



---

# Key indicators of the electricity and natural gas markets in 2016

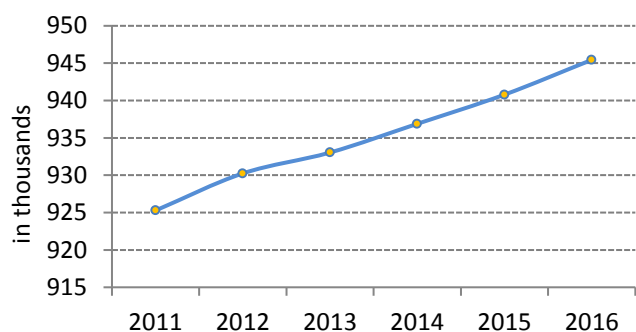
---

July, 2017

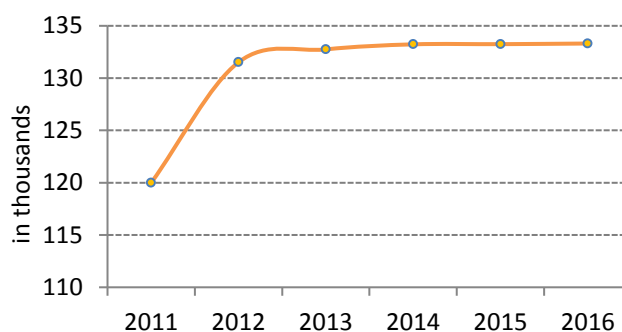
## Basic statistical indicators

	2011	2012	2013	2014	2015	2016
Number of electricity consumers	925,283	930,244	933,041	936,883	940,789	945,442
Number of non-household consumers	103,955	105,046	105,139	105,698	106,125	106,937
Number of household consumers	821,328	825,198	827,902	831,185	834,664	838,505
Number of natural gas consumers	119,986	131,515	132,747	133,230	133,247	133,307
Number of non-household consumers	10,405	13,361	13,273	14,205	14,528	13,724
Number of household consumers	109,581	118,154	119,474	119,025	118,719	119,583
Number of residents	2,055,496	2,058,821	2,061,085	2,062,874	2,064,188	2,065,895
Electricity consumption [kWh/per resident]	6,170	6,135	6,218	6,166	6,318	6,436
Natural gas consumption [kWh/per resident]	4,403	4,187	4,095	3,690	4,311	4,490
Gross domestic product (GDP) [mio EUR]	36,896	36,003	35,917	37,332	38,570	39,769
GDP/resident [EUR]	17,973	17,504	17,439	18,107	18,693	19,262
Growth of GDP [%]	0.6	-2.7	-1.1	3.1	2.3	2.5
Inflation [%]	2.0	2.7	0.7	0.2	-0.5	0.5

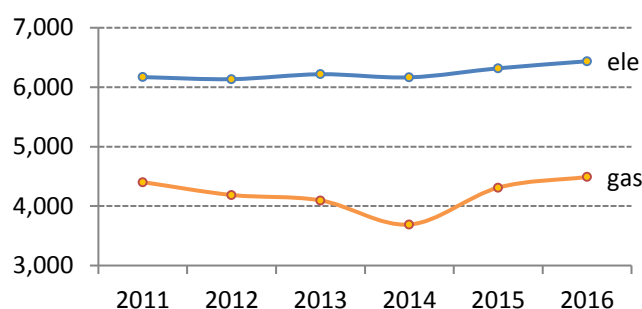
**Number of electricity consumers**



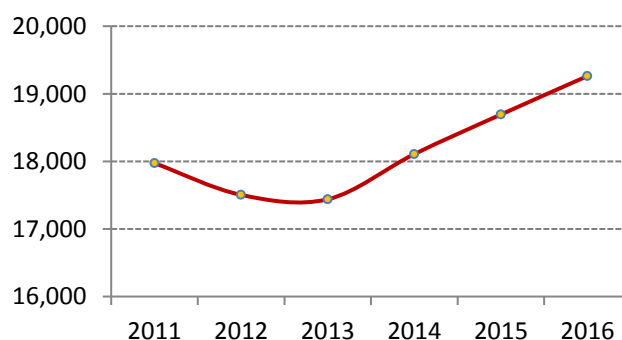
**Number of natural gas consumers**



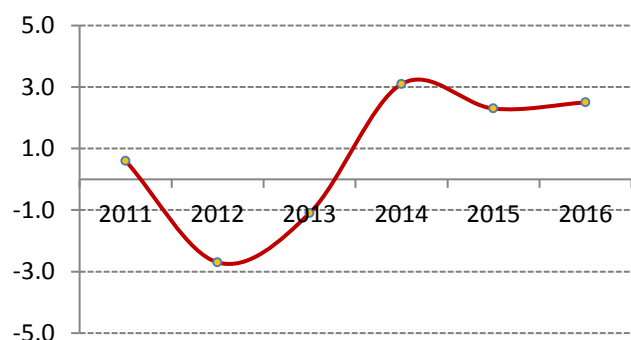
**Electricity and natural gas consumption [kWh/per resident]**



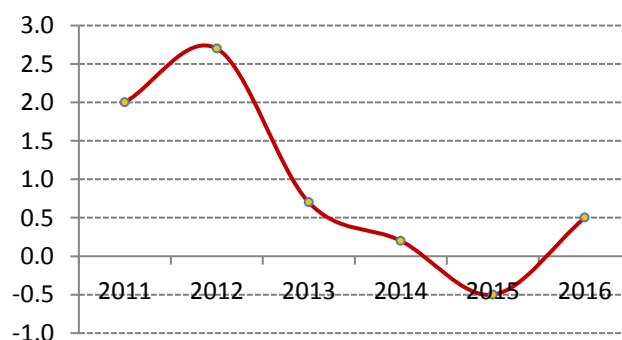
**GDP/resident [EUR]**



**Growth of GDP [%]**



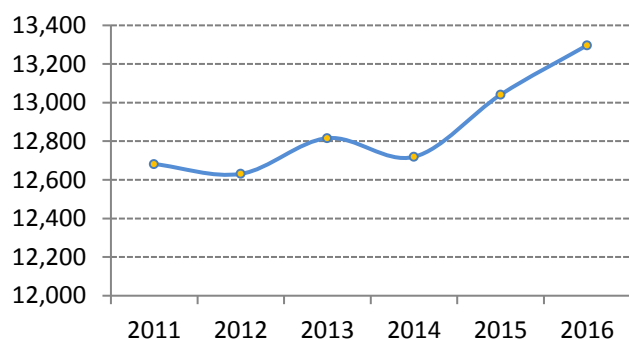
**Inflation [%]**



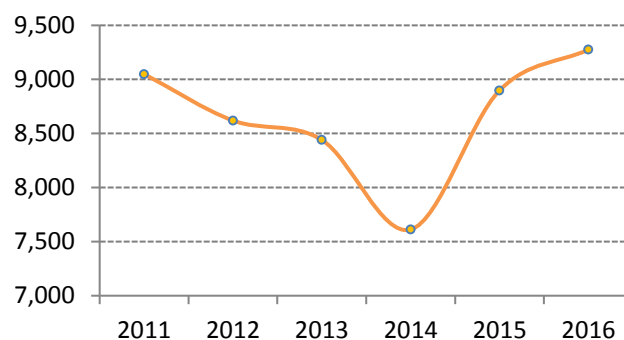
## Electricity and natural gas consumption

	2011	2012	2013	2014	2015	2016
<b>Electricity consumption [GWh]</b>	<b>12,682</b>	<b>12,631</b>	<b>12,816</b>	<b>12,719</b>	<b>13,041</b>	<b>13,297</b>
Electricity consumption - household consumers	3,211	3,179	3,228	3,125	3,205	3,260
Electricity consumption - non-household consumers	9,471	9,452	9,588	9,594	9,836	10,037
<b>Natural gas consumption [GWh]</b>	<b>9,050</b>	<b>8,620</b>	<b>8,441</b>	<b>7,612</b>	<b>8,898</b>	<b>9,275</b>
Natural gas consumption - household consumers	1,170	1,110	1,160	911	1,075	1,174
Natural gas consumption - non-household consumers	7,880	7,510	7,281	6,701	7,823	8,101

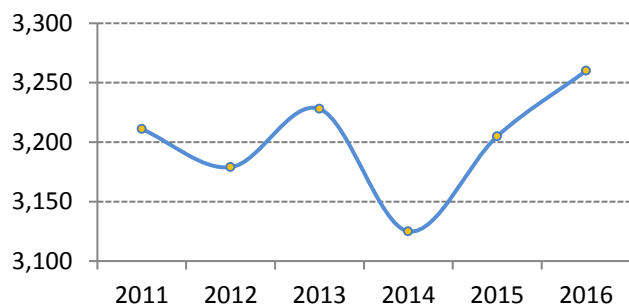
**Electricity consumption [GWh]**



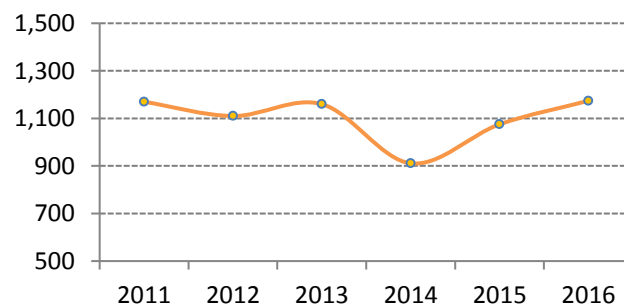
**Natural gas consumption [GWh]**



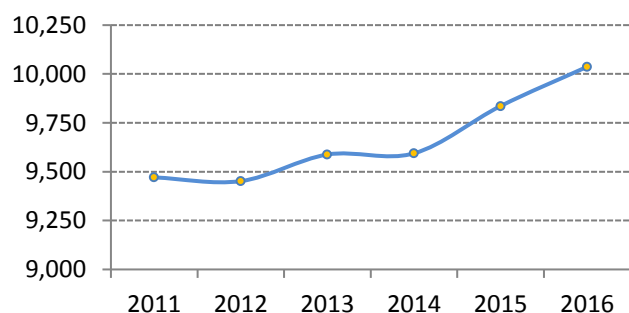
**Electricity consumption - household consumers [GWh]**



