

YEARLY REPORT ON THE OPERATION OF THE CZECH ELECTRICITY GRID FOR 2021



TABLE OF CONTENTS

1	ABBREVIATIONS, ACRONYMS AND EXPLANATIONS	4
2	COMMENTARY	6
3	ELECTRICAL ENERGY BALANCES, GENERATION AND CONSUMPTION	7
3.1	Electrical energy balances – generation	7
3.2	Electrical energy balances – consumption	8
3.3	Development of electrical energy balances and generation	9
3.4	Year-on-year change in electricity generation	10
3.5	Fuels and technologies used in gross electricity generation	11
3.6	Fuels and technologies used in gross electricity generation	12
3.7	Development of electricity generation and consumption	13
3.8	Year-on-year change in electricity consumption	14
3.9	Long-term development in electricity generation and consumption	15
3.10	Development of electricity consumption by demand category	16
4	ELECTRICITY GENERATION AND CONSUMPTION IN CZECH REGIONS AND REGIONAL DISTRIBUTION SYSTEMS	17
4.1	Gross electricity generation in Czech Regions by generating technology	17
4.2	Net electricity consumption in Czech Regions by demand category	17
4.3	Net electricity consumption in Czech Regions by national economy sector	18
4.4	Year-on-year change in net electricity consumption by national economy sector	19
4.5	Fuels and technologies in gross electricity generation in Czech Regions	20
4.6	Installed capacity and electricity generation and consumption in each of the Czech Regions	21
4.7	Net electricity consumption in each RDS	35
4.8	Year-on-year change in net electricity consumption in regional distribution systems	36
5	ELECTRICITY GENERATION BY TECHNOLOGY AND FUEL	37
5.1	Nuclear power plants and thermal power stations	37
5.2	Combined cycle plants	38
5.3	Gas fired power stations	39
5.4	Hydroelectric, including pumped storage, power stations	40
5.5	Wind power plants	41
5.6	Photovoltaic plants	42
5.7	Combined heat and power generation	43
5.8	Generation from biomass	44
5.9	Generation from biogas	45
6	INSTALLED CAPACITY IN THE CZECH ELECTRICITY GRID AND BREAKDOWN BY CZECH REGIONS	46
7	CROSS-BORDER FLOWS	47
7.1	Cross-border physical flows	47
7.2	Year-on-year change in cross-border physical flows	48
7.3	Development of cross-border physical flows	48
8	PEAK AND MINIMUM LOADS	49
8.1	Monthly peak and minimum gross loads in the Czech electricity grid	49
8.2	Structure of meeting the year's daily peak/minimum loads on the Czech grid in 2021	50
8.3	Days of the peak and minimum loads on the Czech grid between 2014 and 2021	51
9	BALANCES, TECHNICAL DETAILS AND SUPPLY QUALITY IN TS AND RDS AND TARIFF STATISTICS	52
9.1	Balances of physical flows in the TS and RDS	52
9.2	Lengths of routes and lines in the TS and RDS	53
9.3	Supply points and transformers in the TS and RDS	54
9.4	Key technical details on the TS and RDS	55
9.5	Development in the electricity supply quality	56
9.6	Tariff statistics	57
9.7	Development in the tariff statistics	58
10	ADDITIONAL GRAPHS AND ELECTRICAL ENERGY BALANCE DIAGRAM	60

INTRODUCTION

The Energy Regulatory Office (ERO) publishes the Yearly Report on the Operation of the Czech Electricity Grid for 2021 under Section 17 (7) (m) of Act No 458/2000 on business conditions and public administration in the energy sectors and amending certain laws (the Energy Act), as amended. The statistics contained herein are mainly intended for Czech governmental authorities and institutions and those of the European Union, and the expert circles.

In this report, the ERO discloses all available operating and technical data representing physical flows of electricity. The ERO obtains data for the yearly report under Public Notice 404/2016 on the particulars and structure of the returns required for preparing reports on the operation of systems in energy industries, including the dates, scope and rules for preparing the returns (the Statistics Public Notice), as amended, which came into effect on 1 January 2017. Under its competences set out in Section 20a (4) (e) of the Energy Act, the market operator prepares its monthly and yearly statistics of the electricity and gas markets, which supplement the ERO's statistics with trading data.

The details of the methodology for reporting data for the ERO statistics are specified in the ERO's Explanatory Statement 8/2018 of 14 September 2018 on the method of completing the returns under the statistics public notice for the electricity and heat supply industries. The Explanatory Statement and the current returns are posted on the ERO's website.

All data for this yearly report has been obtained from licensed entities: electricity generators, distribution system operators, the transmission system operator, and the market operator.

This Yearly Report on the Operation of the Czech Electricity Grid for 2021 follows up on the yearly reports released in preceding years and provides information about the electricity industry's key statistics for 2021, including their development over the past ten years. Its respective chapters contain statistics on electrical energy balances, generation and consumption by category, including generation from renewable energy sources (RES) and combined heat and power generation (CHP). The report also contains an overview of the installed capacities in the Czech electricity grid, cross-border electricity flows, some Region-specific evaluations, and tariff statistics. The yearly report for 2021 is based on the data in the report for 4Q 2021 and contains some 2020 and 2021 data that is more accurate, largely in connection with an update of the data from OTE, a.s. and corrections of identified mistakes.

1 ABBREVIATIONS, ACRONYMS AND EXPLANATIONS

BDMW	biologically degradable municipal waste
CAIDI	Customer Average Interruption Duration Index in the period under review
CC	combined cycle plants
ČEPS	ČEPS, a.s. - the Transmission System Operator
ČEZ Distribuce	ČEZ Distribuce, a. s. - a Regional Distribution System Operator
DS	distribution system
DSO	distribution system operator
EG.D	EG.D, a.s. - a Regional Distribution System Operator
EHV	extra high voltage over 52 kV (under the ČSN 330010 standard) [≈ high voltage]
GFPS	gas fired power stations
HD_C	high demand customers
HE	hydroelectric power stations
HV	high voltage from 1 kV to 52 kV (under the ČSN 330010 standard) [≈ medium voltage]
CHP	combined heat and power generation
LD_B	low demand customers, businesses
LD_H	low demand customers, households
LDS	local distribution system
LV	low voltage up to 1 kV (under the ČSN 330010 standard)
NPP	nuclear power plants
PREdistribuce	PREdistribuce, a.s. - a Regional Distribution System Operator
PSHE	pumped storage hydroelectric power stations
PV	photovoltaic plants
RDS	regional distribution system
RES	renewable energy sources
SAIDI	System Average Interruption Duration Index in the period under review
SAIFI	System Average Interruption Frequency Index in the period under review
TPS	thermal power stations
TS	transmission system
TSO	transmission system operator
WPP	wind power plants

Balancing difference =

Gross electricity generation + cross-border balance - national gross consumption (TBS).

Total losses =

Losses in distribution system operators' and the transmission system operator's networks.

Installed capacities =

Installed capacities reflect the capacities actually connected in the transmission system and the distribution systems, i.e. the figures do not reflect the sum of the capacities from licences awarded for the respective category of electricity generation.

Local consumption =

Consumption of producers and entities directly connected to the respective generating plant.

Cross-border balance =

Net balance of cross-border exchanges of electrical energy in a given period. It is the difference between total electricity imports and total electricity exports in a given period. A positive value denotes electricity imports exceeding exports, and a negative value denotes electricity exports exceeding imports.

Electricity consumption in the CR =

NNC - OUh.

Own use (process only) for electricity generation (OUe) =

This expression denotes the consumption of electricity that is required for the electricity generating process. It covers all operations that are crucial for electricity generation, including losses in electricity generation. The definition is based on 'process own use' specified in Section 2(u) of Act No 165/2012 on supported energy sources and amending certain laws, as amended.

Own use (process only) for heat production (OUh) =

Analogous to OUe.

National gross consumption (NGC) =

NNC + consumption for pumping at PSHE + total losses + OUe.

National net consumption (NNC) =

HD_C at the EHV level + HD_C at the HV level + LD_H + LD_B + consumption of the TSO and DSOs + local consumption + OUh.

Gross electricity generation =

Total electricity available at generator terminals.

Net electricity generation =

Gross electricity generation minus OUe.

Gross load =

The hourly value of electrical power supplied to the Czech electricity grid by connected electricity producers +/- net balance - pumping at PSHE.

Load (without OUe) =

Gross load - OUe.

2 COMMENTARY

In 2021, gross electricity generation totalled 84.9 TWh, up by 3.5 TWh (+4.3%) on 2020. The largest year-on-year change in gross electricity generation was registered in thermal power stations, which produced 3.4 TWh more (+9.8%) year-on-year while their installed capacity declined to 9.5 GW, i.e. by 0.5 GW (-5.3%); this decline was mainly attributable to the closedown of the Mělník III Power Station. Electricity generation also increased in nuclear power plants, by 0.7 TWh (+2.3%), in hydroelectric power stations by 0.3 TWh (+12.3%), and in gas-fired power stations by 0.1 TWh (+3.7%). The installed capacity of gas-fired power stations increased by 2.2%, mainly due to capacities commissioned in the Středočeský and Jihomoravský Regions. On the other hand, electricity generation dropped the most in combined cycle units, by 0.8 TWh (-13.3%), and relatively also in wind power plants by 0.1 TWh (-14%). Pumped-storage hydroelectric power stations produced 0.1 TWh less (-6.3%). Gross electricity generation from brown coal and hard coal rose by 2.3 TWh (+8%) and 0.8 TWh (+44.3%) respectively, and from natural gas by 0.4 TWh (+6.6%) compared with 2020.

Gross electricity generation from renewable energy sources increased by 255 GWh (+2.5%) year-on-year. Electricity generation in wind power plants dropped by 98 GWh (-14%). Similarly, electricity generation declined by 84 GWh (-3.7%) in photovoltaic plants, with generation from biogas and landfill gas also declining (-0.1%). On the other hand, as regards the other renewable energy sources, electricity generation increased year-on-year, the most in large hydroelectric power stations (with an installed capacity of 10 MW or more) by 217 GWh (+22.5%). Biomass registered an increase of 166 GWh (+6.6%), small hydroelectric power stations by 48 GWh (+4%), and biologically degradable municipal waste by 8 GWh (+6.6%).

Gross electricity consumption rose to 73.7 TWh (+3.2%) in 2021. Most of the increase took place in households, by 1.3 TWh (+8.1%), and at high-demand customers taking power from HV networks, 1 TWh (+4.4%) and at high-demand customers taking power from EHV networks, 0.3 TWh (+4.6%). On the other hand, low-demand business customers took 41 GWh less in 2021 (-0.5%).

As in preceding years, 2021 also saw a continuously negative net balance of electricity imports and exports, amounting to 11.1 TWh for the whole year. This implies a year-on-year increase of 0.9 TWh (+9.1%). Exports and imports rose by 2.7 TWh (+11.5%) and 1.8 TWh (+13.4%) respectively year-on-year.

The annual peak load in the grid was registered on 15 February 2021 at 08:45 hrs (12,159 MW), marking a new highest-ever annual peak load on the grid and surpassing the 2018 record. The annual minimum load was registered on 8 August 2021 at 05:45 hrs (4,871 MW). The report also evaluates 15-minute load and consumption variations, including the structure of the generating capacities covering the peak load and the minimum load. Consumption on the peak and minimum load days in preceding years is also shown.

The report also shows the key technical data on the transmission system and regional distribution systems, including the supply quality ratios. The report contains tariff statistics, including their development over the last ten years. The statistics provide an overview of the number of supply points and electricity consumption by distribution tariff; they are based on billing data. The Sankey diagram, depicting the electrical energy balance for 2021, is attached at the end of the report.

3 ELECTRICAL ENERGY BALANCES, GENERATION AND CONSUMPTION

3.1 Electrical energy balances – generation [GWh]

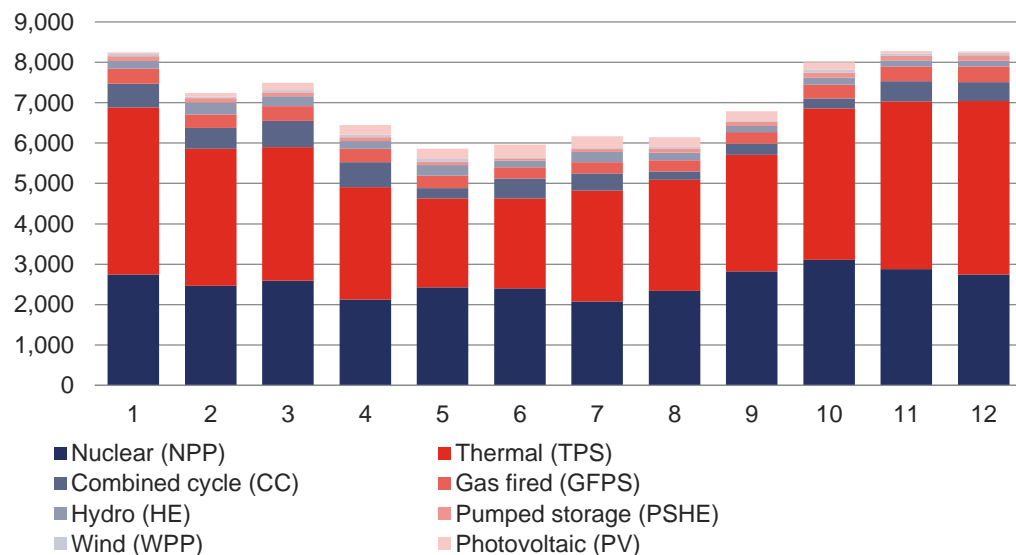
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gross electricity generation	8,249.3	7,241.4	7,495.1	6,442.6	5,860.1	5,965.2	6,171.0	6,141.3	6,785.1	8,004.2	8,278.3	8,273.8	84,907.3
Nuclear (NPP)	2,740.0	2,466.9	2,595.8	2,122.4	2,428.1	2,405.7	2,075.1	2,340.7	2,820.2	3,107.3	2,882.1	2,746.8	30,731.2
Thermal (TPS)	4,142.3	3,390.9	3,306.2	2,786.8	2,204.6	2,225.3	2,745.4	2,749.2	2,892.6	3,748.5	4,147.1	4,291.0	38,629.8
Combined cycle (CC)	585.3	516.7	648.8	618.0	250.2	491.7	429.5	203.4	270.1	252.4	504.5	469.4	5,239.8
Gas fired (GFPS)	375.1	336.3	363.6	333.4	313.1	275.2	277.2	280.5	285.2	338.1	366.9	387.1	3,931.7
Hydro (HE)	189.8	292.4	245.8	185.4	261.9	172.1	250.4	192.8	151.9	177.5	143.8	144.6	2,408.5
Pumped storage (PSHE)	118.5	107.6	93.2	102.2	77.3	49.7	72.2	104.8	114.3	119.9	118.5	133.3	1,211.4
Wind (WPP)	54.1	44.9	55.4	58.3	72.6	23.8	29.6	34.4	31.7	71.5	58.5	66.8	601.5
Photovoltaic (PV)	44.1	85.7	186.1	236.1	252.4	321.7	291.5	235.5	219.2	189.1	57.0	34.8	2,153.3
Own use (process only) for electricity generation (OUe)	520.4	459.2	467.4	405.2	384.6	395.4	429.2	437.2	467.6	542.6	552.8	543.4	5,605.0
Nuclear (NPP)	143.1	131.1	139.0	118.9	139.0	135.2	122.8	138.6	156.1	166.2	152.7	143.8	1,686.5
Thermal (TPS)	344.3	297.0	293.1	252.5	215.1	227.8	273.7	269.4	282.5	346.6	368.0	367.4	3,537.4
Combined cycle (CC)	8.8	8.2	10.2	9.6	6.1	9.3	8.6	5.2	5.8	5.3	8.5	8.1	93.7
Gas fired (GFPS)	19.5	17.8	19.6	18.9	18.9	18.5	18.8	18.7	18.3	19.0	19.3	19.5	226.7
Hydro (HE)	1.6	2.1	2.0	1.6	1.9	1.4	1.8	1.6	1.2	1.4	1.2	1.3	19.0
Pumped storage (PSHE)	1.6	1.5	1.3	1.4	1.0	0.6	0.9	1.4	1.5	1.6	1.5	1.7	15.8
Wind (WPP)	0.7	0.6	0.7	0.6	0.8	0.3	0.4	0.5	0.4	0.9	0.8	0.9	7.5
Photovoltaic (PV)	0.8	1.0	1.6	1.8	1.9	2.3	2.2	1.9	1.7	1.6	0.8	0.7	18.4
Own use (process only) for heat production (OUh)	122.3	112.2	112.5	94.9	73.5	52.1	48.5	54.3	60.3	81.8	100.8	119.2	1,032.3
Nuclear (NPP)	0.5	0.4	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.3	0.4	3.6
Thermal (TPS)	116.6	107.2	107.2	90.0	69.8	49.4	45.9	51.7	57.2	77.4	95.3	113.7	981.6
Combined cycle (CC)	1.1	1.0	1.0	0.7	0.1	0.0	0.0	0.0	0.1	0.9	1.0	1.1	7.1
Gas fired (GFPS)	4.1	3.5	3.8	3.8	3.2	2.6	2.6	2.5	2.8	3.2	4.1	3.9	40.0
Net electricity generation	7,728.9	6,782.2	7,027.7	6,037.4	5,475.4	5,569.7	5,741.7	5,704.1	6,317.5	7,461.6	7,725.5	7,730.4	79,302.3
Nuclear (NPP)	2,596.9	2,335.9	2,456.9	2,003.5	2,289.1	2,270.5	1,952.3	2,202.1	2,664.1	2,941.1	2,729.4	2,603.0	29,044.7
Thermal (TPS)	3,797.9	3,093.9	3,013.1	2,534.3	1,989.6	1,997.4	2,471.7	2,479.8	2,610.1	3,401.8	3,779.1	3,923.6	35,092.4
Combined cycle (CC)	576.5	508.5	638.6	608.3	244.1	482.5	420.8	198.1	264.3	247.1	496.0	461.3	5,146.2
Gas fired (GFPS)	355.6	318.4	344.0	314.5	294.2	256.7	258.4	261.8	266.9	319.2	347.6	367.5	3,705.0
Hydro (HE)	188.2	290.3	243.9	183.8	260.0	170.7	248.7	191.3	150.7	176.1	142.6	143.3	2,389.5
Pumped storage (PSHE)	117.0	106.1	92.0	100.8	76.2	49.1	71.3	103.4	112.7	118.3	117.0	131.6	1,195.6
Wind (WPP)	53.4	44.3	54.7	57.7	71.8	23.4	29.3	33.9	31.3	70.6	57.7	65.9	594.0
Photovoltaic (PV)	43.3	84.7	184.5	234.3	250.5	319.4	289.3	233.6	217.4	187.5	56.2	34.1	2,134.9

3.2 Electrical energy balances – consumption [GWh]

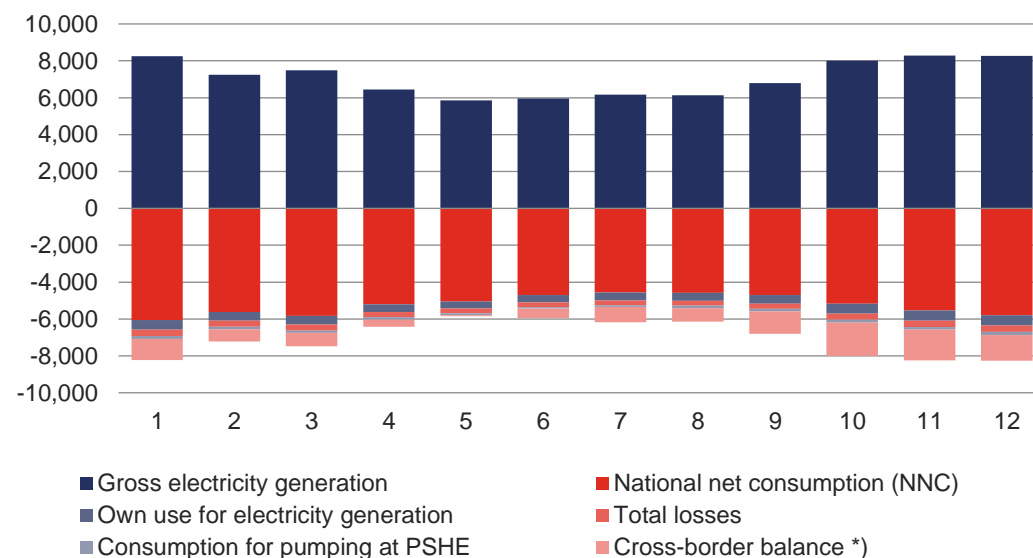
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Cross-border balance *)	-1,131.8	-657.1	-718.8	-381.2	-57.4	-522.9	-823.5	-725.3	-1,206.6	-1,808.2	-1,659.2	-1,383.3	-11,075.3
Electricity imports at TS level	1,159.1	861.0	1,160.2	1,450.2	1,150.5	849.0	1,082.6	1,181.0	1,411.0	1,636.5	1,470.5	1,408.7	14,820.3
Electricity imports at DS level	17.2	4.8	0.2	0.1	0.2	0.1	11.7	46.3	48.5	63.7	67.4	72.5	332.6
Electricity exports at TS level	-2,306.6	-1,510.7	-1,839.1	-1,812.2	-1,182.9	-1,353.4	-1,914.6	-1,952.5	-2,666.1	-3,508.0	-3,197.0	-2,864.1	-26,107.2
Electricity exports at DS level	-1.4	-12.3	-40.1	-19.3	-25.2	-18.6	-3.3	-0.1	0.0	-0.3	0.0	-0.3	-121.1
Total losses	356.3	324.9	335.9	291.0	263.1	260.0	262.2	257.4	279.6	325.3	336.0	359.0	3,650.9
In the transmission system	96.8	89.8	95.9	77.6	59.1	66.8	73.1	68.1	85.2	113.1	104.4	111.3	1,041.2
In distribution systems	259.5	235.2	240.0	213.4	204.0	193.2	189.1	189.3	194.4	212.2	231.6	247.7	2,609.7
Electricity consumption in the Czech Republic	5,931.5	5,517.4	5,717.4	5,116.0	4,972.8	4,650.9	4,513.5	4,530.7	4,636.7	5,088.1	5,441.6	5,682.9	61,799.5
HD_C from the EHV level	634.0	594.4	680.6	641.9	689.3	665.3	644.7	637.7	632.7	654.3	649.9	611.5	7,736.3
HD_C from the HV level	2,001.1	1,910.0	2,069.8	1,890.1	1,934.8	1,998.0	1,881.9	1,876.6	1,923.8	1,970.9	2,050.1	1,879.8	23,387.0
Low demand customers, businesses (LD_B)	814.4	755.0	727.6	625.9	586.9	518.1	525.5	542.6	544.1	635.4	701.7	771.5	7,748.7
Low demand customers, households (LD_H)	1,960.7	1,779.8	1,728.5	1,491.4	1,274.9	1,027.4	1,029.3	1,048.0	1,068.8	1,371.2	1,558.9	1,921.2	17,260.0
TSO's and DSOs' consumption	22.7	21.8	29.2	23.5	27.5	14.6	15.6	18.7	24.6	17.1	14.4	17.0	246.7
Local consumption	498.6	456.5	481.8	443.1	459.4	427.4	416.5	407.1	442.6	439.3	466.6	481.9	5,420.9
Own use (process only) for electricity generation	520.4	459.2	467.4	405.2	384.6	395.4	429.2	437.2	467.6	542.6	552.8	543.4	5,605.0
Own use (process only) for heat production	122.3	112.2	112.5	94.9	73.5	52.1	48.5	54.3	60.3	81.8	100.8	119.2	1,032.3
Consumption for pumping at PSHE	156.6	139.9	120.7	131.6	99.2	67.6	91.9	135.0	147.7	158.3	152.1	173.3	1,573.7
National gross consumption (NGC)	7,087.0	6,553.7	6,753.9	6,038.7	5,793.3	5,426.0	5,345.4	5,414.7	5,591.8	6,196.1	6,583.3	6,877.7	73,661.4
National net consumption (NNC)	6,053.7	5,629.6	5,829.9	5,210.9	5,046.3	4,703.0	4,562.1	4,585.0	4,696.9	5,169.9	5,542.3	5,802.0	62,831.8
Balancing difference	30.5	30.6	22.3	22.8	9.4	16.3	2.1	1.4	-13.3	-0.2	35.9	12.8	170.6

*) includes data on the TS, RDS and selected LDS (physical flows)

Gross electricity generation [GWh]



Electrical energy balances [GWh]



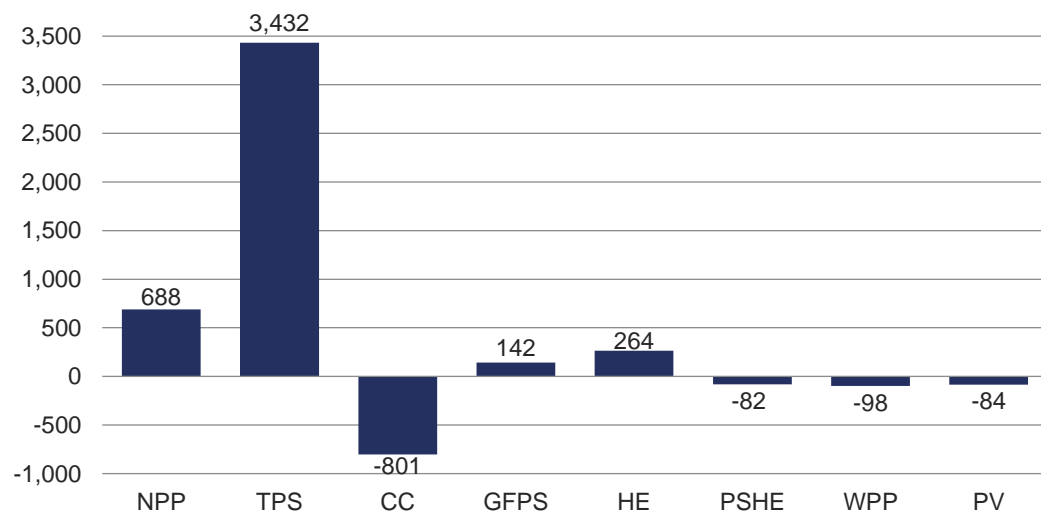
3.3 Development of electrical energy balances and generation [GWh]

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Gross electricity generation	87,574	87,065	86,013	83,894	83,305	87,041	88,002	86,991	81,445	84,907
Net electricity generation	81,088	80,858	79,899	77,887	77,418	81,008	81,902	81,147	76,128	79,302
Own use (process only) for electricity generation (TVSe)	6,485	6,207	6,114	6,007	5,887	6,033	6,100	5,844	5,317	5,605
National gross consumption	70,453	70,177	69,620	71,016	72,420	73,819	73,942	73,932	71,355	73,661
National net consumption	58,799	58,656	58,297	59,282	60,882	61,881	62,199	62,268	60,236	62,832
Own use (process only) for electricity generation (TVSe)	6,485	6,207	6,114	6,007	5,887	6,033	6,100	5,844	5,317	5,605
Total losses	4,187	4,098	3,847	4,067	4,080	4,375	4,269	4,300	4,117	3,651
Consumption for pumping at PSHE	982	1,217	1,363	1,660	1,570	1,530	1,373	1,520	1,685	1,574
Cross-border balance *)	-17,120	-16,887	-16,300	-12,516	-10,974	-13,037	-13,907	-13,097	-10,153	-11,075

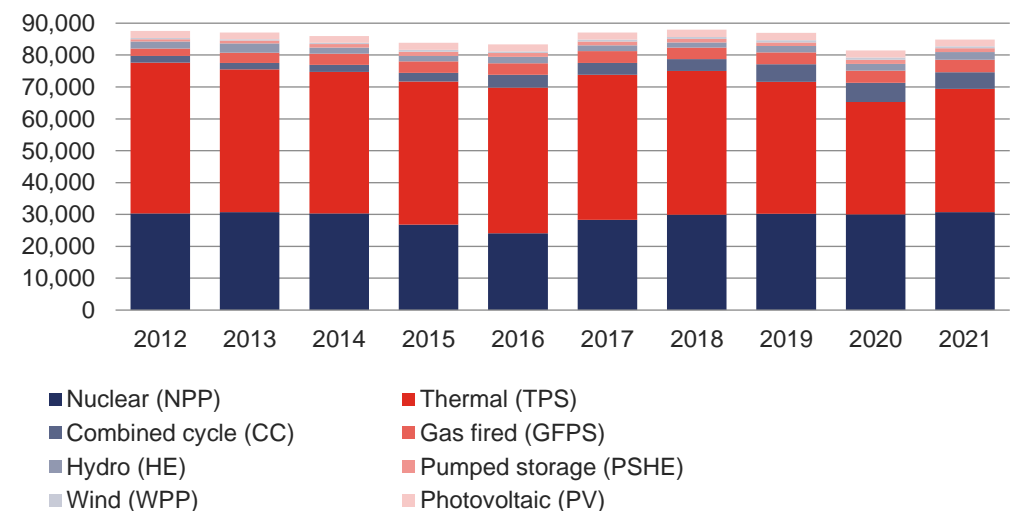
*) includes data on the TS, RDS and selected LDS (physical flows)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Gross electricity generation	87,573.7	87,064.9	86,013.4	83,893.6	83,305.5	87,041.0	88,002.0	86,990.5	81,445.5	84,907.3
Nuclear (NPP)	30,324.2	30,745.3	30,324.9	26,840.8	24,104.2	28,339.6	29,921.3	30,246.2	30,043.3	30,731.2
Thermal (TPS)	47,261.0	44,737.0	44,420.5	44,819.8	45,704.1	45,431.7	45,070.8	41,386.7	35,197.6	38,629.8
Combined cycle (CC)	2,200.4	2,092.8	2,204.7	2,749.0	4,049.2	3,722.4	3,690.9	5,518.5	6,041.3	5,239.8
Gas fired (GFPS)	2,234.7	3,179.6	3,498.3	3,572.8	3,613.9	3,719.7	3,690.4	3,676.7	3,790.1	3,931.7
Hydro (HE)	2,231.5	2,856.4	1,909.8	1,795.4	2,001.5	1,869.5	1,627.5	2,008.7	2,144.1	2,408.5
Pumped storage (PSHE)	731.4	905.3	1,051.5	1,276.0	1,201.5	1,170.5	1,050.6	1,166.7	1,293.1	1,211.4
Wind (WPP)	417.3	478.3	476.5	572.6	497.0	591.0	609.3	700.0	699.1	601.5
Photovoltaic (PV)	2,173.1	2,070.2	2,127.2	2,267.1	2,134.0	2,196.7	2,341.2	2,287.0	2,237.0	2,153.3

Year-on-year change in gross electricity generation by technology [GWh]



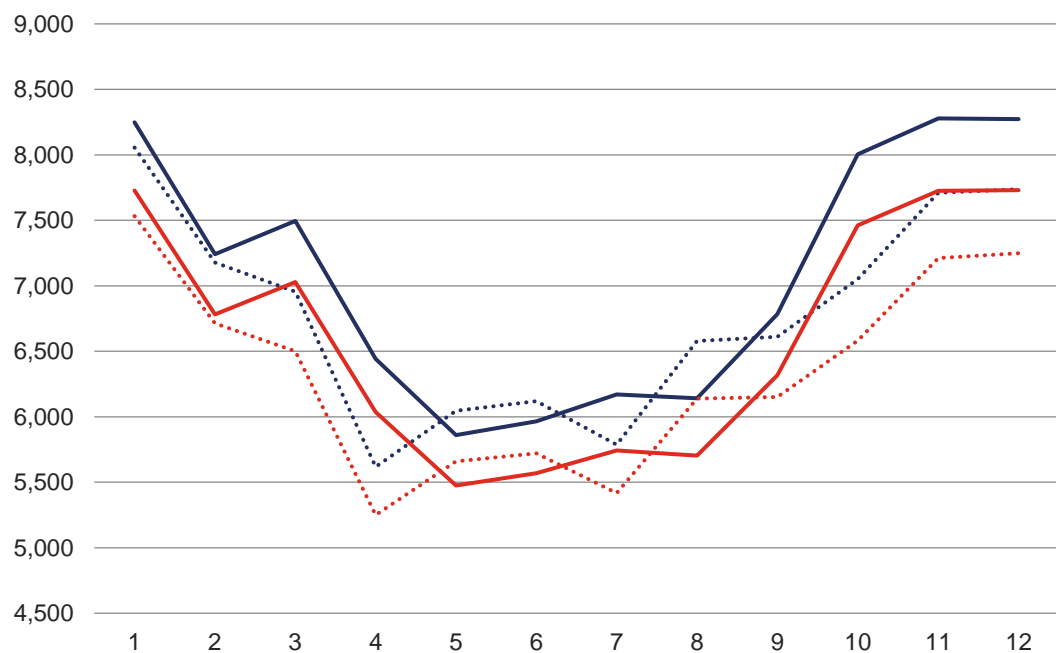
Gross electricity generation [GWh]



3.4 Year-on-year change in electricity generation [GWh]

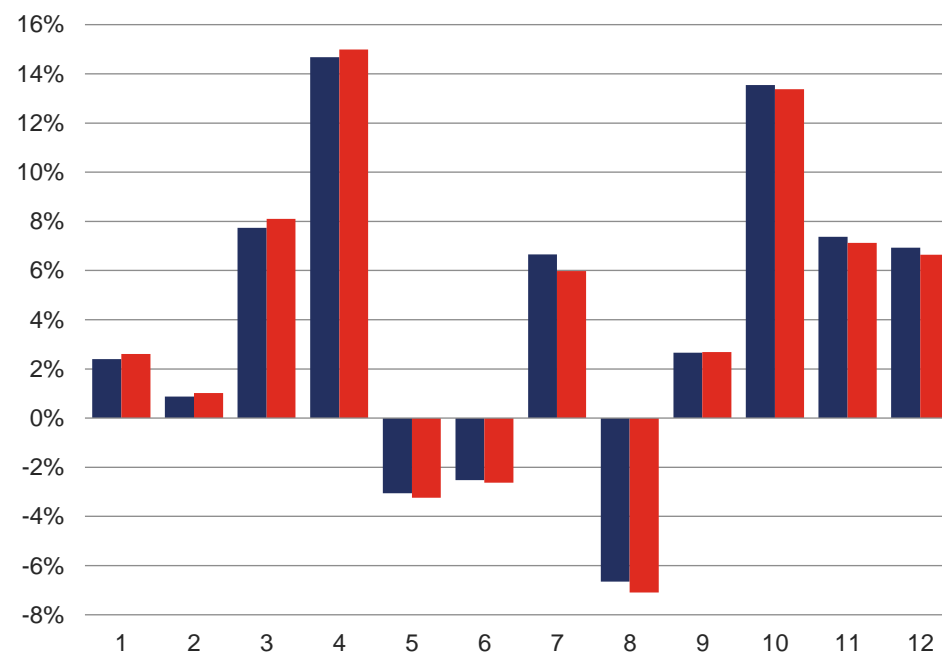
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gross electricity generation in 2020	8,056	7,178	6,956	5,618	6,045	6,120	5,786	6,579	6,610	7,050	7,710	7,738	81,445
Gross electricity generation in 2021	8,249	7,241	7,495	6,443	5,860	5,965	6,171	6,141	6,785	8,004	8,278	8,274	84,907
Year-on-year change in gross electricity generation	193	63	539	825	-185	-155	385	-437	175	955	568	536	3,462
Year-on-year change in gross electricity generation	2.4%	0.9%	7.7%	14.7%	-3.1%	-2.5%	6.7%	-6.6%	2.7%	13.5%	7.4%	6.9%	4.3%
Net electricity generation in 2020	7,532	6,714	6,501	5,250	5,659	5,720	5,418	6,139	6,152	6,582	7,212	7,249	76,128
Net electricity generation in 2021	7,729	6,782	7,028	6,037	5,475	5,570	5,742	5,704	6,318	7,462	7,726	7,730	79,302
Year-on-year change in net electricity generation	197	68	527	787	-183	-150	324	-435	165	880	513	481	3,174
Year-on-year change in net electricity generation	2.6%	1.0%	8.1%	15.0%	-3.2%	-2.6%	6.0%	-7.1%	2.7%	13.4%	7.1%	6.6%	4.2%

Electricity generation [GWh]



..... Gross electricity generation in 2020
 Net electricity generation in 2020
 — Gross electricity generation in 2021
 — Net electricity generation in 2021

Year-on-year change in electricity generation [%]



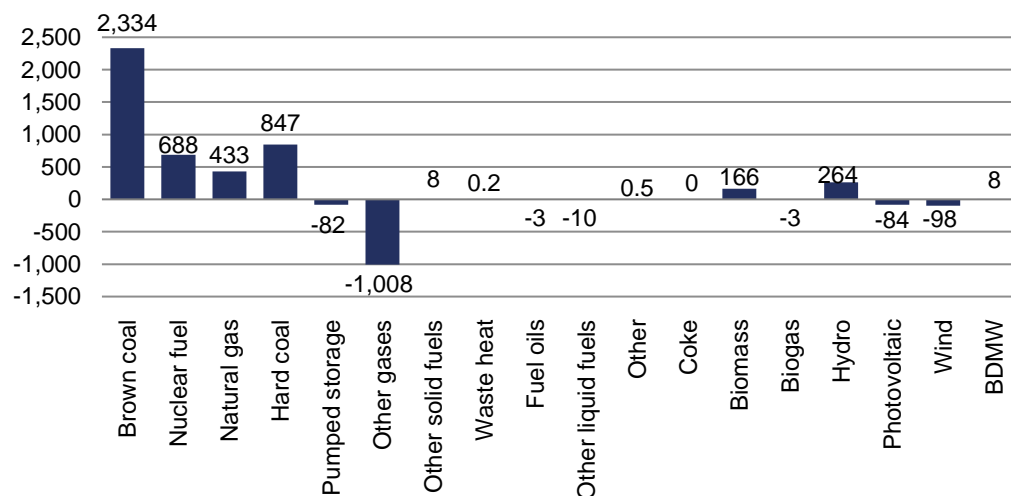
■ Year-on-year change in gross electricity generation
 ■ Year-on-year change in net electricity generation

