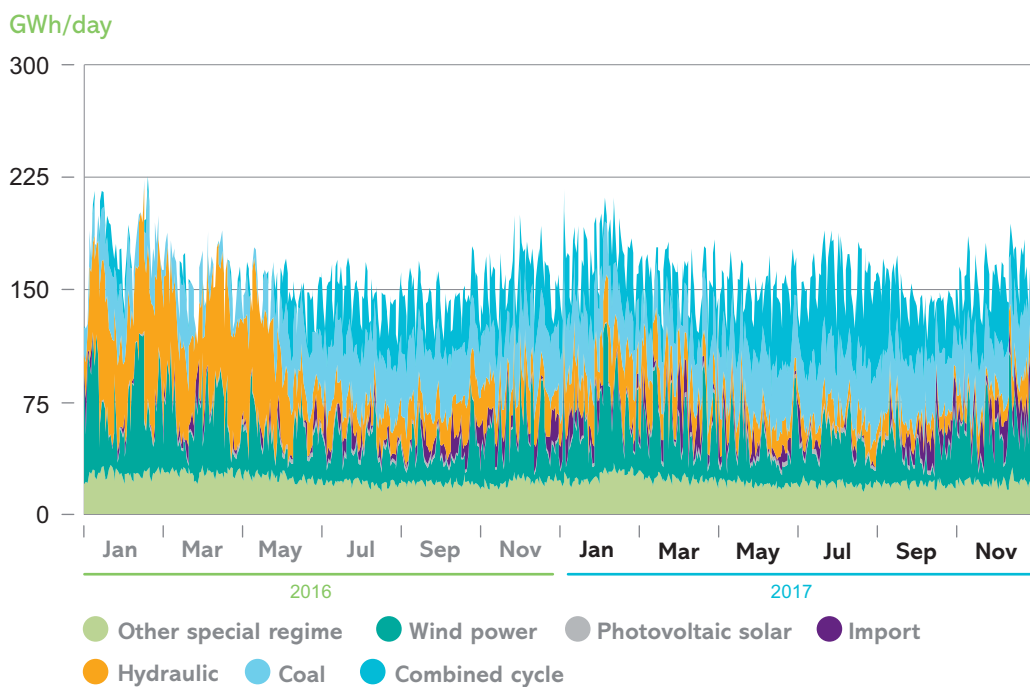
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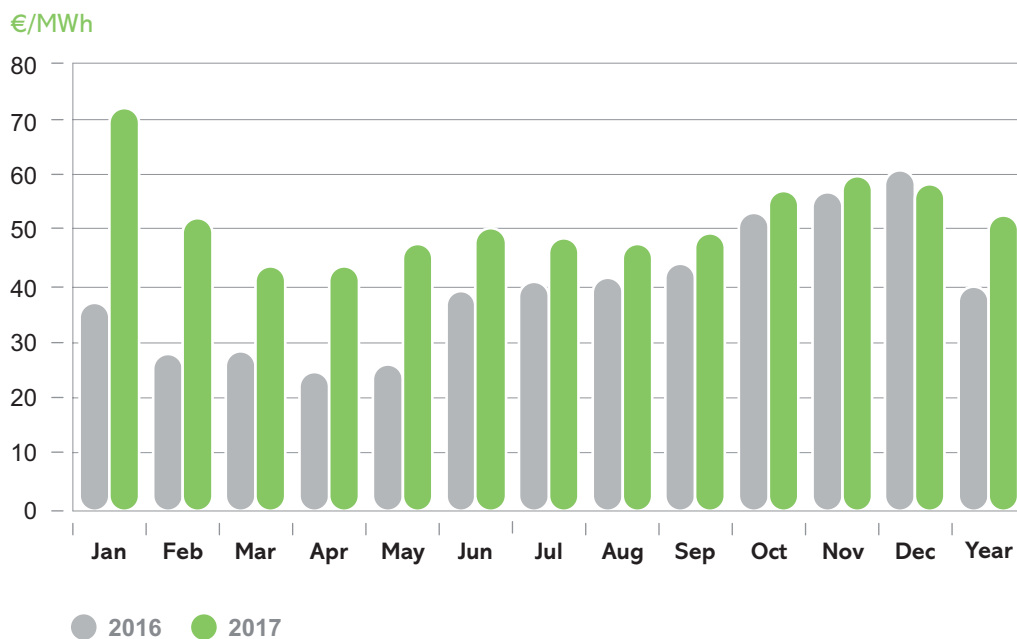
2.1.1

Monthly energy and Average monthly price of the Daily Market

Spanish side

	Average Monthly Price (€/MWh)		Energy Purchased (GWh)	
	2017	2016	2017	2016
Jan	71.49	36.53	17,753	15,561
Feb	51.74	27.50	14,935	16,003
Mar	43.19	27.80	14,722	15,291
Apr	43.69	24.11	13,783	13,653
May	47.11	25.77	15,532	13,981
Jun	50.22	38.90	17,053	14,325
Jul	48.63	40.53	17,696	15,979
Aug	47.46	41.16	16,569	15,669
Sep	49.15	43.59	15,029	15,382
Oct	56.77	52.83	15,589	14,719
Nov	59.19	56.13	16,557	16,390
Dec	57.94	60.49	16,997	17,018
Year	52.24	39.67	192,214	183,970

Average monthly price of the Daily Market 2016 - 2017



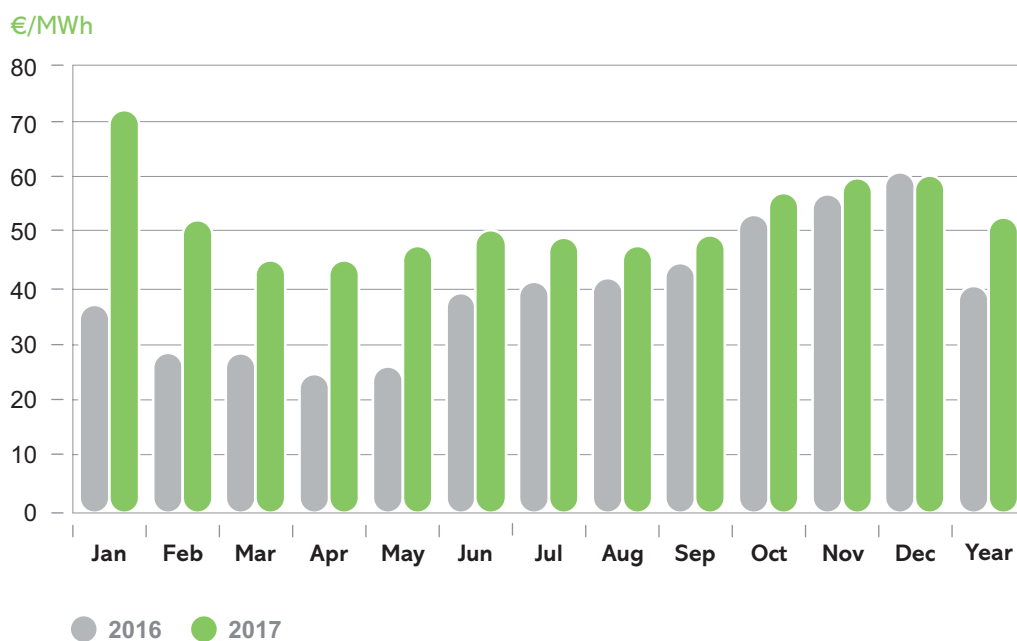
2.1.2

Monthly energy and Average monthly price of the Daily Market

Portuguese side

	Average Monthly Price (€/MWh)		Energy Purchased (GWh)	
	2017	2016	2017	2016
Jan	71.52	36.39	4,671	4,483
Feb	51.39	27.35	4,174	4,197
Mar	43.95	27.70	4,348	4,300
Apr	44.18	23.50	3,960	3,955
May	47.12	24.93	4,121	3,971
Jun	50.22	38.28	4,093	3,854
Jul	48.60	40.36	4,225	4,214
Aug	47.43	41.14	4,058	3,966
Sep	49.16	43.61	4,011	3,914
Oct	56.97	52.78	4,137	4,060
Nov	59.36	56.25	4,151	4,143
Dec	59.49	60.27	4,691	4,445
Year	52.48	39.44	50,640	49,501