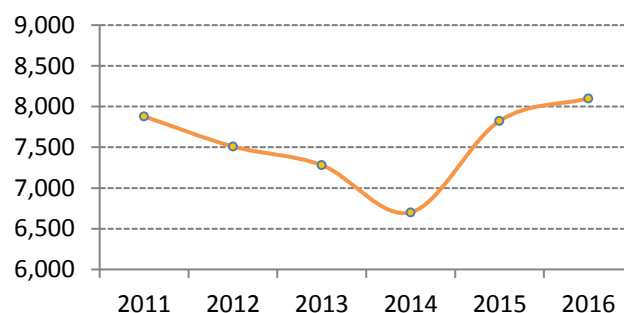
**Natural gas consumption - household consumers [GWh]**



**Electricity consumption - non-household consumers [GWh]**



**Natural gas consumption - non-household consumers [GWh]**

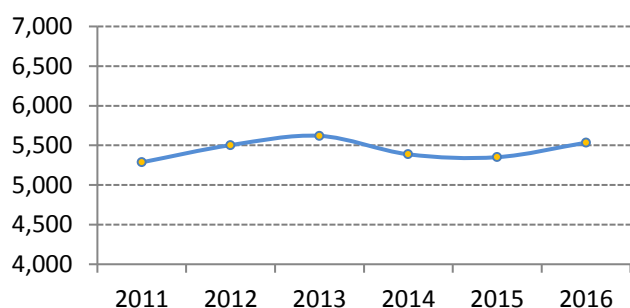


## Market concentration indicators

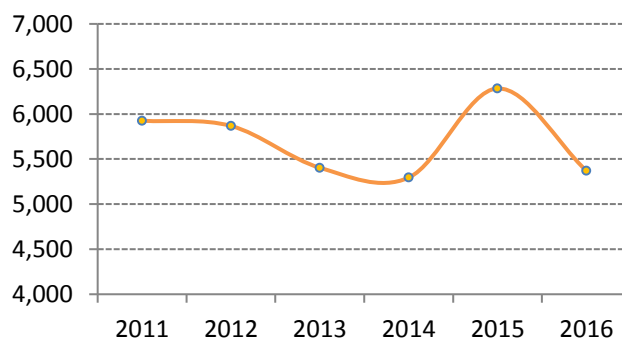
	2011	2012	2013	2014	2015	2016
HHI for electricity production on the transmission	5,286	5,503	5,620	5,387	5,351	5,534
HHI for electricity retail market	1,498	1,575	1,479	1,392	1,369	1,413
HHI for wholesale natural gas market	5,926	5,868	5,404	5,294	6,284	5,371
HHI for natural gas retail market	4,035	4,186	3,551	3,485	2,887	2,695

1

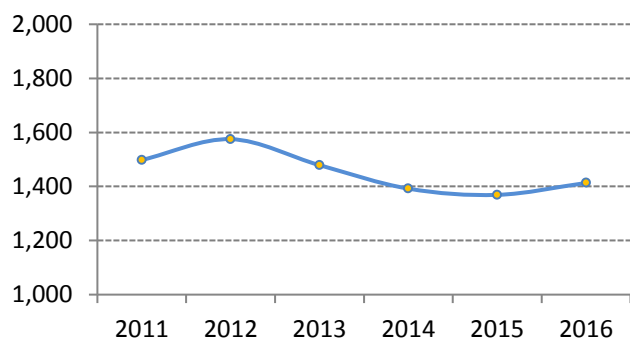
**HHI for electricity production on the transmission**



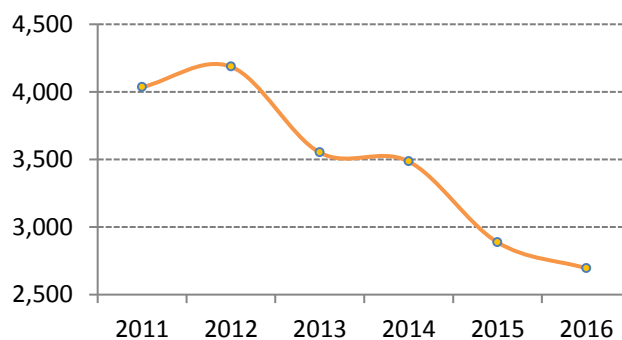
**HHI for wholesale natural gas market**



**HHI for electricity retail market**



**HHI for natural gas retail market**

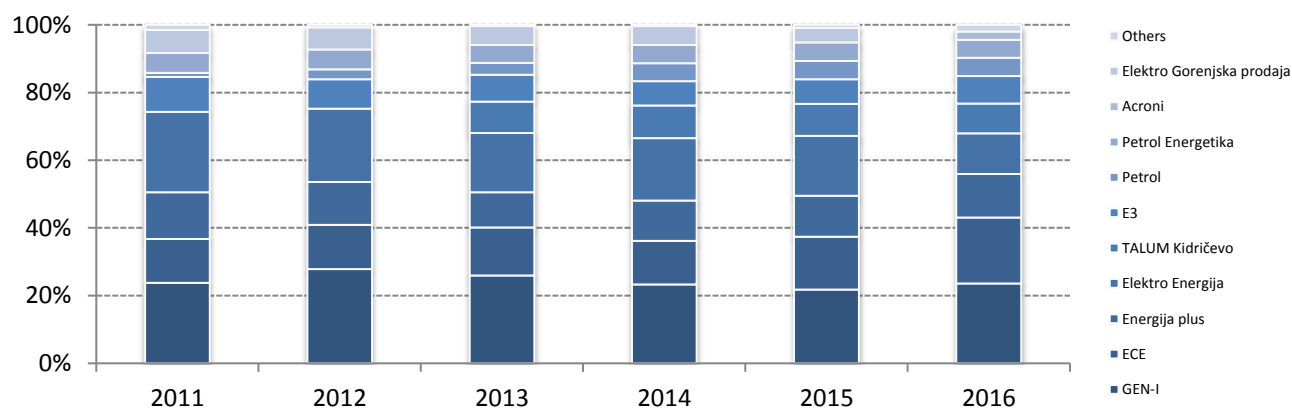


<sup>1</sup> HHI - Herfindahl-Hirschman Index is a measure of the size of companies in relation to the whole sector and an indicator of the level of competition among them. Its value ranges between 0 and 10,000. Higher the index is, higher is the level of concentration, and lower the index is, lower is the concentration level. On the basis of index level the conclusion on competitiveness of the sector can be made. Higher values are a sign of lower competition and vice versa.

## Market shares of suppliers in the electricity retail market 1/2

	2011	2012	2013	2014	2015	2016
<b>Market shares to all consumers</b>						
GEN-I	22.1%	26.2%	25.7%	23.0%	21.6%	23.2%
ECE	12.0%	12.2%	14.0%	12.7%	15.4%	19.2%
Energija plus	12.8%	11.9%	10.2%	11.8%	12.0%	12.7%
Elektro Energija	22.0%	20.4%	17.4%	18.2%	17.5%	11.8%
TALUM Kidričevo	-	-	9.1%	9.5%	9.4%	8.7%
E3	9.5%	8.1%	7.8%	7.1%	7.3%	8.0%
Petrol	1.1%	2.7%	3.5%	5.2%	5.3%	5.3%
Petrol Energetika	5.4%	5.6%	5.2%	5.4%	5.4%	5.2%
Acroni	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%
HEP	7.1%	5.9%	1.1%	1.1%	1.1%	1.5%
Elektro Gorenjska prodaja	6.3%	6.1%	5.5%	5.5%	4.2%	0.0%
Others	1.4%	0.7%	0.4%	0.4%	0.9%	2.0%

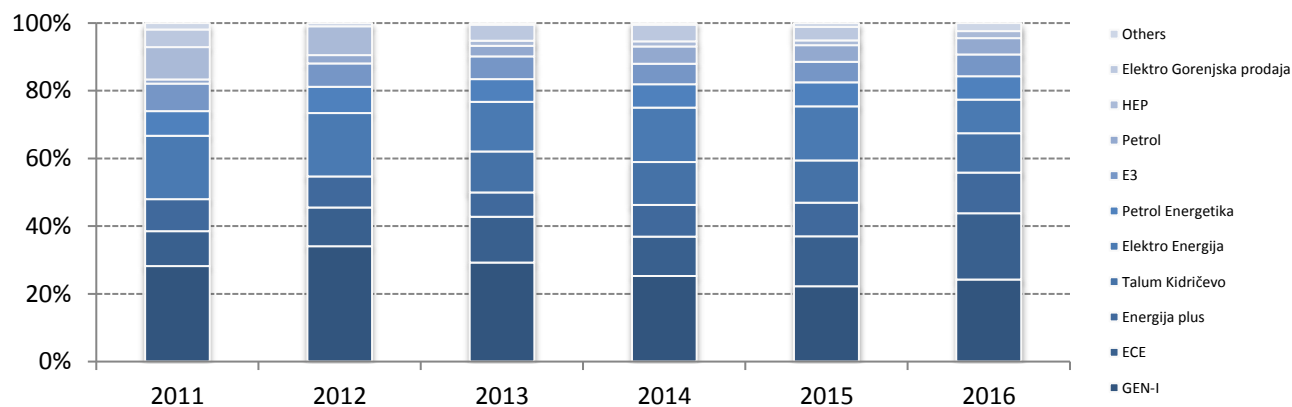
**Market shares to all consumers**



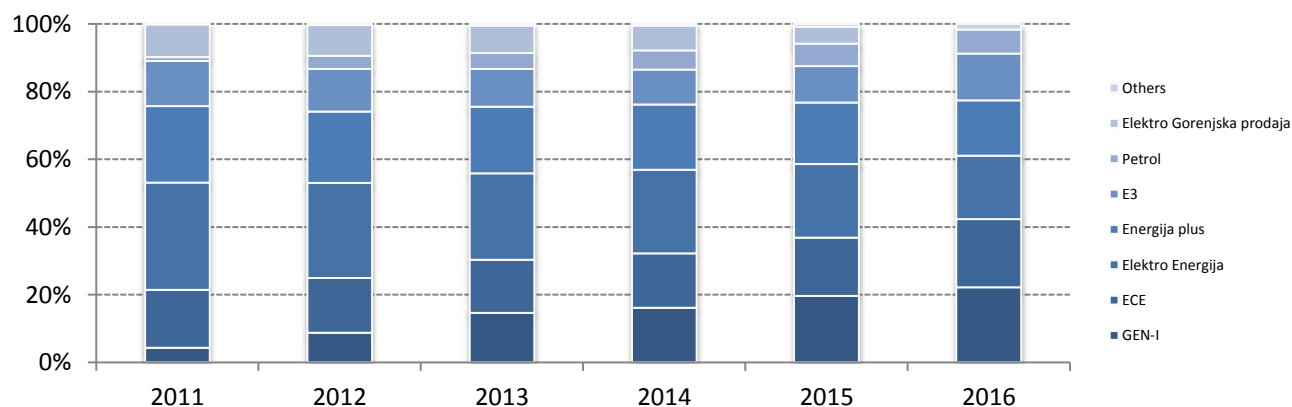
## Market shares of suppliers in the electricity retail market 2/2