3.5 Fuels and technologies used in gross electricity generation [GWh]

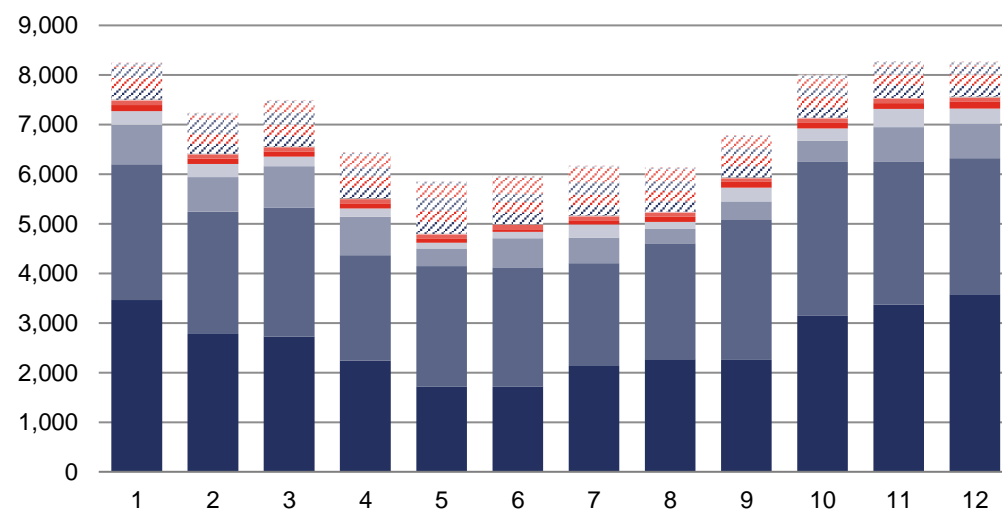
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gross electricity generation	8,249.3	7,241.4	7,495.1	6,442.6	5,860.1	5,965.2	6,171.0	6,141.3	6,785.1	8,004.2	8,278.3	8,273.8	84,907.3
■ Brown coal	3,460.0	2,778.2	2,727.8	2,244.8	1,720.0	1,716.8	2,130.7	2,266.0	2,258.8	3,152.5	3,373.9	3,577.5	31,407.1
■ Nuclear fuel	2,740.0	2,466.9	2,595.8	2,122.4	2,428.1	2,405.7	2,075.1	2,340.7	2,820.2	3,107.3	2,882.1	2,746.8	30,731.2
⊘ Renewable energy sources (RES)	744.6	827.1	938.1	928.6	1,061.6	969.3	1,005.1	900.8	852.8	865.5	739.6	714.4	10,547.3
■ Natural gas	793.6	699.5	835.7	774.2	355.7	583.5	512.8	291.9	373.1	412.7	694.0	692.9	7,019.7
■ Hard coal	280.5	262.1	195.8	169.3	111.9	134.8	268.5	140.2	275.2	251.5	366.1	305.7	2,761.7
■ Pumped storage	118.5	107.6	93.2	102.2	77.3	49.7	72.2	104.8	114.3	119.9	118.5	133.3	1,211.4
■ Other gases	91.8	80.4	90.9	84.6	89.8	87.1	89.5	81.6	75.7	82.1	88.4	85.0	1,027.0
■ Other solid fuels (excluding BDMW)	8.8	8.4	8.4	7.8	7.1	9.1	8.5	9.4	7.0	5.4	7.1	10.3	97.2
■ Waste heat	6.7	6.1	6.2	6.7	6.9	6.7	6.9	4.3	4.3	5.0	5.8	5.0	70.5
■ Fuel oils	1.9	2.2	1.2	1.1	1.4	1.5	1.7	1.5	3.1	1.7	1.5	1.7	20.6
■ Other liquid fuels	2.6	2.6	1.5	0.7	0.3	1.0	0.0	0.1	0.7	0.7	1.2	0.9	12.2
■ Other	0.1	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.5
■ Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total RES [MWh]	744.6	827.1	938.1	928.6	1,061.6	969.3	1,005.1	900.8	852.8	865.5	739.6	714.4	10,547.3
⊘ Biomass	221.2	191.9	216.0	220.3	243.2	231.9	210.0	211.9	231.6	200.3	255.9	230.1	2,664.6
⊘ Biogas	223.7	201.5	224.6	218.0	221.7	207.6	212.5	213.5	208.9	220.1	215.3	224.8	2,592.1
⊘ Hydro	189.8	292.4	245.8	185.4	261.9	172.1	250.4	192.8	151.9	177.5	143.8	144.6	2,408.5
⊘ Photovoltaic	44.1	85.7	186.1	236.1	252.4	321.7	291.5	235.5	219.2	189.1	57.0	34.8	2,153.3
⊘ Wind	54.1	44.9	55.4	58.3	72.6	23.8	29.6	34.4	31.7	71.5	58.5	66.8	601.5
⊘ BDMW	11.6	10.7	10.2	10.4	9.8	12.2	11.0	12.6	9.5	7.1	9.0	13.2	127.3
Share of RES ¹⁾	9.0%	11.4%	12.5%	14.4%	18.1%	16.2%	16.3%	14.7%	12.6%	10.8%	8.9%	8.6%	12.4%

¹⁾ Gross RES electricity generation's simple percentage of total gross electricity generation

Y/y change in fuels' and technologies' share of gross electricity generation



Fuels' and technologies' share of gross electricity generation [GWh]

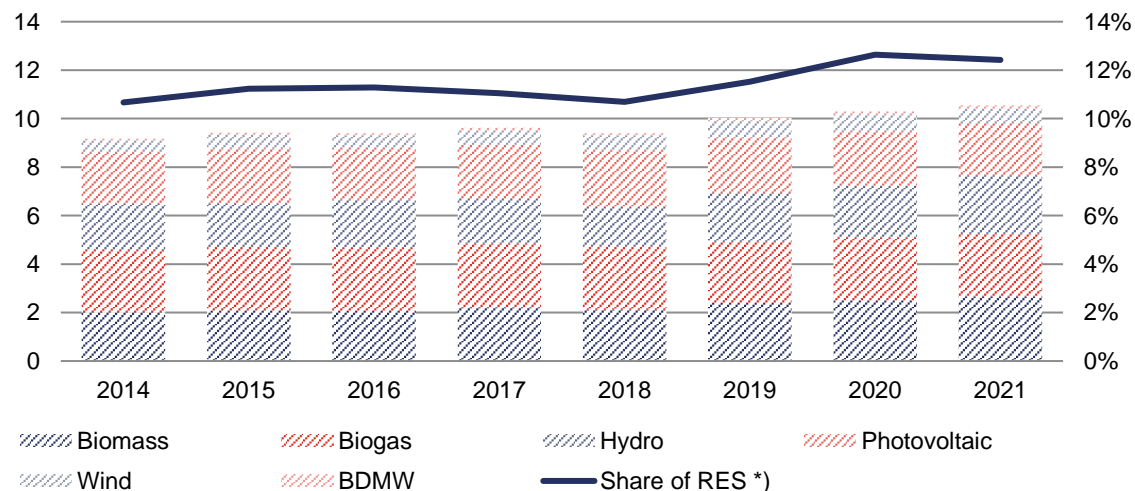


3.6 Fuels and technologies used in gross electricity generation [GWh]

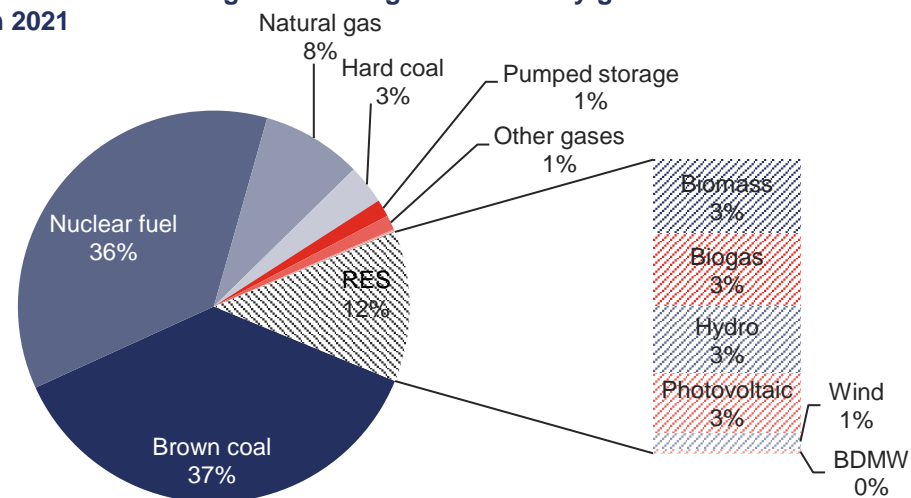
	2014	2015	2016	2017	2018	2019	2020	2021
Gross electricity generation	86,013.4	83,893.6	83,305.5	87,041.0	88,002.0	86,990.5	81,445.5	84,907.3
■ Brown coal	35,832.2	35,945.2	36,228.1	36,978.1	37,733.8	35,172.0	29,073.6	31,407.1
■ Nuclear fuel	30,324.9	26,840.8	24,104.2	28,339.6	29,921.3	30,246.2	30,043.3	30,731.2
⊘ Renewable energy sources (RES)	9,176.9	9,427.2	9,399.1	9,621.8	9,404.2	10,026.4	10,293.2	10,547.3
■ Natural gas	1,356.6	1,978.0	3,422.2	3,388.0	3,488.1	5,514.5	6,586.9	7,019.7
■ Hard coal	4,889.8	5,165.6	5,719.9	4,453.0	3,454.5	2,149.0	1,914.2	2,761.7
■ Pumped storage	1,051.5	1,276.0	1,201.5	1,170.5	1,050.6	1,166.7	1,293.1	1,211.4
■ Other gases	3,221.6	3,088.8	3,036.2	2,879.7	2,751.5	2,514.7	2,035.1	1,027.0
■ Other solid fuels (excluding BDMW)	67.5	75.9	78.3	87.8	76.8	82.0	89.7	97.2
■ Waste heat	35.4	32.4	46.0	45.6	64.3	62.1	70.3	70.5
■ Fuel oils	45.7	47.1	44.3	53.9	34.8	38.4	23.5	20.6
■ Other liquid fuels	10.7	16.1	25.0	22.8	21.6	17.4	21.8	12.2
■ Other	0.5	0.7	0.8	0.2	0.5	1.0	1.0	1.5
■ Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total RES [MWh]	9,176.9	9,427.2	9,399.1	9,621.8	9,404.2	10,026.4	10,293.2	10,547.3
⊘ Biomass	2,008.2	2,090.9	2,067.4	2,211.4	2,118.7	2,398.7	2,498.9	2,664.6
⊘ Biogas	2,567.9	2,614.5	2,600.6	2,639.0	2,607.2	2,527.1	2,594.7	2,592.1
⊘ Hydro	1,909.8	1,795.4	2,001.5	1,869.5	1,627.5	2,008.7	2,144.1	2,408.5
⊘ Photovoltaic	2,127.2	2,267.1	2,134.0	2,196.7	2,341.2	2,287.0	2,237.0	2,153.3
⊘ Wind	476.5	572.6	497.0	591.0	609.3	700.0	699.1	601.5
⊘ BDMW	87.3	86.6	98.6	114.2	100.2	104.8	119.4	127.3
Share of RES ¹⁾	10.7%	11.2%	11.3%	11.1%	10.7%	11.5%	12.6%	12.4%

¹⁾ Gross RES electricity generation's simple percentage of total gross electricity generation

Gross RES electricity generation and its share of total gross electricity generation (TWh)



Fuels and technologies used in gross electricity generation in 2021



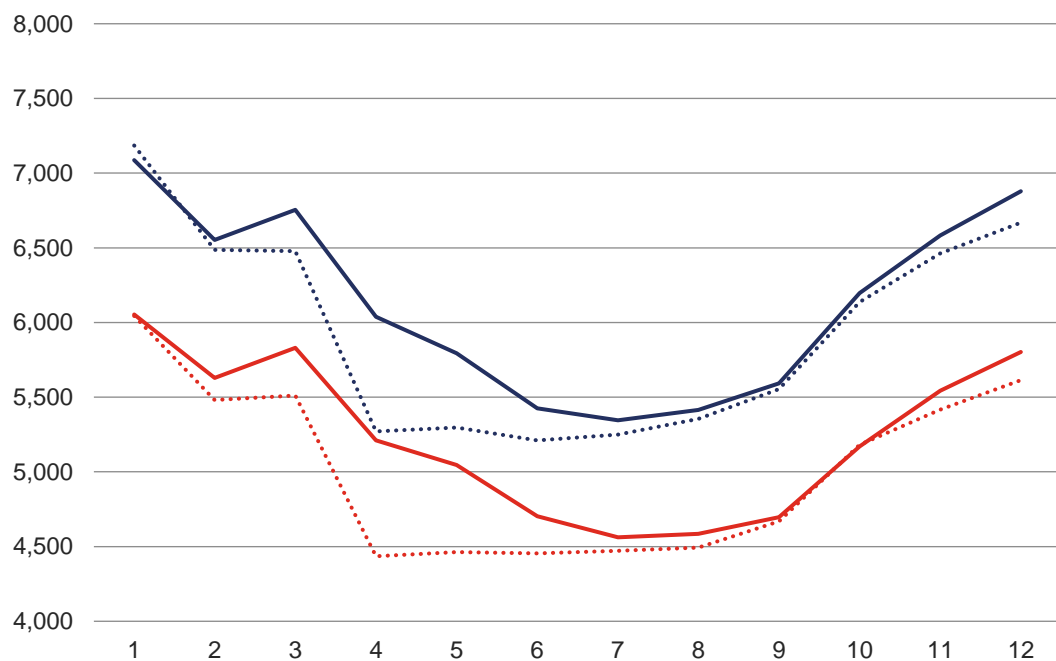
3.7 Development of electricity generation and consumption [GWh]

		January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	Gross electricity generation	8,520.3	7,825.2	8,149.4	7,642.7	6,969.6	6,653.2	6,873.9	6,336.6	6,443.5	7,178.1	7,345.0	7,636.2	87,573.7
	Net electricity generation	7,914.1	7,257.6	7,564.3	7,086.5	6,425.7	6,118.2	6,334.7	5,836.0	5,965.4	6,665.0	6,828.5	7,092.4	81,088.4
	National gross consumption	6,752.7	6,839.5	6,273.5	5,739.0	5,465.1	5,208.5	5,154.6	5,239.4	5,277.4	5,965.8	6,146.8	6,390.9	70,453.3
	National net consumption	5,568.0	5,695.7	5,248.4	4,746.7	4,527.3	4,375.5	4,296.9	4,382.0	4,420.0	5,028.4	5,190.3	5,319.4	58,798.6
2013	Gross electricity generation	8,196.5	7,345.5	8,119.0	7,112.1	6,970.5	6,391.7	6,678.5	6,612.5	6,283.0	7,737.2	7,960.2	7,658.4	87,064.9
	Net electricity generation	7,632.0	6,840.9	7,565.4	6,617.0	6,458.6	5,921.5	6,172.4	6,103.1	5,809.7	7,194.5	7,413.5	7,129.8	80,858.2
	National gross consumption	6,784.9	6,122.2	6,582.7	5,729.9	5,478.3	5,100.8	5,148.9	5,286.6	5,390.5	6,002.8	6,244.3	6,305.4	70,177.4
	National net consumption	5,696.8	5,141.4	5,517.7	4,803.3	4,580.4	4,327.0	4,280.5	4,369.4	4,526.8	4,968.8	5,202.0	5,242.0	58,656.3
2014	Gross electricity generation	8,210.4	7,316.4	8,134.0	7,336.9	6,784.6	6,259.2	5,843.3	6,105.6	7,208.7	8,029.7	7,388.9	7,395.6	86,013.4
	Net electricity generation	7,651.5	6,809.5	7,570.9	6,817.7	6,283.3	5,799.8	5,406.9	5,653.2	6,693.7	7,472.7	6,865.1	6,875.2	79,899.5
	National gross consumption	6,616.2	5,985.4	6,167.7	5,686.3	5,574.0	5,243.5	5,254.3	5,263.7	5,429.3	5,990.2	6,102.2	6,307.1	69,619.8
	National net consumption	5,511.4	4,987.0	5,096.1	4,732.0	4,656.1	4,442.6	4,499.7	4,452.0	4,513.9	4,951.0	5,090.4	5,364.5	58,296.6
2015	Gross electricity generation	8,279.9	7,821.2	8,141.1	7,327.8	6,419.7	6,274.7	6,200.7	6,424.3	5,928.3	6,915.3	6,971.6	7,189.0	83,893.6
	Net electricity generation	7,721.4	7,290.8	7,582.3	6,822.1	5,960.8	5,814.1	5,715.6	5,920.9	5,476.8	6,420.9	6,481.8	6,679.1	77,886.6
	National gross consumption	6,689.9	6,209.0	6,436.8	5,814.1	5,542.6	5,401.0	5,451.4	5,408.9	5,409.5	6,137.9	6,222.5	6,292.4	71,016.2
	National net consumption	5,586.0	5,171.8	5,357.5	4,854.0	4,672.4	4,531.3	4,539.3	4,517.3	4,540.6	5,113.4	5,193.0	5,205.4	59,282.1
2016	Gross electricity generation	7,815.7	7,267.7	8,032.5	7,074.0	6,921.4	6,255.6	6,203.0	6,015.4	5,850.8	6,866.5	7,337.4	7,665.7	83,305.5
	Net electricity generation	7,273.1	6,764.6	7,492.4	6,597.9	6,433.0	5,795.0	5,734.5	5,574.0	5,403.8	6,370.0	6,836.1	7,144.1	77,418.5
	National gross consumption	6,972.3	6,238.1	6,446.8	5,804.3	5,743.8	5,344.1	5,264.8	5,460.1	5,587.5	6,205.3	6,561.8	6,790.9	72,419.6
	National net consumption	5,821.4	5,237.7	5,433.2	4,873.8	4,813.0	4,534.5	4,393.5	4,592.8	4,689.7	5,240.1	5,553.5	5,699.3	60,882.4
2017	Gross electricity generation	8,646.7	7,445.1	7,916.3	7,853.9	6,770.7	5,835.3	5,444.4	6,523.7	7,194.0	7,688.7	8,176.7	7,545.5	87,041.0
	Net electricity generation	8,072.6	6,945.7	7,380.8	7,315.7	6,301.2	5,412.3	5,042.9	6,061.3	6,687.1	7,138.4	7,623.7	7,026.7	81,008.4
	National gross consumption	7,511.6	6,420.3	6,556.2	6,003.0	5,796.0	5,455.6	5,218.3	5,556.2	5,704.7	6,245.0	6,635.6	6,716.8	73,819.3
	National net consumption	6,319.5	5,381.1	5,501.4	4,983.8	4,876.9	4,612.2	4,452.8	4,651.7	4,747.4	5,208.2	5,534.6	5,611.9	61,881.5
2018	Gross electricity generation	7,479.5	7,088.5	8,447.7	6,686.1	7,082.5	6,651.6	6,629.0	6,770.5	7,123.5	7,793.4	8,052.8	8,196.6	88,002.0
	Net electricity generation	6,965.9	6,610.1	7,876.4	6,223.6	6,586.6	6,176.3	6,155.9	6,275.1	6,613.2	7,253.5	7,514.4	7,650.9	81,902.0
	National gross consumption	6,944.8	6,579.1	7,098.4	5,711.7	5,772.9	5,543.5	5,424.0	5,619.9	5,531.6	6,294.4	6,652.6	6,768.7	73,941.7
	National net consumption	5,863.0	5,603.1	5,962.1	4,792.3	4,830.8	4,668.4	4,597.3	4,759.7	4,646.5	5,257.8	5,575.1	5,643.4	62,199.4
2019	Gross electricity generation	8,557.2	7,747.0	7,507.5	6,892.2	7,166.0	6,149.9	5,728.9	6,517.3	6,994.3	8,011.2	7,838.4	7,880.5	86,990.5
	Net electricity generation	8,001.0	7,238.1	7,004.1	6,422.2	6,686.8	5,726.1	5,319.5	6,058.2	6,525.3	7,485.5	7,324.2	7,355.6	81,146.6
	National gross consumption	7,359.8	6,426.7	6,564.3	5,927.7	6,028.6	5,492.8	5,451.2	5,599.6	5,706.7	6,273.9	6,452.8	6,647.7	73,931.6
	National net consumption	6,201.9	5,429.2	5,576.3	5,018.0	5,100.9	4,680.6	4,621.2	4,700.9	4,730.2	5,218.7	5,452.5	5,537.4	62,267.8
2020	Gross electricity generation	8,055.9	7,178.5	6,956.5	5,617.8	6,045.0	6,119.8	5,786.1	6,578.8	6,609.7	7,049.6	7,710.2	7,737.7	81,445.5
	Net electricity generation	7,532.2	6,714.3	6,501.0	5,250.2	5,658.6	5,719.9	5,417.8	6,139.4	6,152.2	6,581.7	7,212.1	7,249.0	76,128.3
	National gross consumption	7,185.1	6,486.1	6,476.7	5,272.2	5,297.3	5,210.7	5,250.6	5,354.6	5,553.4	6,136.3	6,463.3	6,668.3	71,354.8
	National net consumption	6,044.3	5,481.4	5,511.2	4,435.5	4,462.6	4,454.4	4,471.1	4,493.2	4,668.3	5,181.8	5,417.2	5,614.6	60,235.7
2021	Gross electricity generation	8,249.3	7,241.4	7,495.1	6,442.6	5,860.1	5,965.2	6,171.0	6,141.3	6,785.1	8,004.2	8,278.3	8,273.8	84,907.3
	Net electricity generation	7,728.9	6,782.2	7,027.7	6,037.4	5,475.4	5,569.7	5,741.7	5,704.1	6,317.5	7,461.6	7,725.5	7,730.4	79,302.3
	National gross consumption	7,087.0	6,553.7	6,753.9	6,038.7	5,793.3	5,426.0	5,345.4	5,414.7	5,591.8	6,196.1	6,583.3	6,877.7	73,661.4
	National net consumption	6,053.7	5,629.6	5,829.9	5,210.9	5,046.3	4,703.0	4,562.1	4,585.0	4,696.9	5,169.9	5,542.3	5,802.0	62,831.8

3.8 Year-on-year change in electricity consumption [GWh]

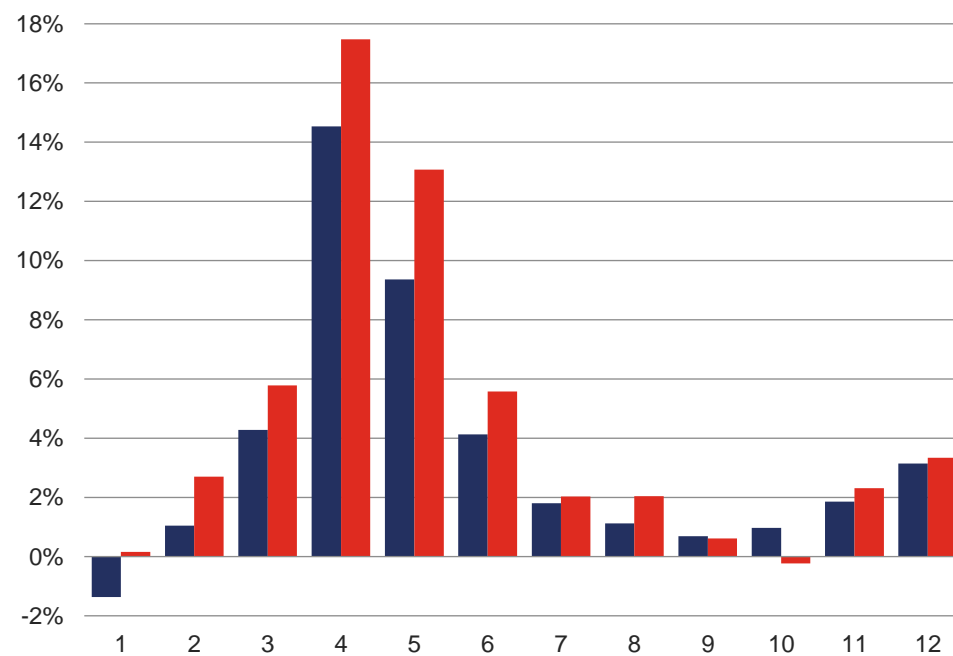
	January	February	March	April	May	June	July	August	September	October	November	December	Total
National gross consumption in 2020	7,185.1	6,486.1	6,476.7	5,272.2	5,297.3	5,210.7	5,250.6	5,354.6	5,553.4	6,136.3	6,463.3	6,668.3	71,354.8
National gross consumption in 2021	7,087.0	6,553.7	6,753.9	6,038.7	5,793.3	5,426.0	5,345.4	5,414.7	5,591.8	6,196.1	6,583.3	6,877.7	73,661.4
Year-on-year gross change in NGC	-98.1	67.5	277.2	766.5	495.9	215.3	94.8	60.0	38.3	59.8	119.9	209.3	2,306.6
Year-on-year change in NGC	-1.4%	1.0%	4.3%	14.5%	9.4%	4.1%	1.8%	1.1%	0.7%	1.0%	1.9%	3.1%	3.2%
National net consumption in 2020	6,044.3	5,481.4	5,511.2	4,435.5	4,462.6	4,454.4	4,471.1	4,493.2	4,668.3	5,181.8	5,417.2	5,614.6	60,235.7
National net consumption in 2021	6,053.7	5,629.6	5,829.9	5,210.9	5,046.3	4,703.0	4,562.1	4,585.0	4,696.9	5,169.9	5,542.3	5,802.0	62,831.8
Year-on-year net change in NNC	9.4	148.2	318.8	775.4	583.6	248.6	90.9	91.8	28.6	-11.9	125.1	187.5	2,596.1
Year-on-year change in NNC	0.2%	2.7%	5.8%	17.5%	13.1%	5.6%	2.0%	2.0%	0.6%	-0.2%	2.3%	3.3%	4.3%

Electricity consumption [GWh]



..... National gross consumption in 2020 — National gross consumption in 2021
 National net consumption in 2020 — National net consumption in 2021

Year-on-year change in electricity consumption [%]



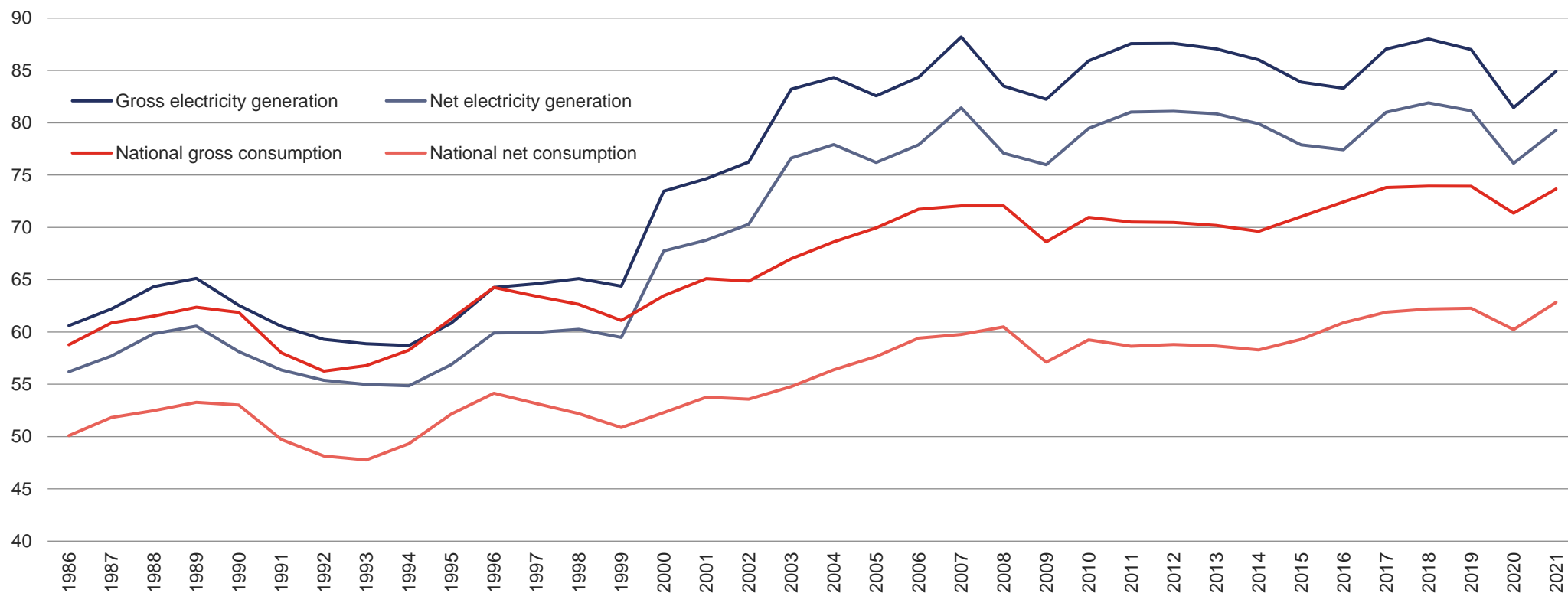
■ Year-on-year change in national gross consumption
 ■ Year-on-year change in national net consumption

3.9 Long-term development in electricity generation and consumption [TWh]

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Gross electricity generation	60.61	62.20	64.34	65.13	62.56	60.53	59.29	58.88	58.71	60.85	64.26	64.60	65.11	64.37	73.47	74.65	76.26	83.21
Net electricity generation	56.21	57.71	59.82	60.57	58.11	56.38	55.37	54.98	54.85	56.88	59.90	59.96	60.26	59.47	67.74	68.78	70.30	76.63
National gross consumption	58.79	60.86	61.52	62.35	61.87	58.00	56.26	56.78	58.26	61.27	64.25	63.41	62.65	61.09	63.45	65.11	64.87	66.99
National net consumption	50.08	51.82	52.48	53.27	53.02	49.71	48.15	47.77	49.31	52.16	54.15	53.16	52.20	50.86	52.29	53.78	53.58	54.78

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Gross electricity generation	84.33	82.58	84.36	88.20	83.52	82.25	85.91	87.56	87.57	87.07	86.01	83.89	83.31	87.04	88.00	86.99	81.45	84.91
Net electricity generation	77.92	76.19	77.88	81.41	77.09	75.99	79.47	81.03	81.09	80.86	79.90	77.89	77.42	81.01	81.90	81.15	76.13	79.30
National gross consumption	68.62	69.95	71.73	72.05	72.05	68.61	70.96	70.52	70.45	70.18	69.62	71.02	72.42	73.82	73.94	73.93	71.35	73.66
National net consumption	56.39	57.66	59.42	59.75	60.48	57.11	59.26	58.63	58.80	58.66	58.30	59.28	60.88	61.88	62.20	62.27	60.24	62.83

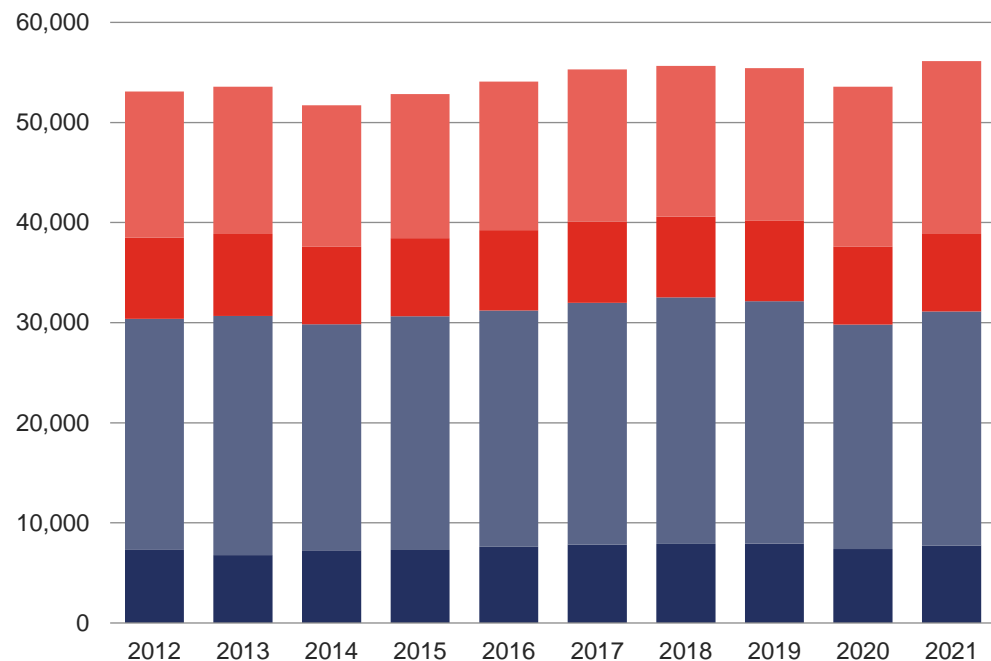
Long-term development in electricity generation and consumption [TWh]



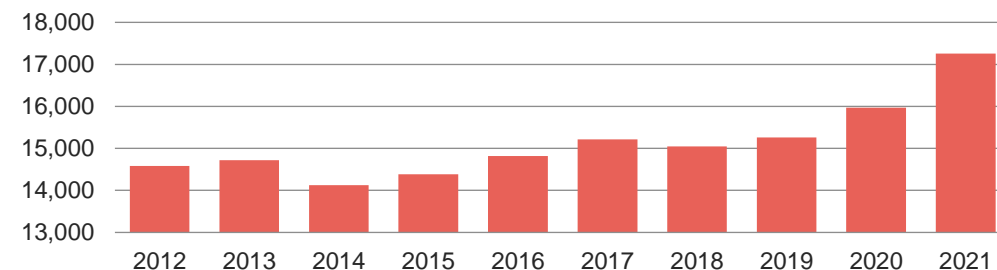
3.10 Development of electricity consumption by demand category [GWh]

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total	53,081.9	53,575.0	51,711.8	52,832.0	54,070.3	55,313.8	55,638.0	55,434.5	53,562.5	56,131.9
■ High demand from EHV (HD_EHV)	7,343.6	6,791.0	7,266.1	7,296.4	7,616.4	7,821.8	7,897.8	7,921.7	7,397.9	7,736.3
■ High demand from HV (HD_HV)	23,057.1	23,896.0	22,587.5	23,354.1	23,607.4	24,171.8	24,626.6	24,236.4	22,402.7	23,387.0
■ Low demand businesses (LD_B)	8,100.6	8,172.0	7,733.7	7,799.7	8,027.3	8,109.0	8,064.0	8,019.5	7,789.4	7,748.7
■ Low demand households (LD_H)	14,580.7	14,716.0	14,124.6	14,381.9	14,819.1	15,211.3	15,049.5	15,256.8	15,972.5	17,260.0

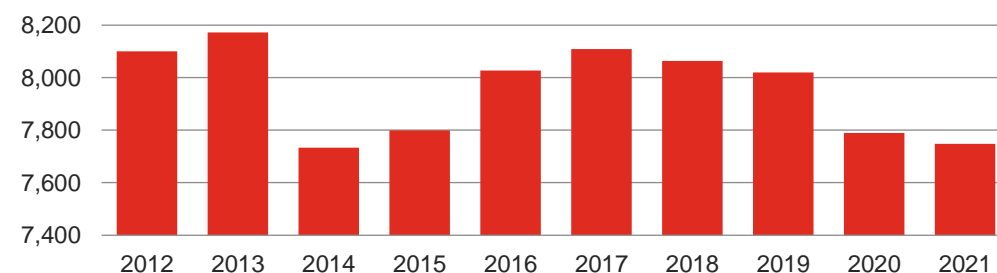
High demand and low demand electricity consumption [GWh]



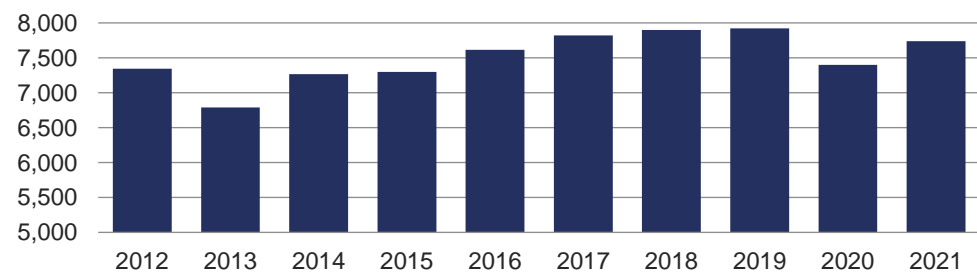
Low demand households (LD_H)



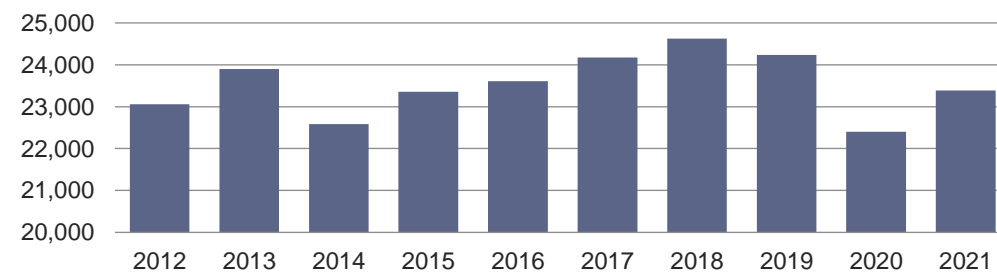
Low demand businesses (LD_B)



High demand from EHV (HD_EHV)



High demand from HV (HD_HV)