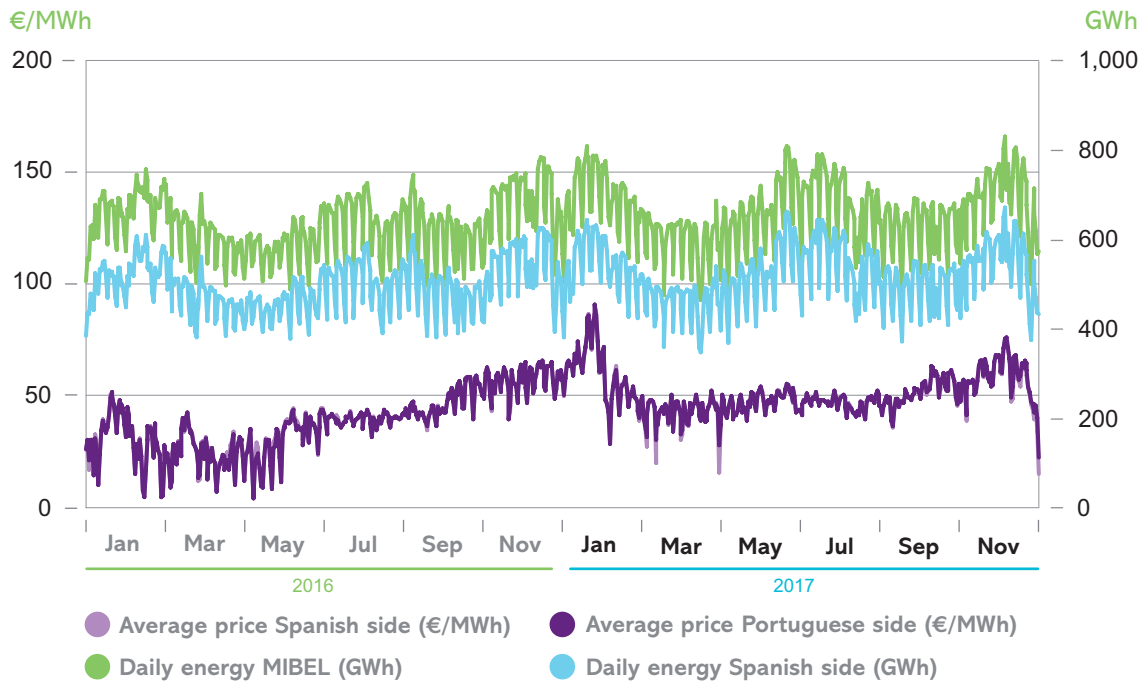
Average monthly price of the Daily Market 2016 - 2017



2.2.

Energy and price of the Daily Market MIBEL

2016 - 2017

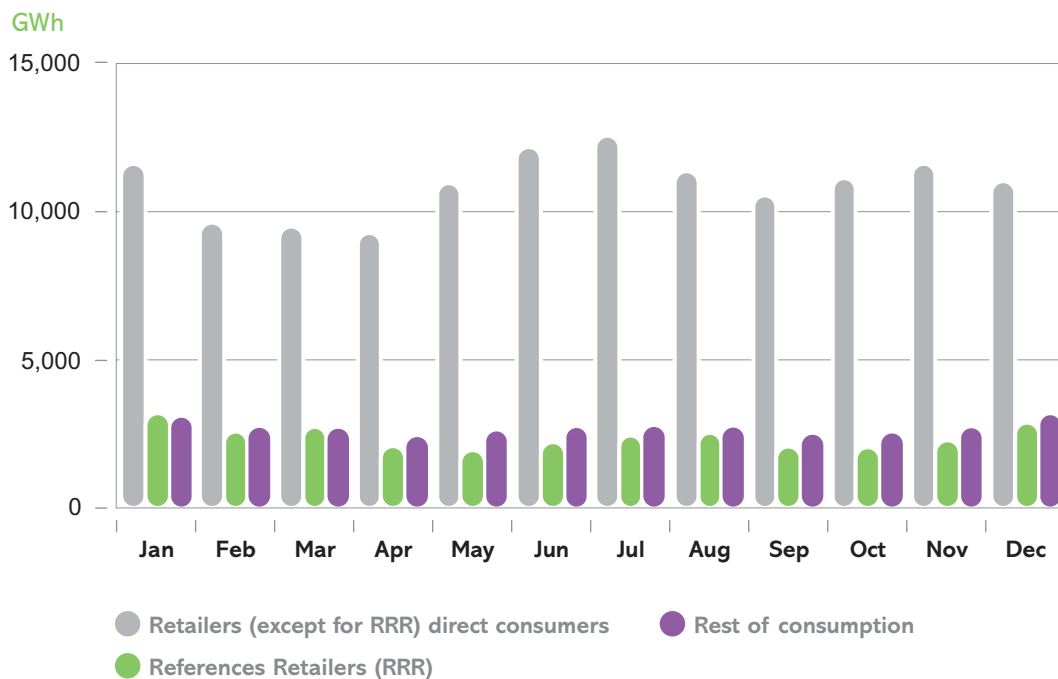


2.3.

Acquisitions on the Daily Market

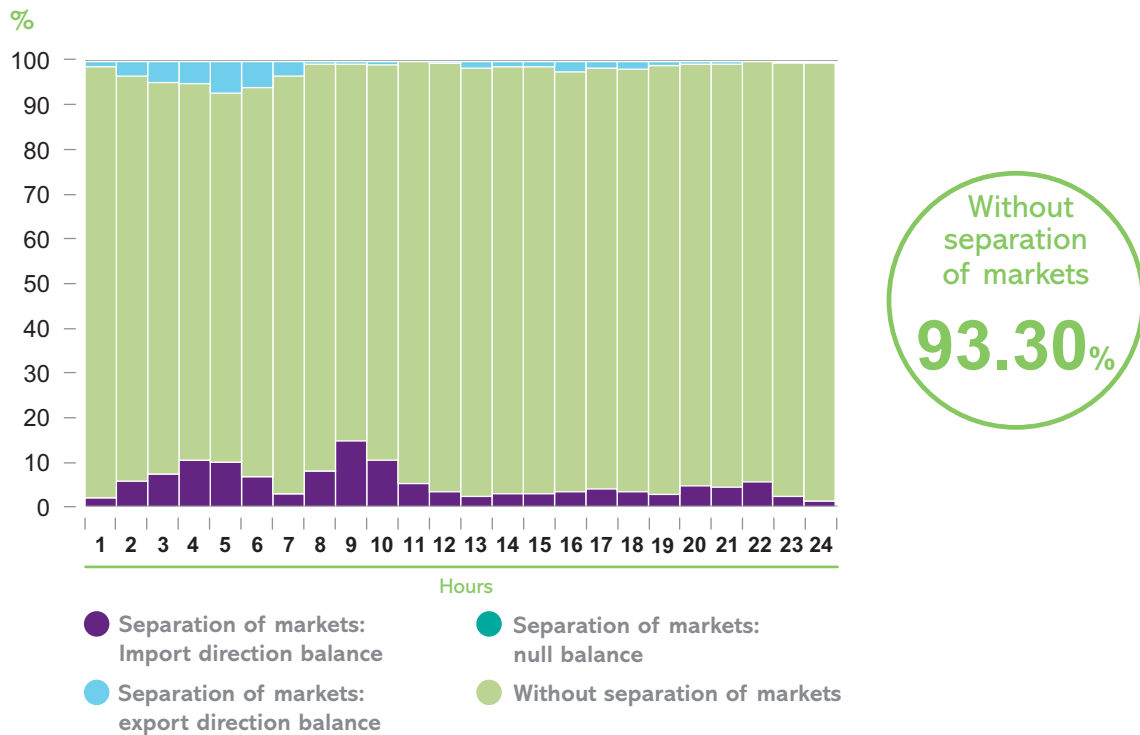
Spanish Electricity System

2017



2.4. Percentage of the number of hours with market splitting by hourly period in the Daily Market

2016 - 2017



2.5. Significant figures of the Daily Market

2017

Prices	Spain		Portugal	
	€/MWh	Date	€/MWh	Date
Peak Hourly	101.99	1 hour (25 January)	101.99	1 hours (21 January)
Minimum Hourly	2.30	2 hours (30 April)	8.00	1 hours (05 February)
Maximum Price Differ	70.24	11 December	52.07	05 February
Minimum Price Differ	3.19	29 August	3.19	29 August
Average Daily Maximum	91.88	25 January	91.91	25 January
Average Daily Maximum	16.15	31 December	23.63	31 December
Average Montly Maximum	71.49	January	71.52	January
Average Mensual Minimum	43.19	March	43.95	March