	2011	2012	2013	2014	2015	2016
<b>Market shares to business consumers</b>						
GEN-I	28.2%	32.4%	29.3%	25.3%	22.2%	23.5%
ECE	10.3%	10.9%	13.5%	11.6%	14.7%	18.9%
Energija plus	9.4%	8.7%	7.1%	9.4%	9.9%	11.6%
Talum Kidričevo	-	-	12.1%	12.6%	12.5%	11.3%
Elektro Energija	18.7%	17.7%	14.7%	16.0%	16.0%	9.6%
Petrol Energetika	7.3%	7.4%	6.7%	7.0%	7.0%	6.7%
E3	8.2%	6.6%	6.7%	6.0%	6.1%	6.2%
Petrol	1.2%	2.3%	3.1%	5.1%	4.9%	4.7%
Acroni	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%
HEP	9.6%	8.0%	1.5%	1.5%	1.5%	2.0%
Elektro Gorenjska prodaja	5.2%	0.0%	4.7%	4.9%	3.9%	0.0%
Others	1.9%	0.9%	0.5%	0.5%	1.1%	2.3%
<b>Market shares to household consumers</b>						
GEN-I	4.4%	8.7%	14.6%	16.2%	19.6%	22.2%
ECE	17.1%	16.2%	15.7%	16.1%	17.2%	20.1%
Elektro Energija	31.7%	28.1%	25.5%	24.7%	21.8%	18.7%
Energija plus	22.6%	21.0%	19.6%	19.2%	18.1%	16.3%
E3	13.4%	12.6%	11.2%	10.4%	10.7%	13.8%
Petrol	1.1%	3.8%	4.7%	5.6%	6.6%	7.1%
Elektro Gorenjska prodaja	9.6%	9.0%	8.1%	7.3%	5.0%	0.0%
Others	0.2%	0.4%	0.5%	0.6%	0.8%	1.7%

**Market shares to business consumers**

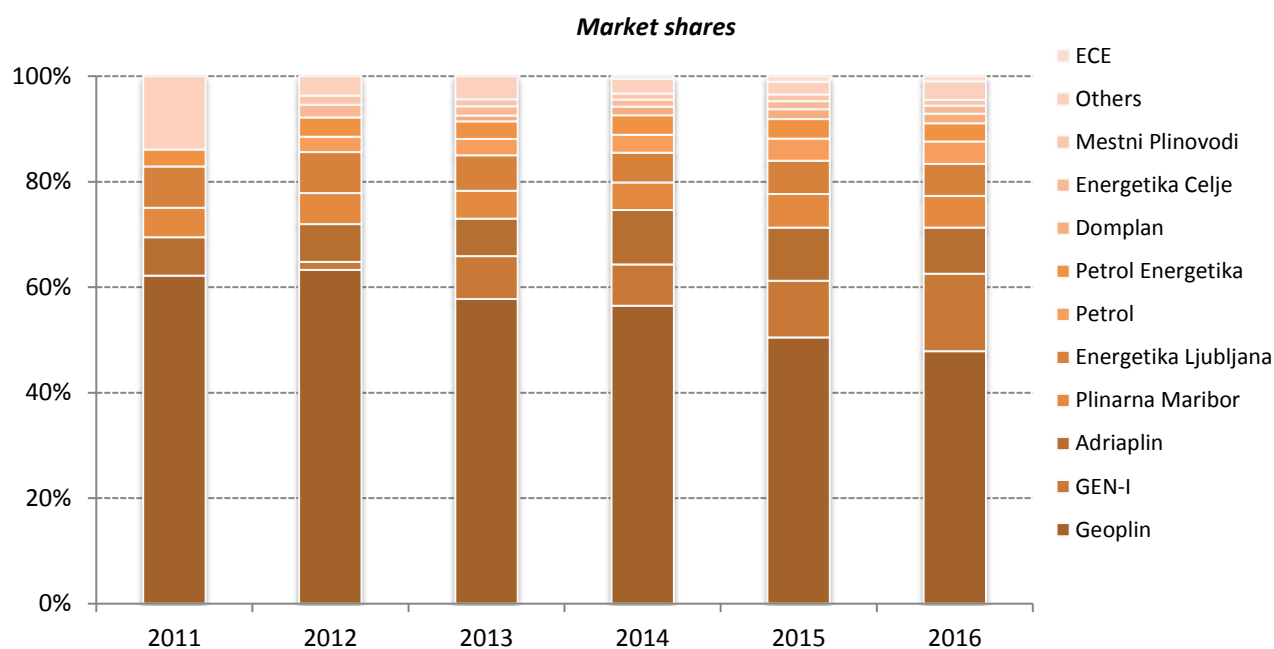


**Market shares to household consumers**



## Market shares of suppliers in the natural gas retail market

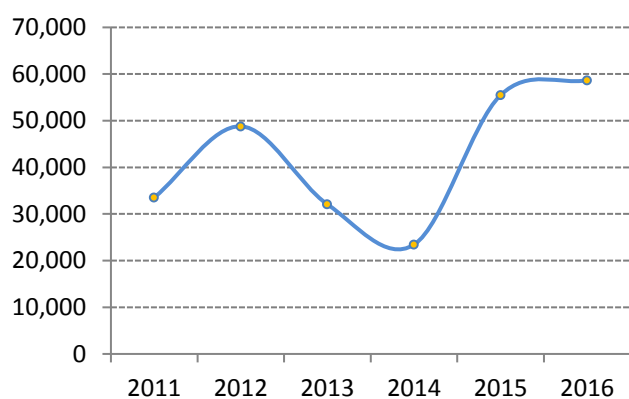
	2011	2012	2013	2014	2015	2016
Geoplin	62.2%	63.3%	57.7%	56.8%	50.5%	47.8%
GEN-I	0.0%	1.5%	8.2%	7.8%	10.7%	14.7%
Adriaplin	7.3%	7.2%	7.1%	10.4%	10.1%	8.7%
Plinarna Maribor	5.6%	5.9%	5.3%	5.2%	6.4%	6.0%
Energetika Ljubljana	7.8%	7.8%	6.7%	5.7%	6.3%	6.1%
Petrol	-	2.9%	3.1%	3.4%	4.2%	4.2%
Petrol Energetika	3.2%	3.6%	3.3%	3.7%	3.7%	3.5%
Domplan	-	-	1.1%	1.7%	1.9%	1.8%
Energetika Celje	-	2.5%	1.8%	1.3%	1.5%	1.5%
Mestni Plinovodi	-	1.7%	1.4%	1.2%	1.3%	1.1%
ECE				0.5%	1.0%	1.0%
Others	13.9%	3.7%	4.4%	2.8%	2.4%	3.5%



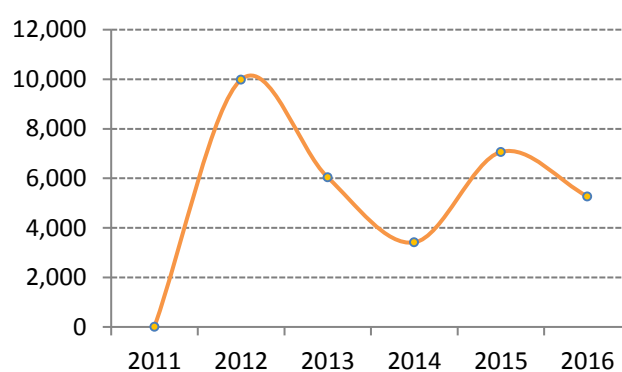
## Number of electricity and gas supplier switchings

	2011	2012	2013	2014	2015	2016
Electricity supplier switching - household consumers	33,518	48,794	32,068	23,430	55,481	58,669
Amounts of electricity involved [GWh]	177	229	144	106	270	273
Electricity supplier switching - business consumers	5,617	6,487	14,998	8,938	10,969	17,625
Amounts of electricity involved[GWh]	951	1,124	2,883	2,818	1,381	1,416
Natural gas supplier switching - household consumers	13	9,985	6,037	3,413	7,065	5,270
Amounts of natural gas involved [GWh]	0.21	130.90	100.47	44.53	84.56	57.49
Natural gas supplier switching - business consumers	84	1,302	1,226	1,275	1,220	1,056
Amounts of natural gas involved [GWh]	52.41	152.90	386.48	468.52	423.93	297.14

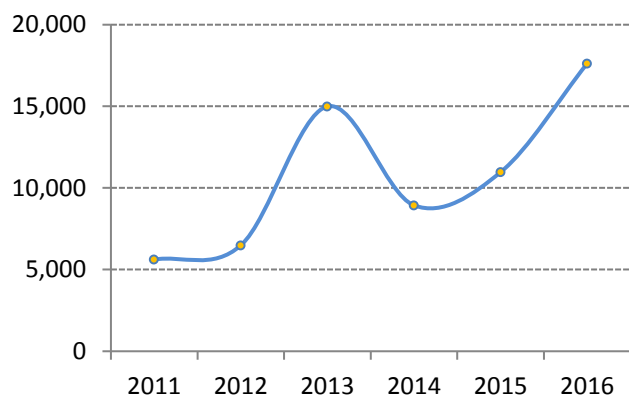
*Electricity supplier switching - household consumers*



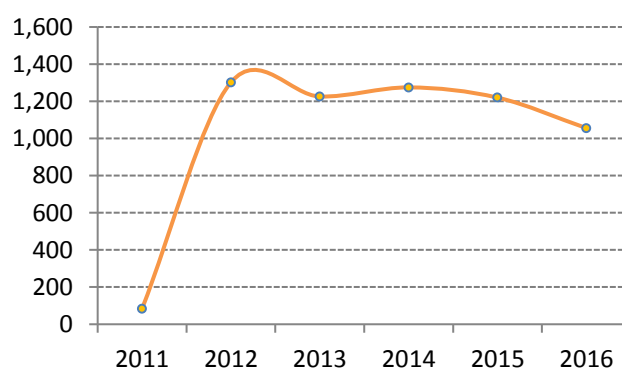
*Natural gas supplier switching - household consumers*