4 ELECTRICITY GENERATION AND CONSUMPTION IN CZECH REGIONS AND REGIONAL DISTRIBUTION SYSTEMS

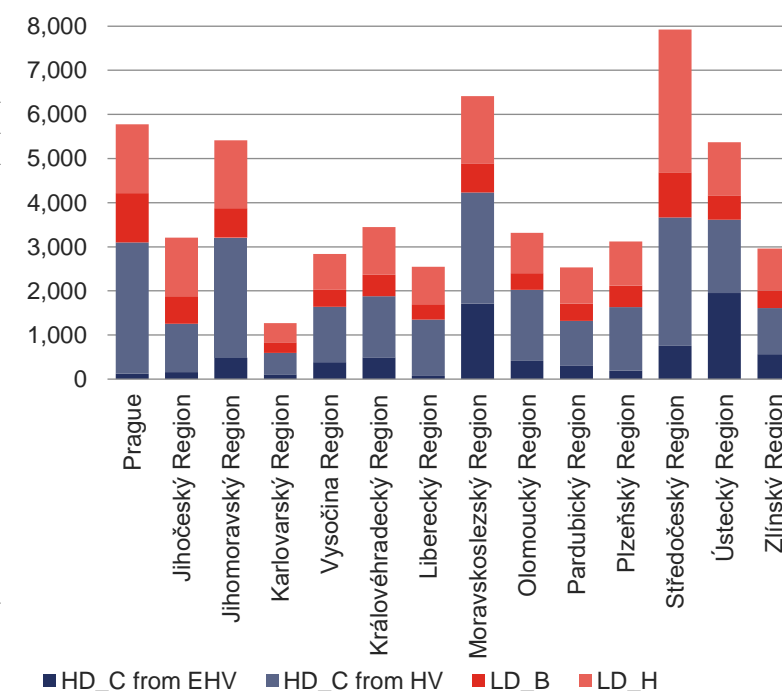
4.1 Gross electricity generation in Czech Regions by generating technology [MWh]

	NPP	TPS	CC	GFPS	HE	PSHE	WPP	PV	Total
Total Czech Republic	30,731,180.4	38,629,840.6	5,239,842.1	3,931,676.4	2,408,520.4	1,211,404.4	601,534.0	2,153,280.3	84,907,278.7
Prague	0.0	54,164.68	0.0	72,248.9	48,796.4	0.0	0.0	19,866.0	195,075.9
Jihočeský Region	15,862,733.4	425,993.42	0.0	303,425.2	240,967.2	0.0	0.0	257,921.8	17,091,041.1
Jihomoravský Region	0.0	467,877.06	331,271.0	377,686.3	83,397.3	0.0	12,957.8	512,983.9	1,786,173.4
Karlovarský Region	0.0	1,748,013.27	2,152,733.0	76,355.4	28,159.1	0.0	107,028.4	11,990.0	4,124,279.2
Vysočina Region	14,868,447.0	64,334.42	0.0	509,076.0	84,109.9	485,183.3	19,288.0	93,653.1	16,124,091.7
Královéhradecký Region	0.0	526,040.09	0.0	332,952.7	100,956.4	0.0	18,367.2	93,435.9	1,071,752.3
Liberecký Region	0.0	27,359.09	0.0	142,245.4	79,073.8	0.0	98,476.0	103,412.5	450,566.8
Moravskoslezský Region	0.0	3,855,423.21	0.0	489,817.8	59,943.2	0.0	66,057.5	60,719.6	4,531,961.3
Olomoucký Region	0.0	258,312.22	0.0	317,022.5	38,563.2	716,630.7	79,102.7	117,152.0	1,526,783.4
Pardubický Region	0.0	5,183,439.79	0.0	337,157.1	71,285.8	0.0	16,384.4	92,181.1	5,700,448.3
Plzeňský Region	0.0	870,529.07	0.0	260,351.4	79,091.0	52.0	7,728.5	210,510.0	1,428,262.1
Středočeský Region	0.0	4,972,673.04	0.0	412,437.1	1,113,578.7	9,538.4	5,400.4	249,931.5	6,763,559.2
Ústecký Region	0.0	19,861,670.84	2,755,838.1	178,587.2	350,246.9	0.0	170,623.3	154,181.8	23,471,148.1
Zlínský Region	0.0	314,010.40	0.0	122,313.3	30,351.5	0.0	119.6	175,341.0	642,135.9

4.2 Net electricity consumption in Czech Regions by demand category [MWh]

	HD_C from EHV	HD_C from HV	LD_B	LD_H	Total
Total Czech Republic	7,736,262.8	23,386,999.3	7,748,702.0	17,259,955.8	56,131,919.9
Prague	121,407.8	2,980,088.5	1,115,000.0	1,559,566.1	5,776,062.4
Jihočeský Region	162,568.4	1,094,676.6	619,042.8	1,331,722.8	3,208,010.5
Jihomoravský Region	486,627.6	2,718,597.4	672,813.4	1,535,763.9	5,413,802.3
Karlovarský Region	111,214.4	484,909.7	241,099.7	428,819.6	1,266,043.4
Vysočina Region	382,981.6	1,259,421.4	378,631.3	815,163.4	2,836,197.7
Královéhradecký Region	489,501.9	1,387,911.9	485,966.2	1,084,689.2	3,448,069.2
Liberecký Region	72,401.3	1,274,012.3	351,627.6	846,896.4	2,544,937.7
Moravskoslezský Region	1,710,688.3	2,521,805.6	657,131.3	1,528,218.4	6,417,843.6
Olomoucký Region	416,219.5	1,606,964.3	380,382.8	911,120.0	3,314,686.5
Pardubický Region	314,434.3	1,003,089.6	394,029.7	820,559.5	2,532,113.1
Plzeňský Region	195,474.7	1,439,103.5	481,371.2	1,007,668.2	3,123,617.5
Středočeský Region	753,679.1	2,914,145.0	1,023,794.7	3,231,464.0	7,923,082.9
Ústecký Region	1,955,214.2	1,657,053.7	555,410.5	1,200,199.7	5,367,878.1
Zlínský Region	563,849.8	1,045,219.8	392,400.9	958,104.6	2,959,575.0

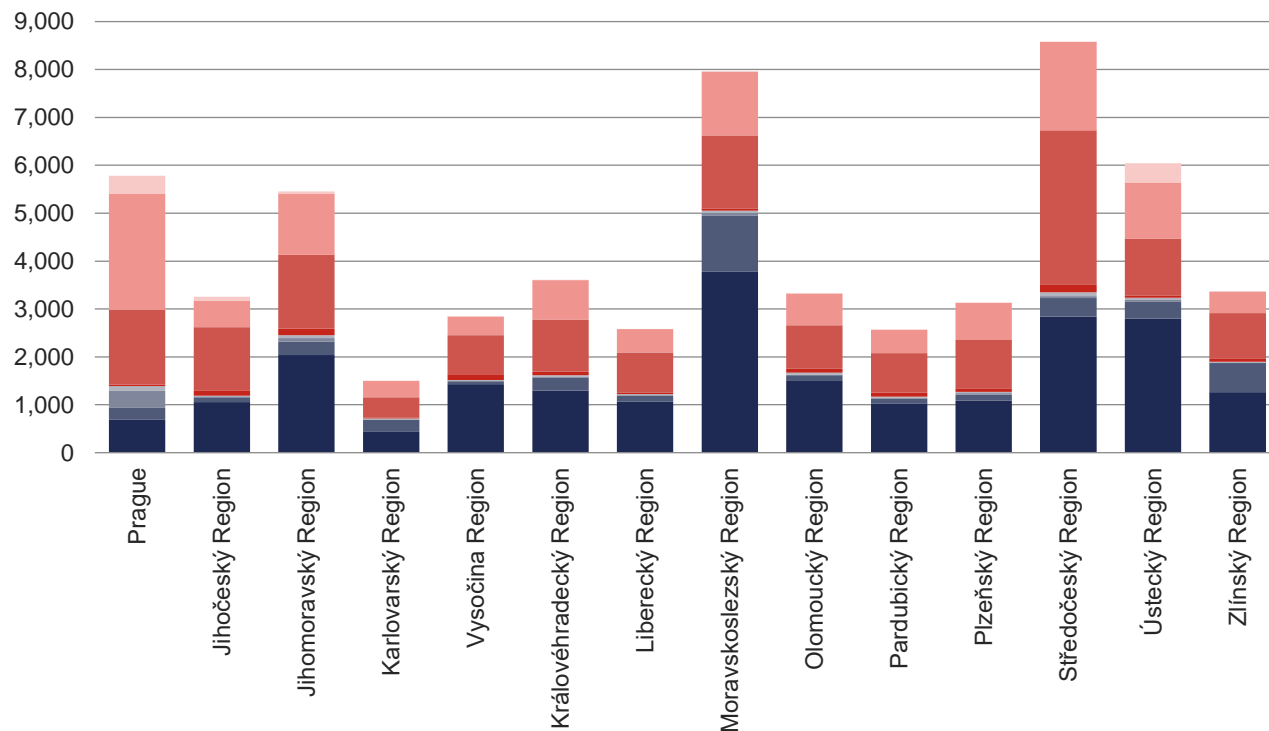
Net electricity consumption in Czech Regions [GWh]



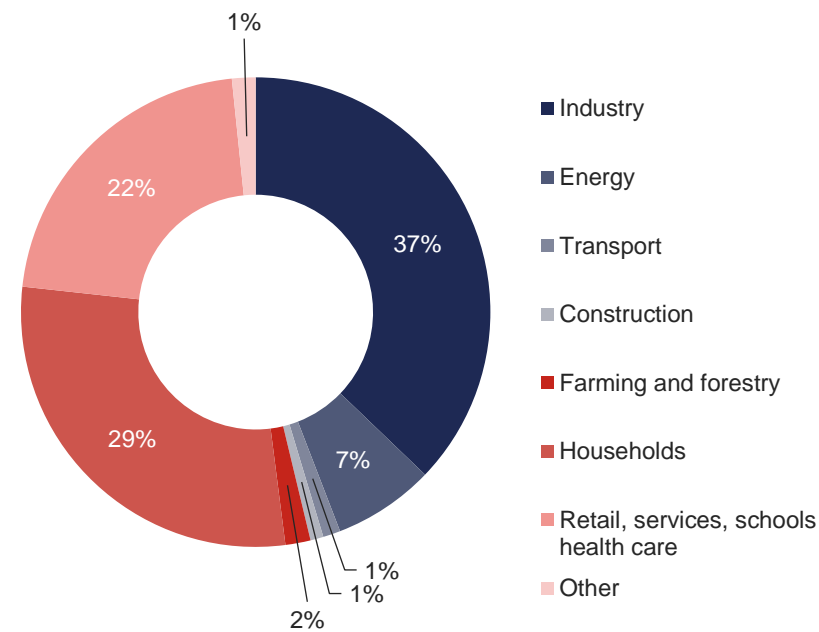
4.3 Net electricity consumption in Czech Regions by national economy sector [MWh]

	Industry	Energy	Transport	Construction	Farming and forestry	Households	Retail, services, schools, health care	Other	Total
Total Czech Republic	22,305,357.7	4,186,559.0	719,719.1	539,446.0	1,037,749.6	17,260,359.4	12,986,734.1	974,614.8	60,010,539.7
Prague	692,333.9	240,999.5	354,058.0	102,946.0	30,057.9	1,559,566.1	2,418,428.7	384,833.9	5,783,223.9
Jihočeský Region	1,053,247.8	102,320.4	18,627.6	16,606.1	98,969.4	1,331,722.8	555,764.6	76,380.5	3,253,639.2
Jihomoravský Region	2,040,262.6	277,222.4	77,995.9	56,522.5	142,110.3	1,535,796.0	1,268,128.3	55,044.5	5,453,082.4
Karlovarský Region	434,378.1	253,475.0	3,037.0	21,205.5	17,727.9	428,863.6	339,347.8	53.0	1,498,087.9
Vysočina Region	1,431,520.8	58,968.5	8,787.6	15,736.5	121,332.9	815,188.7	388,781.0	14,695.2	2,855,011.2
Královéhradecký Region	1,294,386.8	273,693.9	24,436.8	26,411.2	74,553.8	1,084,720.6	822,992.3	2,043.4	3,603,238.9
Liberecký Region	1,064,836.2	122,756.4	15,632.6	22,127.9	22,410.7	846,896.4	485,698.3	0.0	2,580,358.5
Moravskoslezský Region	3,778,545.8	1,172,179.9	54,836.2	46,314.6	46,333.6	1,528,301.1	1,326,874.4	11,761.7	7,965,147.2
Olomoucký Region	1,498,452.4	116,699.5	13,948.6	42,518.1	76,229.4	911,120.0	660,222.0	5,952.7	3,325,142.6
Pardubický Region	1,026,522.6	105,140.6	19,632.7	21,483.5	85,706.6	820,572.2	484,277.9	5,808.7	2,569,144.8
Plzeňský Region	1,086,430.1	126,129.2	30,995.9	23,080.2	76,089.2	1,007,668.2	778,934.5	511.6	3,129,838.7
Středočeský Region	2,838,798.5	389,174.1	40,991.2	82,080.0	149,191.7	3,231,639.5	1,840,587.4	3,058.9	8,575,521.3
Ústecký Region	2,802,523.0	342,216.1	41,966.3	45,876.8	40,524.1	1,200,199.7	1,170,365.5	399,143.4	6,042,815.0
Zlínský Region	1,263,119.1	605,583.5	14,772.6	16,537.2	56,512.2	958,104.6	446,331.4	15,327.3	3,376,287.9

Net electricity consumption in Czech Regions by national economy sector [GWh]



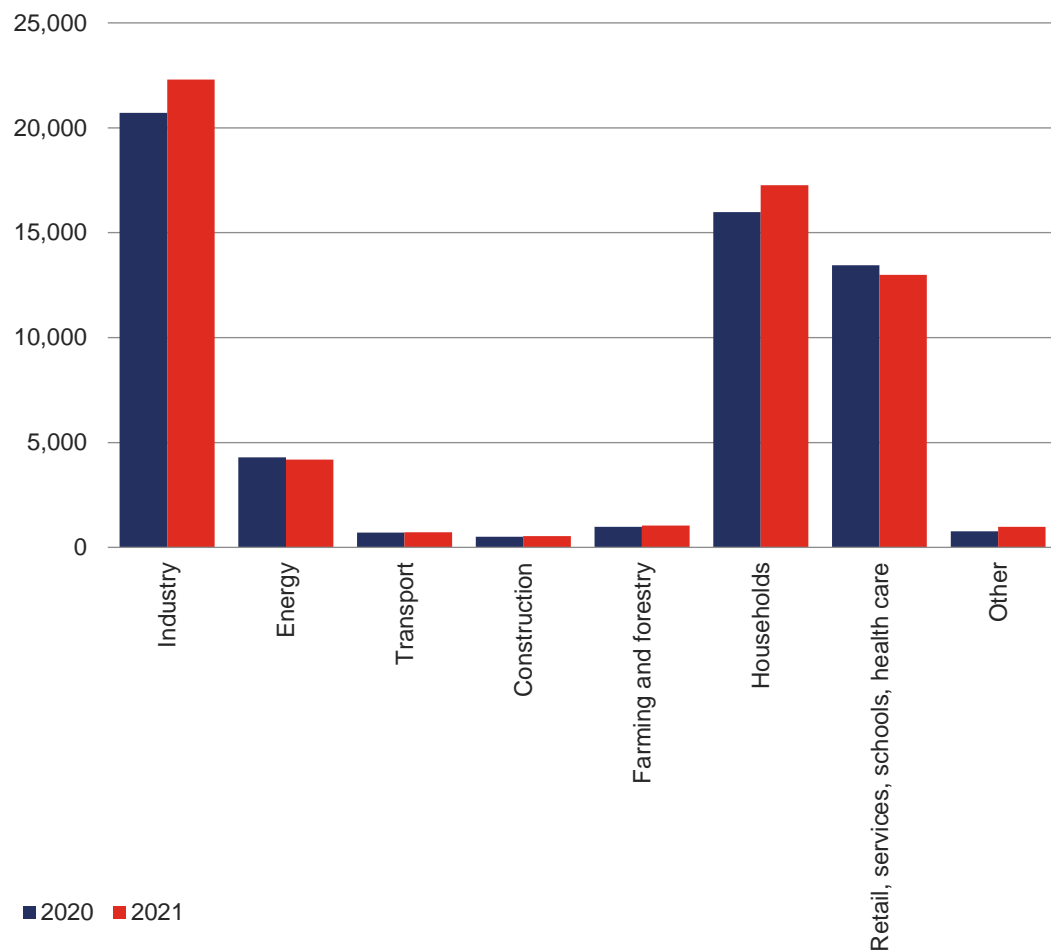
National economy sectors' shares of total electricity consumption in the Czech Republic



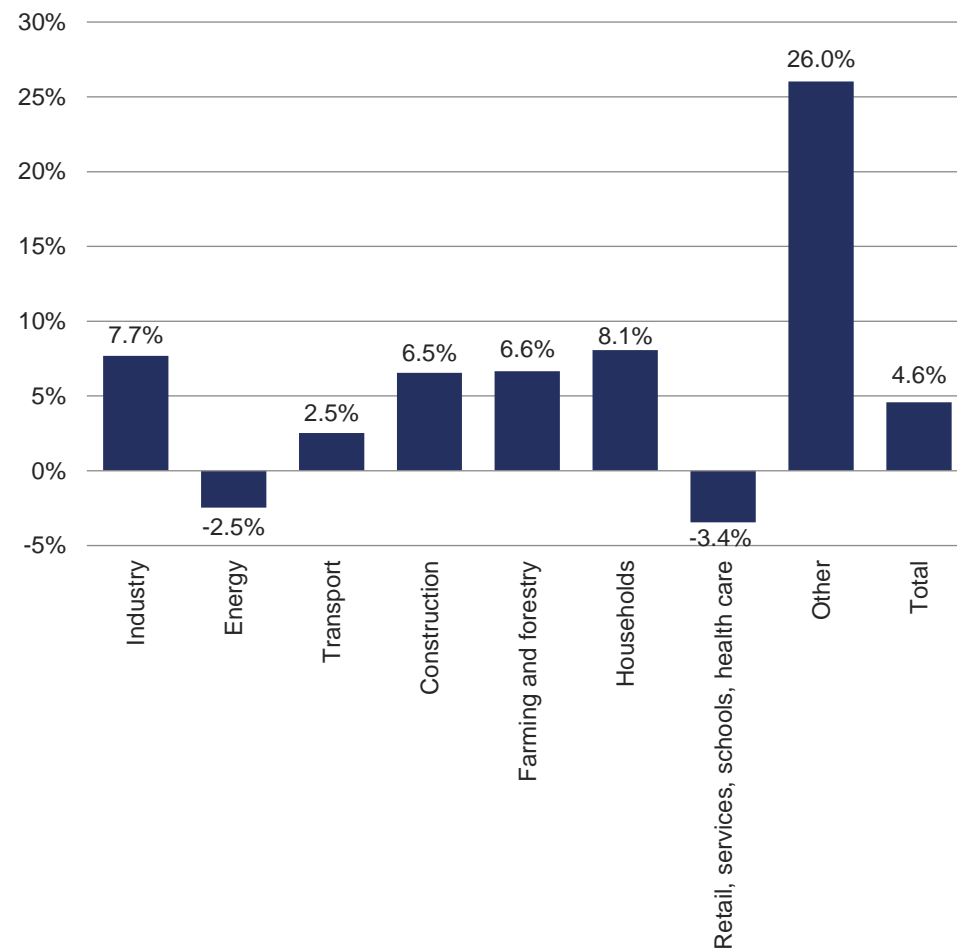
4.4 Year-on-year change in net electricity consumption by national economy sector [GWh]

	Industry	Energy	Transport	Construction	Farming and forestry	Households	Retail, services, schools, health care	Other	Total
Net electricity consumption in 2020	20,716.1	4,292.1	701.9	506.3	973.1	15,973.5	13,450.5	773.3	57,386.8
Net electricity consumption in 2021	22,305.4	4,186.6	719.7	539.4	1,037.7	17,260.4	12,986.7	974.6	60,010.5
Year-on-year change	1,589.3	-105.5	17.8	33.1	64.7	1,286.9	-463.7	201.3	2,623.8
Year-on-year change	7.7%	-2.5%	2.5%	6.5%	6.6%	8.1%	-3.4%	26.0%	4.6%

Net electricity consumption [GWh]



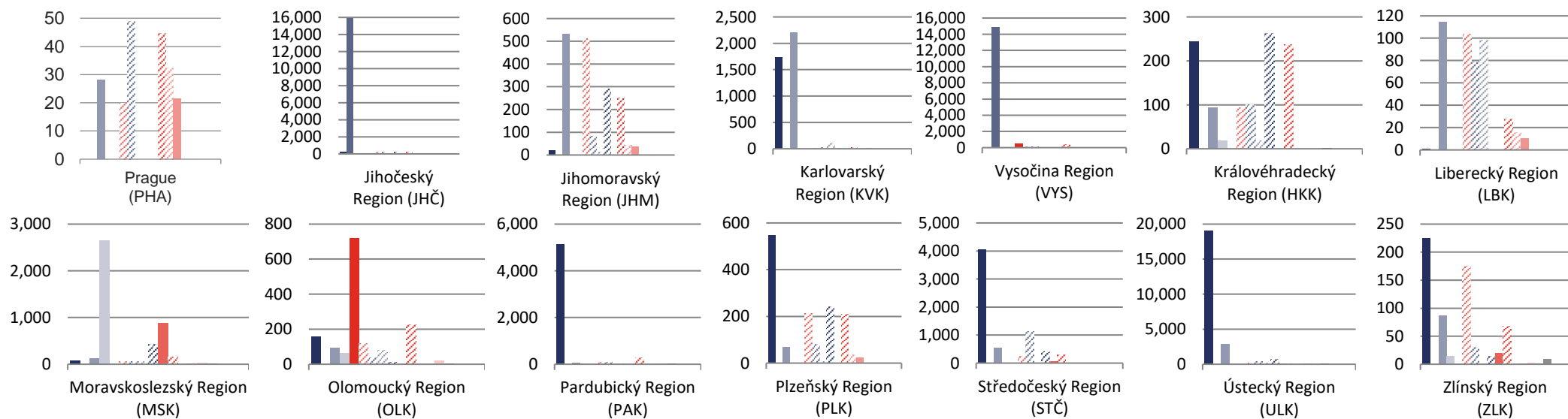
Year-on-year change [%]



4.5 Fuels and technologies in gross electricity generation in Czech Regions [GWh]

	PHA	JHČ	JHM	KVK	VYS	HKK	LBK	MSK	OLK	PAK	PLK	STČ	ULK	ZLK	Total
Gross electricity generation	195.1	17,091.0	1,786.2	4,124.3	16,124.1	1,071.8	450.6	4,532.0	1,526.8	5,700.4	1,428.3	6,763.6	23,471.1	642.1	84,907.3
■ Brown coal	0.0	186.0	20.1	1,729.9	17.9	243.2	0.9	83.2	159.0	5,134.1	547.9	4,060.3	19,000.1	224.4	31,407.1
■ Nuclear fuel	0.0	15,862.7	0.0	0.0	14,868.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30,731.2
⊘ Renewable energy sources (RES)	145.4	971.4	1,193.1	186.1	662.6	713.7	324.6	770.5	471.0	467.0	785.3	2,061.8	1,507.8	287.1	10,547.3
■ Natural gas	28.1	70.2	532.1	2,207.9	88.2	94.6	114.5	127.9	94.2	64.9	70.5	546.6	2,893.9	85.9	7,019.7
■ Hard coal	0.0	0.0	0.5	0.0	0.0	19.0	0.0	2,650.6	64.1	9.7	0.0	0.0	3.7	14.0	2,761.7
■ Pumped storage	0.0	0.0	0.0	0.0	485.2	0.0	0.0	0.0	716.6	0.0	0.1	9.5	0.0	0.0	1,211.4
■ Other gases	0.0	0.0	0.0	0.0	0.0	0.0	0.0	871.3	0.0	0.0	0.0	72.4	64.3	19.0	1,027.0
■ Other solid fuels (excluding BDMW)	21.5	0.0	37.3	0.4	0.1	0.0	10.5	2.3	0.0	0.0	24.1	0.0	0.0	0.9	97.2
■ Waste heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	20.9	21.6	0.0	1.0	0.0	1.8	70.5
■ Fuel oils	0.0	0.7	1.5	0.0	1.6	1.2	0.0	1.1	0.9	3.1	0.5	8.0	1.3	0.7	20.6
■ Other liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	8.3	12.2
■ Other	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
■ Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total RES [MWh]	145.4	971.4	1,193.1	186.1	662.6	713.7	324.6	770.5	471.0	467.0	785.3	2,061.8	1,507.8	287.1	10,547.3
⊘ Biomass	0.0	216.1	288.9	7.8	46.3	263.2	0.1	429.6	11.5	2.9	241.6	392.8	749.7	14.2	2,664.6
⊘ Biogas	44.5	256.5	251.7	31.1	419.3	237.8	27.7	154.1	224.7	284.3	210.4	300.0	83.1	67.0	2,592.1
⊘ Hydro	48.8	241.0	83.4	28.2	84.1	101.0	79.1	59.9	38.6	71.3	79.1	1,113.6	350.2	30.4	2,408.5
⊘ Photovoltaic	19.9	257.9	513.0	12.0	93.7	93.4	103.4	60.7	117.2	92.2	210.5	249.9	154.2	175.3	2,153.3
⊘ Wind	0.0	0.0	13.0	107.0	19.3	18.4	98.5	66.1	79.1	16.4	7.7	5.4	170.6	0.1	601.5
⊘ BDMW	32.3	0.0	43.2	0.0	0.0	0.0	15.8	0.0	0.0	0.0	36.0	0.0	0.0	0.0	127.3
Share of RES *)	74.5%	5.7%	66.8%	4.5%	4.1%	66.6%	72.0%	17.0%	30.8%	8.2%	55.0%	30.5%	6.4%	44.7%	12.4%

*) Gross RES electricity generation's simple percentage of total gross electricity generation



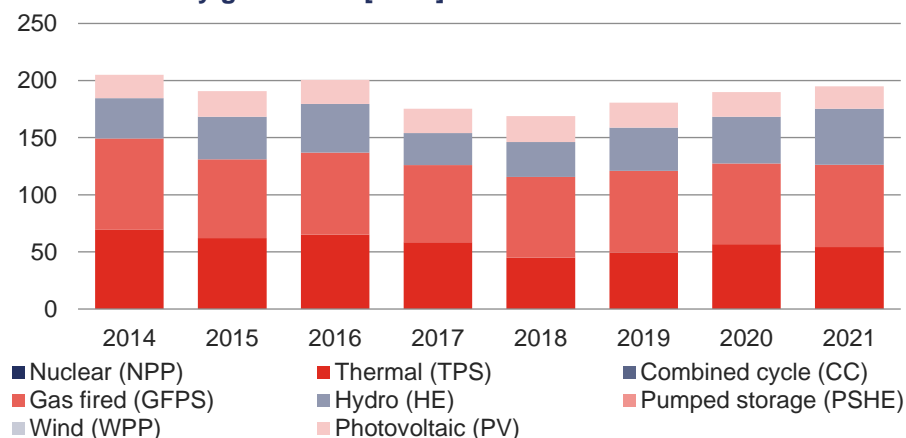
4.6 Installed capacity and electricity generation and consumption in each of the Czech Regions

4.6.1 Installed capacity, generation, and consumption: Prague

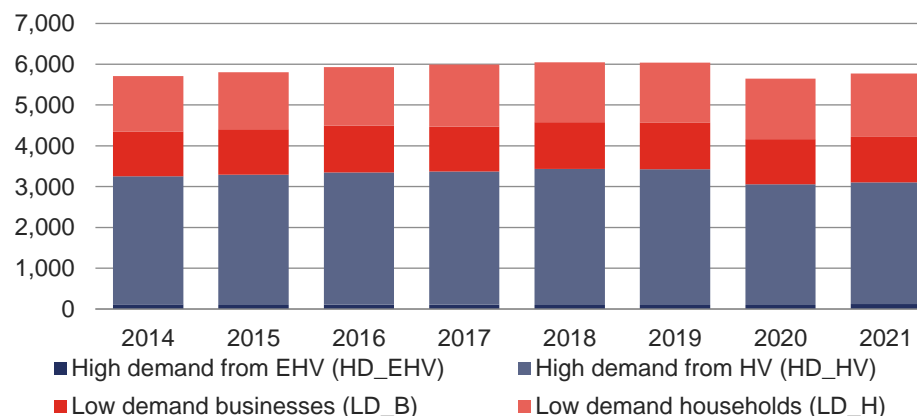


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MW_e]	200.2	200.4	200.0	200.0	200.3	200.6	200.2	200.9
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	148.1	148.1	147.9	147.9	147.9	147.9	147.9	147.9
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	17.4	17.4	18.0	18.1	18.5	18.7	19.2	20.0
Hydro (HE)	11.8	11.8	11.8	11.8	11.8	11.9	11.2	11.2
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Photovoltaic (PV)	22.9	23.0	22.2	22.1	22.0	22.0	21.9	21.7
Gross electricity generation [MWh]	205,012.8	190,669.3	200,541.3	175,355.8	168,921.9	180,542.8	189,983.6	195,075.9
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	69,807.0	61,998.8	65,251.6	58,492.1	45,068.2	49,340.3	56,735.0	54,164.7
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	79,348.4	69,053.8	71,582.1	67,533.8	70,550.5	71,751.6	70,640.9	72,248.9
Hydro (HE)	35,530.2	37,311.9	42,826.0	27,987.3	30,565.1	37,801.0	40,911.7	48,796.4
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Photovoltaic (PV)	20,327.2	22,304.8	20,881.6	21,342.6	22,738.0	21,649.9	21,696.0	19,866.0
Net electricity consumption [MWh]	5,708,569.3	5,806,893.4	5,929,511.2	5,992,438.8	6,049,969.9	6,041,476.4	5,643,829.6	5,776,062.4
High demand from EHV (HD_EHV)	117,957.9	102,510.9	104,335.7	103,935.0	101,662.1	100,775.5	98,231.0	121,407.8
High demand from HV (HD_HV)	3,133,518.0	3,188,271.9	3,245,571.1	3,266,157.7	3,328,652.5	3,327,419.8	2,956,160.8	2,980,088.5
Low demand businesses (LD_B)	1,102,000.0	1,114,661.0	1,142,440.0	1,103,400.0	1,147,500.0	1,139,400.0	1,106,000.0	1,115,000.0
Low demand households (LD_H)	1,355,093.4	1,401,449.6	1,437,164.3	1,518,946.2	1,472,155.3	1,473,881.1	1,483,437.8	1,559,566.1

Gross electricity generation [GWh]



Net electricity consumption [GWh]

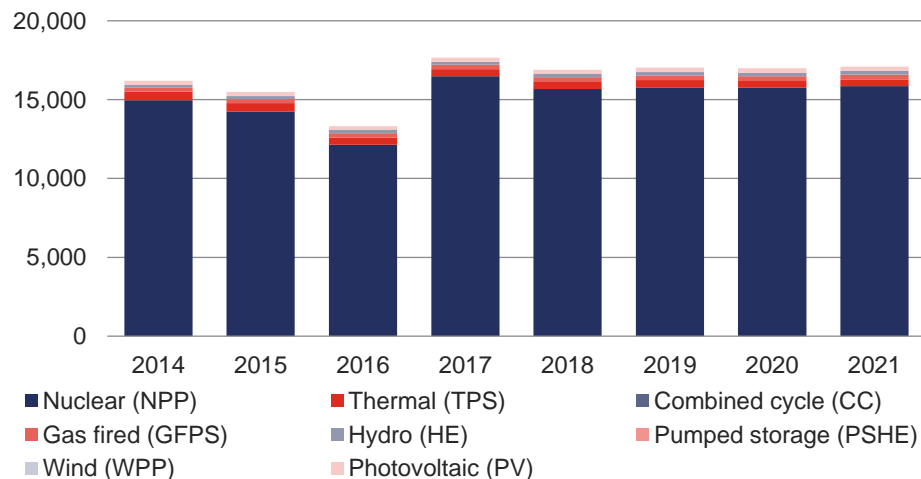


4.6.2 Installed capacity, generation, and consumption: Jihočeský Region

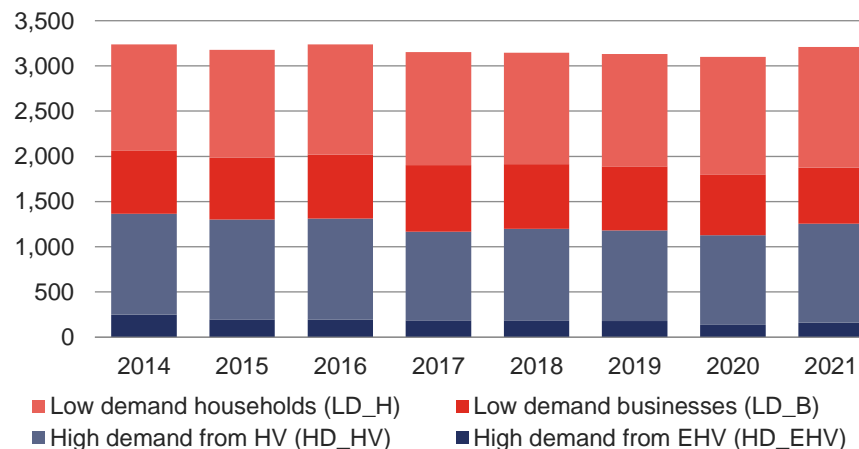


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	2,907.6	2,939.9	2,899.9	2,910.3	2,911.4	2,919.9	2,945.3	2,940.0
Nuclear (NPP)	2,250.0	2,250.0	2,250.0	2,250.0	2,250.0	2,250.0	2,250.0	2,250.0
Thermal (TPS)	205.3	235.5	194.4	194.5	194.5	200.4	223.0	215.4
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	44.8	45.9	47.4	47.0	47.3	49.5	50.5	52.9
Hydro (HE)	165.7	166.2	165.9	175.9	176.2	176.3	176.7	176.3
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Photovoltaic (PV)	241.8	242.3	242.1	242.9	243.5	243.7	245.1	245.4
Gross electricity generation [MWh]	16,191,902.2	15,498,905.2	13,318,767.5	17,664,660.9	16,893,322.2	17,030,053.1	16,983,011.5	17,091,041.1
Nuclear (NPP)	14,953,985.4	14,232,842.5	12,149,527.5	16,478,932.1	15,663,054.4	15,764,588.5	15,746,247.8	15,862,733.4
Thermal (TPS)	550,901.7	542,952.1	439,426.7	450,130.8	463,739.8	476,824.5	441,575.7	425,993.4
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	264,913.7	273,228.2	278,779.6	288,834.5	287,618.5	276,478.3	291,886.5	303,425.2
Hydro (HE)	171,281.1	185,148.4	197,514.2	180,387.7	206,746.3	240,485.7	234,795.5	240,967.2
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Photovoltaic (PV)	250,820.4	264,734.0	253,519.5	266,375.9	272,163.2	271,676.1	268,506.0	257,921.8
Net electricity consumption [MWh]	3,238,827.3	3,179,521.2	3,239,474.1	3,153,127.5	3,147,365.8	3,132,914.9	3,101,045.5	3,208,010.5
High demand from EHV (HD_EHV)	251,794.8	198,320.2	194,509.9	188,164.0	186,128.0	178,058.9	135,746.9	162,568.4
High demand from HV (HD_HV)	1,112,605.0	1,104,222.4	1,118,679.9	979,800.2	1,014,048.2	1,002,276.3	991,766.8	1,094,676.6
Low demand businesses (LD_B)	702,707.2	684,146.2	706,450.5	735,505.7	713,212.5	707,325.0	674,003.8	619,042.8
Low demand households (LD_H)	1,171,720.2	1,192,832.5	1,219,833.7	1,249,657.6	1,233,977.1	1,245,254.7	1,299,528.1	1,331,722.8

Gross electricity generation [GWh]



Net electricity consumption [GWh]

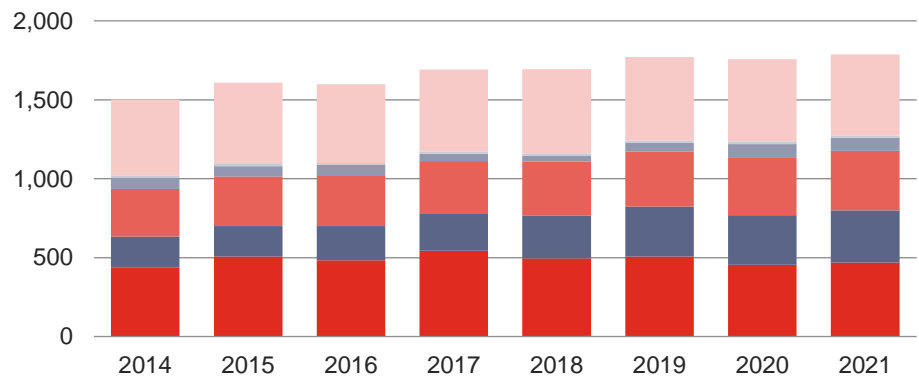


4.6.3 Installed capacity, generation, and consumption: Jihomoravský Region

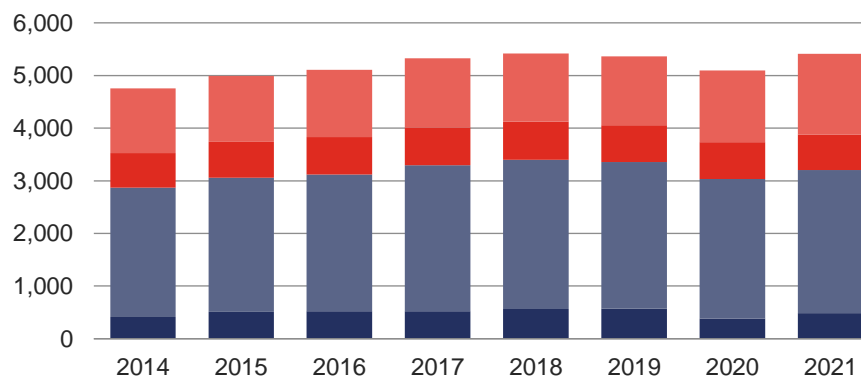


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	912.1	914.7	901.7	899.9	906.4	911.6	915.0	918.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	244.3	244.3	226.3	226.3	226.3	226.3	226.3	226.3
Combined cycle (CC)	118.0	118.0	118.5	118.5	118.5	118.5	118.5	118.5
Gas fired (GFPS)	60.5	61.4	66.1	64.5	71.8	74.4	76.8	78.5
Hydro (HE)	33.6	34.5	34.6	34.4	34.3	34.2	34.0	34.3
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Photovoltaic (PV)	447.2	448.0	447.9	447.8	447.1	449.8	451.0	452.4
Gross electricity generation [MWh]	1,502,052.1	1,609,482.1	1,598,170.5	1,691,395.4	1,694,067.0	1,769,973.7	1,756,188.6	1,786,173.4
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	435,587.9	507,321.7	483,452.8	544,474.9	495,626.3	507,412.8	455,377.8	467,877.1
Combined cycle (CC)	196,599.6	193,020.1	216,253.2	236,256.1	268,997.1	316,764.3	314,496.0	331,271.0
Gas fired (GFPS)	303,921.7	313,095.9	321,864.4	330,239.7	343,711.7	347,669.8	365,601.2	377,686.3
Hydro (HE)	68,921.5	65,353.8	65,216.1	47,367.1	37,513.6	55,455.2	83,065.4	83,397.3
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	12,556.3	13,836.9	11,988.2	14,817.8	14,207.5	14,963.8	14,185.0	12,957.8
Photovoltaic (PV)	484,465.1	516,853.7	499,395.7	518,239.8	534,010.7	527,707.9	523,463.2	512,983.9
Net electricity consumption [MWh]	4,757,727.3	4,990,959.4	5,107,835.1	5,323,765.8	5,416,420.4	5,364,891.6	5,095,107.7	5,413,802.3
High demand from EHV (HD_EHV)	414,517.5	513,265.0	520,968.7	522,944.2	563,032.8	570,897.4	382,250.0	486,627.6
High demand from HV (HD_HV)	2,453,147.8	2,547,947.0	2,597,083.2	2,770,040.6	2,835,160.5	2,783,869.5	2,654,332.0	2,718,597.4
Low demand businesses (LD_B)	660,626.5	678,159.8	709,864.5	719,569.3	723,468.2	703,532.8	694,987.0	672,813.4
Low demand households (LD_H)	1,229,435.4	1,251,587.6	1,279,918.8	1,311,211.7	1,294,758.8	1,306,591.9	1,363,538.6	1,535,763.9