Intraday Market

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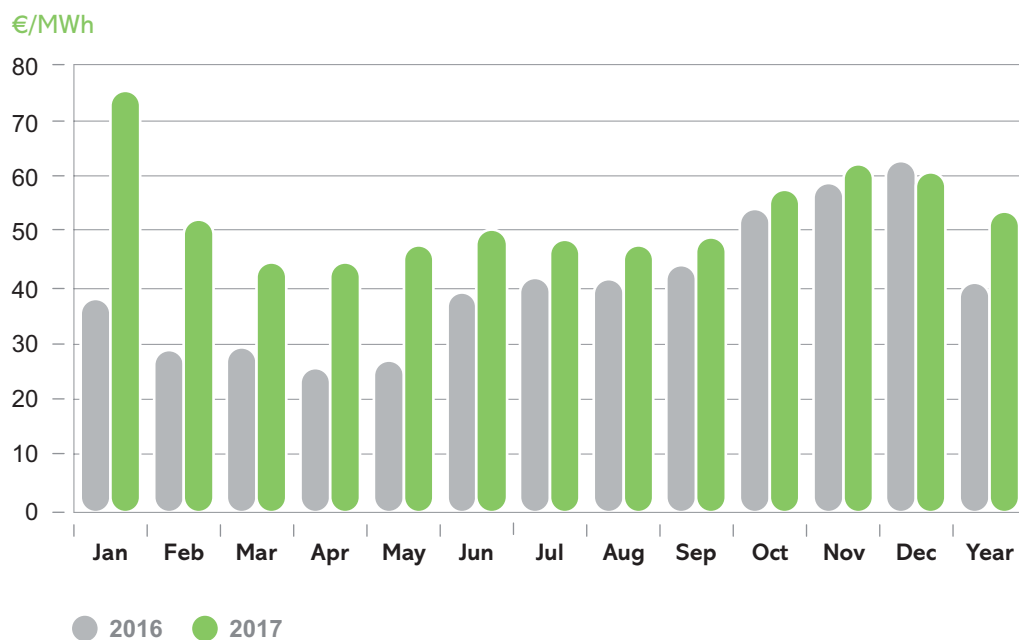
3.1.1

Monthly energy and Average monthly price of the Intraday Market

Spanish side

	Average Monthly Price (€/MWh)		Energy Purchased (GWh)	
	2017	2016	2017	2016
Jan	74.97	37.68	2,438	2,500
Feb	52.20	28.34	2,443	2,320
Mar	44.08	28.86	2,715	2,341
Apr	44.01	25.13	2,346	2,382
May	47.51	26.53	2,439	2,493
Jun	50.31	38.95	2,648	2,234
Jul	48.47	41.36	2,611	2,300
Aug	47.38	41.28	2,534	2,117
Sep	48.73	44.08	2,611	2,240
Oct	57.36	53.80	3,133	2,627
Nov	61.79	58.20	3,052	2,474
Dec	60.27	62.30	2,667	2,176
Year	53.12	40.60	31,636	28,205

Average monthly price of the Intraday Market
2016 - 2017



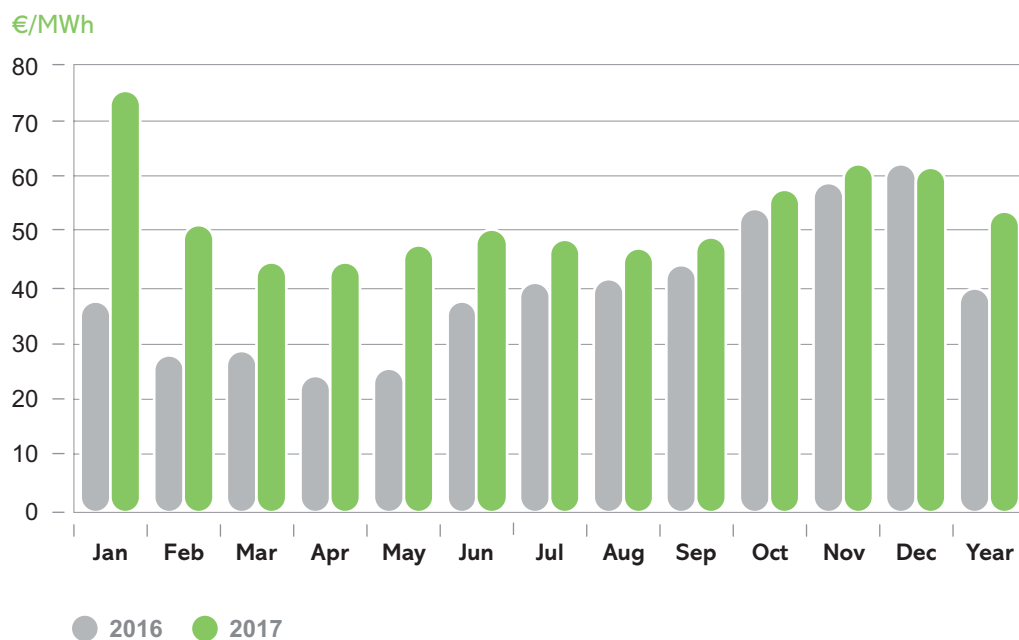
3.1.2

Monthly energy and Average monthly price of the Intraday Market

Portuguese side

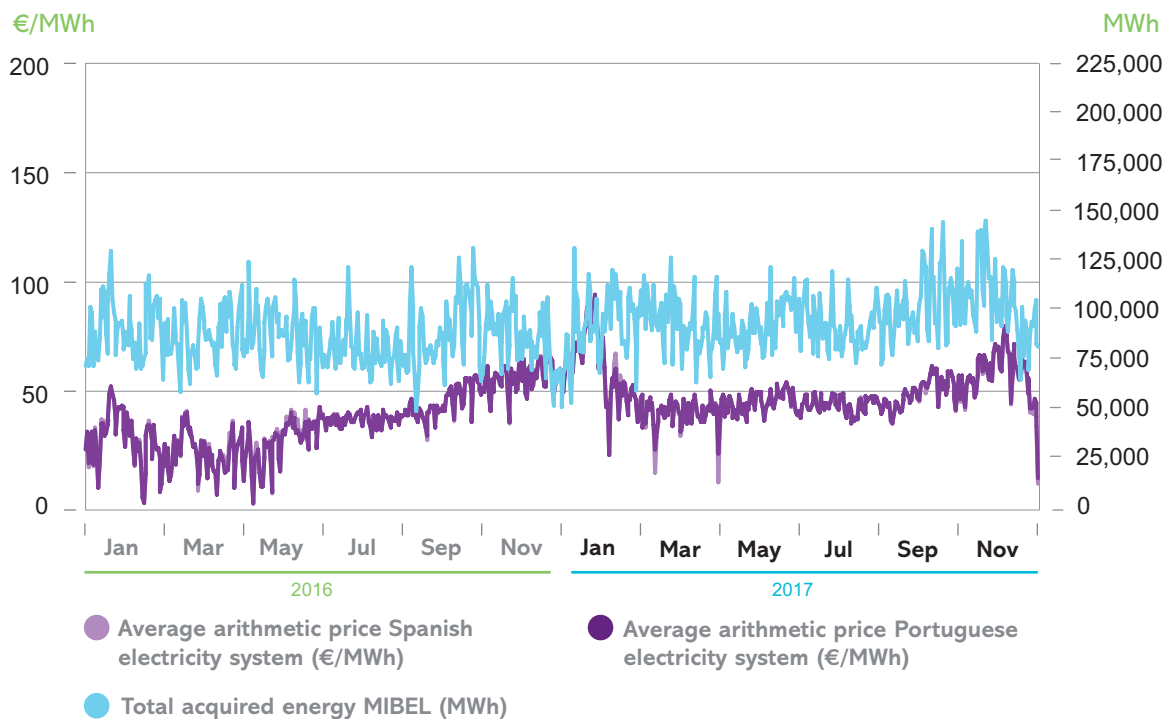
	Average Monthly Price (€/MWh)		Energy Purchased (GWh)	
	2017	2016	2017	2016
Jan	74.93	37.28	326	384
Feb	51.28	28.14	324	322
Mar	44.65	28.72	402	324
Apr	44.47	24.20	362	357
May	47.51	25.69	336	394
Jun	50.31	37.67	306	348
Jul	48.45	41.16	327	300
Aug	47.34	41.26	300	331
Sep	48.73	44.08	276	236
Oct	57.56	53.84	300	390
Nov	62.00	58.28	373	327
Dec	61.20	62.02	334	298
Year	53.24	40.25	3,965	4,011