*Electricity supplier switching - business consumers*

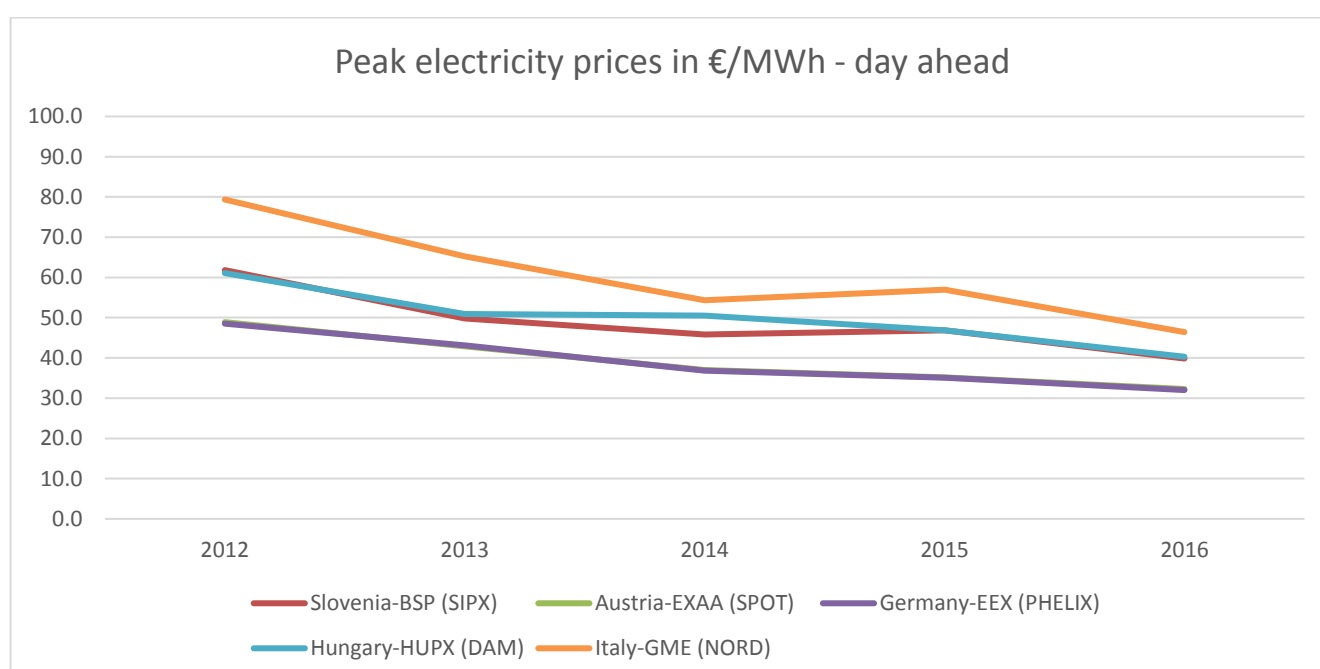
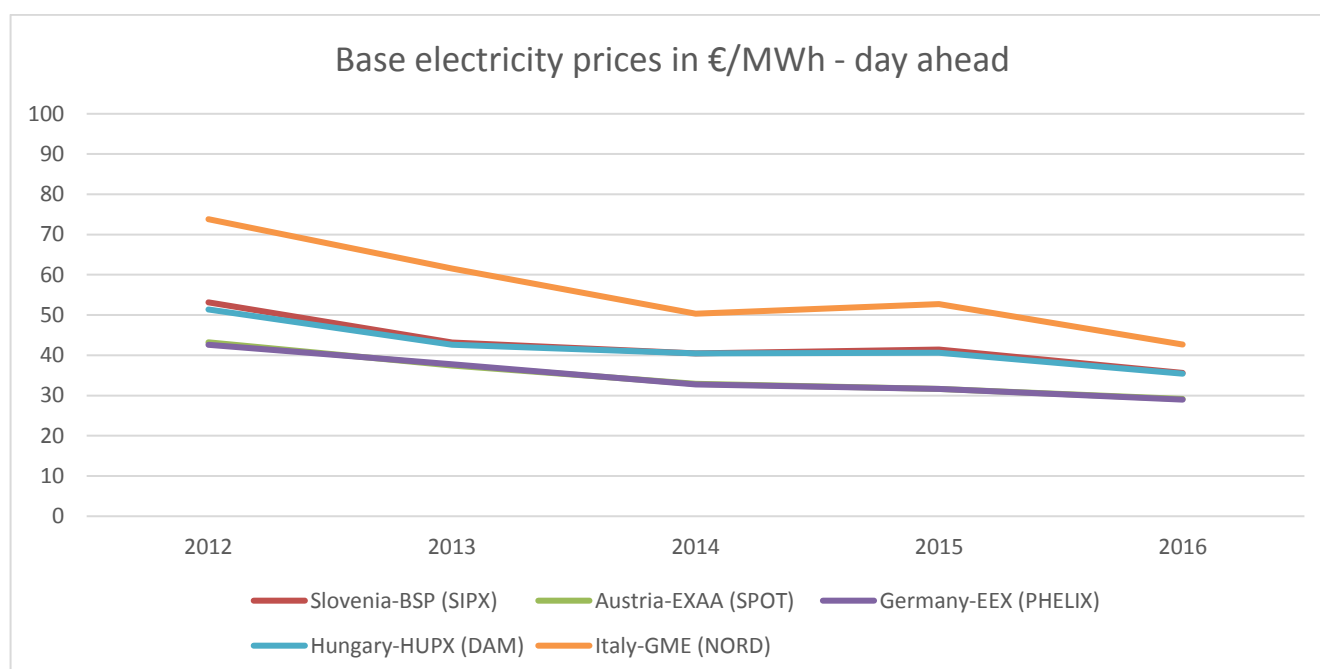


*Natural gas supplier switching - business consumers*



## Base and peak electricity prices – day ahead

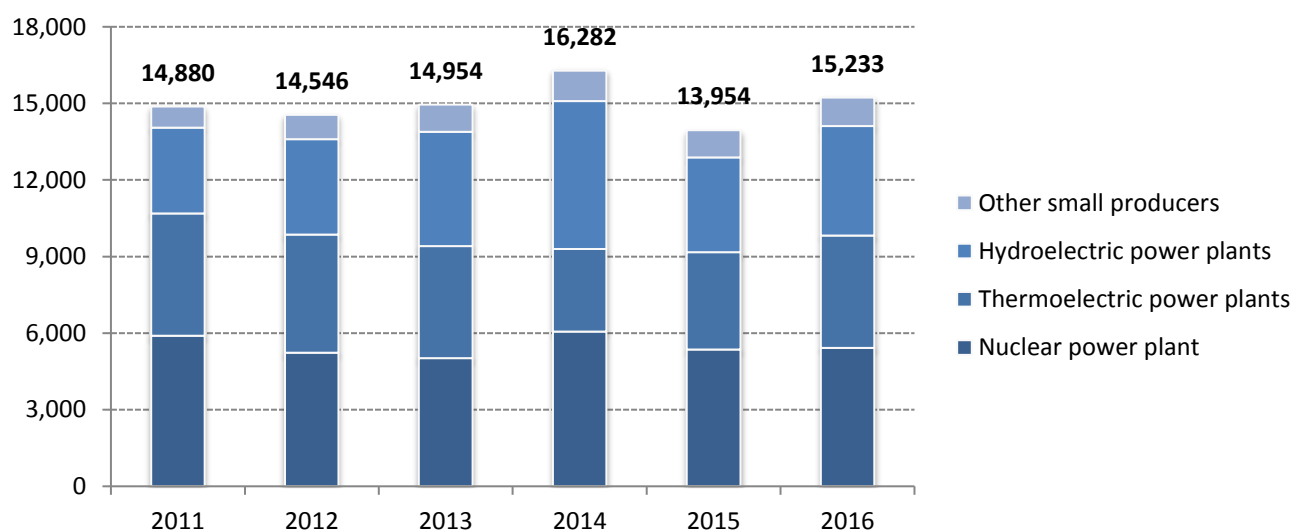
	2012	2013	2014	2015	2016
<b>Base electricity prices in €/MWh</b>					
Slovenia-BSP (SIPX)	53.2	43.2	40.4	41.4	35.6
Austria-EXAA (SPOT)	43.2	37.4	32.9	31.7	29.1
Germany-EEX (PHELIX)	42.6	37.8	32.8	31.6	29.0
Hungary-HUPX (DAM)	51.4	42.6	40.5	40.6	35.4
Italy-GME (NORD)	73.8	61.6	50.4	52.7	42.7
<b>Peak electricity prices in €/MWh</b>					
Slovenia-BSP (SIPX)	61.8	49.8	45.8	46.9	39.8
Austria-EXAA (SPOT)	48.9	42.9	37.0	35.2	32.3
Germany-EEX (PHELIX)	48.5	43.1	36.8	35.1	32.0
Hungary-HUPX (DAM)	61.1	50.9	50.5	46.8	40.3
Italy-GME (NORD)	79.4	65.2	54.3	57.0	46.4



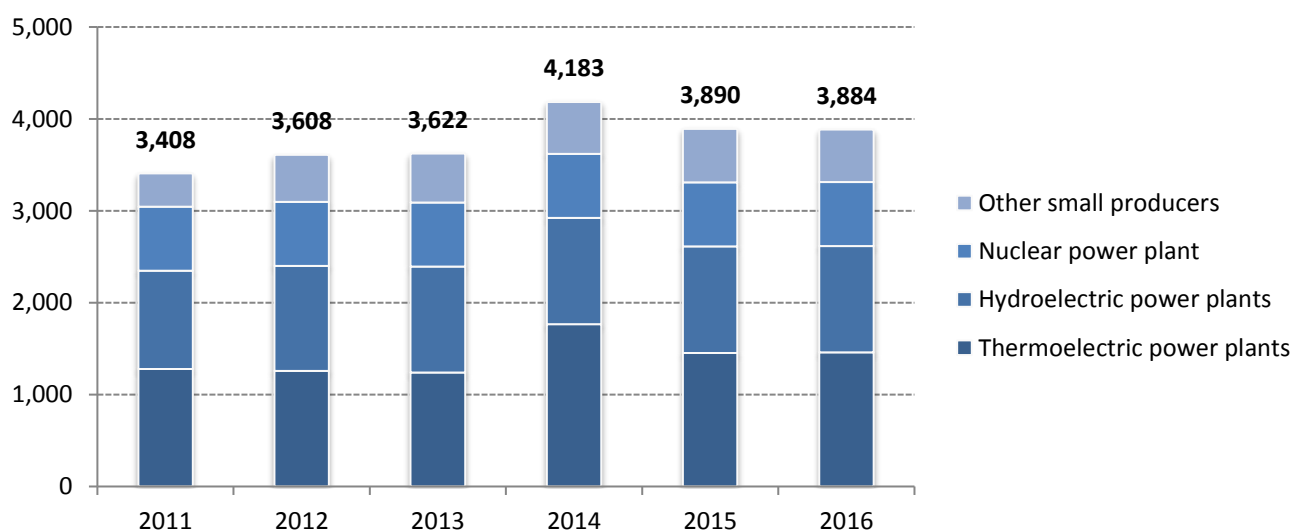
## Electricity generation, installed capacity