Gross electricity generation [GWh]



Net electricity consumption [GWh]



■ Nuclear (NPP) ■ Thermal (TPS) ■ Combined cycle (CC)
■ Gas fired (GFPS) ■ Hydro (HE) ■ Pumped storage (PSHE)
■ Wind (WPP) ■ Photovoltaic (PV)

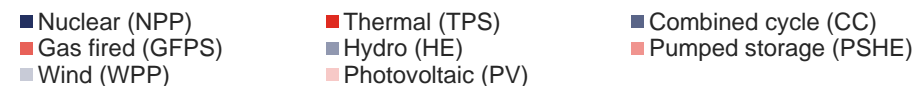
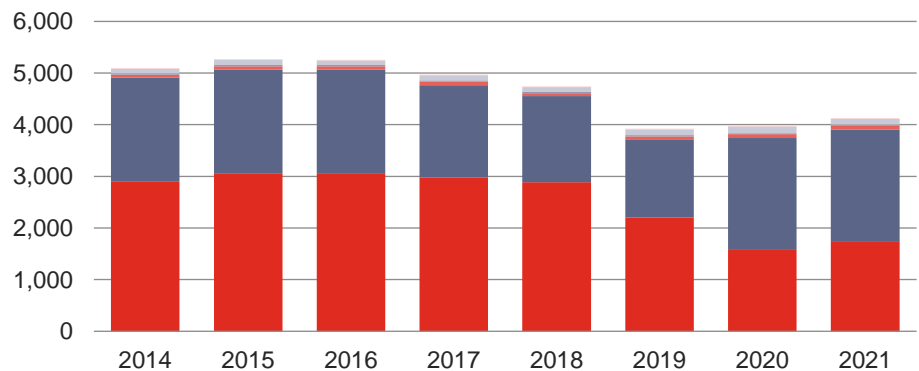
■ Low demand households (LD_H) ■ Low demand businesses (LD_B)
■ High demand from HV (HD_HV) ■ High demand from EHV (HD_EHV)

4.6.4 Installed capacity, generation, and consumption: Karlovarský Region

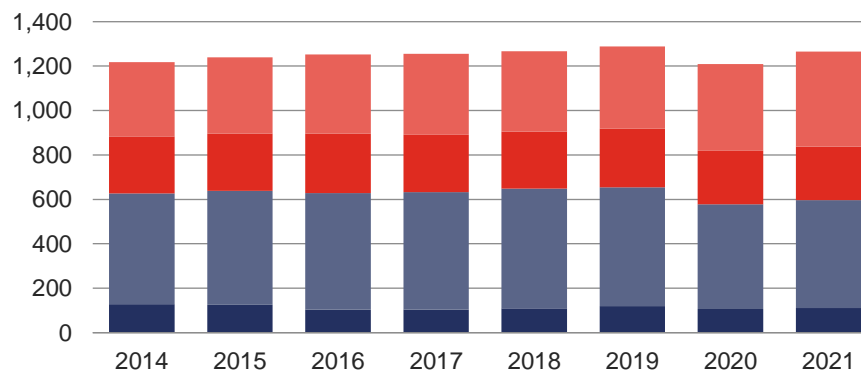


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	1,035.6	1,028.6	1,033.3	1,032.4	1,031.6	1,049.1	1,049.7	1,051.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	549.3	542.3	544.8	543.8	543.8	540.0	540.1	539.8
Combined cycle (CC)	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0
Gas fired (GFPS)	13.6	13.6	15.4	15.5	14.7	20.3	20.9	22.8
Hydro (HE)	7.5	7.5	7.9	7.9	7.9	7.9	7.9	8.0
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	52.1	52.1	52.1	52.1	52.1	67.9	67.9	67.9
Photovoltaic (PV)	13.0	13.0	13.1	13.1	13.1	12.9	12.9	12.8
Gross electricity generation [MWh]	5,092,442.9	5,269,181.5	5,255,788.4	4,970,976.3	4,743,525.0	3,924,542.8	3,979,720.8	4,124,279.2
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	2,906,639.4	3,057,949.0	3,049,740.2	2,977,613.6	2,888,610.6	2,204,148.7	1,592,270.0	1,748,013.3
Combined cycle (CC)	2,008,075.3	2,012,546.1	2,019,644.5	1,789,848.8	1,664,274.6	1,503,736.8	2,150,536.1	2,152,733.0
Gas fired (GFPS)	55,720.9	62,628.5	59,913.6	62,991.6	59,617.8	65,551.7	72,643.0	76,355.4
Hydro (HE)	21,276.9	22,076.1	25,024.0	25,729.2	20,190.8	22,868.7	20,186.6	28,159.1
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	88,662.8	101,173.3	89,135.9	102,336.6	96,999.4	114,912.4	131,006.7	107,028.4
Photovoltaic (PV)	12,067.7	12,808.6	12,330.1	12,456.5	13,831.8	13,324.5	13,078.3	11,990.0
Net electricity consumption [MWh]	1,217,332.0	1,239,901.4	1,252,395.5	1,255,039.4	1,267,657.3	1,287,991.6	1,209,036.9	1,266,043.4
High demand from EHV (HD_EHV)	128,012.6	125,674.6	103,619.1	103,417.2	109,481.6	119,057.4	106,156.7	111,214.4
High demand from HV (HD_HV)	499,654.8	513,190.6	525,219.0	529,467.9	538,517.3	534,686.8	472,116.8	484,909.7
Low demand businesses (LD_B)	256,218.2	258,358.8	267,838.4	257,506.7	257,440.0	264,547.0	239,960.1	241,099.7
Low demand households (LD_H)	333,446.4	342,677.4	355,719.0	364,647.7	362,218.4	369,700.4	390,803.3	428,819.6

Gross electricity generation [GWh]



Net electricity consumption [GWh]

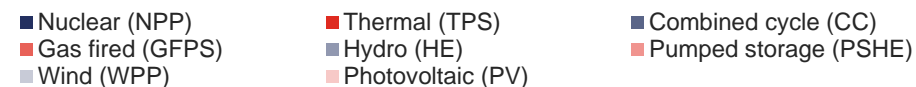
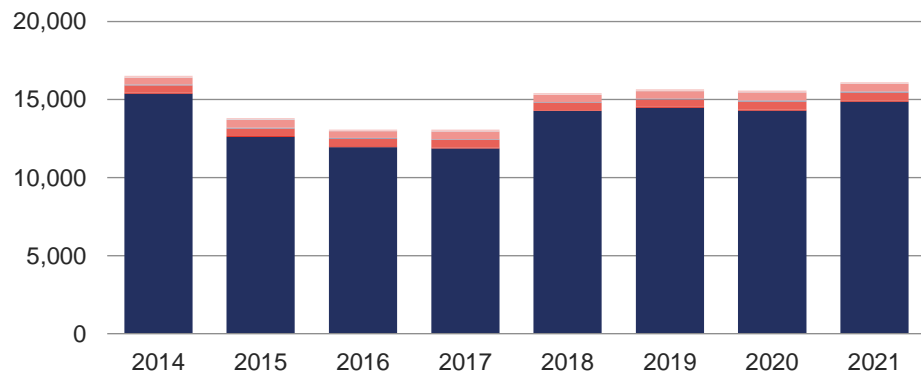


4.6.5 Installed capacity, generation, and consumption: Vysočina Region

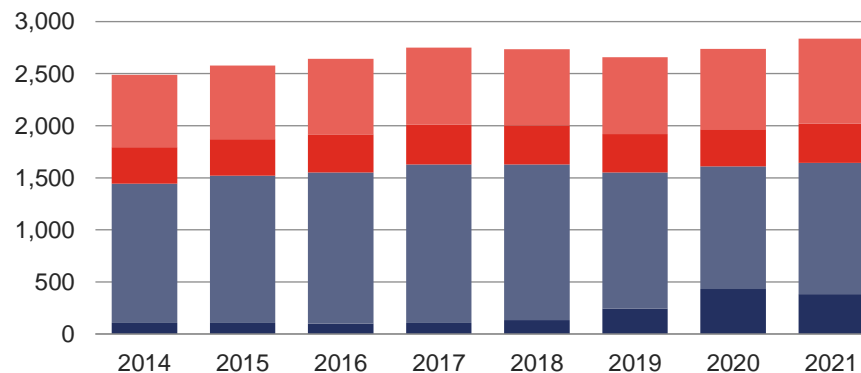


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	2,730.3	2,724.6	2,724.6	2,726.1	2,725.0	2,727.7	2,731.6	2,734.7
Nuclear (NPP)	2,040.0	2,040.0	2,040.0	2,040.0	2,040.0	2,040.0	2,040.0	2,040.0
Thermal (TPS)	21.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	76.0	75.9	75.6	77.0	77.7	78.4	82.1	84.5
Hydro (HE)	16.4	16.6	16.7	16.6	16.6	16.6	16.6	16.6
Pumped storage (PSHE)	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
Wind (WPP)	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Photovoltaic (PV)	90.7	91.0	91.1	91.3	89.6	91.5	91.9	92.4
Gross electricity generation [MWh]	16,521,988.8	13,822,650.0	13,086,234.9	13,069,934.6	15,411,393.5	15,662,512.1	15,585,410.8	16,124,091.7
Nuclear (NPP)	15,370,888.0	12,608,005.2	11,954,694.7	11,860,644.9	14,258,256.8	14,481,620.3	14,297,032.0	14,868,447.0
Thermal (TPS)	65,652.4	59,128.4	63,444.8	69,850.0	61,156.8	63,186.4	62,675.8	64,334.4
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	476,943.0	474,521.2	469,858.6	486,831.0	483,682.4	468,281.0	494,101.0	509,076.0
Hydro (HE)	54,271.6	50,916.6	51,632.4	37,703.3	33,035.0	49,932.2	89,016.8	84,109.9
Pumped storage (PSHE)	442,592.8	510,208.1	435,507.0	495,476.2	451,490.1	476,891.6	524,751.4	485,183.3
Wind (WPP)	20,652.3	22,133.1	18,929.4	23,204.5	22,253.1	23,286.0	19,879.2	19,288.0
Photovoltaic (PV)	90,988.7	97,737.6	92,168.2	96,224.7	101,519.3	99,314.6	97,954.7	93,653.1
Net electricity consumption [MWh]	2,488,805.1	2,578,597.2	2,641,917.8	2,749,356.7	2,733,692.8	2,658,468.4	2,738,113.9	2,836,197.7
High demand from EHV (HD_EHV)	105,119.7	106,679.0	101,132.2	106,241.7	133,563.1	244,651.4	432,582.0	382,981.6
High demand from HV (HD_HV)	1,337,292.5	1,412,513.9	1,450,227.4	1,522,179.7	1,493,327.1	1,307,194.1	1,175,603.6	1,259,421.4
Low demand businesses (LD_B)	351,861.6	352,020.6	366,596.8	380,530.0	374,832.4	369,698.5	359,173.0	378,631.3
Low demand households (LD_H)	694,531.2	707,383.6	723,961.5	740,405.3	731,970.3	736,924.4	770,755.3	815,163.4

Gross electricity generation [GWh]



Net electricity consumption [GWh]

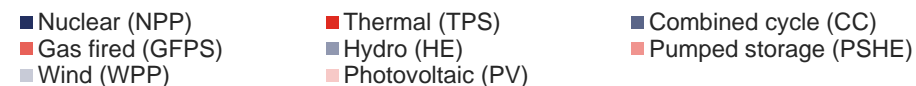
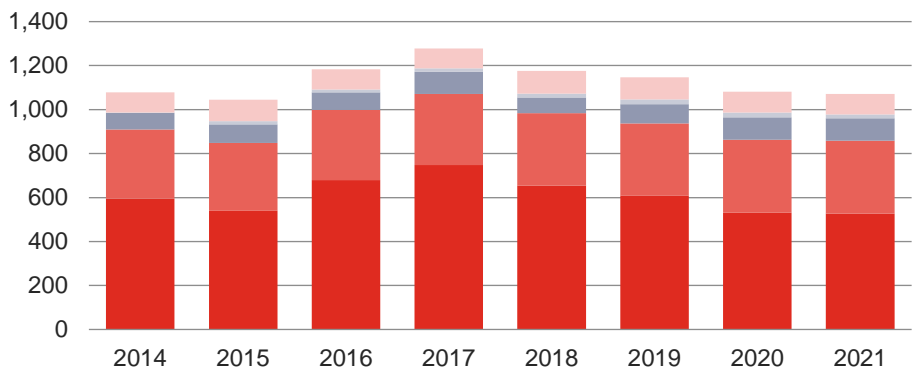


4.6.6 Installed capacity, generation, and consumption: Královéhradecký Region

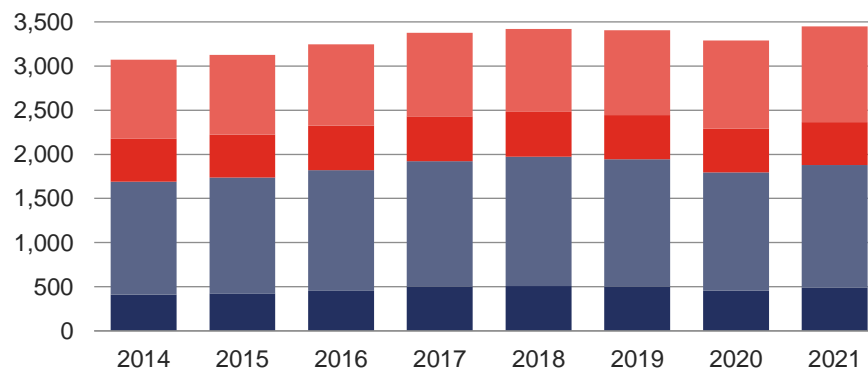


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	380.7	381.5	383.2	384.0	387.6	388.5	376.2	377.1
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	199.6	199.6	199.6	199.6	199.6	199.6	182.6	182.6
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	52.1	52.7	53.7	53.8	55.9	56.4	58.3	58.9
Hydro (HE)	29.6	29.7	30.4	30.9	30.4	30.5	30.3	30.6
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	8.0	8.0	8.0	8.0	10.0	10.2	10.2	10.2
Photovoltaic (PV)	91.4	91.4	91.5	91.6	91.6	91.8	94.8	94.8
Gross electricity generation [MWh]	1,078,607.2	1,045,057.6	1,183,365.2	1,278,001.9	1,176,547.5	1,146,059.2	1,081,336.3	1,071,752.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	595,157.4	539,989.8	679,198.4	747,234.5	653,892.4	610,186.0	531,549.7	526,040.1
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	314,637.1	308,814.3	319,466.3	323,201.1	329,368.5	326,400.5	331,718.3	332,952.7
Hydro (HE)	75,193.9	83,771.6	79,182.8	101,359.4	71,314.6	87,999.8	101,080.7	100,956.4
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	1,157.7	14,881.9	14,091.1	15,735.5	18,532.1	21,876.9	21,523.0	18,367.2
Photovoltaic (PV)	92,461.1	97,600.1	91,426.7	90,471.4	103,440.0	99,596.0	95,464.7	93,435.9
Net electricity consumption [MWh]	3,072,435.1	3,126,163.2	3,247,584.6	3,375,948.6	3,418,729.6	3,404,691.7	3,290,976.5	3,448,069.2
High demand from EHV (HD_EHV)	408,287.9	423,579.2	453,695.4	501,210.3	508,599.2	500,218.4	456,252.3	489,501.9
High demand from HV (HD_HV)	1,282,481.0	1,312,639.8	1,367,260.6	1,422,137.5	1,463,276.0	1,445,266.0	1,340,045.8	1,387,911.9
Low demand businesses (LD_B)	485,000.4	487,525.7	503,422.8	506,585.2	507,141.2	497,483.1	496,416.0	485,966.2
Low demand households (LD_H)	896,665.8	902,418.5	923,205.9	946,015.6	939,713.1	961,724.2	998,262.4	1,084,689.2

Gross electricity generation [GWh]



Net electricity consumption [GWh]

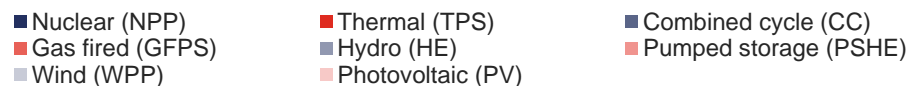
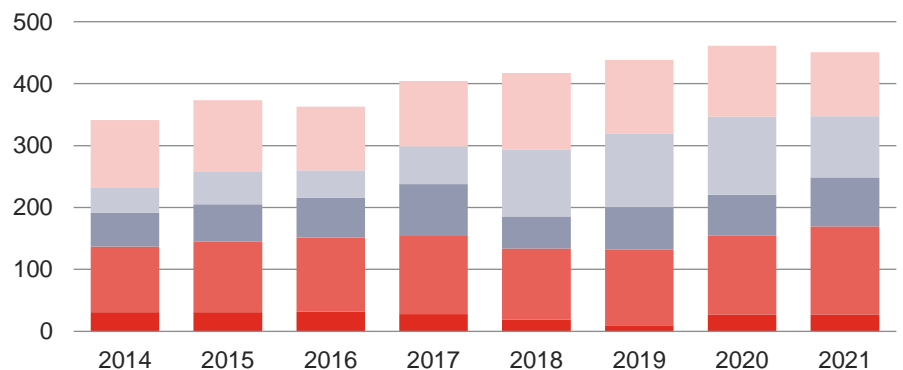


4.6.7 Installed capacity, generation, and consumption: Liberecký Region

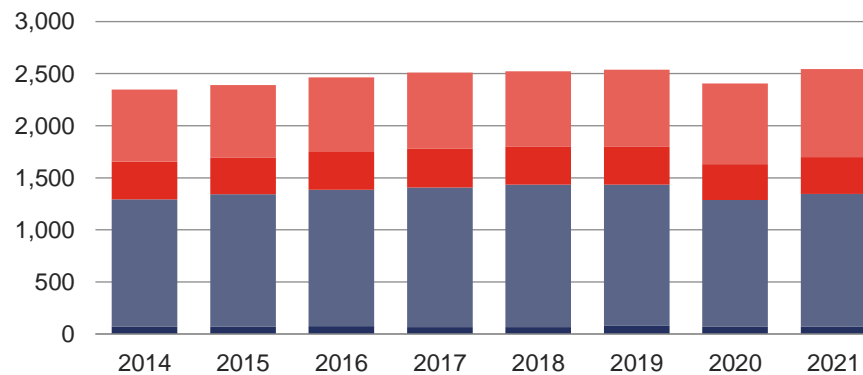


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	195.9	197.2	199.9	230.2	231.0	235.8	233.6	233.6
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	9.8	9.8	9.8	9.8	9.8	9.8	4.8	4.8
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	27.6	29.8	32.1	33.3	34.1	37.5	40.2	40.7
Hydro (HE)	25.3	25.5	26.0	26.0	26.0	26.1	26.2	26.0
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	24.0	24.0	24.0	50.1	50.1	50.1	50.1	50.1
Photovoltaic (PV)	109.2	108.0	108.0	111.0	111.0	112.2	112.3	112.0
Gross electricity generation [MWh]	341,049.3	373,143.4	363,075.4	404,443.4	416,968.0	438,256.7	460,823.4	450,566.8
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	30,760.5	30,792.7	31,937.4	27,680.7	19,153.6	9,979.0	27,487.6	27,359.1
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	106,255.8	113,994.0	119,581.1	126,191.9	114,793.9	122,262.9	127,498.1	142,245.4
Hydro (HE)	54,872.0	60,437.8	64,224.5	83,803.8	51,518.9	68,464.1	65,771.9	79,073.8
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	40,915.1	53,009.2	44,382.1	61,223.4	107,882.8	118,230.4	125,879.6	98,476.0
Photovoltaic (PV)	108,245.8	114,909.8	102,950.3	105,543.6	123,618.8	119,320.3	114,186.2	103,412.5
Net electricity consumption [MWh]	2,347,940.3	2,390,140.4	2,463,796.3	2,511,241.9	2,524,148.7	2,536,925.9	2,405,110.7	2,544,937.7
High demand from EHV (HD_EHV)	69,633.7	71,701.1	75,976.4	67,011.2	66,746.7	77,075.4	68,510.6	72,401.3
High demand from HV (HD_HV)	1,223,060.1	1,269,092.7	1,309,155.7	1,340,622.6	1,368,622.9	1,356,635.9	1,217,916.9	1,274,012.3
Low demand businesses (LD_B)	362,326.7	354,569.0	363,313.3	371,324.7	361,374.2	363,566.7	345,356.6	351,627.6
Low demand households (LD_H)	692,919.8	694,777.6	715,351.0	732,283.4	727,404.9	739,647.9	773,326.6	846,896.4

Gross electricity generation [GWh]



Net electricity consumption [GWh]

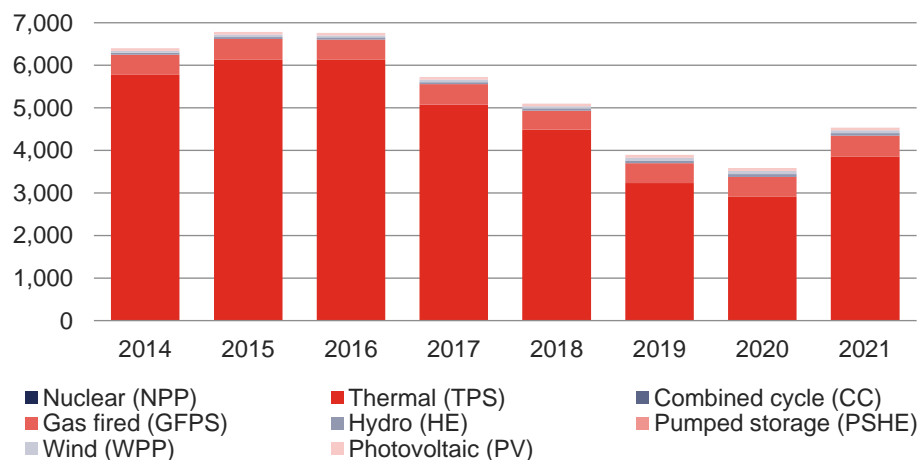


4.6.8 Installed capacity, generation, and consumption: Moravskoslezský Region

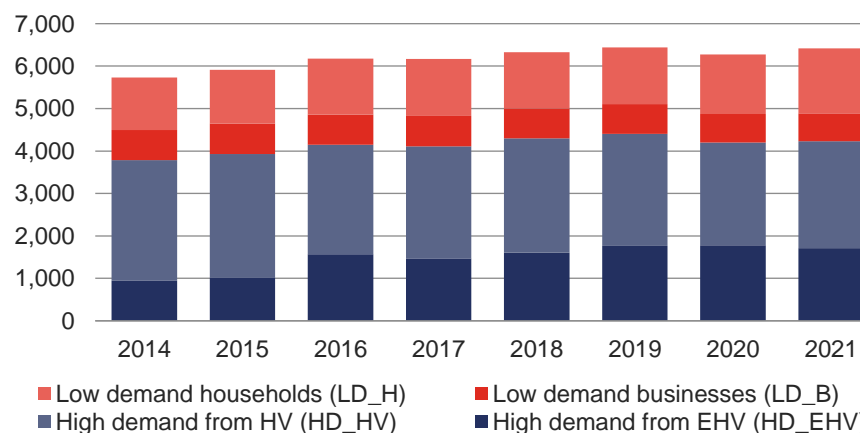


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	1,785.7	1,787.8	1,787.0	1,788.4	1,792.6	1,706.8	1,483.9	1,461.6
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	1,607.8	1,607.8	1,606.1	1,606.1	1,606.1	1,513.1	1,282.6	1,259.7
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	78.5	80.0	80.7	82.3	82.3	87.2	93.3	93.6
Hydro (HE)	16.8	17.4	17.5	17.3	17.3	17.3	17.9	17.8
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	21.8	21.8	21.8	21.8	26.2	28.4	28.4	28.4
Photovoltaic (PV)	60.8	60.8	60.9	60.8	60.7	60.8	61.7	62.1
Gross electricity generation [MWh]	6,400,192.0	6,787,120.5	6,759,537.2	5,720,796.2	5,102,666.8	3,892,360.1	3,583,907.6	4,531,961.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	5,773,513.9	6,136,524.7	6,139,308.6	5,079,772.2	4,488,402.0	3,230,374.7	2,912,739.0	3,855,423.2
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	477,188.1	478,861.4	467,600.3	479,226.3	447,867.3	466,813.9	463,454.8	489,817.8
Hydro (HE)	42,778.3	50,922.6	46,244.4	45,401.3	49,330.2	52,203.0	64,455.7	59,943.2
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	46,487.9	57,748.8	47,343.9	56,794.3	54,839.1	78,690.8	80,270.5	66,057.5
Photovoltaic (PV)	60,223.8	63,063.0	59,040.0	59,602.0	62,228.2	64,277.7	62,987.5	60,719.6
Net electricity consumption [MWh]	5,733,192.2	5,910,405.3	6,178,725.0	6,168,506.6	6,330,803.0	6,440,808.1	6,272,426.5	6,417,843.6
High demand from EHV (HD_EHV)	940,270.7	1,010,328.9	1,567,157.4	1,469,470.4	1,603,238.9	1,762,340.8	1,777,279.0	1,710,688.3
High demand from HV (HD_HV)	2,844,057.4	2,920,386.3	2,582,812.8	2,644,028.8	2,694,144.1	2,641,885.6	2,423,977.5	2,521,805.6
Low demand businesses (LD_B)	707,390.6	712,406.3	707,463.0	712,150.6	699,509.4	698,513.0	672,406.6	657,131.3
Low demand households (LD_H)	1,241,473.4	1,267,283.8	1,321,291.7	1,342,856.9	1,333,910.7	1,338,068.7	1,398,763.3	1,528,218.4

Gross electricity generation [GWh]



Net electricity consumption [GWh]

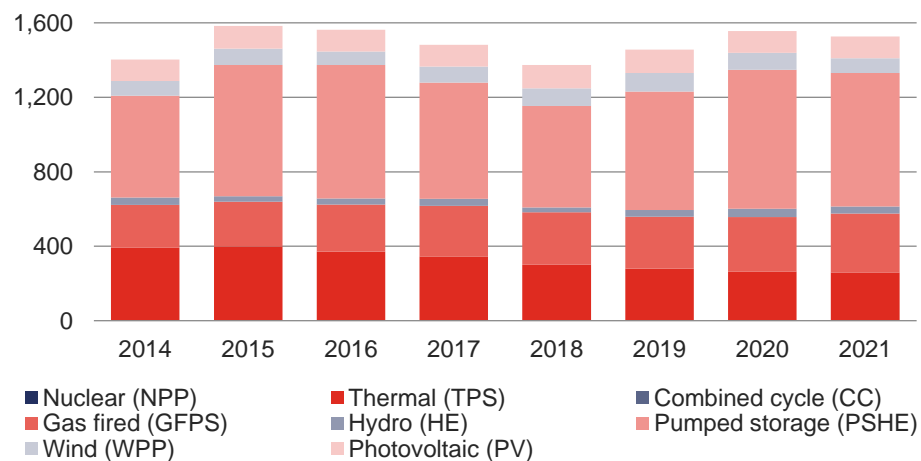


4.6.9 Installed capacity, generation, and consumption: Olomoucký Region

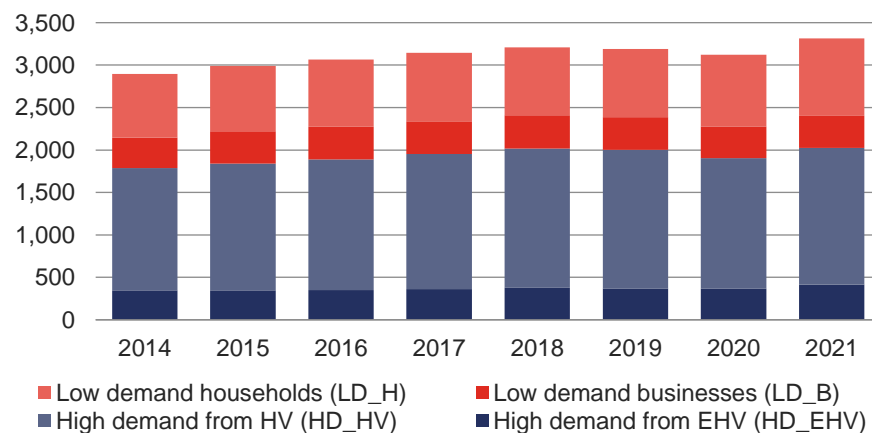


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	1,023.5	1,029.3	1,029.4	1,039.5	1,042.4	1,044.6	1,049.6	1,051.5
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	111.8	111.8	111.8	111.8	111.8	111.8	111.6	111.6
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	94.9	100.3	101.6	111.5	112.2	114.0	118.9	120.6
Hydro (HE)	12.3	12.4	12.6	12.9	12.8	13.0	13.0	12.9
Pumped storage (PSHE)	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
Wind (WPP)	43.8	43.8	43.8	43.8	45.9	45.9	45.9	45.9
Photovoltaic (PV)	110.7	110.9	109.6	109.6	109.7	109.8	110.5	110.5
Gross electricity generation [MWh]	1,402,672.7	1,582,972.0	1,562,292.7	1,481,421.1	1,373,340.5	1,455,324.1	1,555,526.7	1,526,783.4
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	393,889.1	398,226.3	371,482.0	344,290.6	299,810.2	280,118.8	264,126.5	258,312.2
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	227,501.7	240,360.9	252,860.0	272,170.9	282,248.9	278,902.9	293,160.6	317,022.5
Hydro (HE)	41,023.5	30,713.0	32,107.2	37,673.9	26,863.4	34,816.1	43,751.9	38,563.2
Pumped storage (PSHE)	545,304.3	704,373.7	716,313.5	624,513.1	543,808.1	636,942.3	746,144.9	716,630.7
Wind (WPP)	80,352.2	87,365.1	73,898.3	85,586.7	95,158.1	99,312.8	91,746.3	79,102.7
Photovoltaic (PV)	114,602.0	121,933.0	115,631.6	117,186.0	125,451.8	125,231.2	116,962.5	117,152.0
Net electricity consumption [MWh]	2,897,692.4	2,990,934.9	3,064,703.7	3,144,799.1	3,210,142.2	3,189,870.2	3,123,682.3	3,314,686.5
High demand from EHV (HD_EHV)	346,121.6	345,903.9	350,569.4	360,769.1	376,824.8	367,395.3	365,148.7	416,219.5
High demand from HV (HD_HV)	1,441,978.4	1,495,020.9	1,537,411.9	1,590,543.3	1,640,471.1	1,634,047.0	1,540,560.8	1,606,964.3
Low demand businesses (LD_B)	358,687.3	380,284.2	385,757.8	385,213.8	390,773.1	385,097.9	373,120.2	380,382.8
Low demand households (LD_H)	750,905.1	769,725.9	790,964.6	808,272.9	802,073.3	803,330.0	844,852.7	911,120.0

Gross electricity generation [GWh]



Net electricity consumption [GWh]

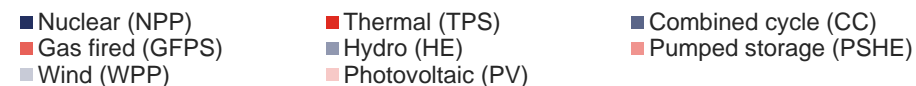
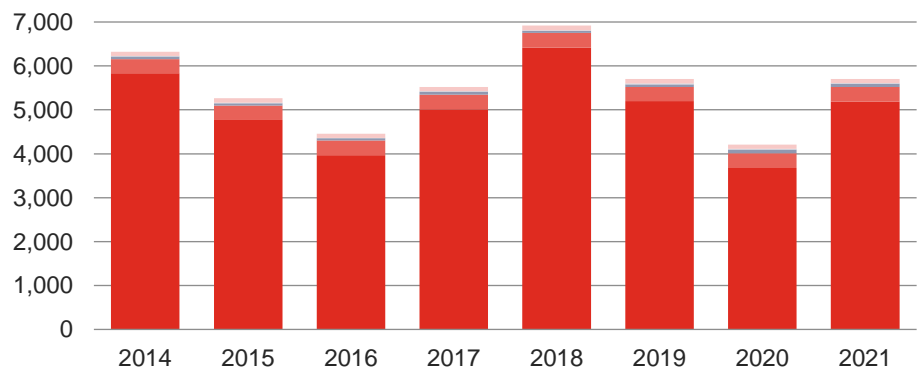


4.6.10 Installed capacity, generation, and consumption: Pardubický Region

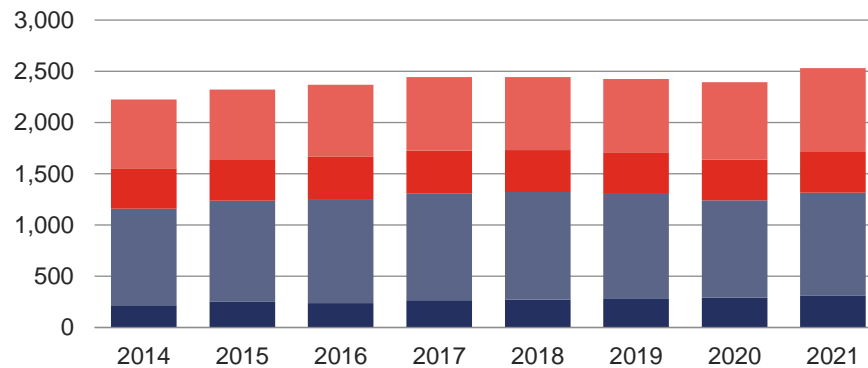


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	1,466.1	1,472.3	1,472.7	1,474.3	1,474.2	1,475.3	1,473.5	1,477.7
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	1,276.5	1,276.5	1,273.7	1,273.7	1,273.7	1,273.7	1,273.7	1,273.7
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	50.2	52.1	53.8	55.2	55.4	55.7	55.9	58.2
Hydro (HE)	28.9	29.2	29.5	29.6	29.5	29.6	29.8	29.8
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	15.3	19.3	19.3	19.2	19.2	19.2	19.2	19.2
Photovoltaic (PV)	95.2	95.3	96.5	96.5	96.4	97.0	95.1	96.7
Gross electricity generation [MWh]	6,324,917.5	5,265,895.1	4,457,738.0	5,522,969.0	6,916,330.8	5,701,315.6	4,207,856.1	5,700,448.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	5,834,774.3	4,768,562.6	3,966,995.6	5,007,226.9	6,415,419.5	5,195,982.9	3,679,188.2	5,183,439.8
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	321,934.0	325,331.6	334,157.0	340,215.6	338,846.2	325,252.6	333,902.6	337,157.1
Hydro (HE)	57,653.7	54,610.7	49,531.6	62,945.0	38,843.4	57,099.2	81,643.6	71,285.8
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	16,391.1	16,870.9	13,098.2	18,141.6	17,987.8	19,583.1	16,456.0	16,384.4
Photovoltaic (PV)	94,164.5	100,519.4	93,955.6	94,439.9	105,233.8	103,397.8	96,688.4	92,181.1
Net electricity consumption [MWh]	2,226,180.6	2,323,085.4	2,369,266.6	2,444,339.1	2,443,630.5	2,426,175.1	2,395,018.8	2,532,113.1
High demand from EHV (HD_EHV)	211,401.2	249,990.1	237,561.7	266,532.6	271,646.8	277,968.3	291,446.3	314,434.3
High demand from HV (HD_HV)	948,828.2	986,834.1	1,017,289.0	1,041,698.4	1,051,212.9	1,024,608.5	950,048.0	1,003,089.6
Low demand businesses (LD_B)	393,227.7	396,954.8	409,766.3	418,017.8	407,464.5	401,067.7	397,539.9	394,029.7
Low demand households (LD_H)	672,723.4	689,306.4	704,649.6	718,090.3	713,306.3	722,530.6	755,984.5	820,559.5