Average monthly price of the Intraday Market
2016 - 2017



3.2. Energy and Price of the Intraday Market

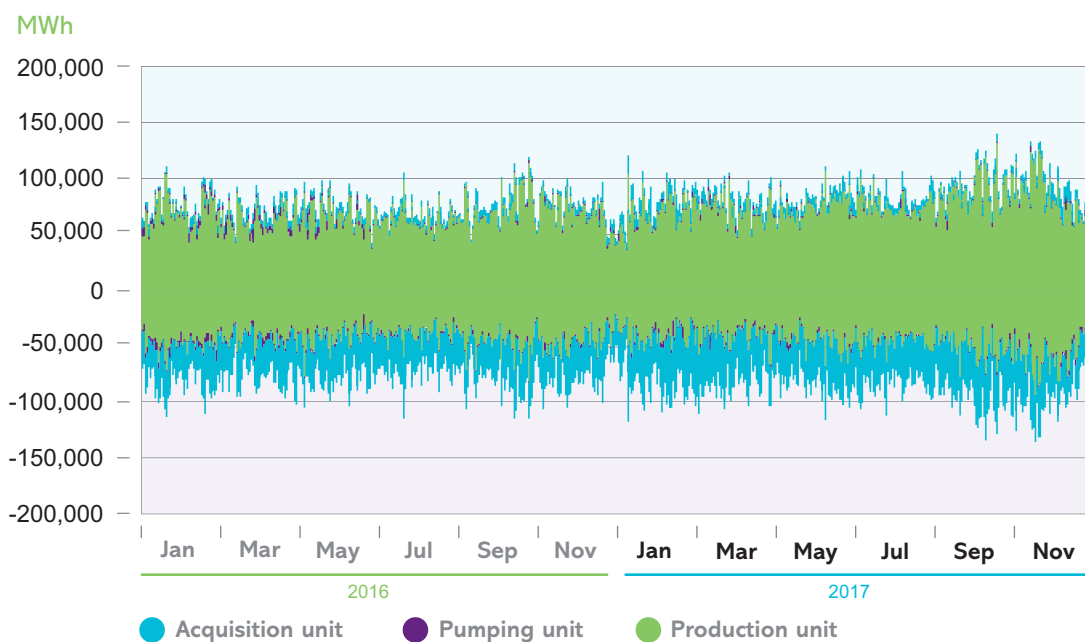
2016 - 2017



3.3. Sales and purchases on the Intraday Market

Spanish Electricity System

2016 - 2017

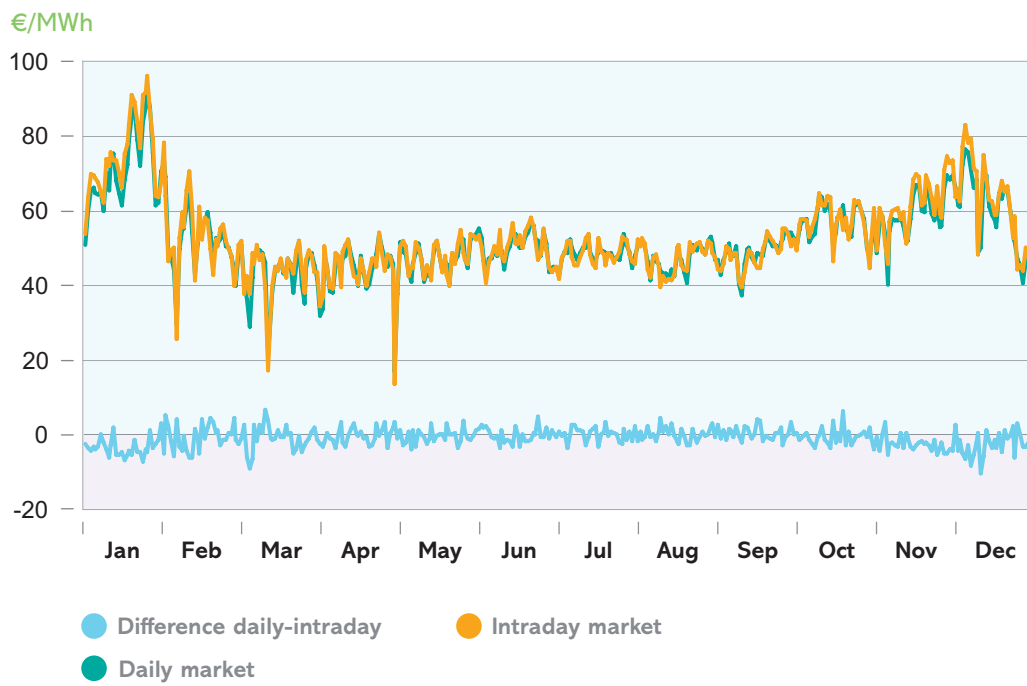


3.4.