	2011	2012	2013	2014	2015	2016
<b>Electricity production [GWh]</b>	<b>14,880</b>	<b>14,546</b>	<b>14,954</b>	<b>16,282</b>	<b>13,954</b>	<b>15,233</b>
Nuclear power plant	5,899	5,233	5,023	6,060	5,362	5,423
Thermoelectric power plants	4,787	4,633	4,381	3,242	3,809	4,401
Hydroelectric power plants	3,361	3,730	4,480	5,794	3,708	4,293
Other small producers	833	951	1,070	1,185	1,075	1,116
<b>Installed capacity [MW]</b>	<b>3,408</b>	<b>3,608</b>	<b>3,622</b>	<b>4,183</b>	<b>3,890</b>	<b>3,884</b>
Thermoelectric power plants	1,280	1,258	1,240	1,766	1,454	1,458
Hydroelectric power plants	1,069	1,142	1,154	1,156	1,158	1,158
Nuclear power plant	696	696	696	696	696	696
Other small producers	363	512	532	565	582	572
Import of electricity (transmission) [GWh]	7,029	7,452	7,521	7,254	9,045	8,359
Export of electricity (transmission, distribution) [GWh]	8,408	8,491	8,811	9,997	9,094	9,419
Network losses (transmission, distribution) [GWh]	824	877	849	821	864	876

*Electricity production [GWh]*

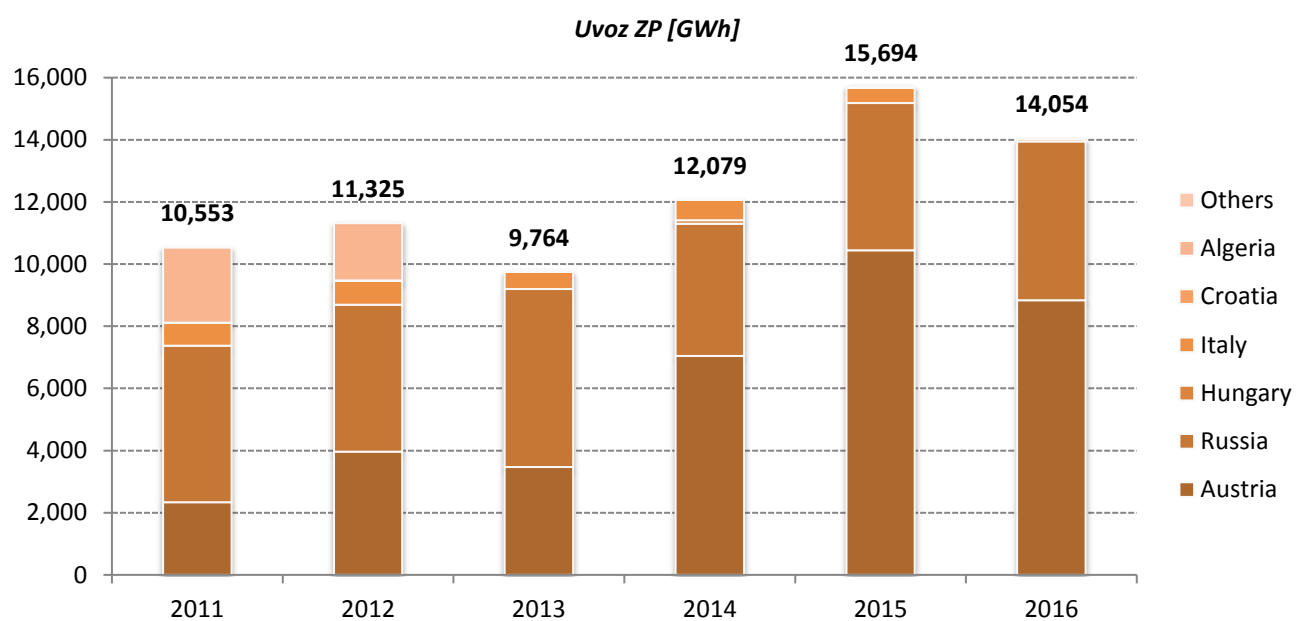


*Installed capacity [MW]*



## Import of natural gas

	2011	2012	2013	2014	2015	2016
<b>Total import [GWh]</b>	<b>10,553</b>	<b>11,325</b>	<b>9,764</b>	<b>12,079</b>	<b>15,694</b>	<b>14,054</b>
Austria	2,339	3,961	3,474	7,049	10,446	8,836
Russia	5,031	4,731	5,722	4,246	4,739	5,112
Hungary	0	0	0	114	-	0
Italy	734	773	559	663	479	69
Croatia	10	10	9	7	8	37
Algeria	2,427	1,840	0	0	0	0
Others	12	10	0	0	22	0



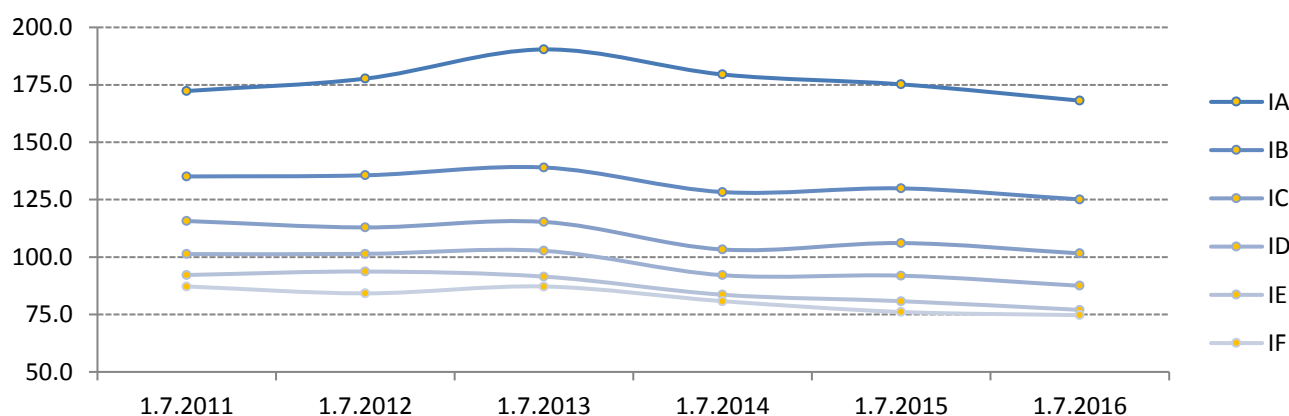
## Final electricity prices for standard consumers groups

(Prices include all levies, contributions and taxes)

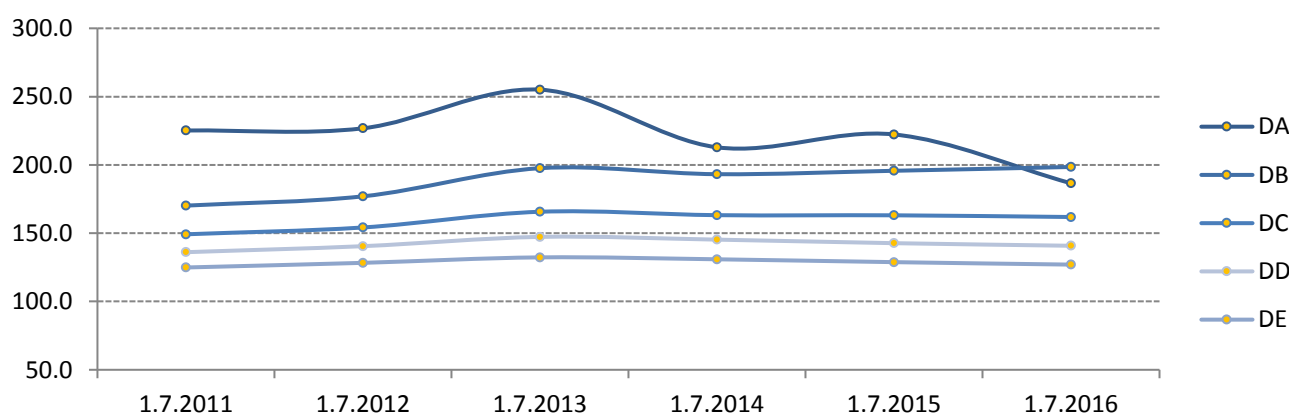
		1.7.2011	1.7.2012	1.7.2013	1.7.2014	1.7.2015	1.7.2016
Non-household consumption	IA	172.3	177.7	190.4	179.5	175.2	168.1
	IB	135.1	135.6	139.0	128.3	129.9	125.1
	IC	115.7	112.9	115.3	103.3	106.1	101.6
	ID	101.3	101.4	102.7	92.1	91.9	87.5
	IE	92.2	93.7	91.5	83.6	80.8	77.0
	IF	87.2	84.2	87.2	80.8	76.1	74.7
Household consumption	DA	225.2	226.8	255.1	212.9	222.3	186.6
	DB	170.2	177.0	197.6	193.2	195.7	198.5
	DC	149.2	154.2	165.7	163.2	163.1	161.9
	DD	136.1	140.5	147.3	145.3	142.7	140.8
	DE	124.9	128.3	132.3	130.9	128.8	127.0

2

**Electricity prices for standard consumer groups - business consumption [EUR/MWh]**



**Electricity prices for standard consumer groups - household consumption [EUR/MWh]**



2

DA < 1,000 kWh/per year  
 DB 1,000 kWh/per year to < 2,500 kWh/per year  
 DC 2,500 kWh/per year to < 5,000 kWh/per year  
 DD 5,000 kWh/per year to < 15,000 kWh/per year  
 DE >= 15,000 kWh/per year

IA < 20 MWh/per year  
 IB 20 MWh/per year to < 500 MWh/per year  
 IC 500 MWh/per year to < 2,000 MWh/per year  
 ID 2,000 MWh/per year to < 20,000 MWh/per year  
 IE 20,000 MWh/per year to < 70,000 MWh/per year  
 IF 70,000 MWh/per year to <= 150,000 MWh/per year