Gross electricity generation [GWh]



Net electricity consumption [GWh]

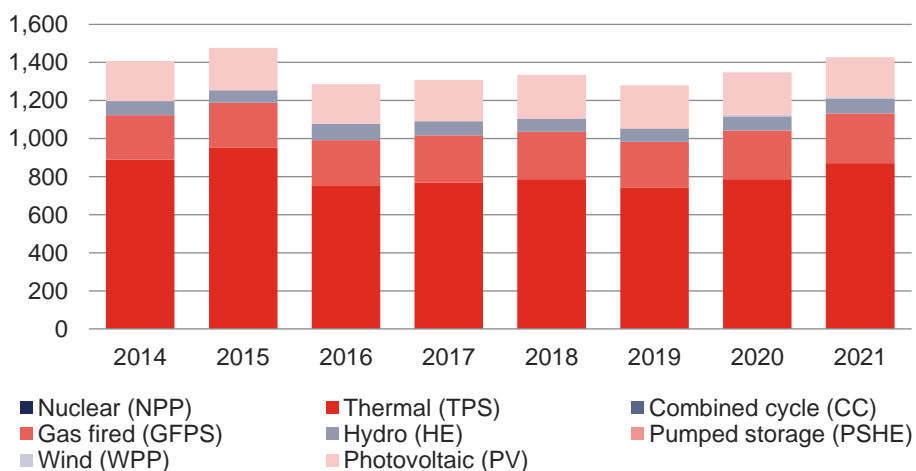


4.6.11 Installed capacity, generation, and consumption: Plzeňský Region

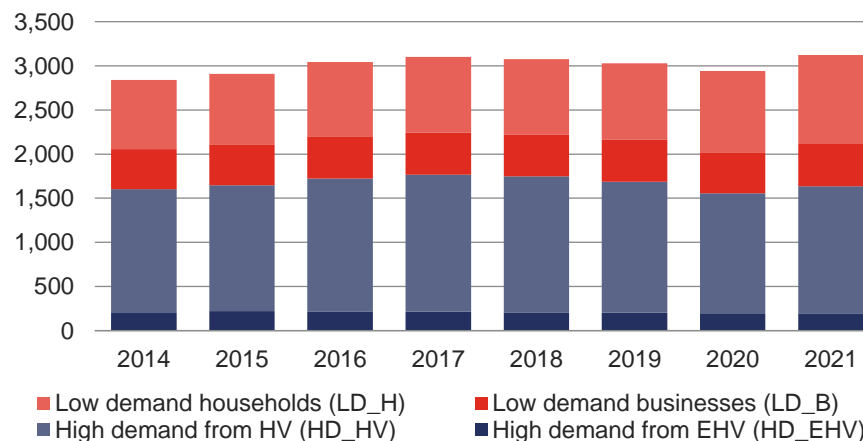


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	540.6	540.5	551.4	555.4	555.2	563.4	569.8	569.7
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	244.7	244.7	255.2	255.2	255.2	258.7	262.1	262.1
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	62.6	62.4	62.5	66.6	66.7	66.7	69.7	69.7
Hydro (HE)	19.9	19.9	20.2	20.3	20.3	20.6	20.8	20.7
Pumped storage (PSHE)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Wind (WPP)	0.8	0.8	0.8	0.8	0.8	5.3	5.3	5.3
Photovoltaic (PV)	211.1	211.1	211.1	211.0	210.7	210.6	210.9	210.4
Gross electricity generation [MWh]	1,406,715.5	1,476,370.6	1,286,817.5	1,307,699.2	1,335,556.9	1,280,148.6	1,348,014.9	1,428,262.1
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	889,124.5	950,740.1	754,965.4	767,502.3	786,013.8	740,544.6	786,484.4	870,529.1
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	233,574.9	238,126.2	236,785.6	249,651.6	250,230.0	243,340.0	255,470.9	260,351.4
Hydro (HE)	73,942.0	64,740.2	85,543.7	73,725.6	67,762.1	67,891.4	74,002.8	79,091.0
Pumped storage (PSHE)	29.7	14.7	0.0	3.4	44.4	44.1	1.6	52.0
Wind (WPP)	940.9	1,197.1	1,020.9	1,283.5	1,108.4	2,884.9	8,775.3	7,728.5
Photovoltaic (PV)	209,103.5	221,552.3	208,501.9	215,532.8	230,398.3	225,443.5	223,541.4	210,510.0
Net electricity consumption [MWh]	2,838,268.5	2,908,099.2	3,041,615.4	3,101,317.5	3,073,974.4	3,026,961.7	2,940,704.0	3,123,617.5
High demand from EHV (HD_EHV)	200,589.6	221,937.8	217,566.3	215,068.0	207,101.2	202,798.5	187,702.3	195,474.7
High demand from HV (HD_HV)	1,401,607.4	1,423,926.6	1,505,857.2	1,549,794.5	1,542,182.4	1,484,610.6	1,366,598.3	1,439,103.5
Low demand businesses (LD_B)	454,536.5	458,892.0	479,182.7	481,051.3	474,986.1	474,149.2	466,973.5	481,371.2
Low demand households (LD_H)	781,534.9	803,342.8	839,009.3	855,403.7	849,704.9	865,403.4	919,429.9	1,007,668.2

Gross electricity generation [GWh]



Net electricity consumption [GWh]

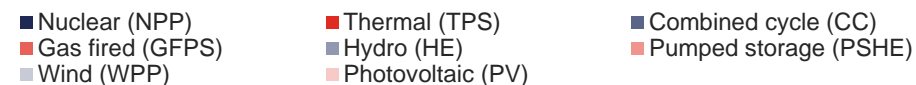
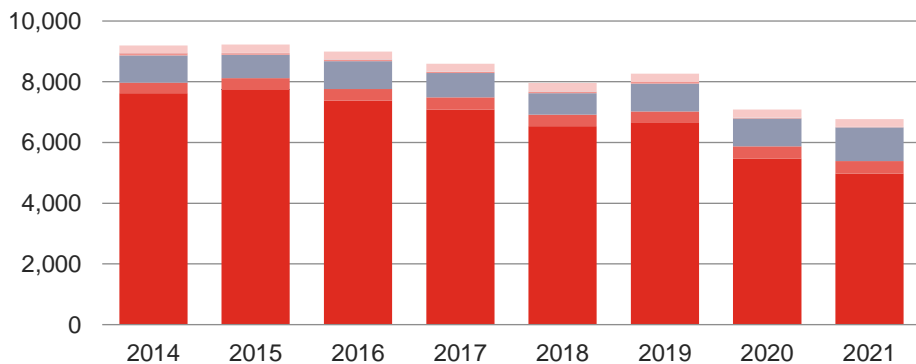


4.6.12 Installed capacity, generation, and consumption: Středočeský Region

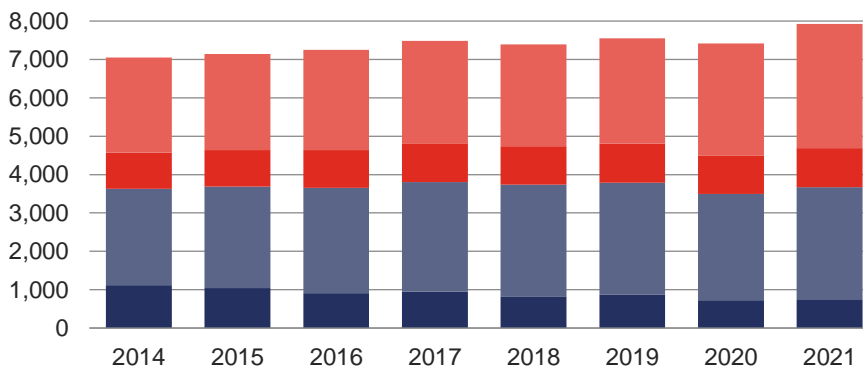


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	2,963.6	2,858.5	2,861.0	2,865.4	2,869.2	2,792.9	2,795.2	2,300.6
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	1,840.5	1,728.5	1,727.9	1,729.3	1,729.2	1,652.0	1,652.4	1,152.0
Combined cycle (CC)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	186.2	191.9	192.9	195.5	198.5	198.9	198.7	204.3
Hydro (HE)	639.9	640.4	642.7	643.3	644.1	644.1	644.3	644.5
Pumped storage (PSHE)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Wind (WPP)	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0
Photovoltaic (PV)	246.0	246.4	246.4	246.3	246.4	246.9	249.8	248.8
Gross electricity generation [MWh]	9,193,183.3	9,221,867.4	8,991,594.6	8,596,927.8	7,963,477.9	8,264,101.6	7,080,988.6	6,763,559.2
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	7,620,094.3	7,729,599.7	7,376,695.1	7,089,736.4	6,532,080.7	6,639,966.4	5,476,158.0	4,972,673.0
Combined cycle (CC)	0.0	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	350,015.9	383,064.1	384,513.4	391,018.6	384,735.4	379,650.9	393,574.8	412,437.1
Hydro (HE)	901,975.4	769,186.0	921,078.4	802,150.1	704,690.0	915,305.9	916,339.1	1,113,578.7
Pumped storage (PSHE)	63,599.5	61,365.4	49,727.1	50,462.4	55,245.7	52,779.2	22,180.7	9,538.4
Wind (WPP)	7,194.8	9,958.8	8,787.0	7,631.0	6,925.8	9,000.7	8,316.6	5,400.4
Photovoltaic (PV)	250,303.4	267,593.4	250,793.6	255,929.3	279,800.2	267,398.5	264,616.0	249,931.5
Net electricity consumption [MWh]	7,053,266.0	7,139,474.5	7,246,760.5	7,485,480.1	7,394,982.2	7,547,341.9	7,415,126.3	7,923,082.9
High demand from EHV (HD_EHV)	1,120,507.8	1,045,917.5	908,159.9	951,774.1	829,001.0	873,955.4	728,104.6	753,679.1
High demand from HV (HD_HV)	2,505,743.8	2,638,037.5	2,748,302.9	2,853,905.5	2,907,807.7	2,914,841.2	2,767,095.1	2,914,145.0
Low demand businesses (LD_B)	944,556.0	952,841.8	986,169.5	1,006,237.8	1,002,422.4	1,016,437.5	995,654.1	1,023,794.7
Low demand households (LD_H)	2,482,458.3	2,502,677.8	2,604,128.1	2,673,562.6	2,655,751.1	2,742,107.8	2,924,272.5	3,231,464.0

Gross electricity generation [GWh]



Net electricity consumption [GWh]

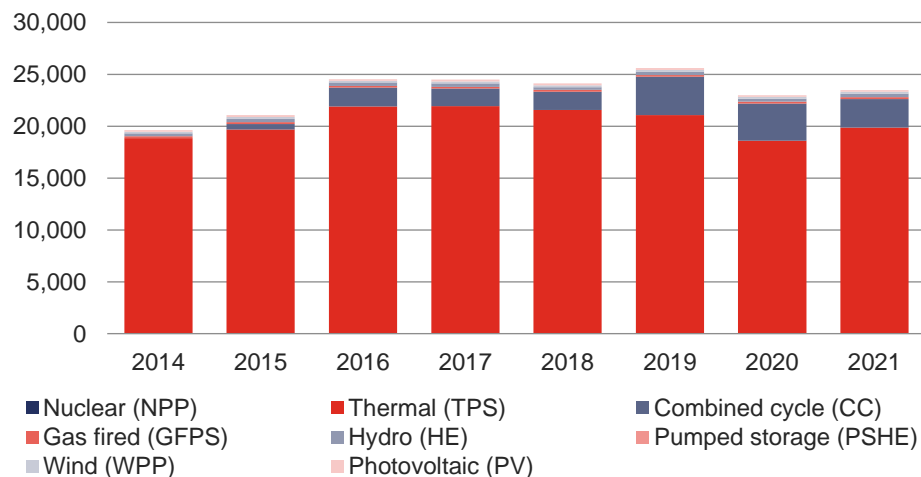


4.6.13 Installed capacity, generation, and consumption: Ústecký Region

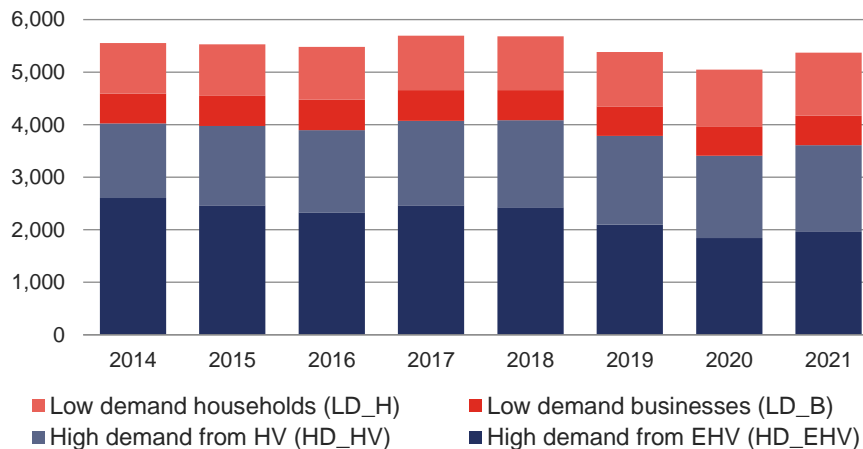


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	5,465.5	5,467.1	5,622.9	5,854.2	5,841.2	5,660.7	5,220.5	5,222.3
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	4,239.0	4,239.0	4,394.2	4,624.6	4,624.6	4,443.4	4,003.4	4,003.4
Combined cycle (CC)	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0
Gas fired (GFPS)	41.7	42.9	45.2	45.2	45.0	45.8	45.4	45.5
Hydro (HE)	76.4	76.6	76.6	77.5	77.5	77.3	77.3	77.3
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
Photovoltaic (PV)	176.6	176.8	175.1	175.2	162.3	162.3	163.1	164.3
Gross electricity generation [MWh]	19,632,527.3	21,061,879.9	24,540,611.3	24,480,761.7	24,119,860.8	25,597,948.9	22,997,108.0	23,471,148.1
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	18,861,750.8	19,674,244.7	21,905,730.3	21,921,342.0	21,568,656.3	21,074,791.7	18,610,790.0	19,861,670.8
Combined cycle (CC)	0.0	542,356.9	1,813,346.0	1,696,300.5	1,757,600.2	3,698,019.6	3,576,235.5	2,755,838.1
Gas fired (GFPS)	164,158.5	170,651.6	172,053.7	175,172.9	169,431.9	168,406.9	171,688.6	178,587.2
Hydro (HE)	281,427.9	296,550.4	316,074.5	316,823.6	269,002.6	292,685.3	297,049.6	350,246.9
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	161,020.9	194,182.7	174,037.6	204,000.5	173,288.7	197,132.8	180,895.7	170,623.3
Photovoltaic (PV)	164,169.2	183,893.7	159,369.2	167,122.2	181,881.3	166,912.6	160,626.9	154,181.8
Net electricity consumption [MWh]	5,554,881.4	5,528,705.9	5,480,887.5	5,690,941.2	5,681,425.6	5,383,423.0	5,050,417.6	5,367,878.1
High demand from EHV (HD_EHV)	2,602,059.9	2,461,991.2	2,327,544.3	2,465,448.9	2,425,247.9	2,096,433.8	1,839,912.5	1,955,214.2
High demand from HV (HD_HV)	1,418,703.1	1,514,404.7	1,567,849.9	1,607,457.9	1,660,236.1	1,687,685.4	1,570,030.2	1,657,053.7
Low demand businesses (LD_B)	570,301.4	570,867.7	579,928.2	585,719.6	570,504.3	565,061.0	549,720.0	555,410.5
Low demand households (LD_H)	963,817.0	981,442.2	1,005,565.2	1,032,314.8	1,025,437.4	1,034,242.8	1,090,755.0	1,200,199.7

Gross electricity generation [GWh]



Net electricity consumption [GWh]

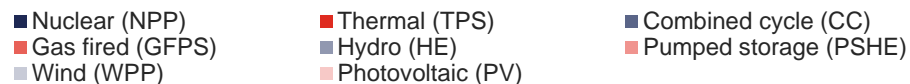
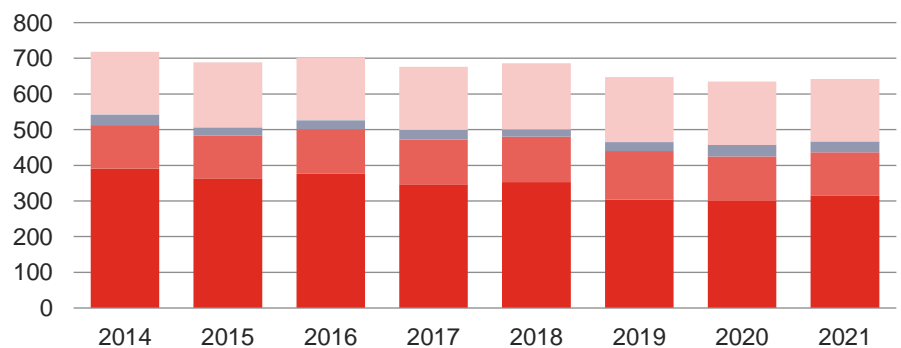


4.6.14 Installed capacity, generation, and consumption: Zlínský Region

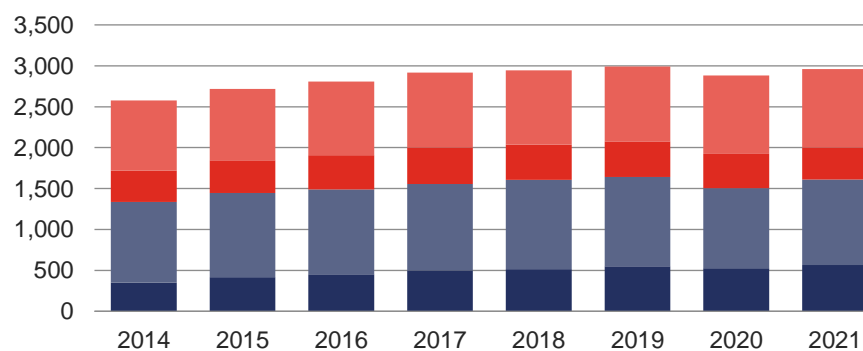


	2014	2015	2016	2017	2018	2019	2020	2021
Installed capacity [MWe]	333.6	335.1	339.9	333.1	333.8	336.1	329.8	332.8
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	138.8	138.7	142.9	137.6	137.6	137.7	132.5	132.5
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	27.7	29.1	29.1	30.4	31.1	34.1	32.4	33.4
Hydro (HE)	7.0	7.0	7.7	7.7	7.7	7.7	7.6	7.5
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Photovoltaic (PV)	159.8	160.0	160.1	157.1	157.2	156.3	157.4	159.1
Gross electricity generation [MWh]	718,244.4	688,394.6	700,916.3	675,685.1	686,010.7	647,364.3	634,424.4	642,135.9
Nuclear (NPP)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thermal (TPS)	391,010.0	361,800.7	376,441.6	346,333.3	353,124.4	303,834.3	300,426.8	314,010.4
Combined cycle (CC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas fired (GFPS)	122,148.5	121,080.8	124,866.3	126,410.2	127,710.1	135,934.0	124,740.9	122,313.3
Hydro (HE)	29,612.8	23,646.8	25,284.0	26,472.6	20,139.3	25,644.0	32,028.8	30,351.5
Pumped storage (PSHE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind (WPP)	212.6	253.8	247.8	282.9	147.0	159.4	149.5	119.6
Photovoltaic (PV)	175,260.4	181,612.6	174,076.7	176,186.2	184,889.8	181,792.7	177,218.1	175,341.0
Net electricity consumption [MWh]	2,576,687.4	2,719,166.7	2,805,783.3	2,917,547.3	2,945,033.6	2,992,587.9	2,881,903.1	2,959,575.0
High demand from EHV (HD_EHV)	349,793.9	418,592.2	453,597.8	499,786.5	515,571.3	550,102.7	528,541.1	563,849.8
High demand from HV (HD_HV)	984,796.9	1,027,574.6	1,034,695.3	1,053,925.8	1,088,962.6	1,091,420.6	976,475.4	1,045,219.8
Low demand businesses (LD_B)	384,211.6	398,008.2	419,137.8	446,233.5	433,345.7	433,638.5	418,116.3	392,400.9
Low demand households (LD_H)	857,885.1	874,991.7	898,352.4	917,601.5	907,154.1	917,426.1	958,770.3	958,104.6

Gross electricity generation [GWh]



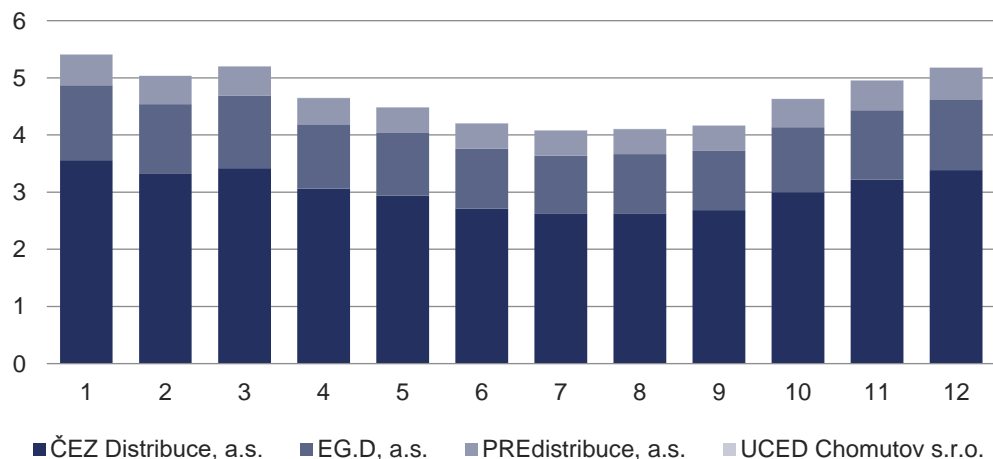
Net electricity consumption [GWh]



4.7 Net electricity consumption in each RDS [MWh]

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total RDS	5,410,153.6	5,039,130.3	5,206,467.8	4,649,367.8	4,485,854.8	4,208,887.9	4,081,453.9	4,104,852.1	4,169,435.0	4,631,730.0	4,960,572.6	5,184,014.0	56,131,919.9
■ HD_C from EHV	634,002.0	594,434.8	680,570.1	641,933.9	689,264.1	665,306.0	644,700.6	637,657.8	632,652.5	654,319.1	649,934.2	611,487.6	7,736,262.8
■ HD_C from HV	2,001,087.9	1,909,965.9	2,069,814.7	1,890,125.2	1,934,800.6	1,998,037.0	1,881,919.7	1,876,587.9	1,923,846.0	1,970,898.7	2,050,098.1	1,879,817.6	23,386,999.3
■ LD_B	814,383.3	754,965.5	727,550.4	625,884.1	586,920.8	518,132.8	525,536.1	542,631.6	544,131.4	635,356.8	701,659.7	771,549.5	7,748,702.0
■ LD_H	1,960,680.5	1,779,764.1	1,728,532.5	1,491,424.6	1,274,869.4	1,027,412.0	1,029,297.5	1,047,974.7	1,068,805.1	1,371,155.4	1,558,880.6	1,921,159.3	17,259,955.8
ČEZ Distribuce, a.s.	3,559,911.5	3,317,573.9	3,418,918.3	3,061,561.6	2,935,432.6	2,713,160.1	2,630,631.1	2,630,685.2	2,683,199.1	2,998,494.4	3,217,541.4	3,384,293.9	36,551,403.1
■ HD_C from EHV	523,852.8	488,112.5	552,153.6	517,438.9	549,885.1	527,045.1	521,401.6	499,805.0	492,937.9	521,681.8	521,821.6	504,806.7	6,220,942.5
■ HD_C from HV	1,239,882.6	1,184,790.4	1,292,992.6	1,178,824.0	1,198,989.2	1,225,134.7	1,139,019.5	1,134,006.0	1,177,986.7	1,203,185.5	1,257,861.7	1,140,865.8	14,373,538.7
■ LD_B	495,786.6	455,750.1	443,589.5	383,771.5	352,991.2	318,267.9	311,404.0	322,347.9	327,570.5	382,683.1	423,331.3	461,574.4	4,679,068.0
■ LD_H	1,300,389.5	1,188,921.0	1,130,182.6	981,527.2	833,567.2	642,712.4	658,806.0	674,526.3	684,704.0	890,944.0	1,014,526.7	1,277,046.9	11,277,853.8
EG.D, a.s.	1,311,788.9	1,221,404.3	1,272,219.4	1,125,833.0	1,097,689.2	1,044,914.9	1,009,343.0	1,034,502.1	1,040,545.6	1,138,361.4	1,213,178.2	1,240,734.7	13,750,514.8
■ HD_C from EHV	105,208.3	99,962.5	118,497.3	115,142.2	128,509.6	128,450.3	112,889.2	127,573.1	129,545.3	120,807.3	115,155.0	92,172.5	1,393,912.5
■ HD_C from HV	505,767.4	487,848.7	527,693.9	481,184.7	497,341.4	513,045.1	484,447.0	488,233.2	494,930.2	505,947.8	525,472.5	468,449.5	5,980,361.3
■ LD_B	196,207.3	191,831.5	168,575.8	153,734.8	154,555.6	127,197.4	142,468.5	145,620.0	137,891.8	157,990.7	176,139.3	201,492.2	1,953,705.0
■ LD_H	504,605.9	441,761.7	457,452.5	375,771.3	317,282.6	276,222.1	269,538.2	273,075.8	278,178.3	353,615.7	396,411.5	478,620.5	4,422,535.9
PREdistribuce, a.s.	534,334.2	495,800.3	510,792.6	457,999.0	447,681.1	445,899.3	437,799.6	435,547.8	441,080.3	489,977.5	524,922.1	554,228.6	5,776,062.4
■ HD_C from EHV	4,940.8	6,359.9	9,919.2	9,352.9	10,869.4	9,810.7	10,409.8	10,279.8	10,169.3	11,830.1	12,957.6	14,508.4	121,407.8
■ HD_C from HV	251,408.2	233,058.9	244,675.8	226,220.1	233,492.1	255,011.1	254,836.4	250,295.5	246,388.2	256,951.7	261,922.1	265,828.3	2,980,088.5
■ LD_B	122,300.0	107,300.0	115,300.0	88,300.0	79,300.0	72,600.0	71,600.0	74,600.0	78,600.0	94,600.0	102,100.0	108,400.0	1,115,000.0
■ LD_H	155,685.2	149,081.4	140,897.5	134,126.0	124,019.6	108,477.6	100,953.4	100,372.6	105,922.8	126,595.7	147,942.4	165,491.9	1,559,566.1
UCED Chomutov s.r.o.	4,119.1	4,351.8	4,537.5	3,974.1	5,051.9	4,913.6	3,680.2	4,117.0	4,609.9	4,896.7	4,930.9	4,756.9	53,939.7
■ HD_C from EHV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
■ HD_C from HV	4,029.7	4,268.0	4,452.4	3,896.4	4,977.8	4,846.1	3,616.7	4,053.3	4,540.9	4,813.7	4,841.8	4,674.0	53,010.8
■ LD_B	89.4	83.9	85.1	77.8	74.0	67.5	63.5	63.7	69.0	83.0	89.1	82.9	928.9
■ LD_H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

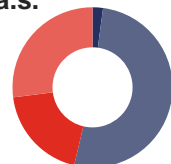
Total net electricity consumption in each RDS [TWh]



Structure of total consumption ČEZ Distribuce, a.s.



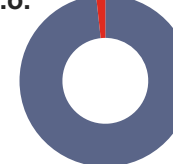
Structure of total consumption PREdistribuce, a.s.



Structure of total consumption EG.D, a.s.



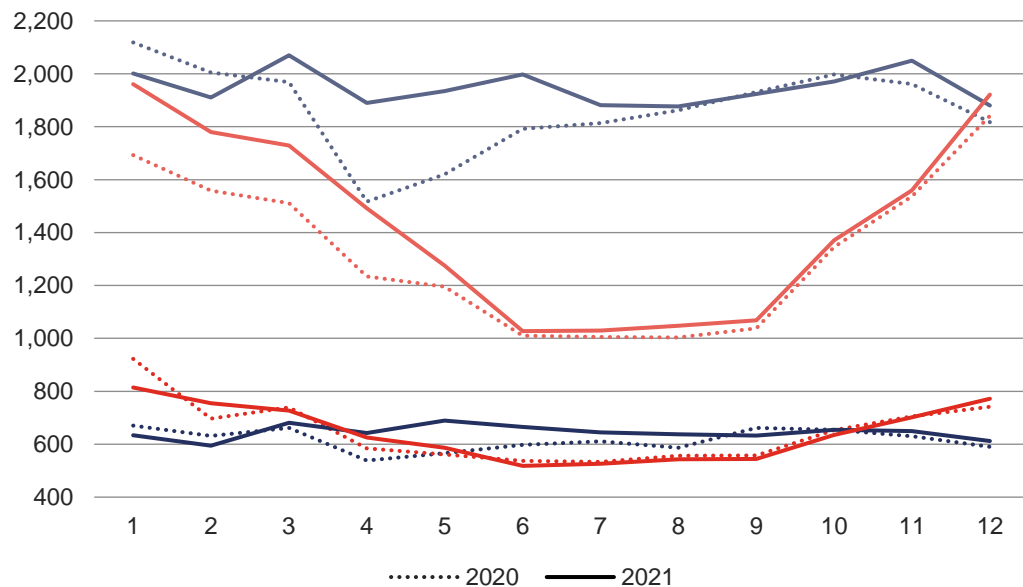
Structure of total consumption UCED Chomutov s.r.o.



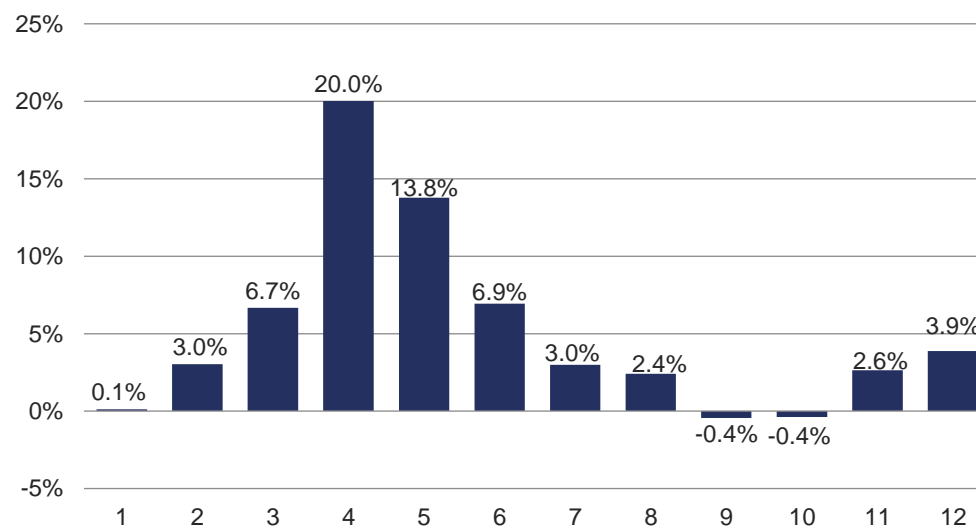
4.8 Year-on-year change in net electricity consumption in regional distribution systems [GWh]

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Total in 2020	5,404.2	4,891.2	4,881.2	3,873.7	3,943.1	3,935.8	3,963.1	4,008.6	4,188.3	4,649.8	4,833.2	4,990.4	53,562.5
■ HD_C from EHV in 2020	670.3	631.7	661.8	538.3	565.9	597.0	610.6	586.9	661.3	653.8	630.3	589.9	7,397.9
■ HD_C from HV in 2020	2,118.5	2,004.5	1,968.3	1,516.9	1,620.1	1,791.5	1,813.4	1,862.4	1,931.5	1,997.1	1,960.7	1,817.8	22,402.7
■ LD_B in 2020	922.5	696.7	739.6	584.8	561.4	537.1	533.3	555.9	557.1	653.6	705.5	741.8	7,789.4
■ LD_H in 2020	1,692.8	1,558.3	1,511.4	1,233.7	1,195.7	1,010.1	1,005.8	1,003.3	1,038.4	1,345.3	1,536.7	1,840.9	15,972.5
Total in 2021	5,410.2	5,039.1	5,206.5	4,649.4	4,485.9	4,208.9	4,081.5	4,104.9	4,169.4	4,631.7	4,960.6	5,184.0	56,131.9
■ HD_C from EHV in 2021	634.0	594.4	680.6	641.9	689.3	665.3	644.7	637.7	632.7	654.3	649.9	611.5	7,736.3
■ HD_C from HV in 2021	2,001.1	1,910.0	2,069.8	1,890.1	1,934.8	1,998.0	1,881.9	1,876.6	1,923.8	1,970.9	2,050.1	1,879.8	23,387.0
■ LD_B in 2021	814.4	755.0	727.6	625.9	586.9	518.1	525.5	542.6	544.1	635.4	701.7	771.5	7,748.7
■ LD_H in 2021	1,960.7	1,779.8	1,728.5	1,491.4	1,274.9	1,027.4	1,029.3	1,048.0	1,068.8	1,371.2	1,558.9	1,921.2	17,260.0
Year-on-year change	6.0	148.0	325.3	775.7	542.8	273.1	118.3	96.3	-18.8	-18.1	127.4	193.6	2,569.4
■ HD_C from EHV change	-36.3	-37.3	18.7	103.6	123.4	68.3	34.1	50.7	-28.7	0.5	19.7	21.6	338.4
■ HD_C from HV change	-117.4	-94.5	101.5	373.2	314.7	206.6	68.5	14.2	-7.7	-26.2	89.4	62.1	984.3
■ LD_B change	-108.2	58.3	-12.1	41.1	25.5	-19.0	-7.7	-13.3	-12.9	-18.2	-3.8	29.7	-40.7
■ LD_H change	267.9	221.5	217.2	257.7	79.2	17.3	23.5	44.6	30.4	25.9	22.1	80.3	1,287.5
Year-on-year change	0.1%	3.0%	6.7%	20.0%	13.8%	6.9%	3.0%	2.4%	-0.4%	-0.4%	2.6%	3.9%	4.8%
■ HD_C from EHV change	-5.4%	-5.9%	2.8%	19.3%	21.8%	11.4%	5.6%	8.6%	-4.3%	0.1%	3.1%	3.7%	4.6%
■ HD_C from HV change	-5.5%	-4.7%	5.2%	24.6%	19.4%	11.5%	3.8%	0.8%	-0.4%	-1.3%	4.6%	3.4%	4.4%
■ LD_B change	-11.7%	8.4%	-1.6%	7.0%	4.5%	-3.5%	-1.4%	-2.4%	-2.3%	-2.8%	-0.5%	4.0%	-0.5%
■ LD_H change	15.8%	14.2%	14.4%	20.9%	6.6%	1.7%	2.3%	4.4%	2.9%	1.9%	1.4%	4.4%	8.1%

Net electricity consumption in RDS [GWh]



Year-on-year change in net electricity consumption in RDS [%]

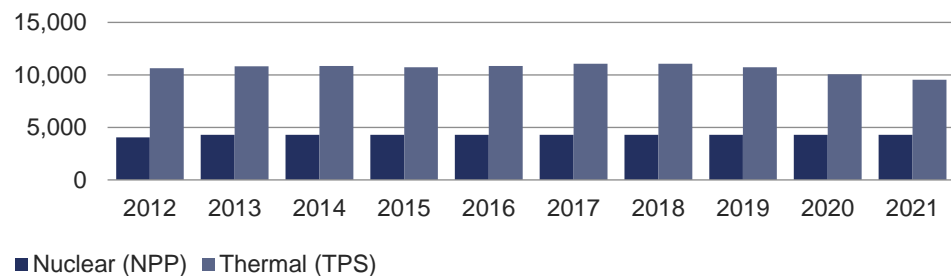


5 ELECTRICITY GENERATION BY TECHNOLOGY AND FUEL

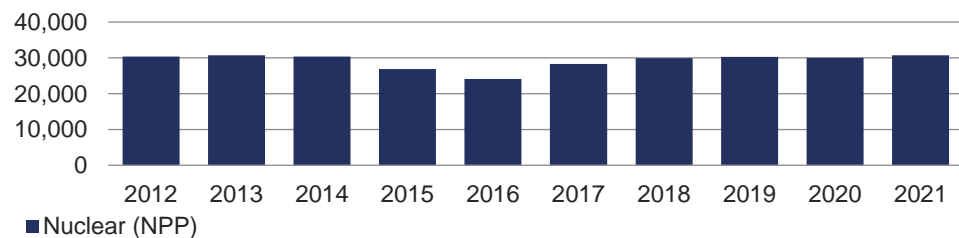
5.1 Nuclear power plants and thermal power stations

	Gross electricity generation [GWh]	Own use (process only) for electricity generation [GWh]	Own use (process only) for heat production [GWh]	Net electricity generation [GWh]	Total installed electrical capacity [MW _e]
Nuclear power plants (NPP)	30,731.2	1,686.5	2.9	29,044.7	4,290.0
Thermal power stations (TPS)	38,629.8	3,537.4	981.6	35,092.4	9,527.2
/// Biomass	2,663.0	199.8	107.8	2,463.3	
/// Biogas	11.1	0.5	1.0	10.5	
■ Hard coal	2,761.7	219.9	168.3	2,541.8	
■ Brown coal	31,405.5	2,976.6	547.3	28,428.8	
■ Coke	0.0	0.0	0.0	0.0	
■ Waste heat	70.5	10.2	4.9	60.3	
■ Other liquid fuels	12.2	0.5	1.4	11.6	
■ Other solid fuels	224.5	25.4	36.1	199.1	
■ Other gases	771.9	66.1	66.5	705.8	
■ Other	0.0	0.0	0.0	0.0	
■ Fuel oils	11.9	1.3	0.3	10.6	
■ Natural gas	697.6	36.9	48.0	660.8	