Comparison of average arithmetic Daily prices of the Daily and Intraday Markets

Spanish Electricity System

2017



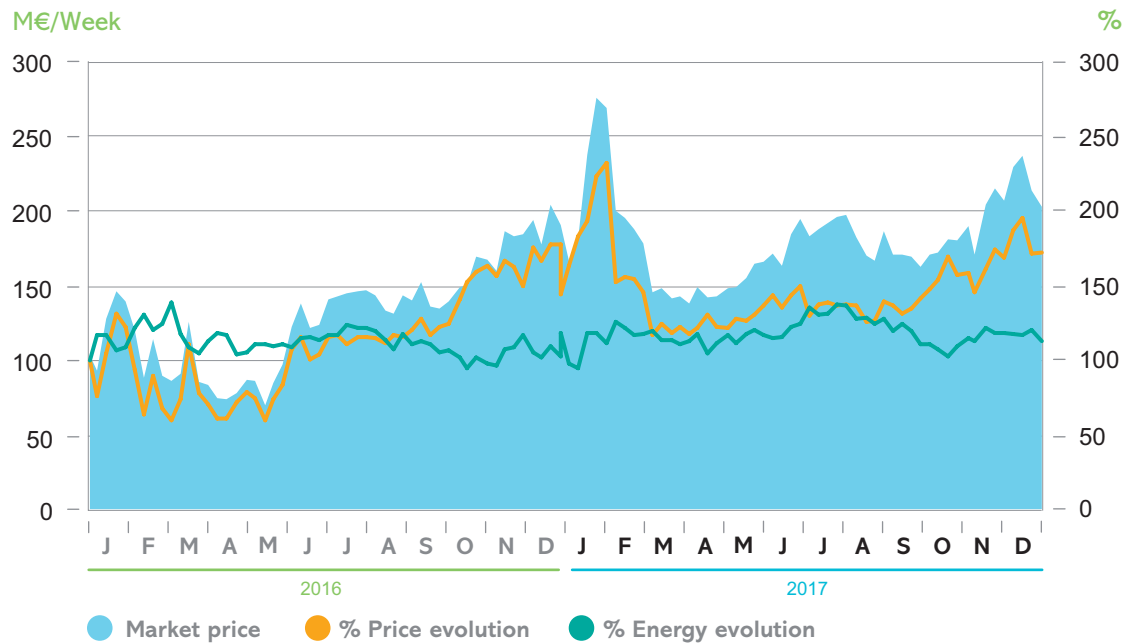


Settlement of the Daily and Intraday Market

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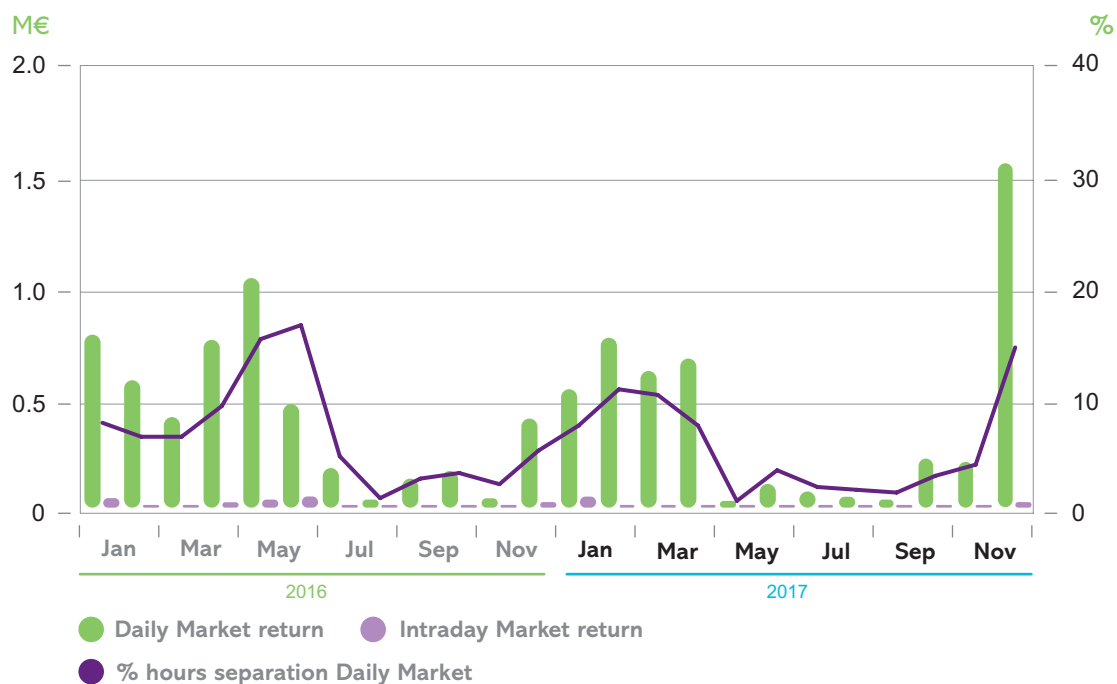
4.1. Weekly trend in the volume of collections and payments, in price and energy. Daily and Intraday Markets

2016 - 2017



4.2. Congestion return in the Spanish-Portuguese interconnection

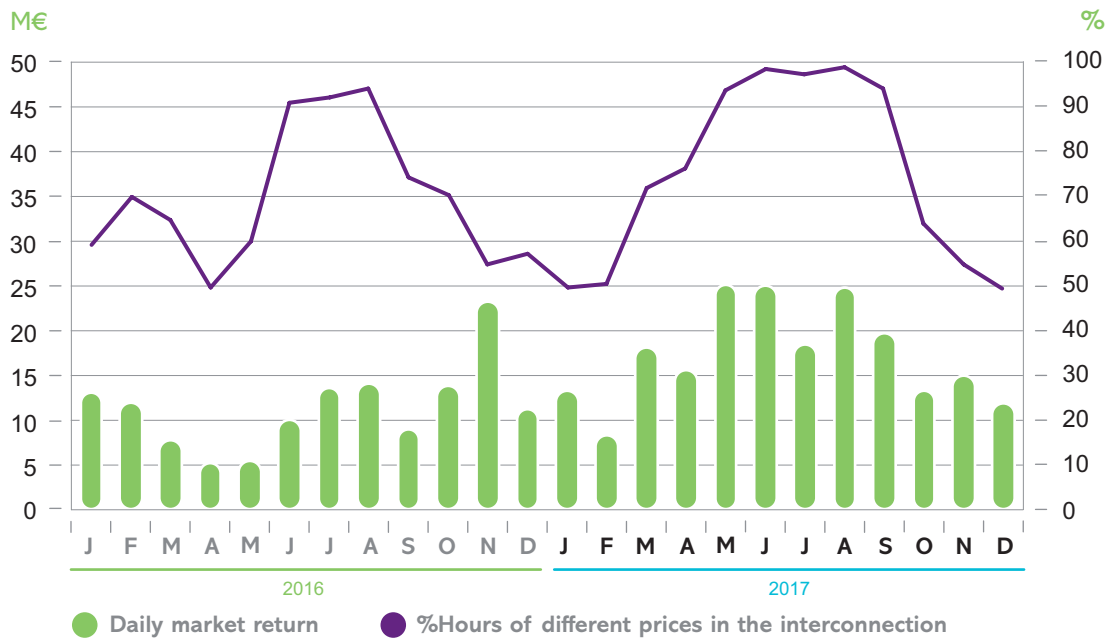
2016 - 2017



4.3.

Congestion return in the Spanish-French interconnection

2016 - 2017





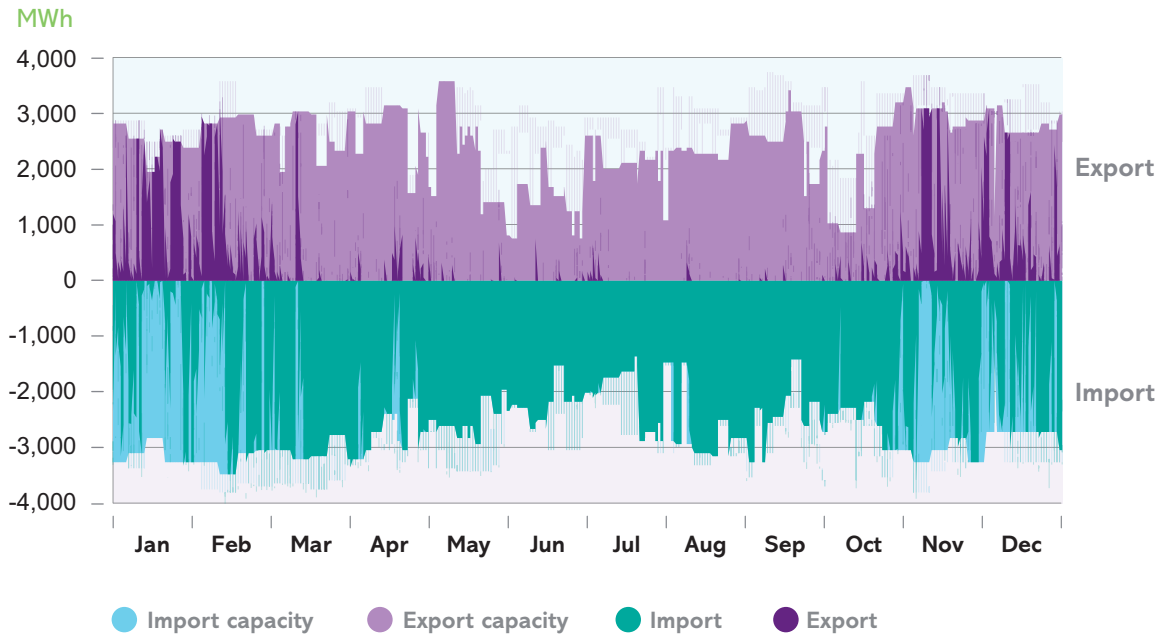
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Interconnection with France. Available commercial capacity and occupation in the exporting and importing directions