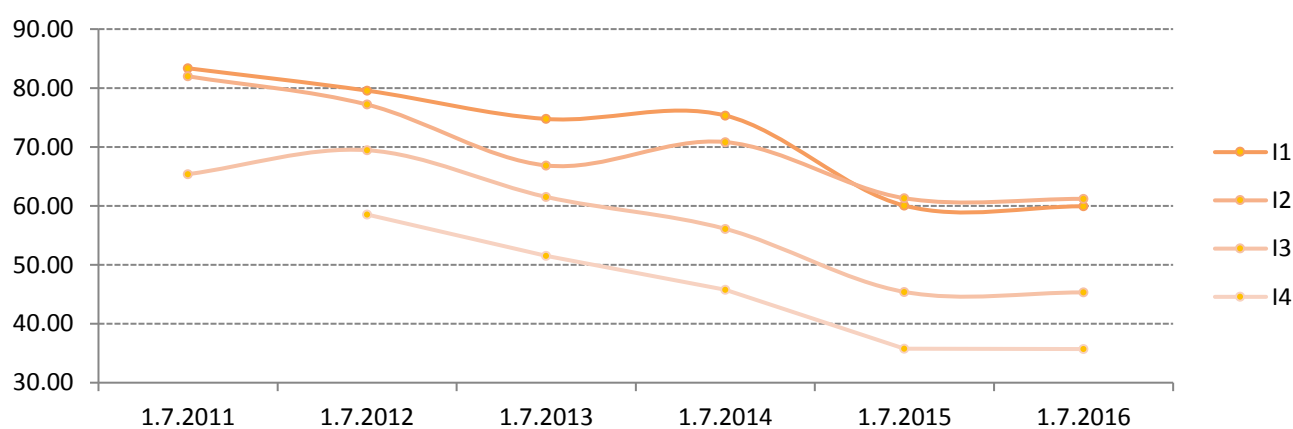
## Final gas prices for standard consumers groups

(Prices include all levies, contributions and taxes)

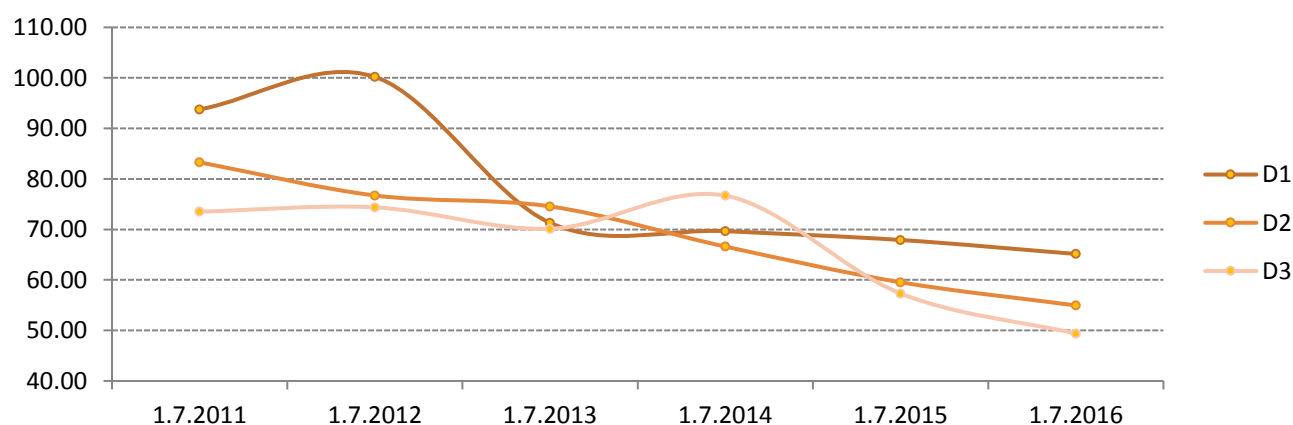
		1.7.2011	1.7.2012	1.7.2013	1.7.2014	1.7.2015	1.7.2016
Non-household consumption	I1	83.35	79.56	74.75	75.33	60.04	59.93
	I2	81.99	77.19	66.86	70.83	61.31	61.19
	I3	65.38	69.45	61.52	56.10	45.40	45.32
	I4		58.53	51.51	45.75	35.77	35.70
Household consumption	D1	93.76	100.19	71.30	69.66	67.91	65.14
	D2	83.28	76.72	74.56	66.60	59.53	54.95
	D3	73.51	74.37	70.13	76.68	57.32	49.38

3

**Natural gas prices for standard consumer groups - non-household consumption [EUR/MWh]**



**Natural gas prices for standard consumer groups - household consumption [EUR/MWh]**



3

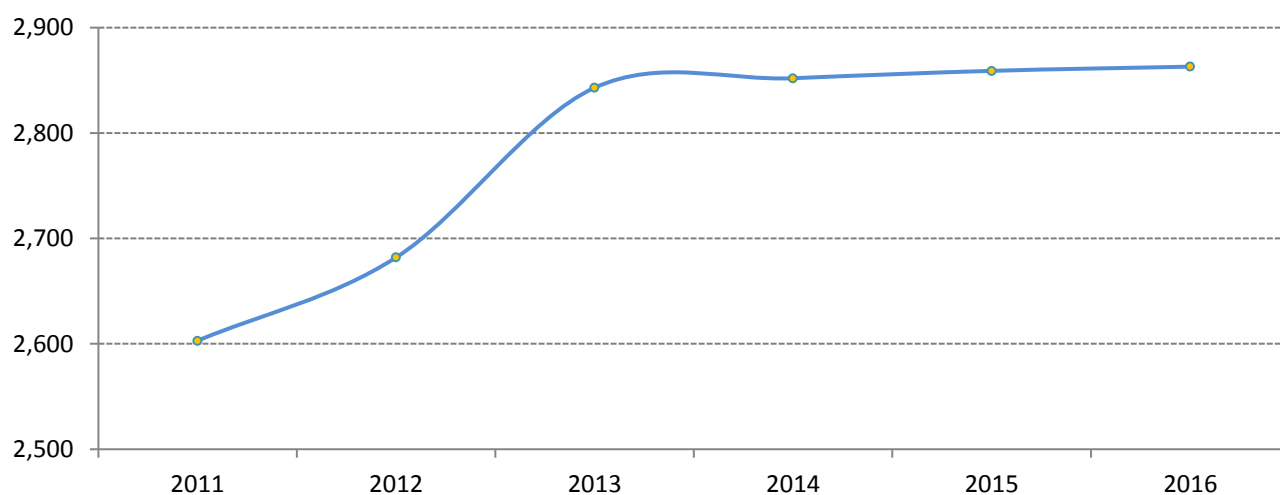
I1 < 277.77 MWh/per year  
 I2 277.77 MWh/per year do 2,777.77 MWh/per year  
 I3 2,777.77 MWh/per year do 27,777.77 MWh/per year  
 I4 >= 27,777.77 MWh/per year

D1 < 5.55 MWh/per year  
 D2 5.55 MWh/per year do 55.55 MWh/per year  
 D3 >= 55.55 MWh/per year

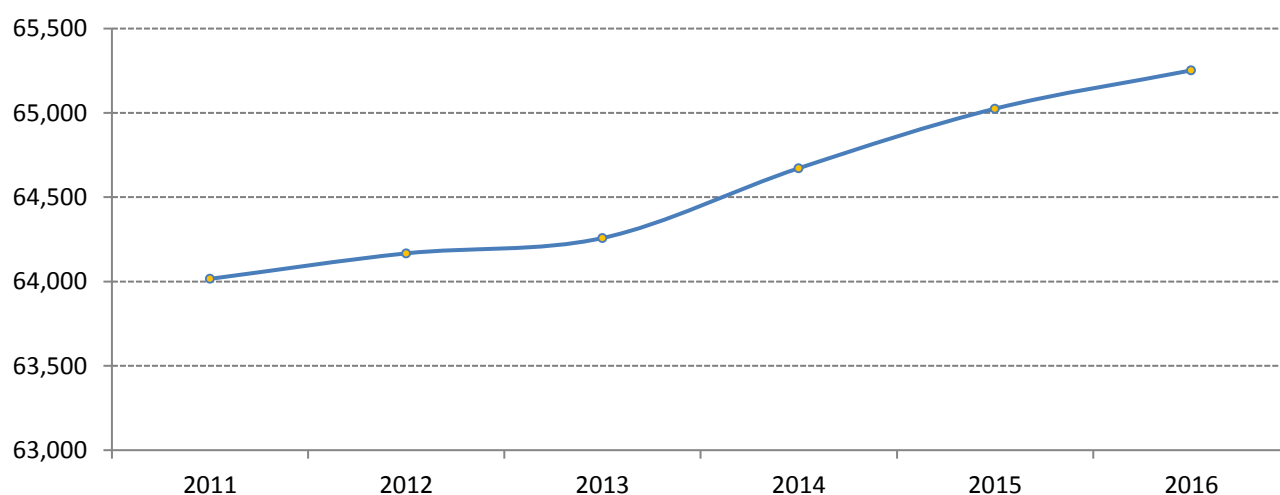
## Length of the electricity network

	2011	2012	2013	2014	2015	2016
<b>Total length of the electricity transmission network [km]</b>	<b>2,603</b>	<b>2,682</b>	<b>2,843</b>	<b>2,852</b>	<b>2,859</b>	<b>2,863</b>
400 kV	508	508	669	669	669	669
220 kV	328	328	328	328	328	328
110 kV	1,767	1,846	1,846	1,855	1,862	1,866
<b>Total length of the electricity distribution network [km]</b>	<b>64,016</b>	<b>64,167</b>	<b>64,258</b>	<b>64,672</b>	<b>65,025</b>	<b>65,252</b>
110 kV	835	888	873	850	870	908
35, 20 in 10 kV	17,521	17,501	17,422	17,550	17,600	17,798
0,4 kV	45,660	45,778	45,963	46,272	46,555	46,546