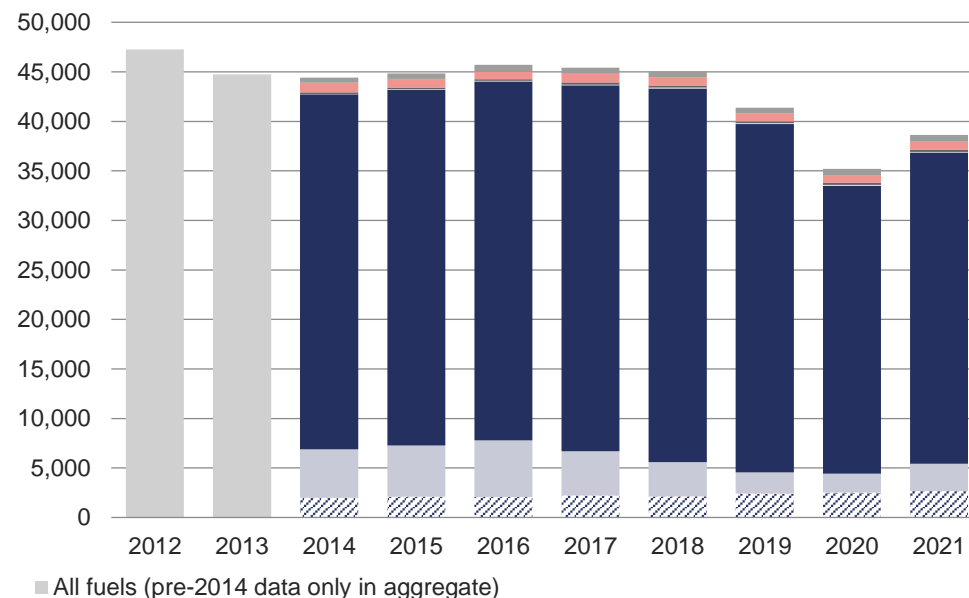
Installed capacity [MW]



Gross electricity generation [GWh], NPP



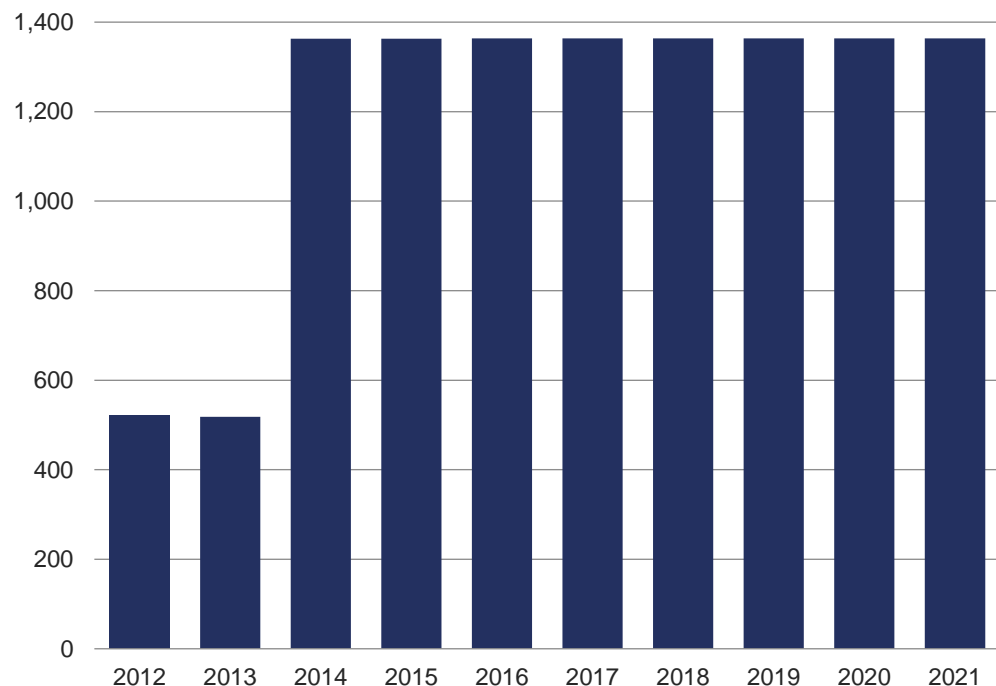
Gross electricity generation [GWh], TPS



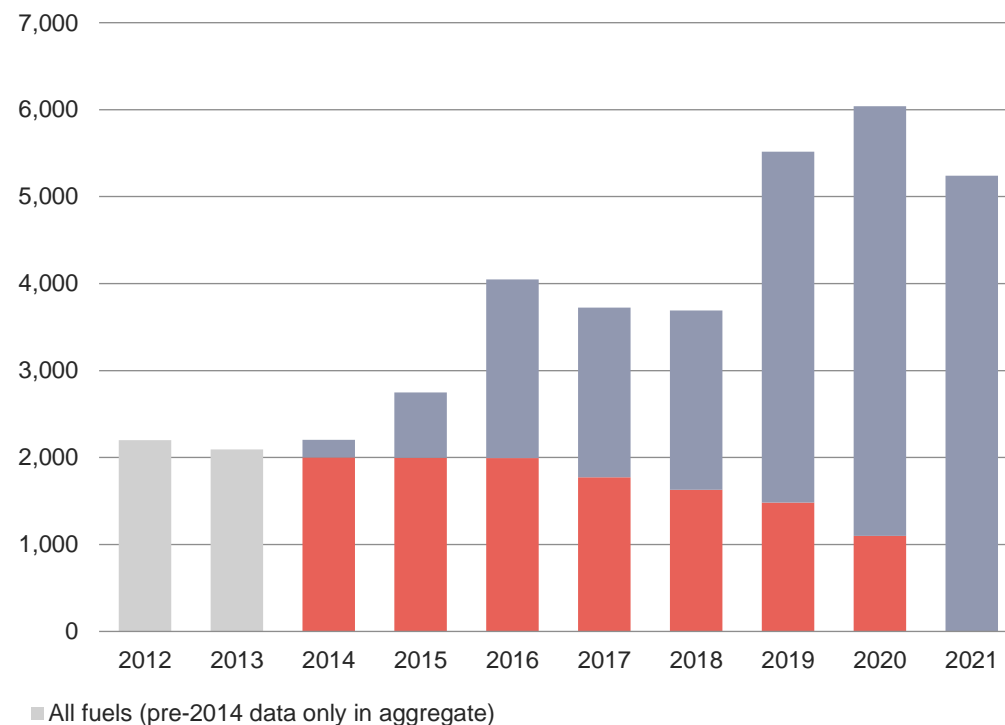
5.2 Combined cycle plants

	Gross electricity generation [GWh]	Own use (process only) for electricity generation [GWh]	Own use (process only) for heat production [GWh]	Net electricity generation [GWh]	Total installed electrical capacity [MW _e]
Combined cycle plants (CC)	5,239.8	93.7	7.1	5,146.2	1,363.5
⚡ Biomass	0.0	0.0	0.0	0.0	
🔥 Biogas	0.0	0.0	0.0	0.0	
🔱 Hard coal	0.0	0.0	0.0	0.0	
🔱 Brown coal	0.0	0.0	0.0	0.0	
🔱 Coke	0.0	0.0	0.0	0.0	
🔱 Waste heat	0.0	0.0	0.0	0.0	
🔱 Other liquid fuels	0.0	0.0	0.0	0.0	
🔱 Other solid fuels	0.0	0.0	0.0	0.0	
🔱 Other gases	0.0	0.0	0.0	0.0	
🔱 Other	0.0	0.0	0.0	0.0	
🔱 Fuel oils	0.0	0.0	0.0	0.0	
🔱 Natural gas	5,239.8	93.7	7.1	5,146.2	

Installed capacity [MW]



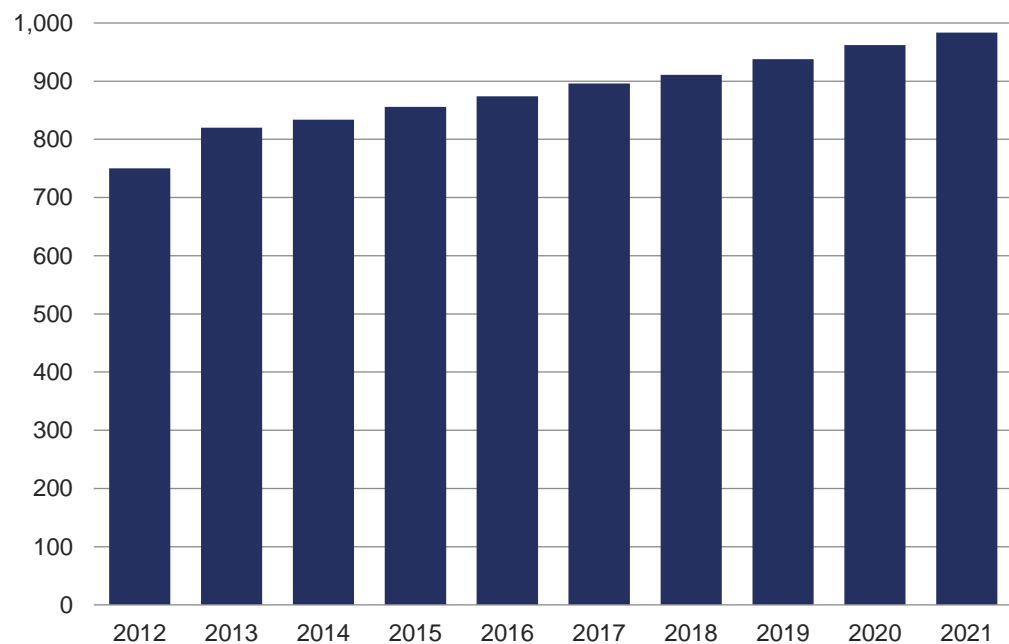
Gross electricity generation [GWh]



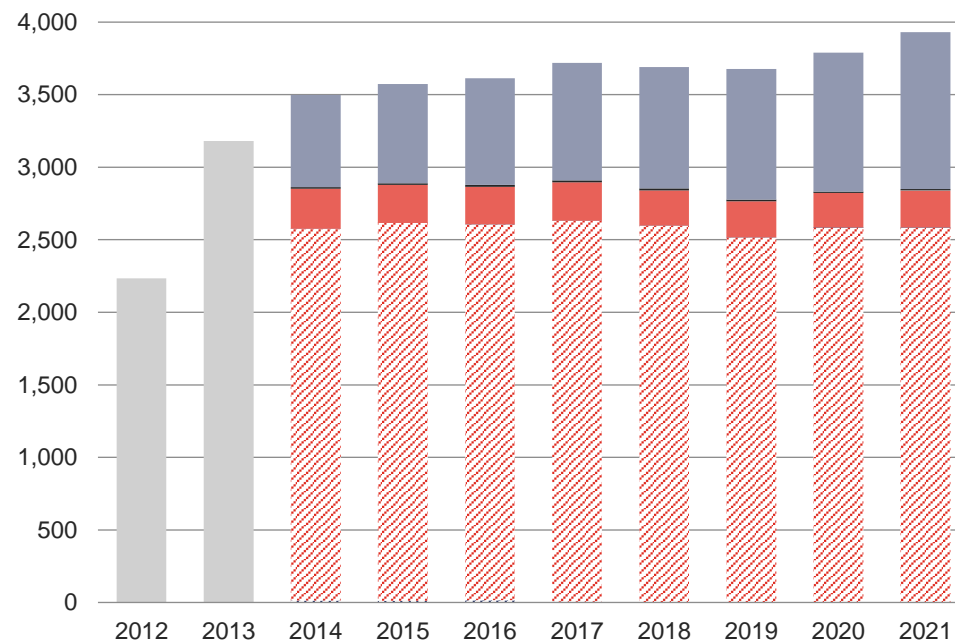
5.3 Gas fired power stations

	Gross electricity generation [GWh]	Own use (process only) for electricity generation [GWh]	Own use (process only) for heat production [GWh]	Net electricity generation [GWh]	Total installed electrical capacity [MW _e]
Gas fired power stations (GFPS)	3,931.7	226.7	40.0	3,704.9	983.7
∕ Biomass	1.5	0.0	0.0	1.5	
∕ Biogas	2,581.1	188.3	23.0	2,392.7	
■ Hard coal	0.0	0.0	0.0	0.0	
■ Brown coal	1.6	0.0	0.0	1.6	
■ Coke	0.0	0.0	0.0	0.0	
■ Waste heat	0.0	0.0	0.0	0.0	
■ Other liquid fuels	0.0	0.0	0.0	0.0	
■ Other solid fuels	0.0	0.0	0.0	0.0	
■ Other gases	255.1	10.4	0.2	244.7	
■ Other	1.5	0.0	0.0	1.5	
■ Fuel oils	8.7	1.1	0.1	7.6	
■ Natural gas	1,082.2	26.9	16.8	1,055.3	

Installed capacity [MW]



Gross electricity generation [GWh]



■ All fuels (pre-2014 data only in aggregate)

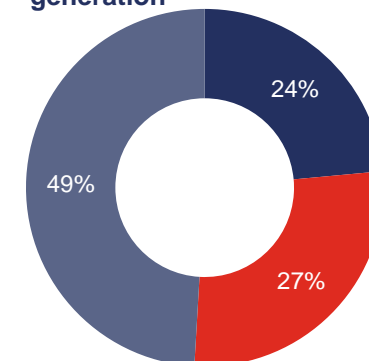
5.4 Hydroelectric, including pumped storage, power stations

	Total installed capacity	Gross electricity generation	Own use (process only) for electricity generation	Net electricity generation	Electricity supply to the grid
	[MW _e]	[MWh]	[MWh]	[MWh]	[MWh]
Hydroelectric power stations (HE) *)	1,113.4	2,408,520.4	18,979.3	2,389,541.1	2,312,932.1
■ up to 1 MW	157.9	566,644.3	6,241.1	560,403.2	518,065.7
■ from 1 MW inclusive to 10 MW	183.6	659,834.9	7,852.2	651,982.7	619,449.5
■ from 10 MW inclusive	771.8	1,182,041.3	4,886.0	1,177,155.3	1,175,417.0

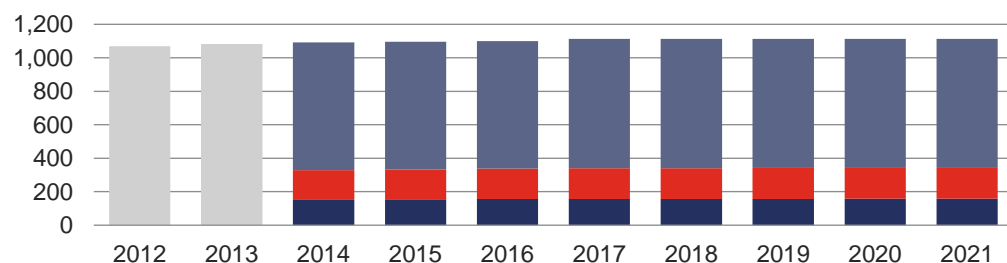
*) categorised by installed capacity of the plant

	Total installed capacity	Gross electricity generation	Electricity consumption for pumping	Net electricity generation	Electricity supply to the grid
	[MW _e]	[MWh]	[MWh]	[MWh]	[MWh]
Pumped storage hydroelectric power stations (PSHE)	1,171.5	1,211,404.4	1,560,670.0	1,195,558.3	1,206,073.7

Shares of HE categories in gross electricity generation

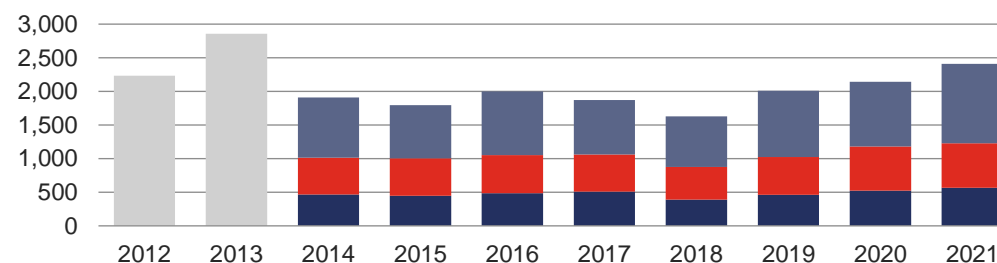


Installed capacity [MW], HE

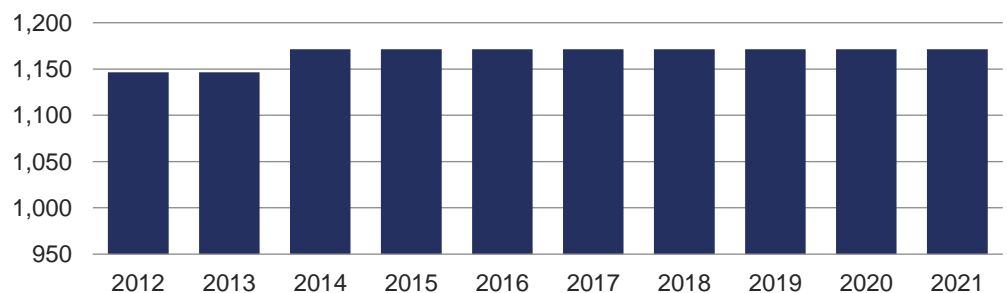


■ All categories (pre-2014 data only in aggregate)

Gross electricity generation [GWh], HE

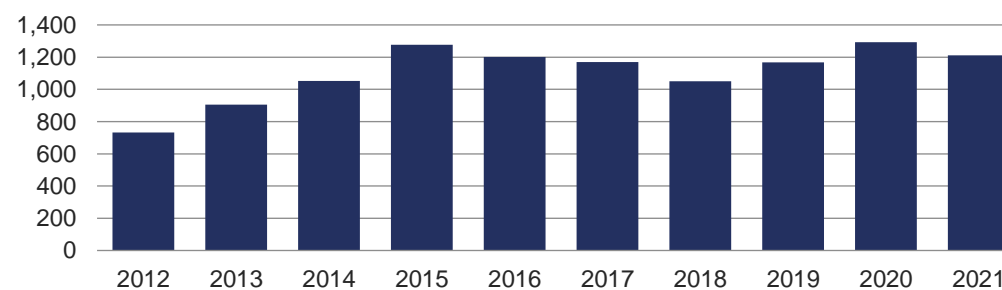


Installed capacity [MW]



■ Pumped storage (PSHE)

Gross electricity generation [GWh]



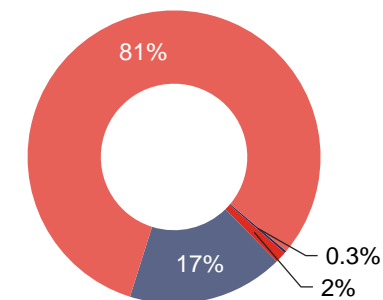
■ Pumped storage (PSHE)

5.5 Wind power plants

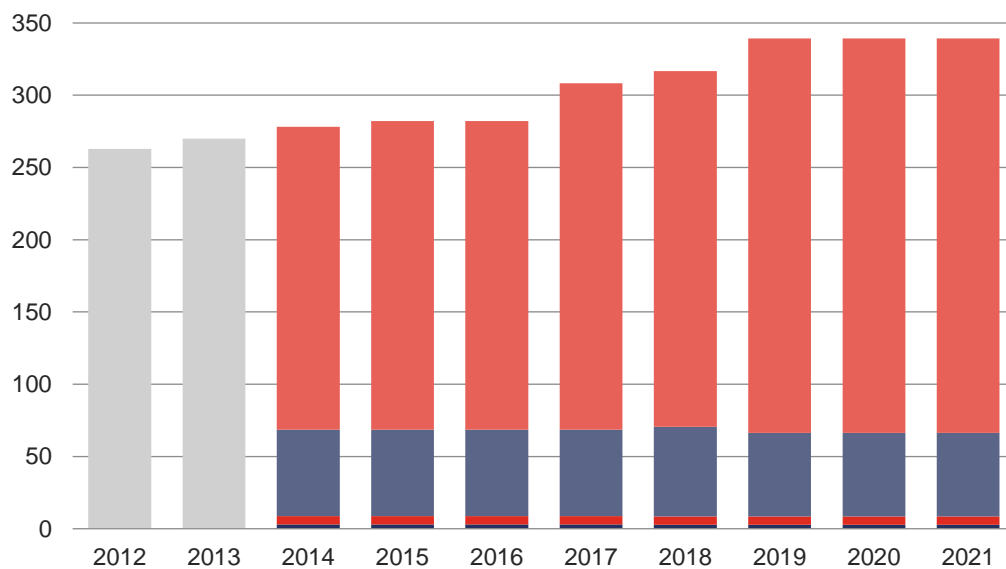
	Total installed capacity	Gross electricity generation	Own use (process only) for electricity generation	Net electricity generation	Electricity supply to the grid
	[MW _e]	[MWh]	[MWh]	[MWh]	[MWh]
Wind power plants (WPP) *)	339.4	601,534.0	7,526.0	594,008.0	594,013.9
■ up to 0.5 MW inclusive	2.8	1,508.2	42.0	1,466.2	1,460.1
■ over 0.5 to 1 MW inclusive	5.8	7,653.3	107.6	7,545.6	7,518.9
■ over 1 to 2 MW inclusive	57.9	103,602.1	968.4	102,633.7	102,643.6
■ over 2 MW	273.0	488,770.5	6,407.9	482,362.5	482,391.2

*) categorised by installed capacity of the plant

Shares of WPP categories in gross electricity generation

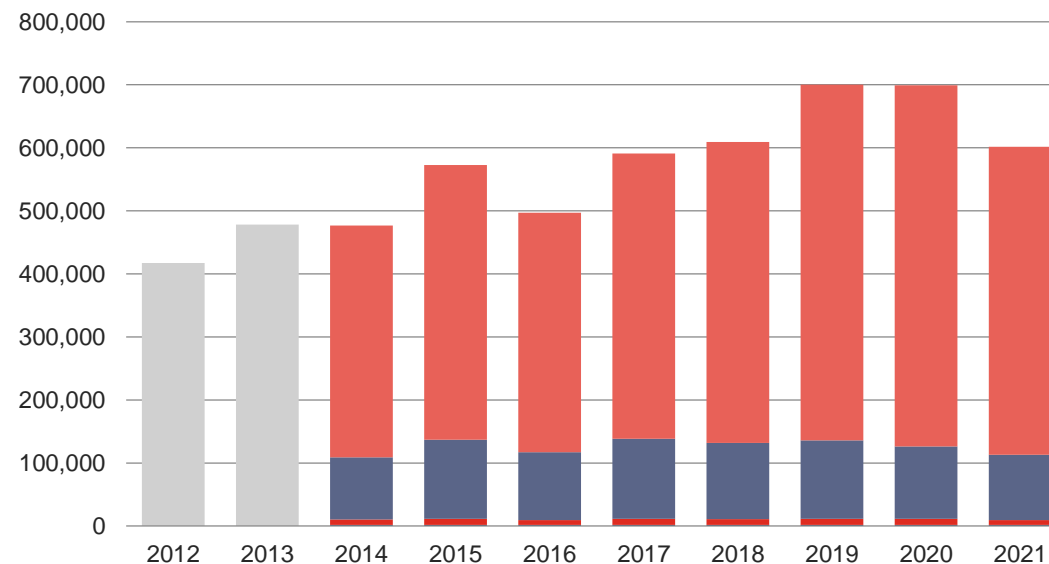


Installed capacity [MW]



■ All categories (pre-2014 data only in aggregate)

Gross electricity generation [MWh]

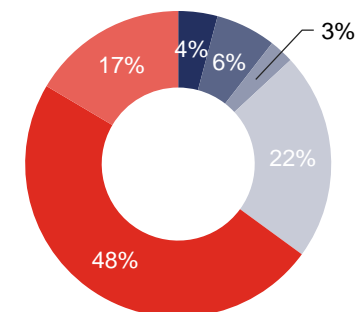


5.6 Photovoltaic plants

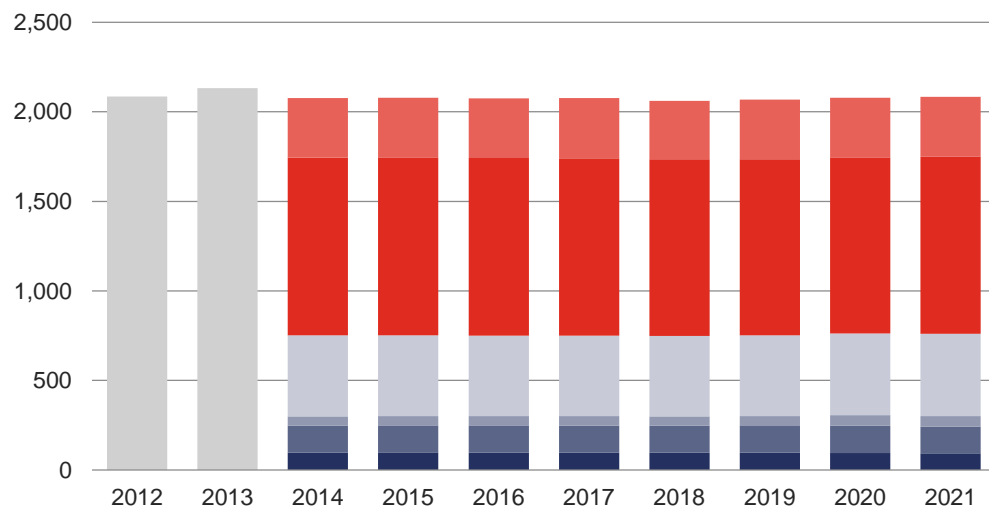
	Total installed capacity	Gross electricity generation	Own use (process only) for electricity generation	Net electricity generation	Electricity supply to the grid
	[MW _e]	[MWh]	[MWh]	[MWh]	[MWh]
Photovoltaic plants (PV) *)	2,083.4	2,153,280.3	18,369.7	2,134,910.7	1,982,317.8
■ up to 10 kW inclusive	92.3	89,272.3	58.4	89,213.9	57,706.9
■ over 10 to 30 kW inclusive	149.1	137,034.3	172.9	136,861.3	83,220.2
■ over 30 kW to 100 kW inclusive	60.2	56,029.8	746.0	55,283.8	40,252.5
■ over 100 kW to 1 MW inclusive	459.2	472,051.9	4,142.0	467,909.9	429,539.7
■ over 1 to 5 MW inclusive	990.4	1,043,732.3	7,774.1	1,035,958.2	1,024,770.9
■ over 5 MW	332.2	355,159.7	5,476.3	349,683.5	346,827.6

*) categorised by installed capacity of the plant

Shares of PV categories in gross electricity generation

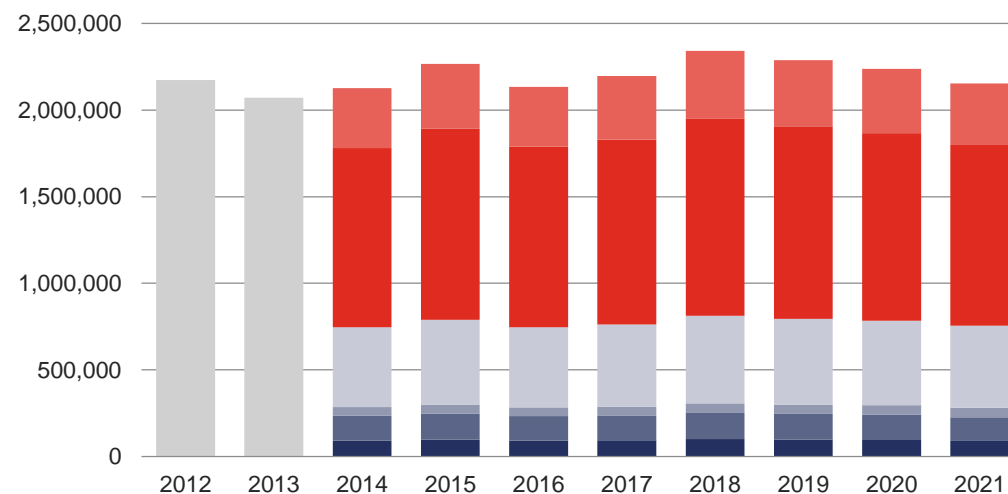


Installed capacity [MW]



■ All categories (pre-2014 data only in aggregate)

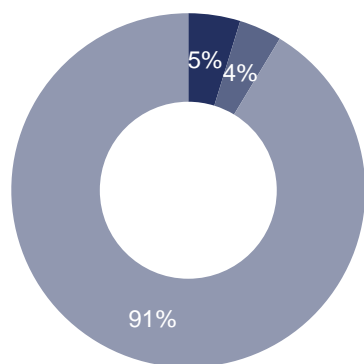
Gross electricity generation [MWh]



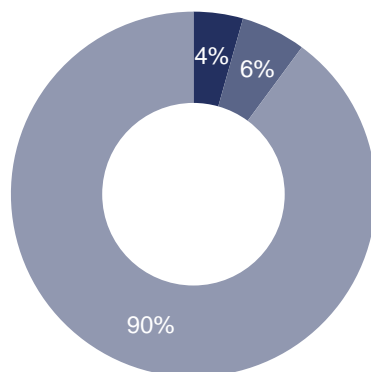
5.7 Combined heat and power generation

	CHP up to 1 MWe inclusive		CHP over 1 MWe to 5 MWe inclusive		CHP over 5 MWe		Total CHP	
	Gross electricity generation	Useful heat supply	Gross electricity generation	Useful heat supply	Gross electricity generation	Useful heat supply	Gross electricity generation	Useful heat supply
	[GWh]	[TJ]	[GWh]	[TJ]	[GWh]	[TJ]	[GWh]	[TJ]
Combined heat and power generation (CHP)	1,802.4	5,618.9	1,361.5	7,193.7	7,462.5	86,202.3	10,626.3	99,014.9
▨ Biomass	10.9	521.4	75.2	887.0	1,355.7	14,628.9	1,441.9	16,037.2
▨ Biogas	1,156.3	1,304.1	630.3	674.9	31.0	82.9	1,817.6	2,061.9
■ Hard coal	0.1	5.2	30.5	999.1	862.1	10,177.5	892.7	11,181.8
■ Brown coal	11.8	683.5	25.9	825.5	3,906.1	46,941.1	3,943.8	48,450.2
■ Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
■ Waste heat	1.0	24.5	19.8	499.1	18.7	252.5	39.5	776.1
■ Other liquid fuels	0.0	0.0	5.9	101.1	4.2	98.0	10.1	199.1
■ Other solid fuels	2.4	13.7	20.2	611.9	94.7	1,642.0	117.3	2,267.6
■ Other gases	8.0	30.1	58.0	217.3	275.4	4,614.0	341.4	4,861.5
■ Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
■ Fuel oils	5.5	3.9	1.2	0.8	0.8	11.2	7.5	15.8
■ Natural gas	606.3	3,032.6	494.6	2,377.0	913.8	7,754.3	2,014.7	13,163.8
Total installed electrical capacity [MWe]	470.2		387.4		9,058.9		9,916.5	
Total installed thermal capacity [MWt]		866.1		1,135.5		17,775.0		19,776.6

Share of installed electrical capacity in CHP



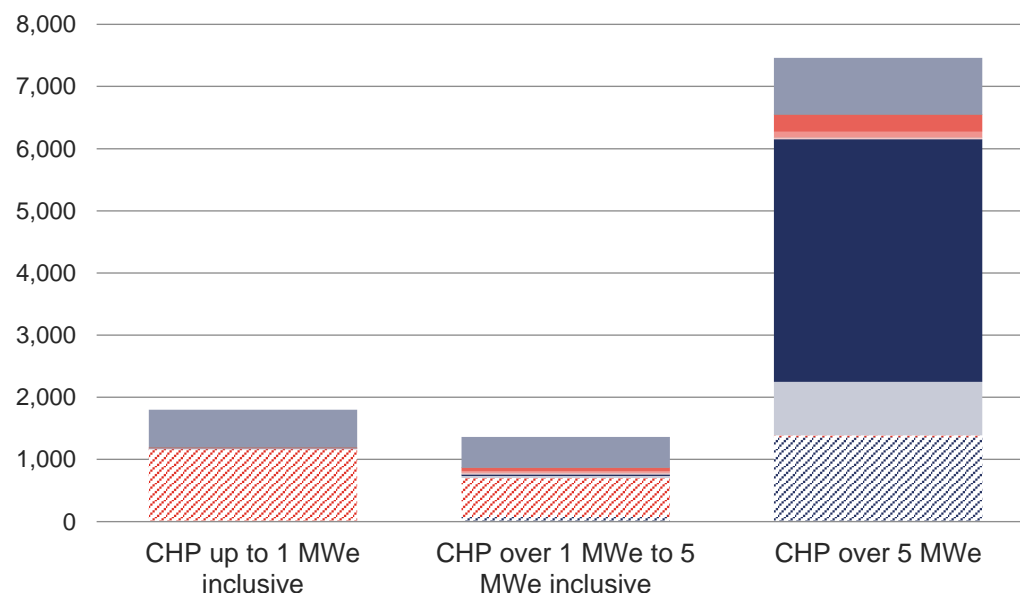
Share of installed thermal capacity in CHP



- CHP up to 1 MWe inclusive
- CHP over 1 MWe to 5 MWe inclusive
- CHP over 5 MWe

- CHP up to 1 MWe inclusive
- CHP over 1 MWe to 5 MWe inclusive
- CHP over 5 MWe

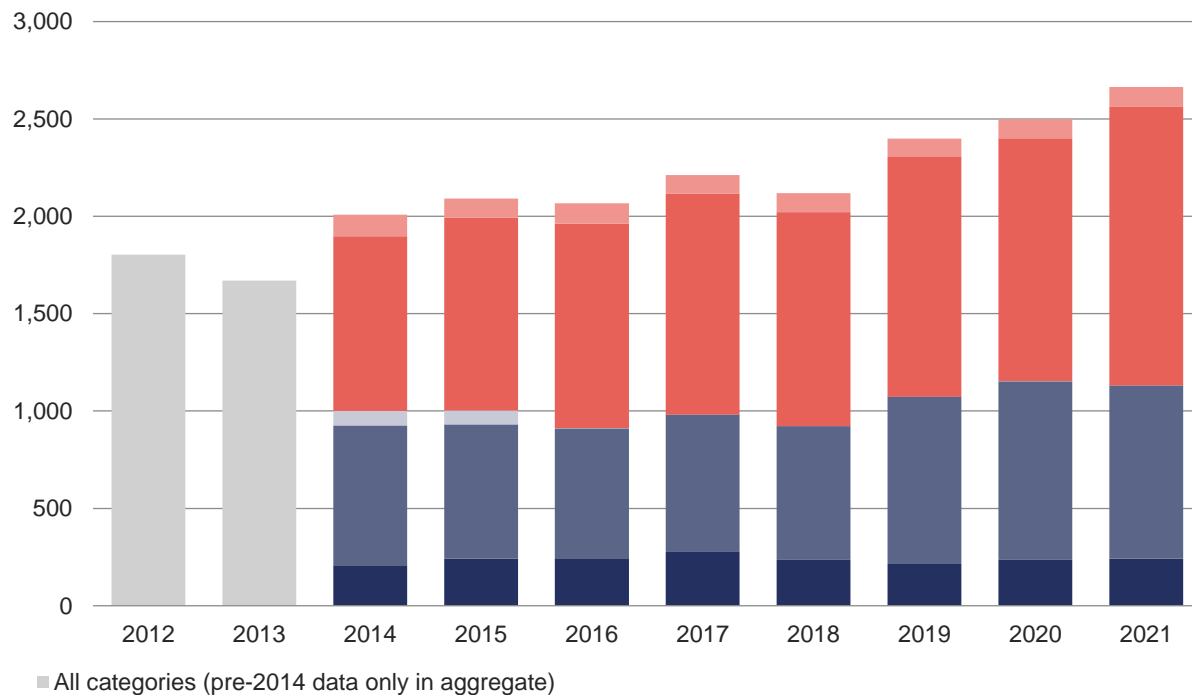
Shares of fuels in gross electricity generation in CHP [GWh]



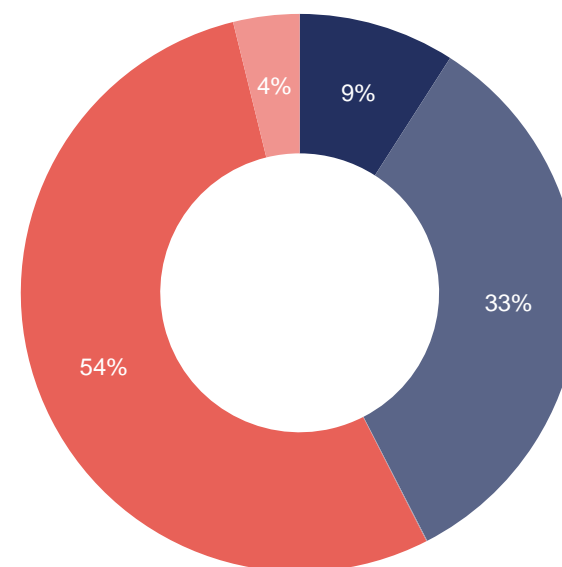
5.8 Generation from biomass

	Gross electricity generation	Own use (process only) for electricity generation	Own use (process only) for heat production	Net electricity generation
	[MWh]	[MWh]	[MWh]	[MWh]
Biomass	2,664,554.4	199,837.8	107,774.3	2,464,716.6
■ Briquettes and pellets	241,734.3	28,658.2	6,729.3	213,076.1
■ Black liquor	888,974.3	26,456.5	38,097.4	862,517.8
■ Liquid biofuels	1,200.9	74.7	10.4	1,126.2
■ Other biomass	0.0	0.0	0.0	0.0
■ Fuel wood	77.0	4.7	18.3	72.4
■ Saw dust, bark, chips, wood waste	1,430,181.1	136,815.2	61,840.8	1,293,365.9
■ Straw and other vegetable materials	102,386.7	7,828.5	1,078.1	94,558.3

Gross electricity generation [GWh]