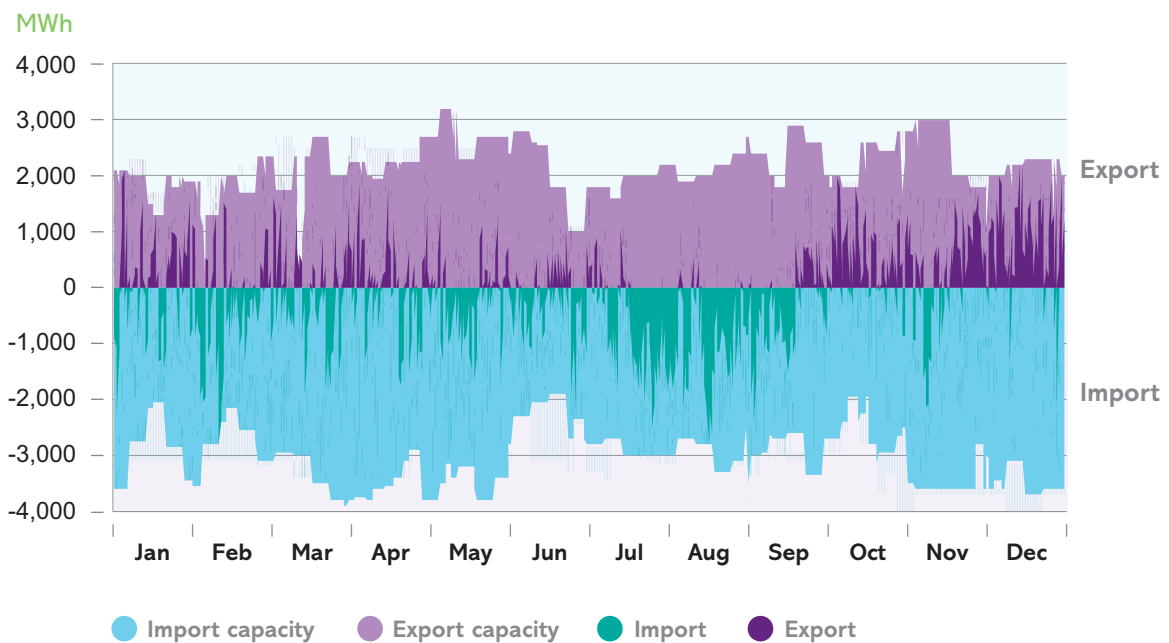
2017



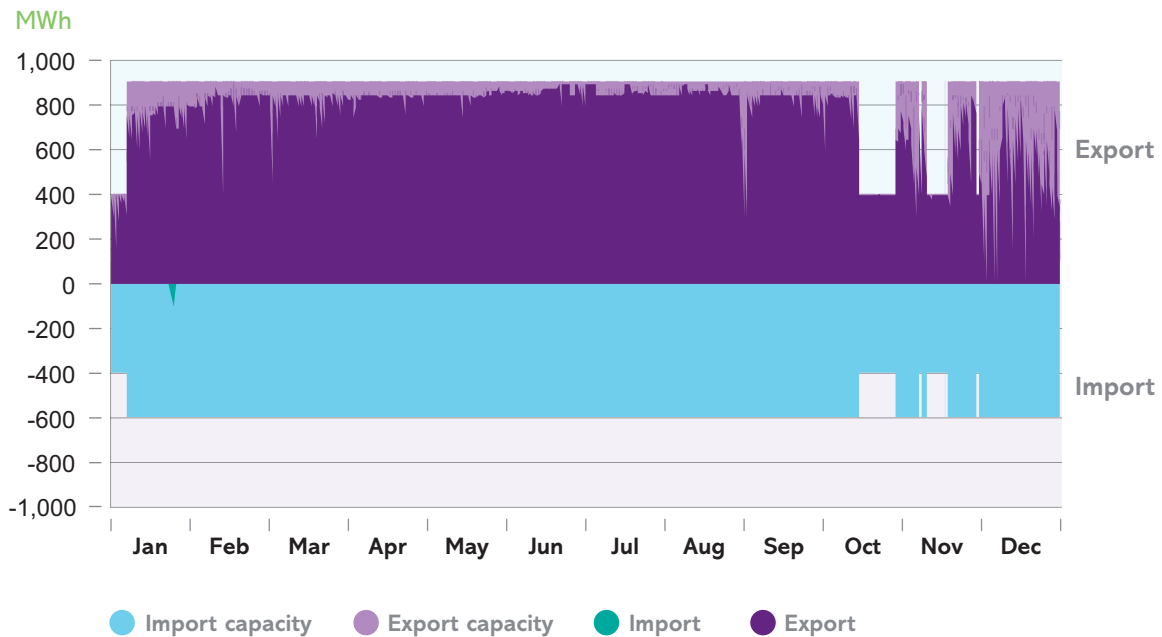
5.2.

Interconnection with Portugal. Available commercial capacity and occupation in the exporting and importing directions

2017



5.3. Interconnection with Morocco. Available commercial capacity and occupation in the exporting and importing directions 2017



5.4. Average hourly energy in the interconnections

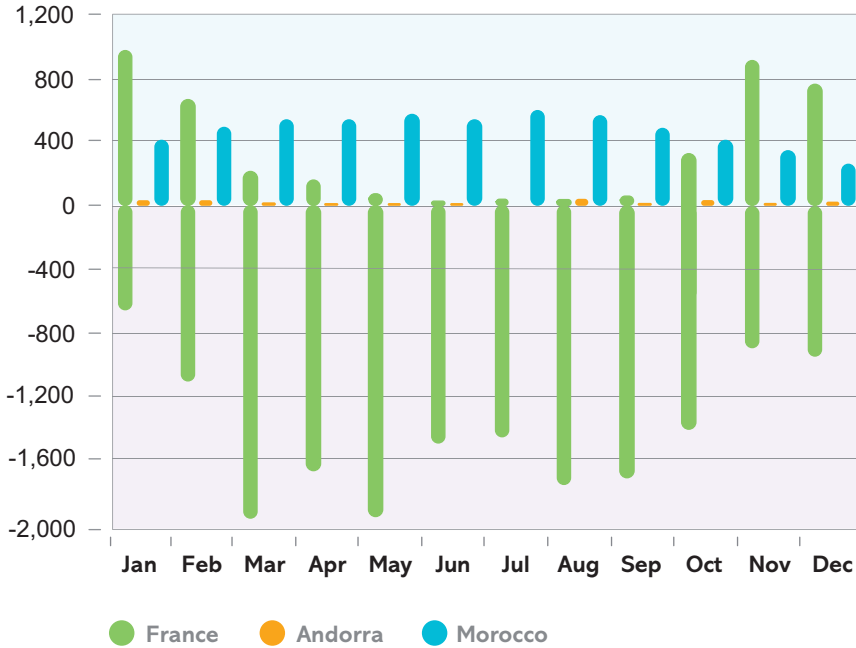
	FRANCE		PORTUGAL		MOROCCO	
	2016	2017	2016	2017	2016	2017
EXPORT (MWh)						
Commercial Capacity	1,947	2,300	1,928	1,993	763	854
Capacity Not Used	1,350	1,851	1,724	1,660	198	197
Occupation	597	449	204	333	565	657
IMPORT (MWh)						
Commercial Capacity	2,426	2,564	2,391	3,007	540	582
Capacity Not Used	915	623	1,592	2,355	540	582
Occupation	1,511	1,941	799	652	0	0

5.5.