**Total length of the electricity transmission network [km]**



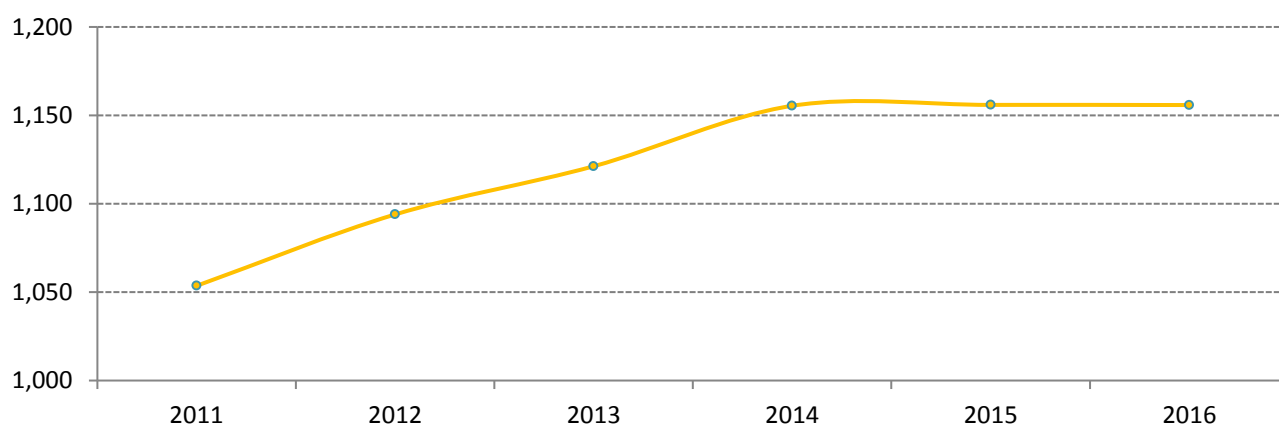
**Total length of the electricity distribution network [km]**



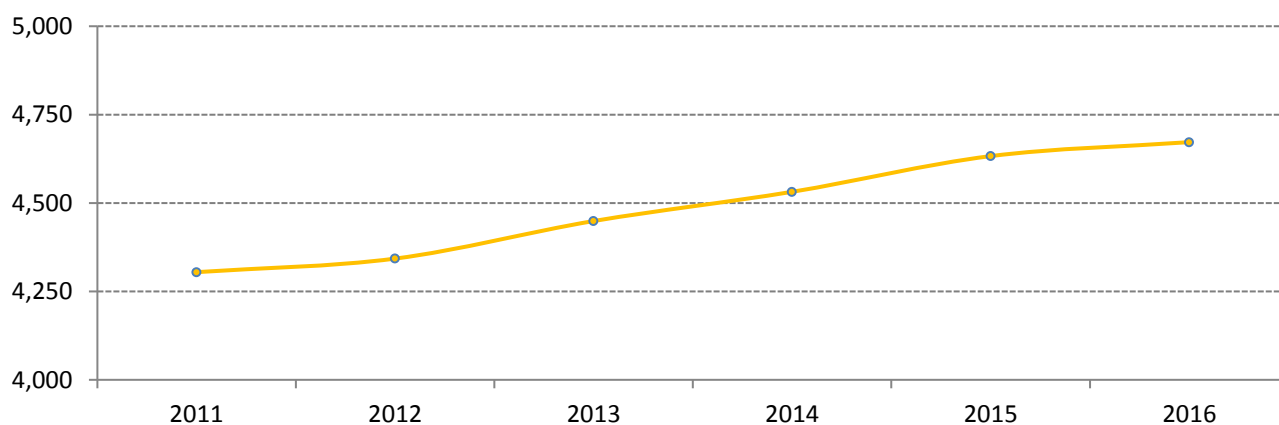
## Length of the gas network

	2011	2012	2013	2014	2015	2016
<b>Total length of the gas transmission network [km]</b>	<b>1,054</b>	<b>1,094</b>	<b>1,121</b>	<b>1,155</b>	<b>1,156</b>	<b>1,156</b>
>16 bar do ≤80 bar	845.09	885.44	912.39	946.36	946.36	946.41
>4 bar do ≤16 bar	150.50	150.51	150.51	151.68	151.41	151.46
>1 bar do ≤4 bar	36.35	36.35	36.40	36.42	36.78	36.60
>250 mbar do ≤1 bar	20.16	20.16	20.17	19.22	18.28	18.29
>100 mbar do ≤250 mbar	0	0	0	0	2.84	2.78
>30 mbar do ≤100 mbar	1.50	1.50	1.74	1.73	0.26	0.30
≤30 mbar	0	0	0	0	0	0
<b>Total length of the gas distribution network [km]</b>	<b>4,305</b>	<b>4,343</b>	<b>4,449</b>	<b>4,532</b>	<b>4,633</b>	<b>4,672</b>
>4 bar do ≤16 bar	47.17	47.39	47.69	47.34	48.12	48.12
>1 bar do ≤4 bar	1,462.23	1,473.58	1,528.83	1,566.11	1,607.43	1,636.18
>250 mbar do ≤1 bar	481.71	513.89	526.13	532.29	572.99	575.20
>100 mbar do ≤250 mbar	141.98	141.81	137.16	137.34	130.57	130.75
>30 mbar do ≤100 mbar	1,962.54	1,942.33	1,986.76	2,022.32	2,043.29	2,051.28
do ≤30 mbar	208.87	223.90	222.50	226.37	230.34	230.68

**Total length of the gas transmission network [km]**



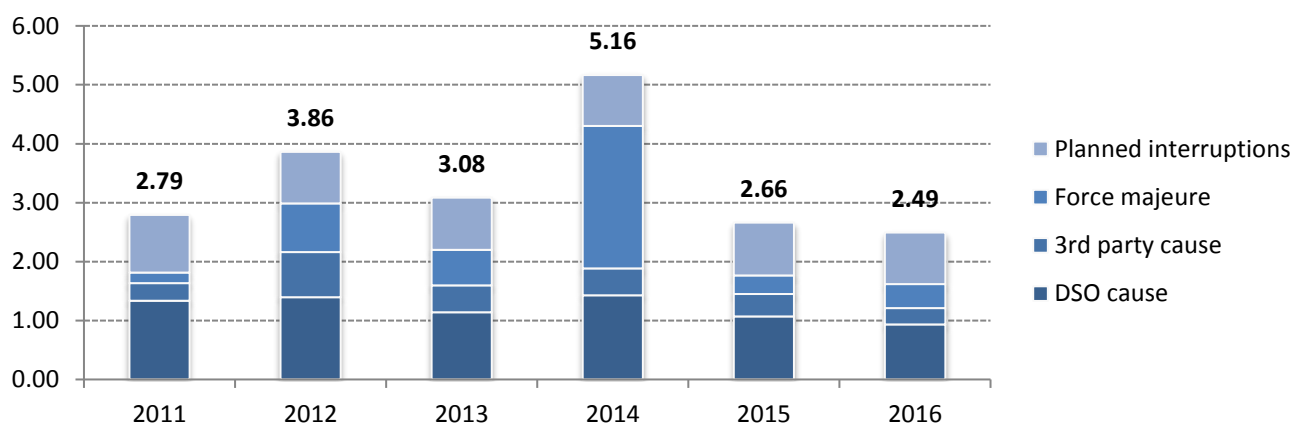
**Total length of the gas distribution network [km]**



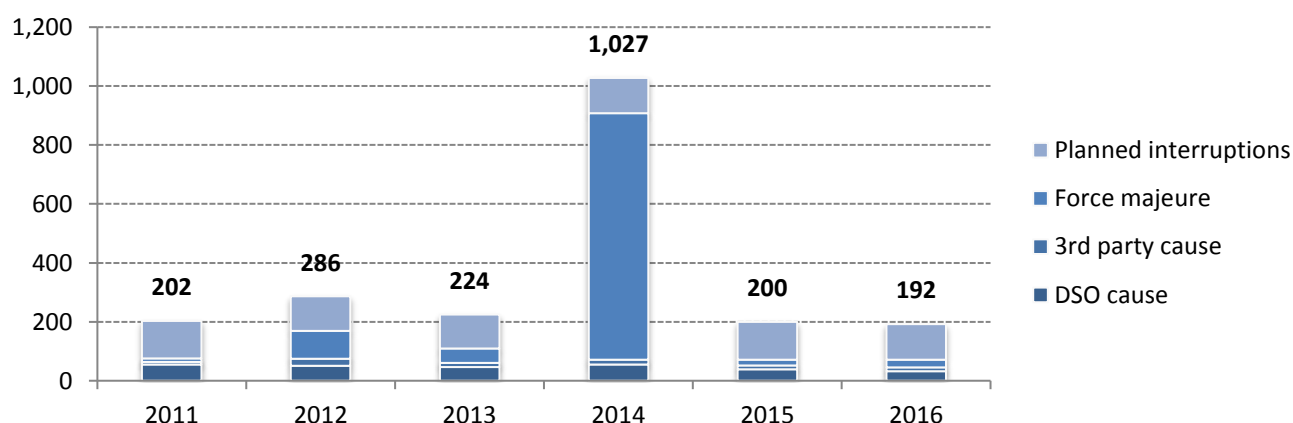
## Indicators of continuity of electricity supply – SAIFI, SAIDI<sup>4</sup>

	2011	2012	2013	2014	2015	2016
<b>SAIFI [interruptions/consumer]</b>						
Unplanned interruptions	1.81	2.99	2.20	4.30	1.77	1.62
DSO cause	1.33	1.40	1.14	1.43	1.07	0.93
3rd party cause	0.30	0.76	0.45	0.46	0.38	0.28
Force majeure	0.18	0.83	0.60	2.42	0.31	0.41
Planned interruptions	0.98	0.88	0.89	0.86	0.89	0.87
All interruptions	2.79	3.86	3.08	5.16	2.66	2.49
<b>SAIDI [min/consumer]</b>						
Unplanned interruptions	76	169	109	908	71	72
DSO cause	55	50	47	55	39	33
3rd party cause	9	24	13	16	13	13
Force majeure	12	95	49	837	19	26
Planned interruptions	126	117	115	119	129	120
All interruptions	202	286	224	1,027	200	192