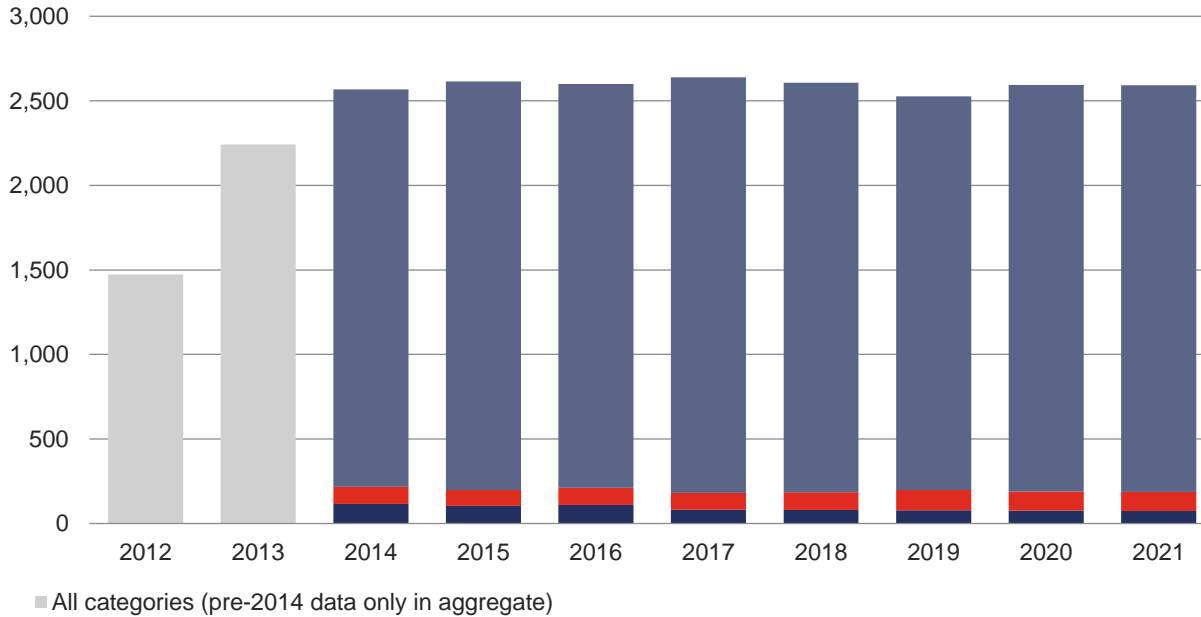
Shares of biomass categories in gross electricity generation



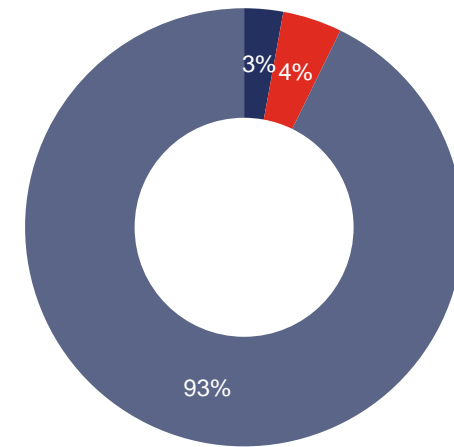
5.9 Generation from biogas

	Gross electricity generation	Own use (process only) for electricity generation	Own use (process only) for heat production	Net electricity generation
	[MWh]	[MWh]	[MWh]	[MWh]
Biogas	2,592,121.7	188,854.0	23,981.4	2,403,267.6
■ Landfill gas	74,477.7	5,022.3	22.0	69,455.4
■ Sludge gas (WWTP)	113,255.2	8,742.0	4,528.3	104,513.2
■ Other biogas	2,404,388.8	175,089.8	19,431.1	2,229,299.0

Gross electricity generation [GWh]



Shares of biogas categories in gross electricity generation

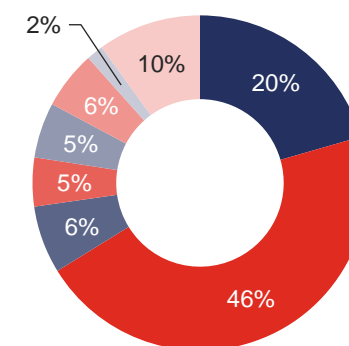


6 INSTALLED CAPACITY IN THE CZECH ELECTRICITY GRID AND ITS BREAKDOWN BY CZECH REGIONS AS AT 31 DECEMBER 2021 [MW]

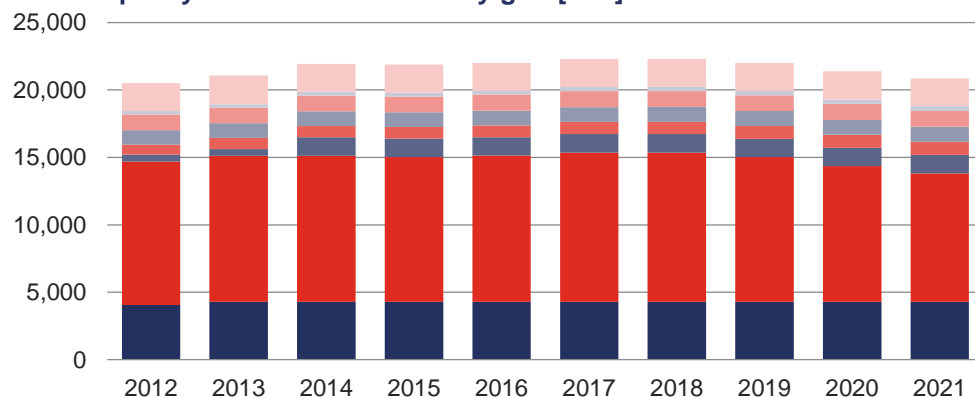
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Czech Republic	20,519.5	21,079.2	21,931.2	21,867.9	21,997.2	22,274.2	22,283.0	21,994.0	21,358.1	20,872.1
■ Nuclear (NPP)	4,040.0	4,290.0	4,290.0	4,290.0	4,290.0	4,290.0	4,290.0	4,290.0	4,290.0	4,290.0
■ Thermal (TPS)	10,644.1	10,819.5	10,836.7	10,741.9	10,850.0	11,075.5	11,075.4	10,729.9	10,058.3	9,527.2
■ Combined cycle (CC)	520.7	518.0	1,363.0	1,363.3	1,363.5	1,363.5	1,363.5	1,363.5	1,363.5	1,363.5
■ Gas fired (GFPS)	750.1	820.1	833.7	855.6	874.0	896.0	910.9	937.7	962.2	983.7
■ Hydro (HE)	1,069.2	1,082.7	1,091.0	1,095.0	1,100.2	1,112.3	1,112.5	1,113.2	1,113.7	1,113.4
■ Pumped storage (PSHE)	1,146.5	1,146.5	1,171.5	1,171.5	1,171.5	1,171.5	1,171.5	1,171.5	1,171.5	1,171.5
■ Wind (WPP)	263.0	270.0	278.2	282.2	282.2	308.2	316.7	339.4	339.4	339.4
■ Photovoltaic (PV)	2,086.0	2,132.4	2,076.6	2,078.0	2,075.4	2,076.3	2,061.4	2,067.8	2,078.4	2,083.4

	NPP	TPS	CC	GFPS	HE	PSHE	WPP	PV	Total
Total Czech Republic	4,290.0	9,527.2	1,363.5	983.7	1,113.4	1,171.5	339.4	2,083.4	20,872.1
Prague	0.0	147.9	0.0	20.0	11.2	0.0	0.0	21.7	200.9
Jihočeský Region	2,250.0	215.4	0.0	52.9	176.3	0.0	0.0	245.4	2,940.0
Jihomoravský Region	0.0	226.3	118.5	78.5	34.3	0.0	8.4	452.4	918.3
Karlovarský Region	0.0	539.8	400.0	22.8	8.0	0.0	67.9	12.8	1,051.3
Vysočina Region	2,040.0	15.3	0.0	84.5	16.6	475.0	10.9	92.4	2,734.7
Královéhradecký Region	0.0	182.6	0.0	58.9	30.6	0.0	10.2	94.8	377.1
Liberecký Region	0.0	4.8	0.0	40.7	26.0	0.0	50.1	112.0	233.6
Moravskoslezský Region	0.0	1,259.7	0.0	93.6	17.8	0.0	28.4	62.1	1,461.6
Olomoucký Region	0.0	111.6	0.0	120.6	12.9	650.0	45.9	110.5	1,051.5
Pardubický Region	0.0	1,273.7	0.0	58.2	29.8	0.0	19.2	96.7	1,477.7
Plzeňský Region	0.0	262.1	0.0	69.7	20.7	1.5	5.3	210.4	569.7
Středočeský Region	0.0	1,152.0	0.0	204.3	644.5	45.0	6.0	248.8	2,300.6
Ústecký Region	0.0	4,003.4	845.0	45.5	77.3	0.0	86.8	164.3	5,222.3
Zlínský Region	0.0	132.5	0.0	33.4	7.5	0.0	0.2	159.1	332.8

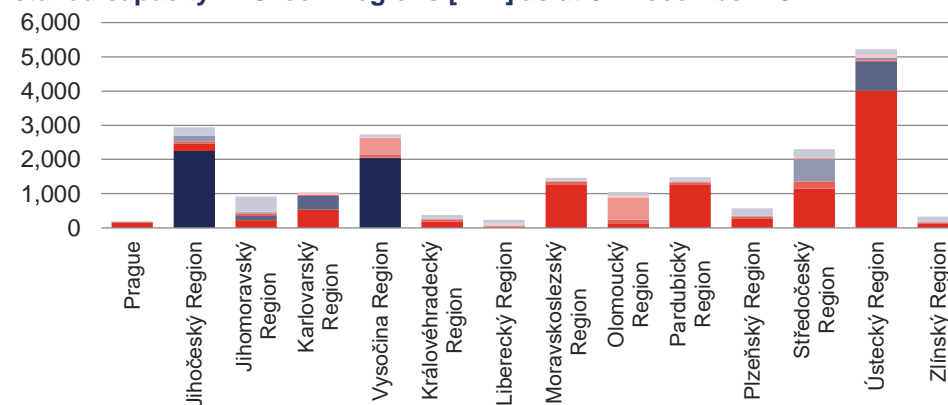
Shares of installed capacity in the Czech electricity grid in 2021



Installed capacity in the Czech electricity grid [MW] as at 31 December 2021



Installed capacity in Czech Regions [MW] as at 31 December 2021

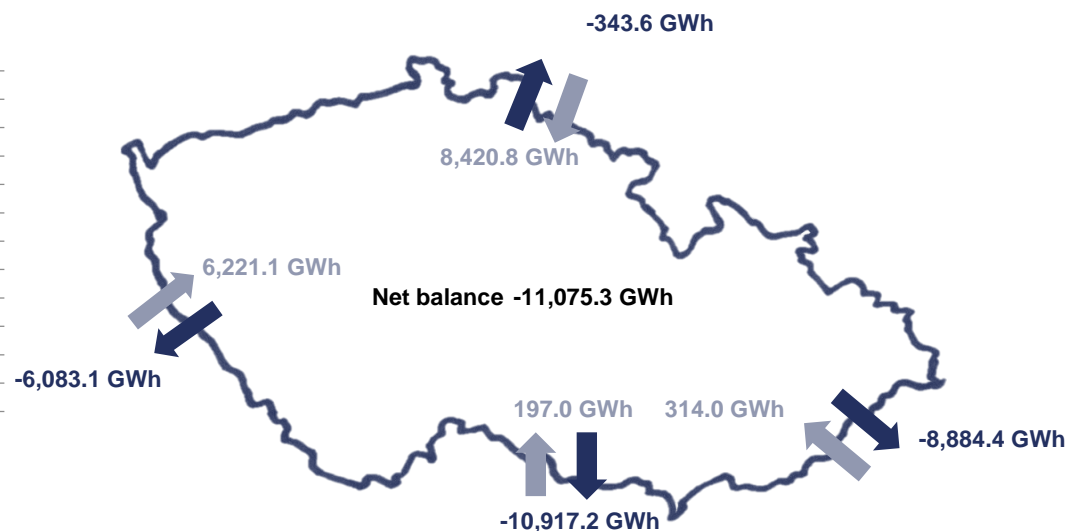
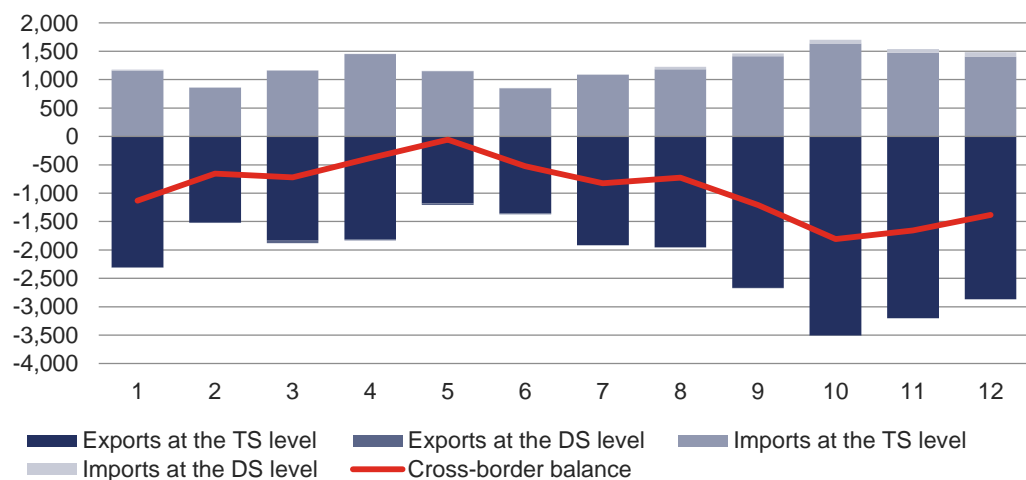


7 CROSS-BORDER FLOWS

7.1 Cross-border physical flows [GWh]

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Cross-border balance	-1,131.8	-657.1	-718.8	-381.2	-57.4	-522.9	-823.5	-725.3	-1,206.6	-1,808.2	-1,659.2	-1,383.3	-11,075.3
Total exports	-2,308.0	-1,523.0	-1,879.2	-1,831.5	-1,208.1	-1,372.0	-1,917.9	-1,952.6	-2,666.1	-3,508.4	-3,197.0	-2,864.4	-26,228.2
Exports at the TS level	-2,306.6	-1,510.7	-1,839.1	-1,812.2	-1,182.9	-1,353.4	-1,914.6	-1,952.5	-2,666.1	-3,508.0	-3,197.0	-2,864.1	-26,107.2
to Poland	-12.1	-46.5	-35.1	-7.1	-55.4	-17.9	-13.1	-32.1	-1.7	-0.3	-0.1	-4.8	-226.1
to Germany	-815.7	-465.1	-331.1	-259.6	-306.7	-340.2	-310.4	-363.8	-563.1	-732.1	-777.1	-818.2	-6,083.1
to Austria	-929.8	-575.8	-867.1	-854.1	-389.2	-427.7	-835.4	-821.4	-1,304.4	-1,590.8	-1,267.2	-1,054.2	-10,917.2
to Slovakia	-549.0	-423.2	-605.8	-691.4	-431.6	-567.6	-755.7	-735.1	-796.9	-1,184.9	-1,152.6	-987.0	-8,880.8
Exports at the DS level	-1.4	-12.3	-40.1	-19.3	-25.2	-18.6	-3.3	-0.1	0.0	-0.3	0.0	-0.3	-121.1
to Poland	-1.3	-12.2	-40.0	-19.2	-25.1	-18.6	-0.6	-0.1	0.0	0.0	0.0	-0.2	-117.5
to Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
to Austria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
to Slovakia	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-2.6	0.0	0.0	-0.3	0.0	-0.1	-3.6
Total imports	1,176.3	865.8	1,160.4	1,450.3	1,150.7	849.1	1,094.4	1,227.3	1,459.6	1,700.2	1,537.8	1,481.1	15,153.0
Imports at the TS level	1,159.1	861.0	1,160.2	1,450.2	1,150.5	849.0	1,082.6	1,181.0	1,411.0	1,636.5	1,470.5	1,408.7	14,820.3
from Poland	621.7	298.1	460.3	699.5	474.7	448.0	542.1	677.6	967.1	1,097.8	984.1	818.6	8,089.6
from Germany	445.1	466.7	679.9	732.0	486.2	350.2	535.9	481.5	438.1	538.7	483.0	583.7	6,221.1
from Austria	4.2	29.3	2.2	11.2	98.1	27.8	3.2	17.8	1.1	0.0	0.2	1.9	197.0
from Slovakia	88.1	66.9	17.8	7.5	91.4	23.1	1.3	4.1	4.8	0.0	3.2	4.4	312.6
Imports at the DS level	17.2	4.8	0.2	0.1	0.2	0.1	11.7	46.3	48.5	63.7	67.4	72.5	332.6
from Poland	17.0	4.7	0.0	0.0	0.0	0.0	11.6	46.1	48.4	63.6	67.3	72.3	331.2
from Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
from Austria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
from Slovakia	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5

Cross-border physical flows [GWh]



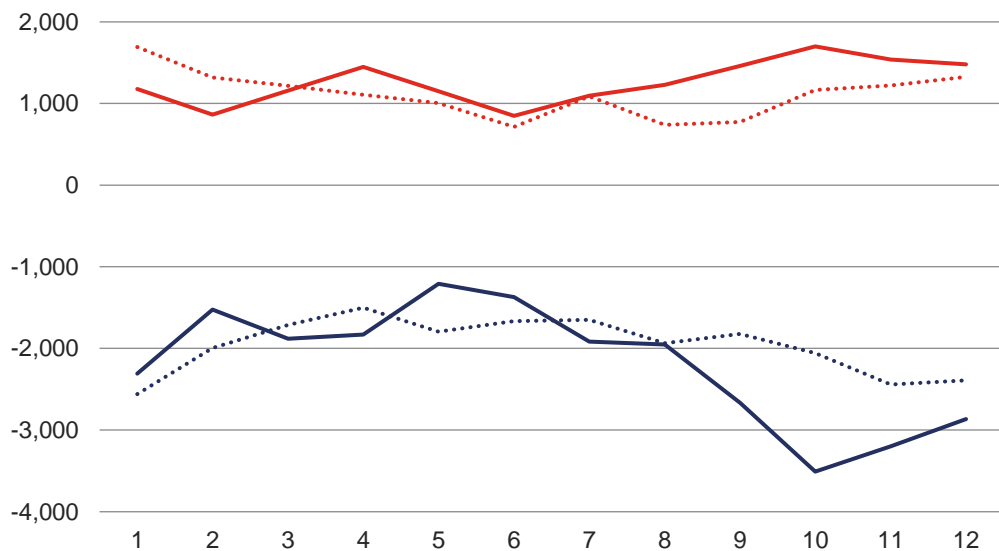
7.2 Year-on-year change in cross-border physical flows [GWh]

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Cross-border balance in 2020	-866.8	-672.9	-495.2	-394.6	-791.1	-952.0	-562.8	-1,195.7	-1,049.6	-891.5	-1,219.2	-1,061.6	-10,152.9
Total exports in 2020	-2,559.4	-1,993.6	-1,714.0	-1,500.6	-1,794.9	-1,666.5	-1,648.9	-1,935.4	-1,822.0	-2,056.1	-2,440.0	-2,389.4	-23,520.9
Total imports in 2020	1,692.6	1,320.7	1,218.9	1,106.0	1,003.8	714.5	1,086.1	739.7	772.5	1,164.6	1,220.9	1,327.9	13,368.1
Cross-border balance in 2021	-1,131.8	-657.1	-718.8	-381.2	-57.4	-522.9	-823.5	-725.3	-1,206.6	-1,808.2	-1,659.2	-1,383.3	-11,075.3
Total exports in 2021	-2,308.0	-1,523.0	-1,879.2	-1,831.5	-1,208.1	-1,372.0	-1,917.9	-1,952.6	-2,666.1	-3,508.4	-3,197.0	-2,864.4	-26,228.2
Total imports in 2021	1,176.3	865.8	1,160.4	1,450.3	1,150.7	849.1	1,094.4	1,227.3	1,459.6	1,700.2	1,537.8	1,481.1	15,153.0
Year-on-year change in the cross-border balance	-264.9	15.8	-223.7	13.4	733.7	429.1	-260.7	470.3	-157.0	-916.7	-440.0	-321.7	-922.4
	30.6%	-2.3%	45.2%	-3.4%	-92.7%	-45.1%	46.3%	-39.3%	15.0%	102.8%	36.1%	30.3%	9.1%

7.3 Development of cross-border physical flows [TWh]

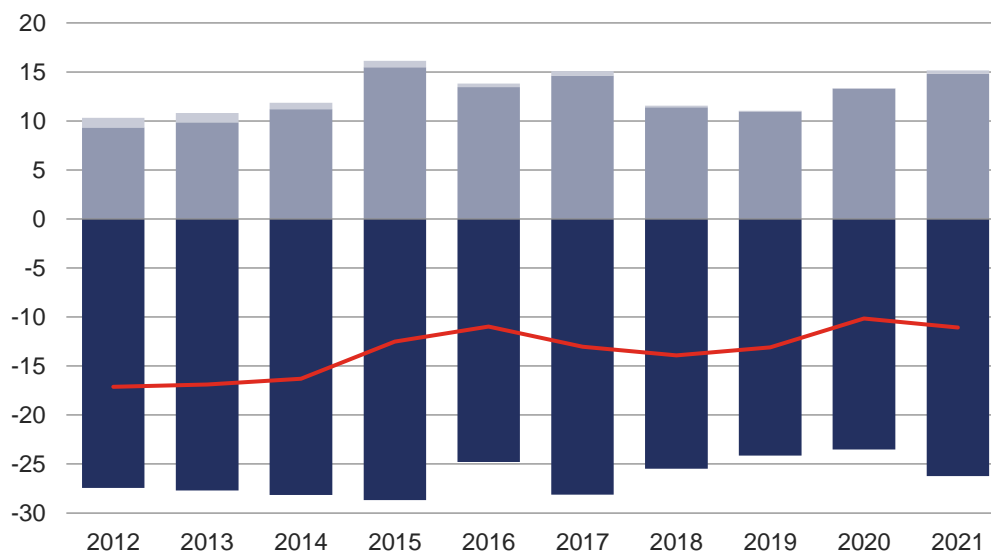
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Cross-border balance	-17.1	-16.9	-16.3	-12.5	-11.0	-13.0	-13.9	-13.1	-10.2	-11.1
Exports at 110, 220 and 400 kV	-27.4	-27.7	-28.1	-28.7	-24.8	-28.1	-25.5	-24.1	-23.5	-26.2
Imports at 220 and 400 kV	9.3	9.9	11.2	15.5	13.4	14.6	11.4	11.0	13.3	14.8
Imports at 110 kV	1.0	1.0	0.7	0.7	0.4	0.4	0.2	0.1	0.1	0.3

Cross-border flows [GWh]



..... Total exports in 2020 Total imports in 2020
 — Total exports in 2021 — Total imports in 2021

Development of cross-border physical flows [TWh]



■ Exports at 110, 220 and 400 kV ■ Imports at 220 and 400 kV
 ■ Imports at 110 kV — Cross-border balance

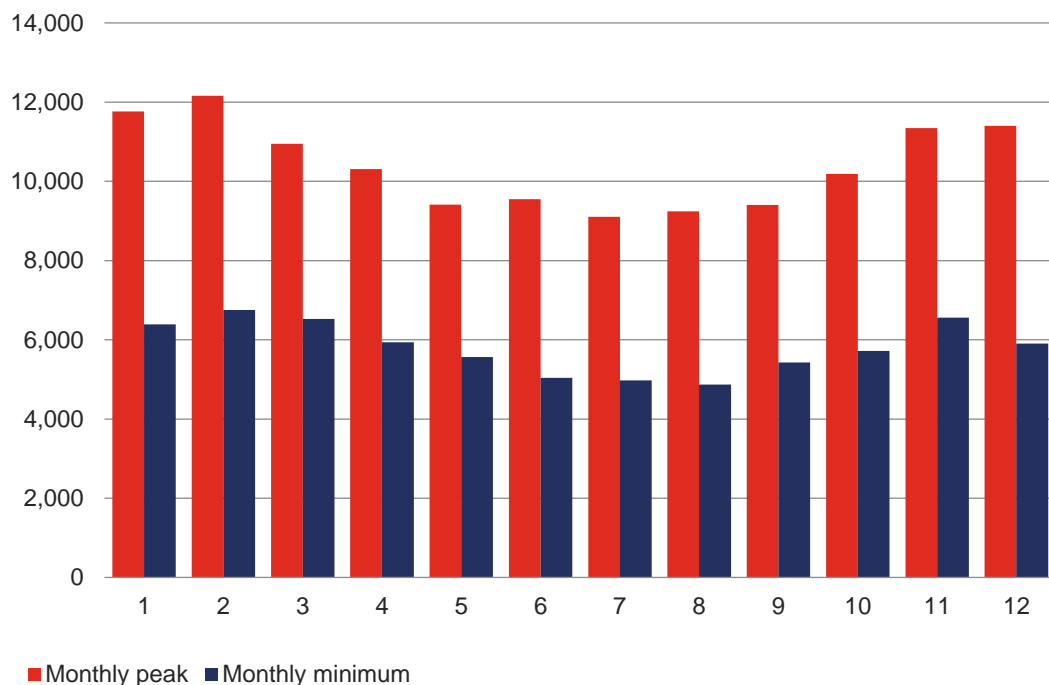
8 PEAK AND MINIMUM LOADS

8.1 Monthly peak and minimum gross loads in the Czech electricity grid

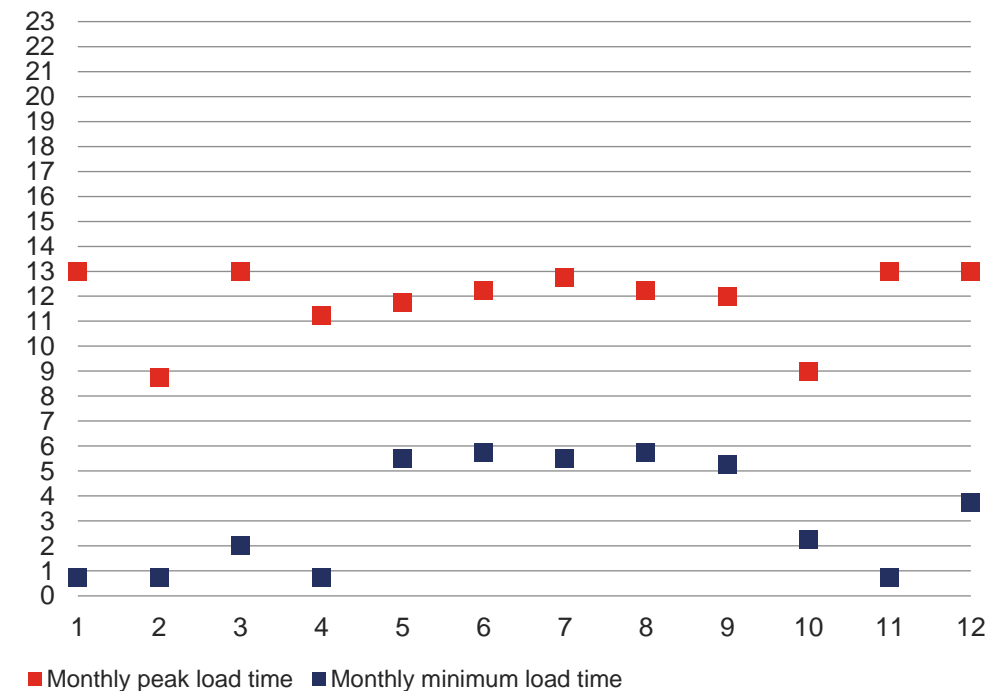
	January	February	March	April	May	June	July	August	September	October	November	December
Monthly peak [MW]	11,766.4	12,159.0	10,949.5	10,311.6	9,409.9	9,549.6	9,108.1	9,245.4	9,402.1	10,190.1	11,341.5	11,403.2
Date	18. 1.	15. 2.	11. 3.	8. 4.	5. 5.	17. 6.	13. 7.	31. 8.	22. 9.	14. 10.	30. 11.	9. 12.
Time ⁾	13:00	8:45	13:00	11:15	11:45	12:15	12:45	12:15	12:00	9:00	13:00	13:00
Monthly minimum [MW]	6,388.7	6,755.7	6,529.8	5,939.9	5,561.5	5,037.4	4,976.1	4,870.5	5,425.9	5,719.0	6,558.8	5,904.1
Date	2. 1.	28. 2.	28. 3.	3. 4.	16. 5.	27. 6.	4. 7.	8. 8.	12. 9.	3. 10.	7. 11.	31. 12.
Time ⁾	0:45	0:45	2:00	0:45	5:30	5:45	5:30	5:45	5:15	2:15	0:45	3:45

⁾ Central European time; from 28 March to 31 October, Central European summer time

Monthly peak and minimum loads [MW]



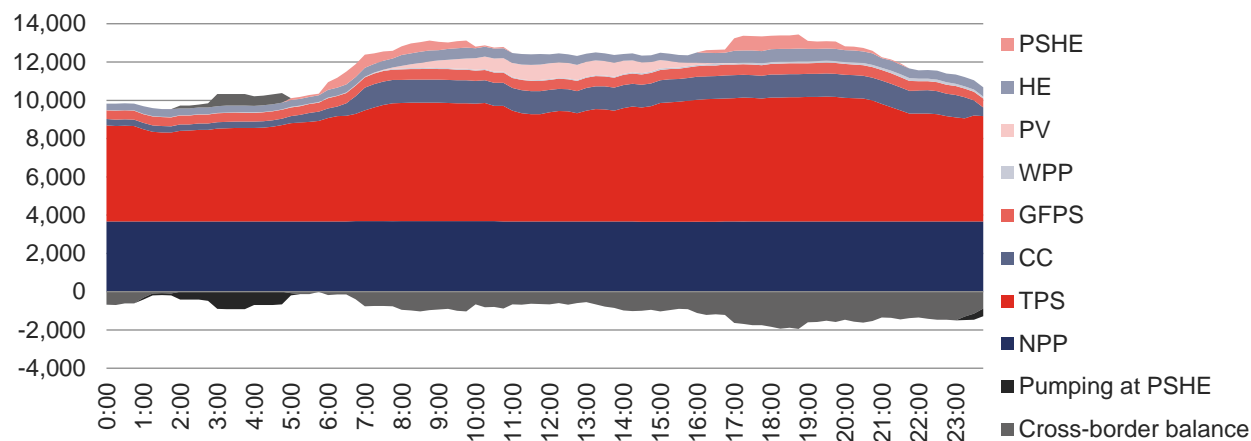
Peak load time and minimum load time



8.2 Structure of meeting the year's daily peak/minimum loads on the Czech grid in 2021

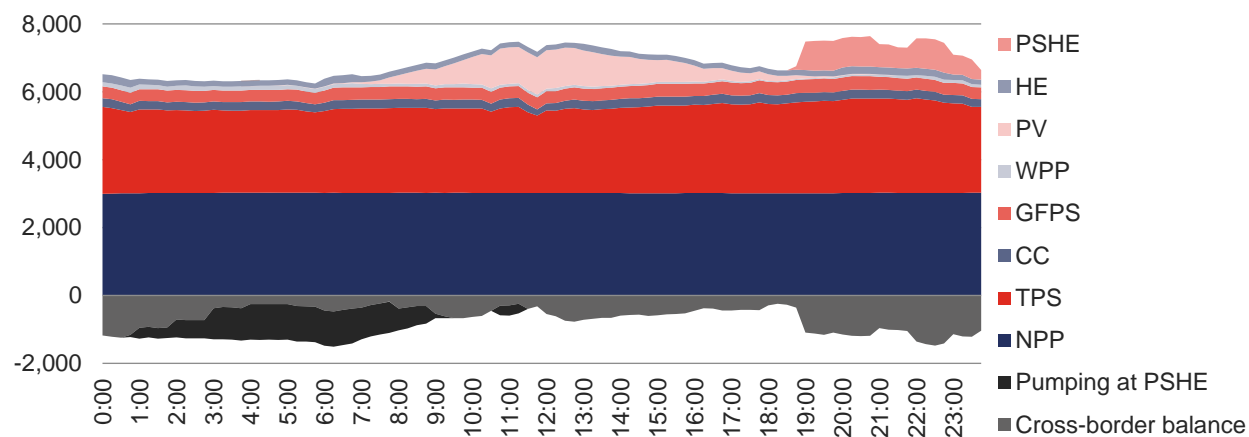
Structure of meeting the daily peak load (15. 2. 2021 08:45)		
	[MW]	
Gross load	12,159.0	100%
Nuclear power plants (NPP)	3,678.9	30%
Thermal power stations (TPS)	6,201.1	51%
Combined cycle plants (CC)	1,206.0	10%
Gas fired power stations (GFPS)	554.3	5%
Hydroelectric power stations (HE)	581.1	5%
Pumped storage power stations (PSHE)	514.5	4%
Photovoltaic plants (PV)	330.9	3%
Wind power plants (WPP)	54.7	0%
Cross-border balance	-962.6	-8%
Pumping at PSHE	0.0	0%

Gross load on the peak load day [MW]



Structure of meeting the daily minimum load (8. 8. 2021 05:45)		
	[MW]	
Gross load	4,870.5	100%
Nuclear power plants (NPP)	3,024.5	62%
Thermal power stations (TPS)	2,368.4	49%
Combined cycle plants (CC)	237.1	5%
Gas fired power stations (GFPS)	339.5	7%
Hydroelectric power stations (HE)	152.2	3%
Pumped storage power stations (PSHE)	0.0	0%
Photovoltaic plants (PV)	7.8	0%
Wind power plants (WPP)	115.8	2%
Cross-border balance	-333.6	-7%
Pumping at PSHE	-1,041.1	-21%

Gross load on the minimum load day [MW]

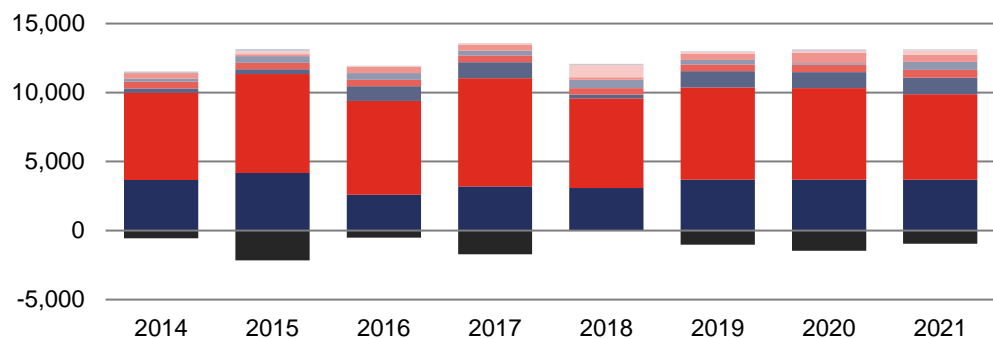


8.3 Days of the peak and minimum loads on the Czech grid between 2014 and 2021

Peak load days	NPP	TPS	CC	GFPS	HE	PSHE	PV	WPP	Cross-border balance	Pumping at PSHE	OUE	Gross load	Load (w/o OUE)	Gross consumption
Date/Time	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MWh]
10/12/2014 16:30	3,665	6,322	321	485	223	403	0	99	-567	0	-814	10,952	10,137	10,952
09/02/2015 12:00	4,173	7,176	344	450	509	122	206	163	-2,165	0	-895	10,978	10,083	10,978
05/12/2016 16:30	2,605	6,790	1,062	476	469	485	1	55	-518	0	-781	11,425	10,644	11,425
24/01/2017 10:00	3,196	7,854	1,143	488	348	449	86	1	-1,729	0	-873	11,835	10,962	11,835
28/02/2018 09:45	3,090	6,489	269	471	608	184	891	77	-27	0	-782	12,053	11,271	12,053
24/01/2019 13:15	3,692	6,671	1,177	492	332	461	127	26	-1,027	0	-817	11,951	11,134	11,951
22/01/2020 09:15	3,697	6,632	1,161	514	131	739	138	129	-1,474	0	-822	11,665	10,843	11,665
15/02/2021 08:45	3,679	6,201	1,206	554	581	514	331	55	-963	0	-803	12,159	11,356	12,159

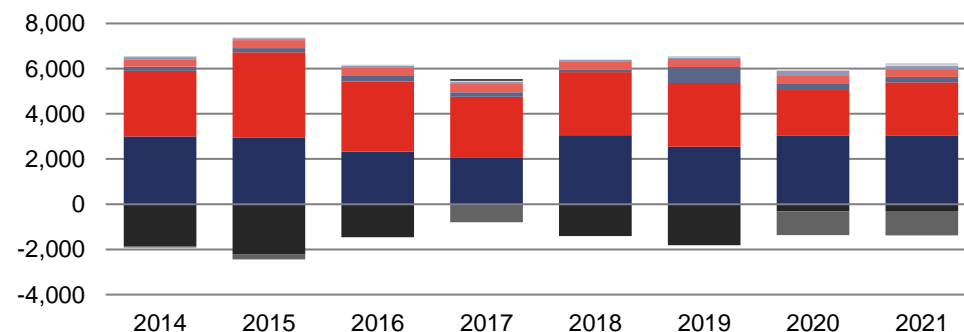
Minimum load days	NPP	TPS	CC	GFPS	HE	PSHE	PV	WPP	Cross-border balance	Pumping at PSHE	OUE	Gross load	Load (w/o OUE)	Gross consumption
Date/Time	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MW]	[MWh]
10/08/2014 05:45	3,000	2,897	185	333	91	0	7	45	-1,871	-52	-493	4,636	4,144	4,636
02/08/2015 05:45	2,946	3,786	173	364	78	0	4	27	-2,232	-217	-602	4,928	4,326	4,928
07/08/2016 05:45	2,336	3,096	239	354	105	0	5	39	-1,445	-5	-477	4,724	4,246	4,724
30/07/2017 05:45	2,049	2,710	189	368	96	0	8	38	82	-793	-431	4,747	4,316	4,747
12/08/2018 05:45	3,054	2,786	101	353	86	0	6	17	-1,410	0	-483	4,993	4,510	4,993
04/08/2019 05:45	2,543	2,827	710	347	70	0	19	37	-1,805	-5	-464	4,743	4,279	4,743
05/07/2020 05:30	3,025	2,030	273	352	220	0	17	74	-320	-1,051	-420	4,620	4,199	4,620
08/08/2021 05:45	3,024	2,368	237	340	152	0	8	116	-334	-1,041	-443	4,871	4,428	4,871