Monthly energies exchanged on the MIBEL borders

2017

GWh



Total Export
10,358
GWh

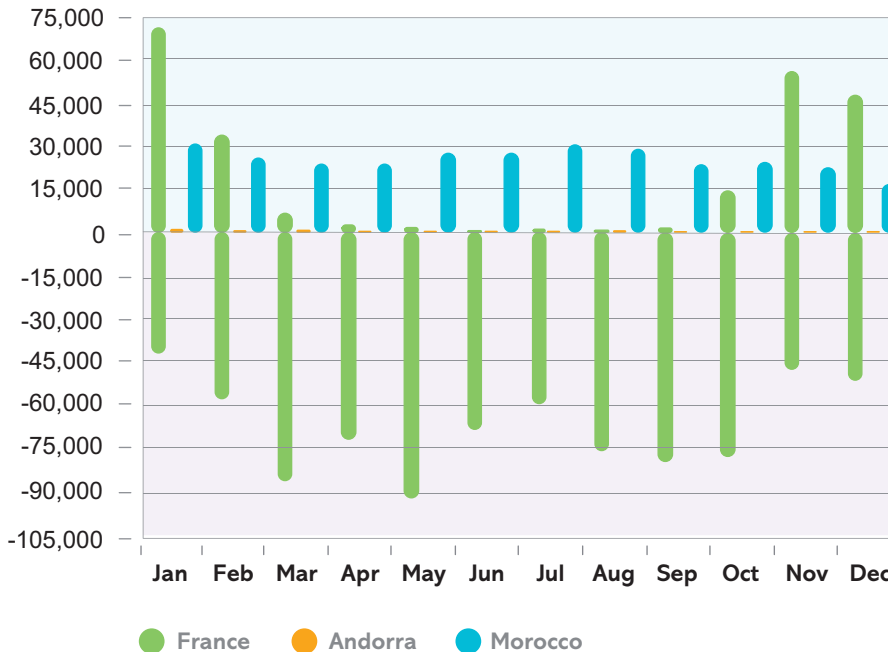
Total Import
17,032
GWh

5.6.

Monthly economic volumes exchanged on the MIBEL borders

2017

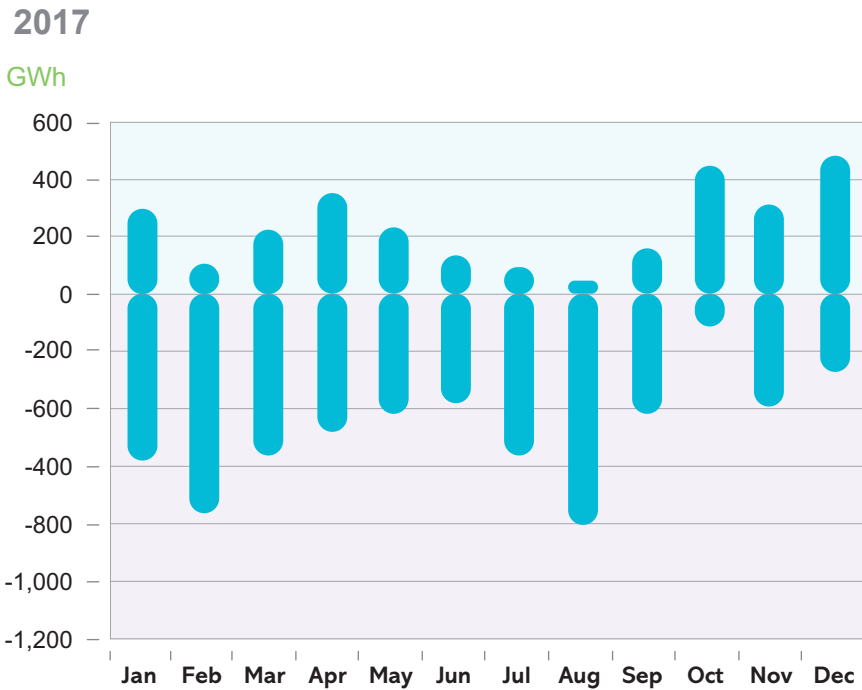
GWh



Total Export
549,303
kEUR

Total Import
813,681
kEUR

5.7. Monthly energies exchanged on the border with Portugal

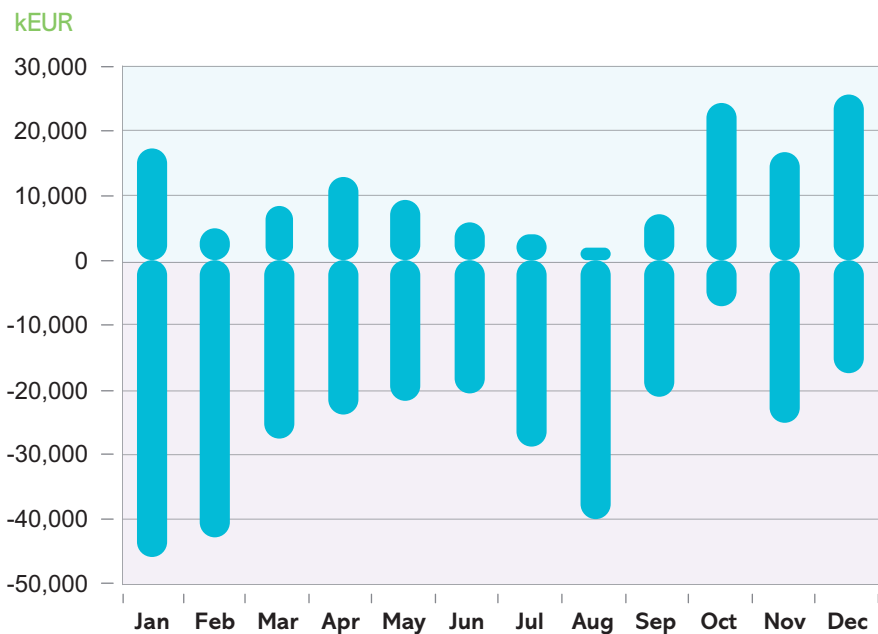


Total Export
2,915
GWh

Total Import
5,715
GWh

5.8. Monthly economic volumes exchanged on the border with Portugal

2017



Total Export
139,306
kEUR

Total Import
322,219
kEUR

6.