**SAIFI [interruptions/consumer]**



**SAIDI [min/consumer]**

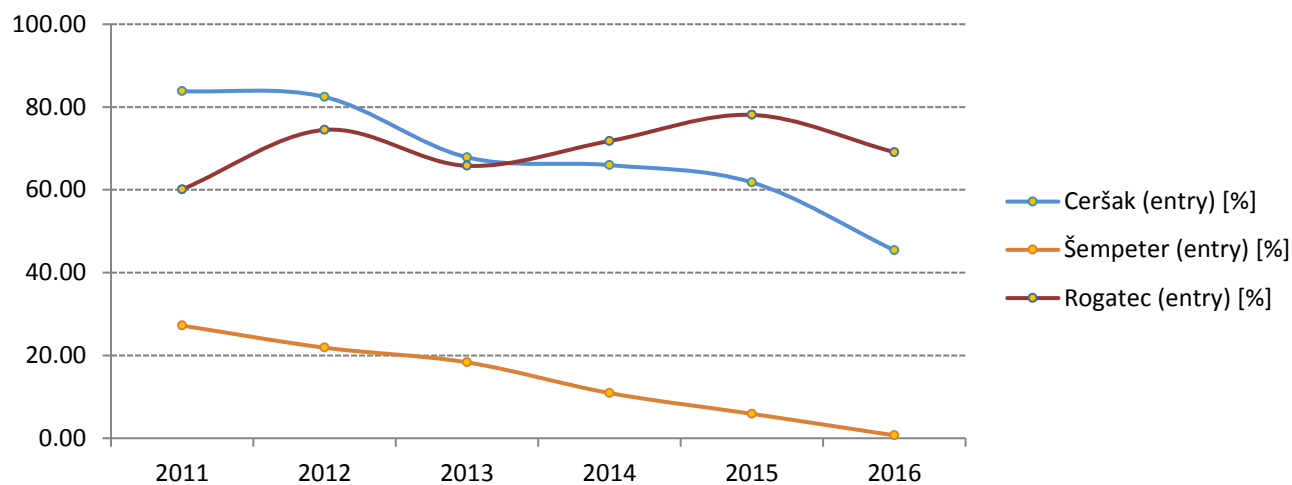


<sup>4</sup> SAIFI – System Average Interruption Frequency Index  
SAIDI – System Average Interruption Duration Index

## Maximum average monthly capacity utilization of the border metering points of the natural gas transmission network

	2011	2012	2013	2014	2015	2016
Ceršak (entry) [%]	83.85	82.43	67.86	65.97	61.80	45.40
Šempeter (entry) [%]	27.21	21.87	18.33	10.92	5.90	0.70
Rogatec (entry) [%]	60.12	74.48	65.80	71.79	78.10	69.10

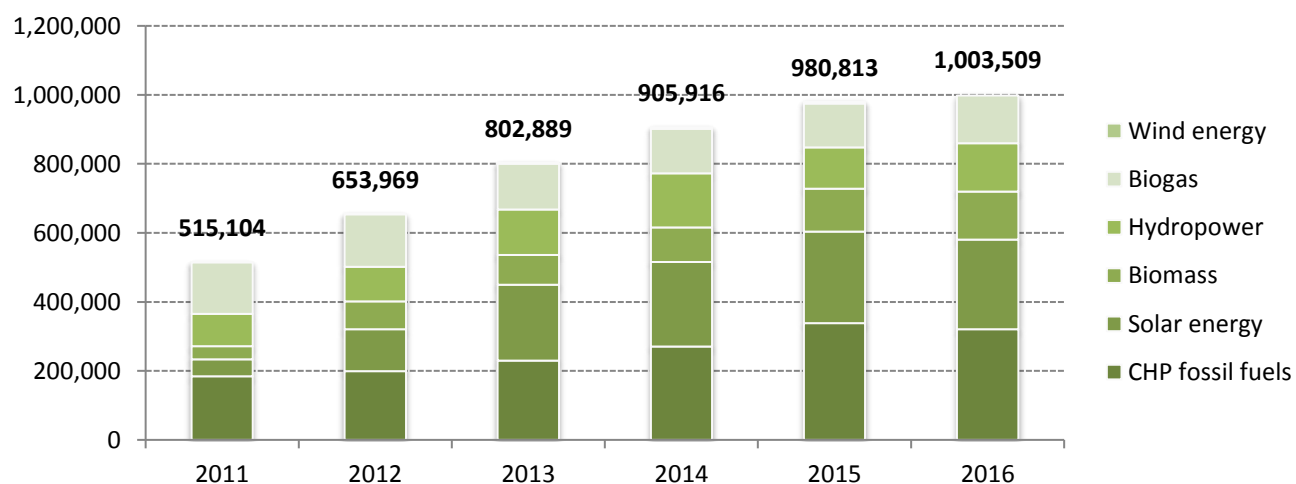
*Maximum average monthly capacity utilization rates in the border points*



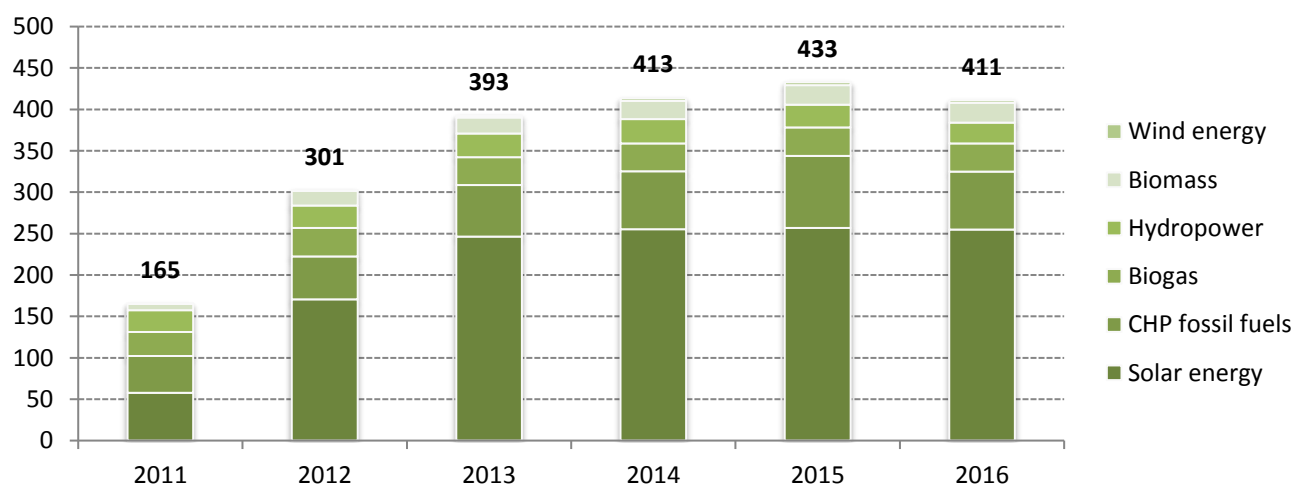
## Supported electricity production by the source and installed capacity of RES

	2011	2012	2013	2014	2015	2016
<b>Supported electricity production by the source [MWh]</b>	<b>515,104</b>	<b>653,969</b>	<b>802,889</b>	<b>905,916</b>	<b>980,813</b>	<b>1,003,509</b>
CHP fossil fuels	183,968	198,995	229,770	270,913	337,999	320,803
Solar energy	49,688	121,391	219,481	244,645	265,995	259,640
Biomass	37,737	80,867	87,057	99,975	124,083	139,661
Hydropower	93,569	100,576	131,358	156,737	119,815	139,502
Biogas	150,134	152,139	133,187	129,437	127,440	138,125
Wind energy	7	2	2,037	4,209	5,482	5,778
<b>Installed capacity of RES [MW]</b>	<b>165</b>	<b>301</b>	<b>393</b>	<b>413</b>	<b>433</b>	<b>411</b>
Solar energy	58	171	246	255	257	255
CHP fossil fuels	45	52	62	70	87	70
Biogas	29	35	34	34	34	34
Hydropower	26	27	29	29	27	25
Biomass	8	17	19	22	24	24
Wind energy	0.02	0.01	2	3	3	3

*Supported electricity production by the source [MWh]*



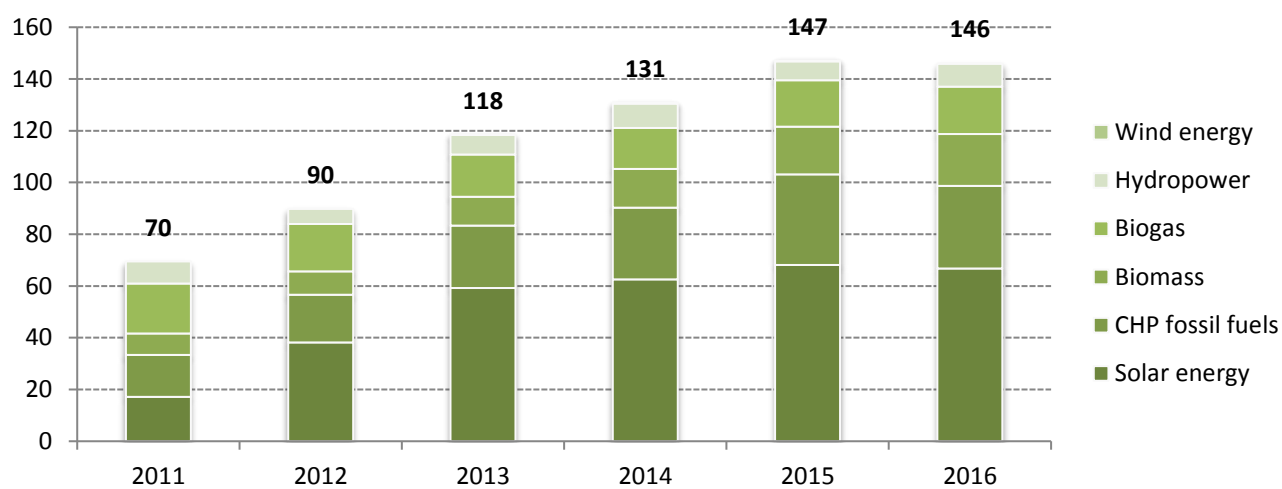
*Installed capacity of RES [MW]*



## Supported level for RES

	2011	2012	2013	2014	2015	2016
Support level for RES [in mio EUR]	70	90	118	131	147	146
Solar energy	17.2	38.2	59.2	62.6	68.1	66.8
CHP fossil fuels	16.2	18.4	24.1	27.7	35.0	31.9
Biomass	8.2	9.1	11.2	15.0	18.4	20.0
Biogas	19.4	18.3	16.3	15.8	17.9	18.3
Hydropower	8.5	5.8	7.5	9.4	7.3	8.8
Wind energy	0.0	0.0	0.1	0.3	0.3	0.4

*Support level for RES [in mio EUR]*



## About this report

The data used for preparing this report on key indicators of the electricity and natural gas markets in 2016 are obtained from publicly available databases (Statistical Office of the Republic of Slovenia) and from the companies that are engaged in the transmission, distribution, trading production of electricity and natural gas.

For better comparability of the data, the data for natural gas are calculated from standard cubic meters – Sm<sup>3</sup> to kWh or correspondingly larger units. For the calculation, these conversion factors have been used:

- until year 2014: 1 Sm<sup>3</sup> = 10.0000 kWh
- in year 2015: 1 Sm<sup>3</sup> = 10.7548 kWh
- in year 2016: 1 Sm<sup>3</sup> = 10.7660 kWh.

If this factor were changed, the figures in the report would be properly calculated. The change will be clearly indicated.