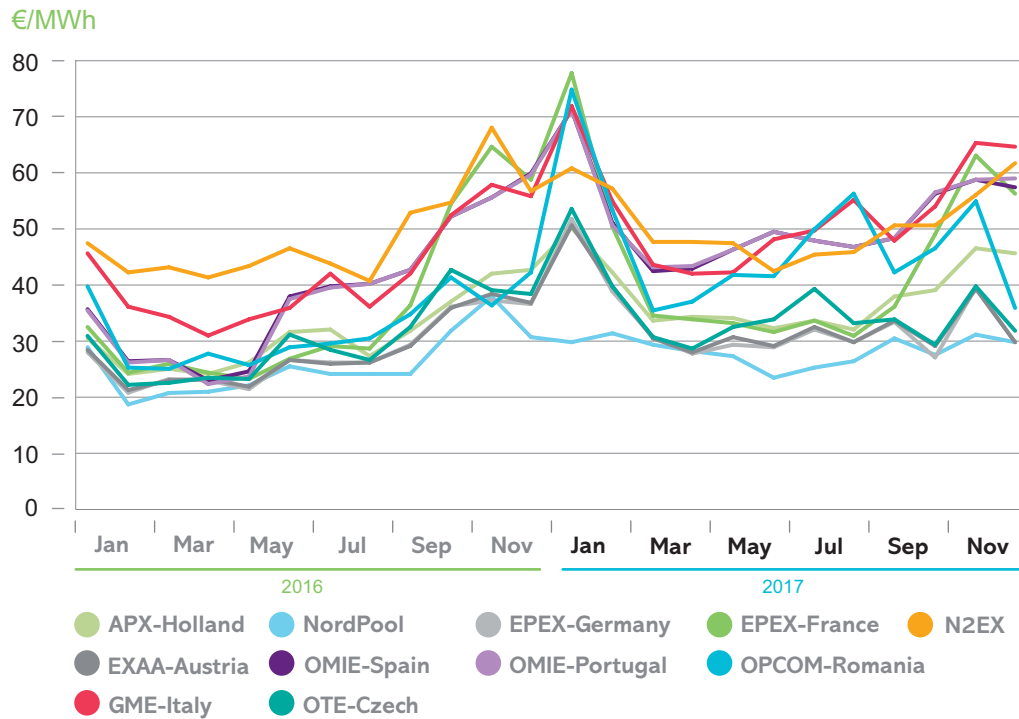


Prices and energies of European Markets

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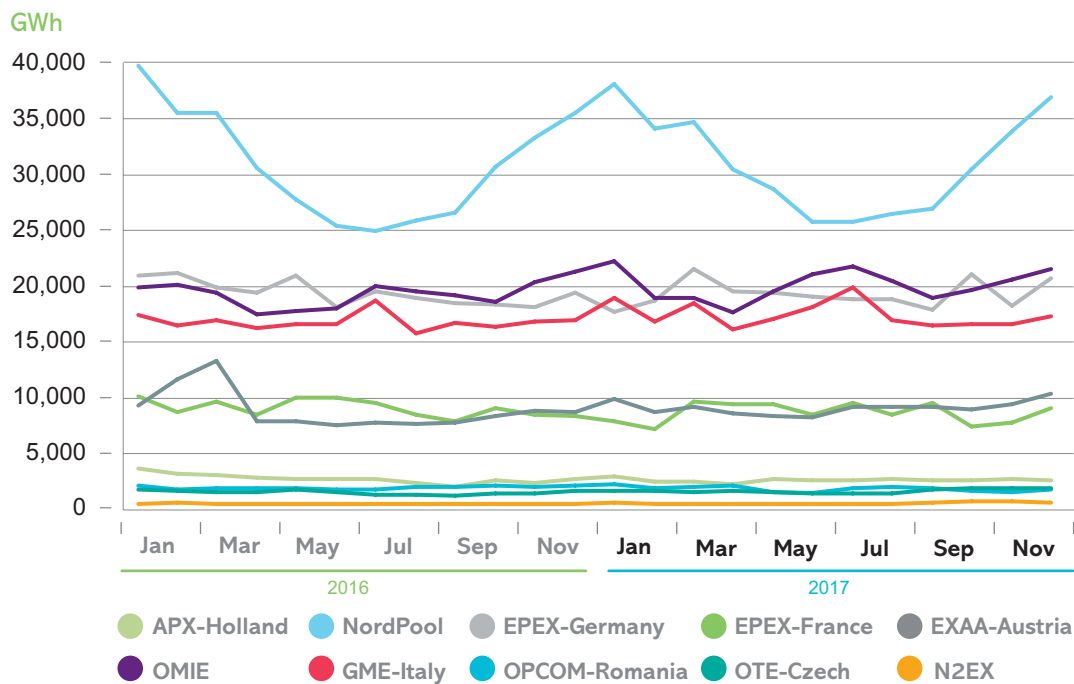
6.1. Average monthly prices EUROPEX

2016 - 2017



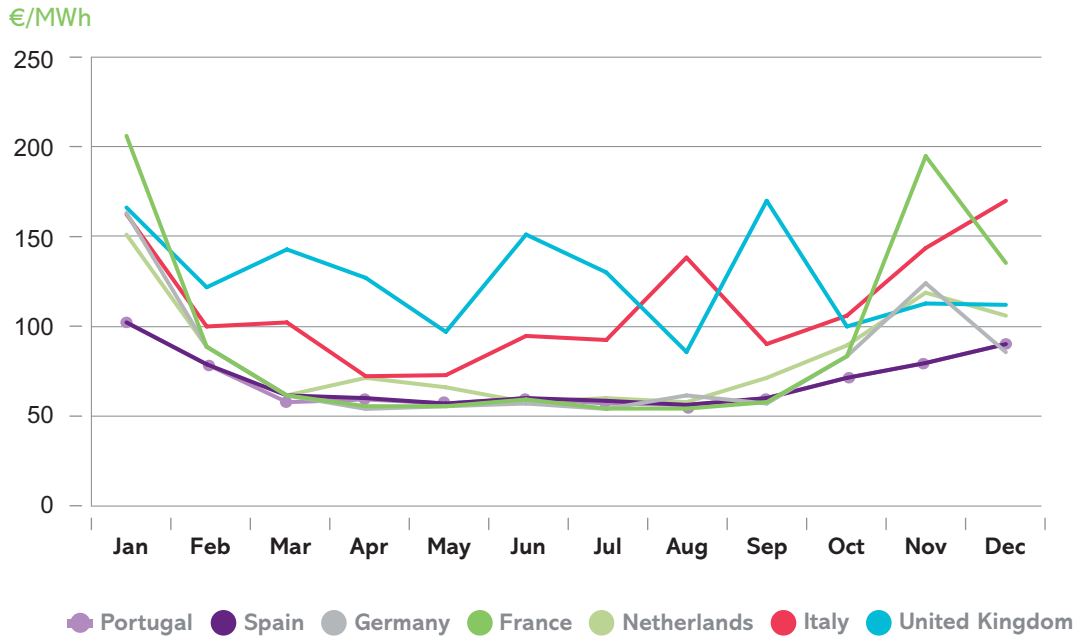
6.2. Monthly energies EUROPEX

2016 - 2017



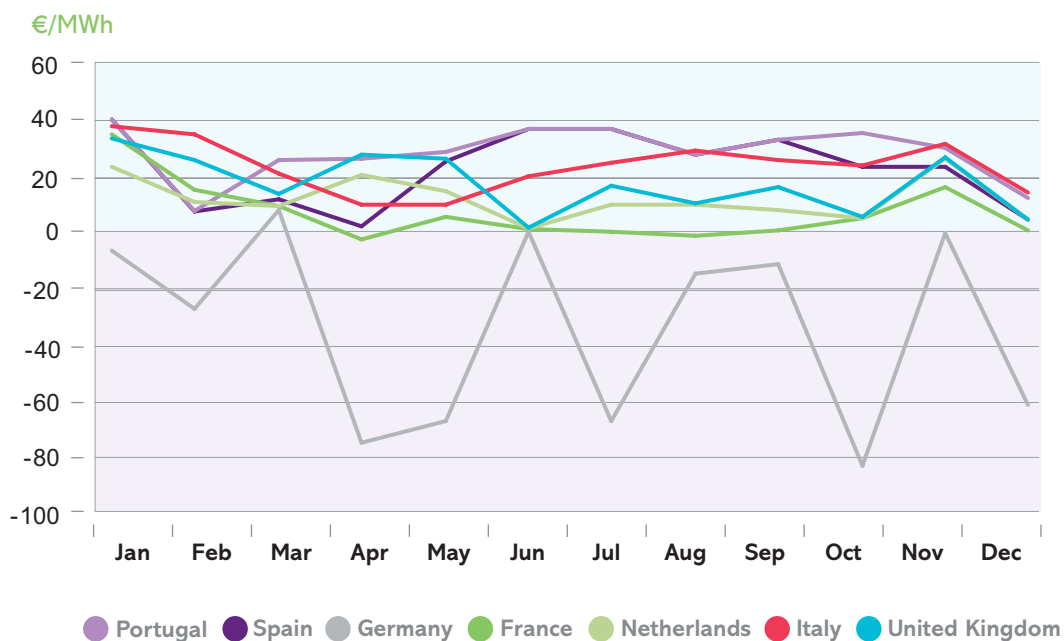
6.3. Maximum monthly hourly prices

in European Markets
2017



6.4. Minimum monthly hourly prices

in European Markets
2017



6.5.

Monthly percentage of hours with price differences of less than 1 €/MWh

at the interconnections between Spain and Portugal and between Spain and France ,