Peak loads on the Czech grid between 2014 and 2021



- Nuclear (NPP)
- Thermal (TPS)
- Combined cycle (CC)
- Gas fired (GFPS)
- Hydro (HE)
- Pumped storage (PSHE)
- Photovoltaic (PV)
- Wind (WPP)
- Cross-border balance
- Pumping at PSHE

Minimum loads on the Czech grid between 2014 and 2021



- Nuclear (NPP)
- Thermal (TPS)
- Combined cycle (CC)
- Gas fired (GFPS)
- Hydro (HE)
- Pumped storage (PSHE)
- Photovoltaic (PV)
- Wind (WPP)
- Cross-border balance
- Pumping at PSHE

9 BALANCES, TECHNICAL DETAILS AND SUPPLY QUALITY IN TS AND RDS AND TARIFF STATISTICS

9.1 Balances of physical flows in the TS and RDS

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Inflow into TS [GWh]	6,578.3	5,515.9	5,969.0	5,474.2	4,733.5	4,707.3	5,000.7	5,285.1	5,973.7	6,939.8	6,845.2	6,741.5	69,764.1
Electricity supply from generators	5,387.1	4,630.6	4,800.4	4,008.0	3,576.4	3,831.6	3,848.8	4,077.8	4,483.4	5,248.1	5,288.5	5,280.5	54,461.2
Electricity supply from RDS networks	32.2	24.3	8.3	16.0	6.7	26.6	69.3	26.2	79.3	55.2	86.2	52.3	482.6
Electricity imports (supply from abroad)	1,159.1	861.0	1,160.2	1,450.2	1,150.5	849.0	1,082.6	1,181.0	1,411.0	1,636.5	1,470.5	1,408.7	14,820.3
Outflow from TS [GWh]	-6,578.3	-5,515.9	-5,969.0	-5,474.2	-4,733.5	-4,707.3	-5,000.7	-5,285.1	-5,973.7	-6,939.8	-6,845.2	-6,741.5	-69,764.1
Electricity supply to RDS networks	-4,006.4	-3,764.0	-3,893.4	-3,436.7	-3,370.1	-3,208.8	-2,909.1	-3,114.5	-3,054.0	-3,149.7	-3,390.8	-3,593.5	-40,891.0
Electricity export (supply abroad)	-2,306.9	-1,510.7	-1,839.1	-1,812.2	-1,182.9	-1,353.4	-1,914.6	-1,952.5	-2,666.1	-3,508.0	-3,197.0	-2,864.1	-26,107.5
Electricity supply to customers connected to TS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity consumption of PSHE during pumping	-156.3	-139.7	-120.4	-131.4	-99.0	-67.3	-91.7	-134.8	-147.5	-157.8	-146.7	-166.0	-1,558.4
Other supply	-12.0	-11.9	-20.1	-16.3	-22.4	-11.1	-12.2	-15.2	-20.9	-11.2	-6.3	-6.6	-166.1
Total losses in networks	-96.8	-89.8	-95.9	-77.6	-59.1	-66.8	-73.1	-68.1	-85.2	-113.1	-104.4	-111.3	-1,041.2

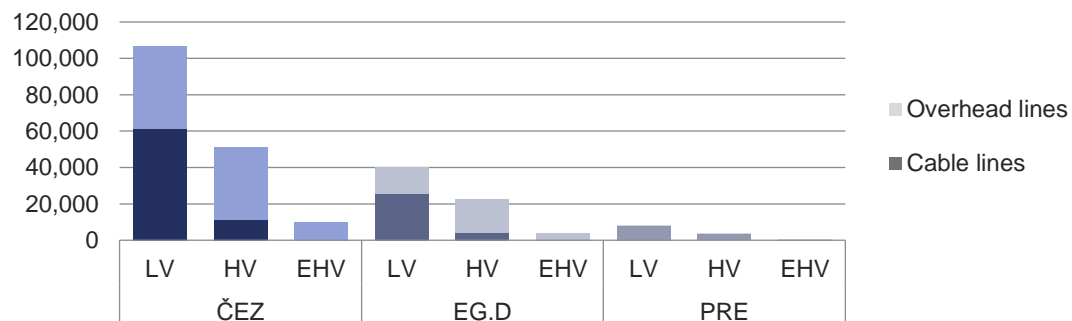
	January	February	March	April	May	June	July	August	September	October	November	December	Total
Inflow into DS [GWh]	6,384.7	5,915.5	6,138.2	5,461.7	5,212.5	4,939.5	4,820.5	4,819.8	4,968.1	5,441.5	5,905.7	6,174.8	66,182.5
Electricity supply from the TSO's network	4,006.4	3,764.0	3,893.4	3,436.7	3,370.1	3,208.8	2,909.1	3,114.5	3,054.0	3,149.7	3,390.8	3,593.5	40,891.0
Electricity supply from adjacent regional DSOs	670.8	594.5	634.0	556.6	487.5	488.8	474.1	497.2	511.6	531.8	616.6	678.0	6,741.6
Electricity supply from generators	1,478.3	1,385.6	1,435.5	1,295.1	1,208.6	1,123.7	1,317.4	1,102.3	1,258.6	1,495.3	1,619.4	1,623.1	16,342.7
Electricity supply from LDS	212.1	166.7	175.1	173.2	146.2	118.0	108.1	77.3	108.1	218.6	231.3	224.2	1,959.0
Electricity imports (supply from abroad)	17.2	4.8	0.2	0.1	0.2	0.1	11.7	28.5	35.8	46.2	47.5	56.1	248.3
Outflow from DS [GWh]	-6,384.7	-5,915.5	-6,138.2	-5,461.7	-5,212.5	-4,939.5	-4,820.5	-4,819.8	-4,968.1	-5,441.5	-5,905.7	-6,174.8	-66,182.5
Electricity supply to the TSO's network	-32.2	-24.3	-8.3	-16.0	-6.7	-26.6	-69.3	-26.2	-79.3	-55.2	-86.2	-52.3	-482.6
Electricity supply to adjacent regional DSOs	-670.8	-594.5	-634.0	-556.6	-487.5	-488.8	-474.1	-497.2	-511.6	-531.8	-616.6	-678.0	-6,741.6
Electricity export (supply abroad)	-1.4	-12.3	-40.1	-19.3	-25.2	-18.6	-3.3	-0.1	0.0	-0.3	0.0	-0.3	-121.1
Electricity supply to LDS	-621.8	-595.7	-660.0	-614.8	-648.9	-626.2	-617.6	-592.3	-599.7	-637.1	-637.7	-609.3	-7,461.0
Electricity supply to generators (except for PSHE)	-245.6	-232.2	-254.1	-228.0	-230.1	-236.7	-225.7	-249.5	-253.3	-256.3	-252.8	-238.0	-2,902.4
Electricity consumption of PSHE during pumping	-0.3	-0.3	-0.3	-0.2	-0.2	-0.3	-0.2	-0.2	-0.2	-0.5	-5.4	-7.3	-15.4
Electricity supply to HD_C at the EHV level	-135.0	-121.7	-139.6	-133.7	-150.3	-153.7	-135.4	-137.4	-153.2	-139.3	-146.0	-136.0	-1,681.4
Electricity supply to HD_C at the HV level	-1,649.2	-1,569.5	-1,709.8	-1,565.9	-1,602.3	-1,654.4	-1,556.2	-1,542.7	-1,569.6	-1,616.1	-1,676.3	-1,520.6	-19,232.6
Electricity supply to LD_B	-804.8	-746.6	-719.7	-620.2	-581.5	-513.4	-520.6	-537.3	-538.5	-624.7	-692.8	-761.4	-7,661.4
Electricity supply to LD_H	-1,953.4	-1,773.5	-1,723.2	-1,486.5	-1,270.8	-1,023.9	-1,025.6	-1,043.9	-1,064.5	-1,362.1	-1,552.1	-1,913.3	-17,192.9
DSOs' other electricity consumption	-10.8	-9.9	-9.1	-7.1	-5.1	-3.5	-3.4	-3.5	-3.8	-5.9	-8.1	-10.4	-80.6
Total losses in networks	-259.5	-235.2	-240.0	-213.4	-204.0	-193.2	-189.1	-189.3	-194.4	-212.2	-231.6	-247.7	-2,609.7

9.2 Lengths of routes and lines in the TS and RDS

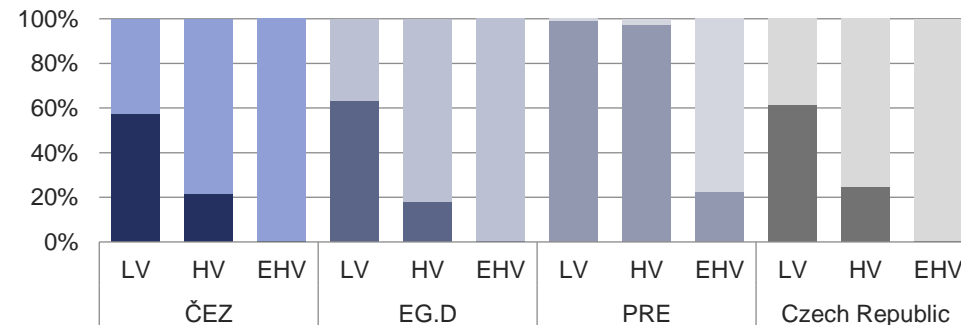
Voltage level [kV]	Length of overhead routes (in geographical terms) [km]					Length of cable lines [km]				
	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
Total	4,447	90,693	34,903	305	130,348	0	72,353	29,516	12,162	114,031
EHV	4,447	5,388	2,380	137	12,352	0	33	14	83	130
400	3,139	0	0	0	3,139	0	0	0	0	0
220	1,263	0	0	0	1,263	0	0	0	0	0
110	45	5,388	2,380	137	7,950	0	33	14	83	130
HV	0	40,127	17,920	90	58,138	0	11,167	4,096	3,823	19,086
35	0	9,783	0	0	9,783	0	1,305	0	0	1,305
22	0	30,208	17,920	90	48,219	0	8,347	4,096	3,823	16,266
10	0	136	0	0	136	0	1,389	0	0	1,389
6	0	0	0	0	0	0	125	0	0	125
5	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	1	0	0	1
LV	0	45,178	14,603	78	59,859	0	61,153	25,406	8,256	94,815

Voltage level [kV]	Length of overhead lines (actual conductors) [km]				
	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
Total	5,703	95,274	37,051	469	138,496
EHV	5,703	9,969	4,048	286	20,006
400	3,795	0	0	0	3,795
220	1,824	0	0	0	1,824
110	84	9,969	4,048	286	14,387
HV	0	40,127	18,401	104	58,632
35	0	9,783	0	0	9,783
22	0	30,208	18,401	104	48,713
10	0	136	0	0	136
6	0	0	0	0	0
5	0	0	0	0	0
3	0	0	0	0	0
LV	0	45,178	14,603	78	59,859

Length of cable and overhead lines [km]



Shares of cable and overhead lines



9.3 Supply points and transformers in the TS and RDS

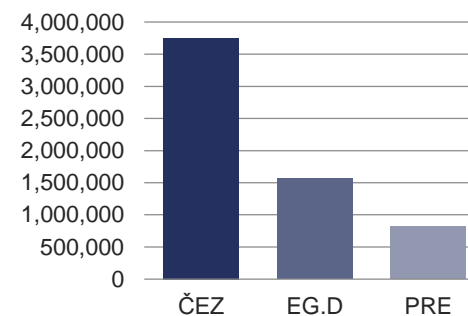
Voltage level [kV]	Number of transformers [-]				
	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
Total	74	48,255	20,100	3,686	72,115
400/220	4	0	0	0	4
400/110	50	0	0	0	50
220/110	20	0	0	0	20
110/HV	0	450	175	60	685
HV/HV	0	83	0	0	83
HV/LV	0	47,722	19,925	3,626	71,273

Voltage level [kV]	Number of supply points by voltage level [-]				
	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
Total	0	3,751,440	1,564,384	823,612	6,139,436
EHV	0	109	35	4	148
400	0	0	0	0	0
220	0	0	0	0	0
110	0	109	35	4	148
HV	0	14,467	7,930	2,092	24,489
35	0	2,919	0	0	2,919
22	0	10,881	7,930	2,092	20,903
10	0	541	0	0	541
6	0	122	0	0	122
5	0	0	0	0	0
3	0	4	0	0	4
LV	0	3,736,864	1,556,419	821,516	6,114,799

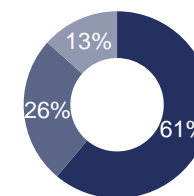
Customer category	Number of supply points by customer category [-]				
	ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
Total	0	3,751,440	1,564,384	823,612	6,139,436
HD_C from EHV	0	109	35	4	148
HD_C from HV	0	14,467	7,930	2,092	24,489
LD_B	0	440,157	183,119	126,151	749,427
LD_H	0	3,296,707	1,373,300	695,365	5,365,372

Transformation capacity [MVA]				
ČEPS	ČEZ Distribuce	EG.D	PREdistribuce	Total
23,100	32,388	11,962	5,289	72,739
2,000	0	0	0	2,000
17,100	0	0	0	17,100
4,000	0	0	0	4,000
0	16,789	5,952	3,067	25,808
0	776	0	0	776
0	14,823	6,010	2,222	23,055

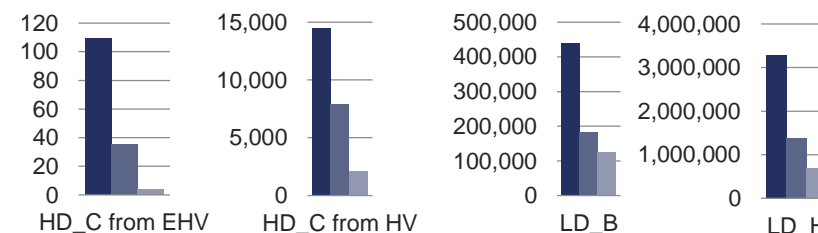
Total number of supply points [-]



RDS's share of the total number of supply points



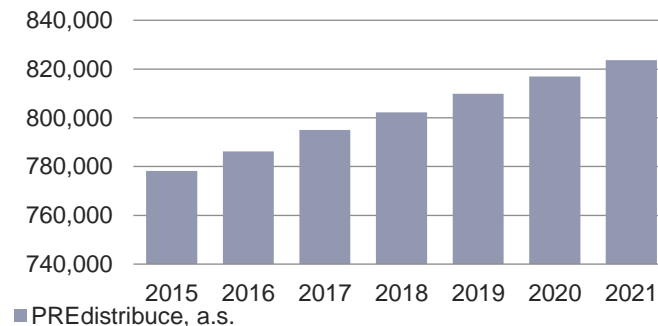
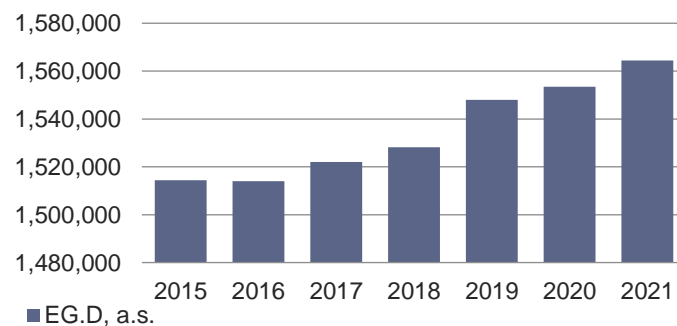
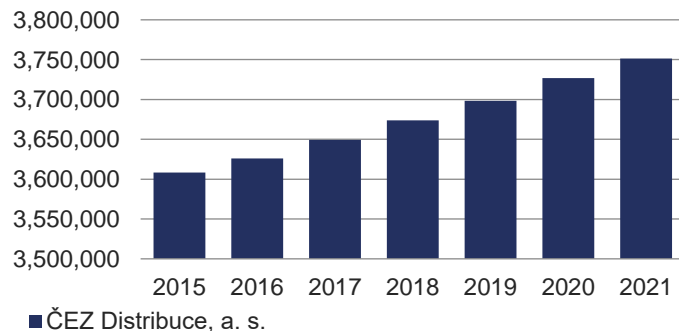
Number of RDS's supply points by customer category



9.4 Key technical details on the TS and RDS

	2013	2014	2015	2016	2017	2018	2019	2020	2021
Number of supply points [-]	5,873,189	5,899,019	5,900,906	5,926,216	5,966,605	6,004,321	6,056,004	6,097,345	6,139,436
ČEPS, a.s.	0	0	0	0	0	0	0	0	0
ČEZ Distribuce, a. s.	3,575,188	3,589,039	3,608,324	3,625,976	3,649,489	3,673,908	3,698,220	3,726,896	3,751,440
EG.D, a.s.	1,532,993	1,541,418	1,514,444	1,513,973	1,522,091	1,528,249	1,547,977	1,553,470	1,564,384
PREdistribuce, a.s.	765,008	768,562	778,138	786,267	795,025	802,164	809,807	816,979	823,612
Length of overhead routes [km]	135,424	136,519	134,889	134,404	133,758	133,115	132,127	131,322	130,348
ČEPS, a.s.	4,402	5,503	4,414	4,496	4,497	4,497	4,433	4,519	4,447
ČEZ Distribuce, a. s.	93,629	93,818	93,494	93,185	92,808	92,421	91,820	91,274	90,693
EG.D, a.s.	37,051	36,862	36,651	36,396	36,136	35,881	35,558	35,223	34,903
PREdistribuce, a.s.	341	336	331	327	318	316	316	307	305
Length of cable lines [km]	100,985	103,032	104,065	104,565	105,827	107,674	109,660	111,816	114,031
ČEPS, a.s.	0	0	0	0	0	0	0	0	0
ČEZ Distribuce, a. s.	62,807	64,332	65,208	65,943	66,919	68,109	69,414	70,828	72,353
EG.D, a.s.	26,608	27,031	27,175	26,894	27,122	27,606	28,191	28,872	29,516
PREdistribuce, a.s.	11,570	11,670	11,682	11,727	11,786	11,960	12,055	12,115	12,162
Length of overhead lines [km]	143,159	143,146	142,796	142,376	141,777	141,238	140,181	139,452	138,496
ČEPS, a.s.	5,503	5,503	5,610	5,717	5,728	5,728	5,601	5,775	5,703
ČEZ Distribuce, a. s.	98,107	98,251	98,003	97,737	97,346	97,025	96,419	95,856	95,274
EG.D, a.s.	39,032	38,880	38,678	38,422	38,212	38,001	37,678	37,350	37,051
PREdistribuce, a.s.	517	512	505	500	491	484	484	471	469
Number of transformers [-]	68,484	69,747	70,111	70,404	70,623	70,999	71,315	71,630	72,115
ČEPS, a.s.	71	72	73	73	74	74	73	75	74
ČEZ Distribuce, a. s.	45,499	46,619	46,871	47,085	47,251	47,491	47,714	47,947	48,255
EG.D, a.s.	19,197	19,352	19,495	19,571	19,640	19,782	19,867	19,935	20,100
PREdistribuce, a.s.	3,717	3,704	3,672	3,675	3,658	3,652	3,661	3,673	3,686
Transformation capacity [MVA]	67,700	69,681	70,036	69,701	70,430	71,336	71,589	72,711	72,739
ČEPS, a.s.	20,380	21,780	21,980	21,980	22,450	22,700	22,550	23,350	23,100
ČEZ Distribuce, a. s.	30,954	31,458	31,628	31,120	31,197	31,642	32,009	32,182	32,388
EG.D, a.s.	11,293	11,378	11,404	11,552	11,643	11,732	11,759	11,899	11,962
PREdistribuce, a.s.	5,073	5,064	5,024	5,049	5,140	5,262	5,271	5,280	5,289

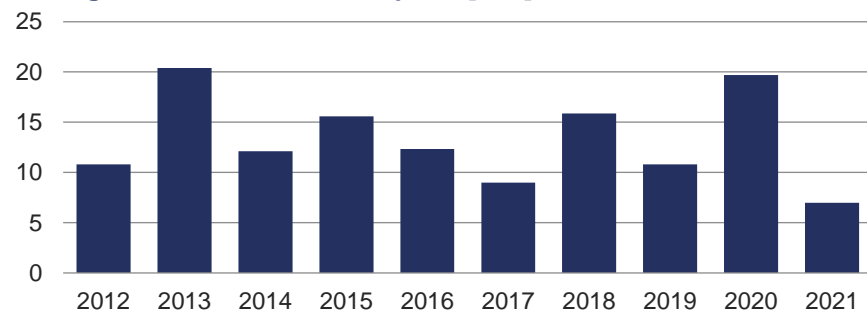
Number of supply points [-]



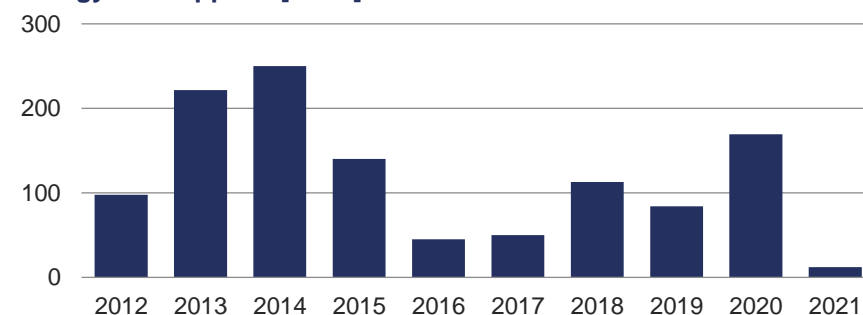
9.5 Development in the electricity supply quality

Transmission continuity indicators, ČEPS, a.s.	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Number of electricity transmission interruptions in the year [-]	5	9	10	7	3	4	8	9	7	1
Total duration of electricity transmission interruptions in the year [min]	54	184	121	109	37	36	127	97	138	7
Average duration of an electricity transmission interruption in the year [min]	11	20	12	16	12	9	16	11	20	7
Electrical energy not supplied in the year [MWh]	98	222	250	140	45	50	113	84	169	12

Average duration of an interruption [min]

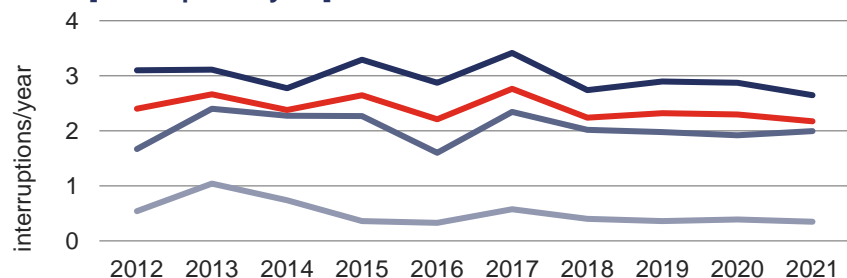


Energy not supplied [MWh]

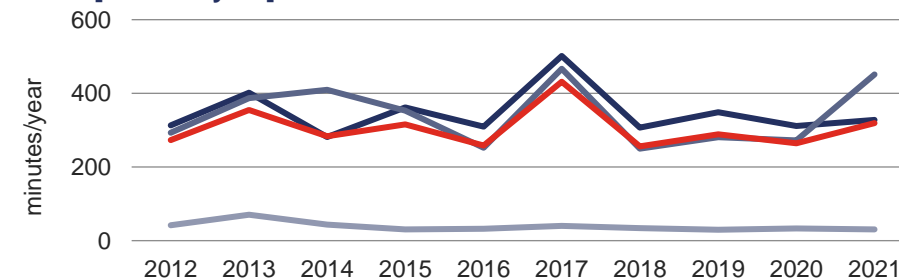


Distribution continuity indicators	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
SAIFI [interruptions/year]	2.40	2.66	2.38	2.64	2.21	2.76	2.24	2.32	2.30	2.17
ČEZ Distribuce	3.10	3.11	2.77	3.29	2.87	3.41	2.74	2.90	2.87	2.65
EG.D	1.67	2.40	2.27	2.27	1.60	2.34	2.01	1.97	1.92	1.99
PREdistribuce	0.54	1.04	0.74	0.36	0.33	0.57	0.40	0.36	0.39	0.35
SAIDI [minutes/year]	272.65	354.76	283.22	316.06	258.29	431.45	256.05	288.73	264.30	319.30
ČEZ Distribuce	313.04	402.00	281.42	361.72	309.64	501.47	307.09	348.52	311.60	327.57
EG.D	293.05	386.66	409.30	352.90	252.14	466.68	249.79	281.20	272.42	451.42
PREdistribuce	42.12	70.38	43.37	30.93	32.52	40.34	34.06	29.61	32.92	30.18
CAIDI [minutes]	113.77	133.47	119.21	119.52	116.96	156.18	114.33	124.38	115.15	147.01
ČEZ Distribuce	101.08	129.13	101.55	109.86	107.86	146.88	112.26	120.35	108.47	123.80
EG.D	175.40	161.28	180.30	155.54	157.56	199.17	123.98	142.48	142.22	226.35
PREdistribuce	78.52	67.79	58.73	86.20	99.34	70.21	85.40	81.87	85.27	86.36

SAIFI [interruptions/year]



SAIDI [minutes/year]



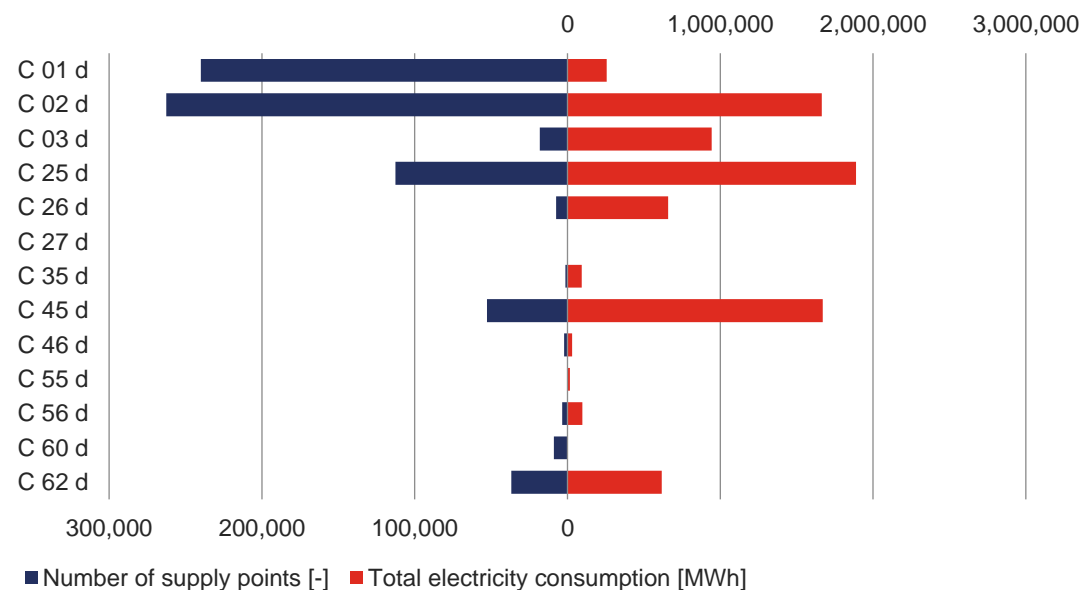
System indicators are defined in Schedule 5 to Public Notice 540/2005, as amended, and include all interruption categories under Schedule 4 to the same public notice.

Data sources: Returns related to quality (DSOs) and quality reports (TSO)

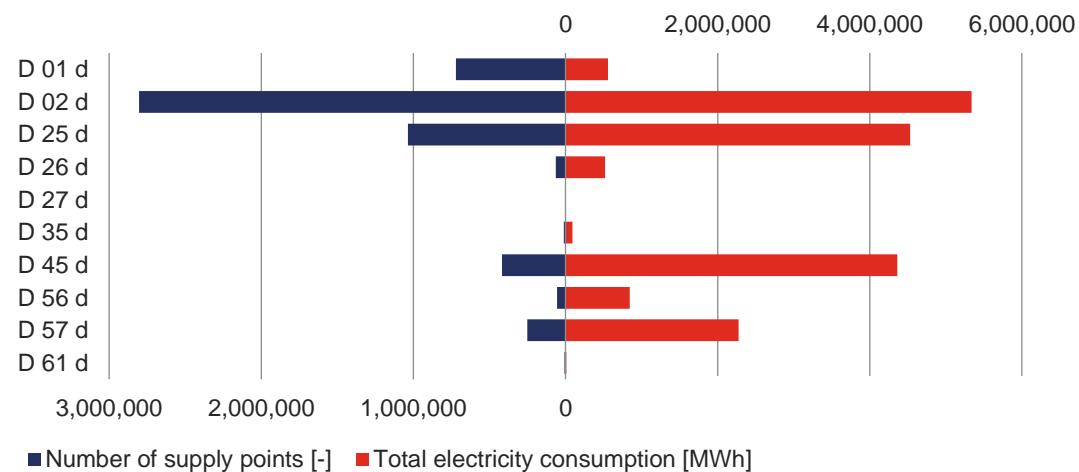
9.6 Tariff statistics

	Number of supply points	Electricity consumption at the high rate	Electricity consumption at the low rate	Total electricity consumption
	[-]	[MWh]	[MWh]	[MWh]
LD_B	746,434	5,472,820	2,464,199	7,937,019
C 01 d	239,869	257,310	-	257,310
C 02 d	262,670	1,663,962	-	1,663,962
C 03 d	18,061	943,400	-	943,400
C 25 d	112,619	1,218,587	669,406	1,887,993
C 26 d	7,512	454,961	203,462	658,422
C 27 d	123	661	226	887
C 35 d	1,433	33,436	60,219	93,656
C 45 d	52,585	271,496	1,399,033	1,670,529
C 46 d	2,095	3,044	27,970	31,014
C 55 d	397	1,055	14,419	15,474
C 56 d	3,504	7,395	89,464	96,859
C 60 d	8,843	-	-	-
C 62 d	36,723	617,514	-	617,514
LD_H	5,363,859	9,169,770	9,373,078	18,542,848
D 01 d	719,625	557,279	-	557,279
D 02 d	2,803,245	5,340,213	-	5,340,213
D 25 d	1,035,750	2,319,616	2,210,935	4,530,551
D 26 d	62,760	163,145	358,306	521,451
D 27 d	893	2,239	1,714	3,953
D 35 d	11,260	22,180	71,182	93,362
D 45 d	417,008	408,940	3,954,762	4,363,701
D 56 d	56,197	59,653	785,682	845,335
D 57 d	250,232	292,441	1,984,978	2,277,419
D 61 d	6,889	4,064	5,521	9,585

Low demand customers, businesses (LD_B)



Low demand customers, households (LD_H)



Note: The tariff statistics in chapters 9.6 and 9.7 have been compiled from regulatory reports under Section 20 of Act No 458/2000, the Energy Act, as amended, and include only the three largest regional distribution systems. The numbers of supply points relate to 31 December of the respective year and include electricity producers' delivery points that do not have to be supply points. The consumption data shows the billed electricity quantities accepted from the documents issued in the respective year and therefore does not match the consumption data in the other chapters of the Report.

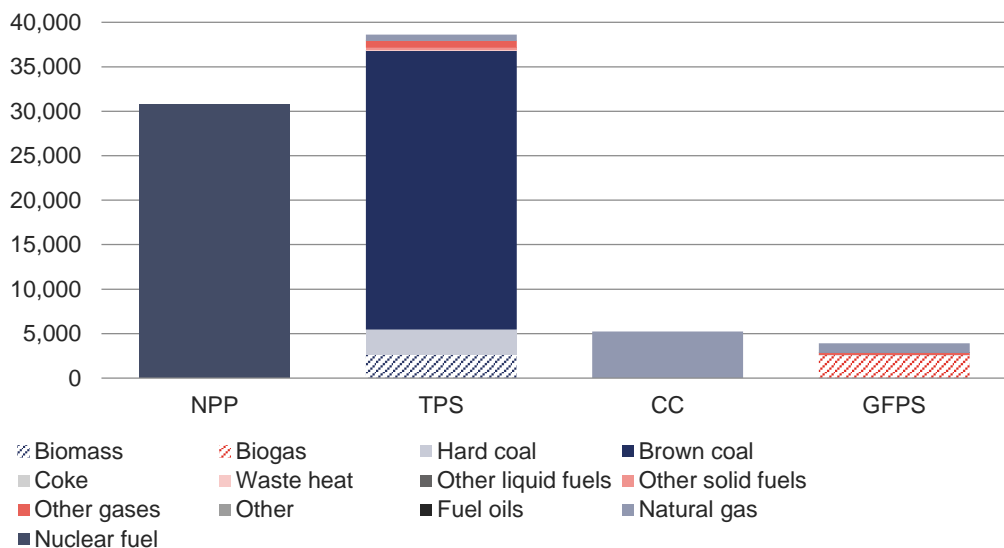
Electricity consumption at the low rate [MWh]										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
LD_B	2,611,664	2,681,823	2,520,295	2,633,506	2,551,484	2,730,962	2,703,119	2,563,437	2,394,392	2,464,199
C 25 d	862,414	843,730	763,016	769,127	710,446	732,081	714,257	682,792	642,447	669,406
C 26 d	311,764	298,722	274,207	268,284	237,197	229,467	224,776	203,500	199,183	203,462
C 27 d	0	0	0	5	30	88	107	108	153	226
C 35 d	91,719	89,762	80,426	78,947	74,163	73,275	69,667	66,371	60,118	60,219
C 45 d	1,291,875	1,388,543	1,343,368	1,450,827	1,462,026	1,617,787	1,608,802	1,515,140	1,387,089	1,399,033
C 46 d	0	0	0	0	0	379	5,123	12,283	19,336	27,970
C 55 d	20,465	20,383	17,976	17,585	17,193	17,581	16,699	14,969	14,209	14,419
C 56 d	33,426	40,684	41,302	48,732	50,429	60,304	63,687	68,274	71,857	89,464
LD_H	6,853,623	7,036,042	6,656,829	6,823,513	6,895,894	7,590,486	7,632,681	7,797,621	7,997,057	9,373,078
D 25 d	2,406,065	2,355,112	2,283,851	2,266,951	2,104,472	2,241,479	2,173,201	2,111,847	2,065,505	2,210,935
D 26 d	478,475	474,551	419,002	403,021	392,766	399,863	371,868	351,511	332,003	358,306
D 27 d	0	0	11	38	95	157	315	523	894	1,714
D 35 d	78,476	78,928	73,076	72,990	72,823	75,339	71,528	68,905	66,137	71,182
D 45 d	3,471,269	3,621,256	3,367,239	3,484,972	3,647,077	3,922,811	3,740,183	3,640,764	3,539,094	3,954,762
D 55 d	105,784	107,969	94,321	95,238	73,083	0	0	0	0	0
D 56 d	309,273	393,753	414,913	495,777	584,118	736,724	713,328	699,332	686,928	785,682
D 57 d	0	0	0	0	16,705	209,100	557,437	919,968	1,301,573	1,984,978
D 61 d	4,281	4,473	4,416	4,525	4,755	5,013	4,822	4,770	4,923	5,521

Total electricity consumption [MWh]										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
LD_B	8,663,302	8,636,817	8,238,304	8,449,777	8,031,009	8,408,795	8,523,269	8,130,957	7,689,668	7,937,019
C 01 d	234,405	236,695	225,236	227,916	226,630	244,709	252,724	239,404	240,962	257,310
C 02 d	1,837,416	1,801,538	1,715,055	1,722,564	1,633,430	1,712,828	1,728,550	1,682,633	1,592,609	1,663,962
C 03 d	936,809	937,020	911,469	945,771	898,090	950,696	982,967	990,554	922,784	943,400
C 25 d	2,220,855	2,171,490	2,026,307	2,079,780	1,936,462	1,996,591	1,988,123	1,920,456	1,809,752	1,887,993
C 26 d	1,023,601	977,925	901,762	878,761	777,642	747,391	734,694	673,474	644,558	658,422
C 27 d	0	0	0	7	102	358	427	489	611	887
C 35 d	139,445	138,669	124,515	122,118	115,528	114,038	108,475	103,756	93,926	93,656
C 45 d	1,531,683	1,646,929	1,599,869	1,738,714	1,749,571	1,929,854	1,922,416	1,811,569	1,660,056	1,670,529
C 46 d	0	0	0	0	0	514	6,081	13,834	21,477	31,014
C 55 d	21,739	21,682	19,194	18,754	18,374	18,846	17,918	16,012	15,235	15,474
C 56 d	35,868	43,839	44,225	52,345	54,163	64,831	68,685	73,681	77,627	96,859
C 60 d	-	-	-	-	-	-	-	-	-	-
C 61 d	-	-	-	-	-	-	-	-	-	-
C 62 d	681,480	661,028	670,672	663,047	621,018	628,137	712,209	605,093	610,072	617,514
LD_H	15,026,449	15,166,887	14,613,458	14,791,132	14,947,149	15,700,657	15,729,173	15,939,707	16,203,976	18,542,848
D 01 d	357,698	360,992	362,284	375,096	397,517	436,229	448,543	468,169	490,268	557,279
D 02 d	5,111,559	5,064,501	4,942,034	4,905,097	4,934,262	4,895,640	4,853,598	4,857,278	4,846,602	5,340,213
D 25 d	4,583,590	4,515,605	4,400,296	4,393,752	4,240,711	4,384,708	4,290,855	4,213,933	4,160,522	4,530,551
D 26 d	652,099	644,312	580,887	563,338	550,727	558,345	525,689	502,760	480,054	521,451
D 27 d	0	5	27	119	243	375	725	1,200	1,999	3,953
D 35 d	99,373	100,412	93,699	93,708	93,505	96,337	92,266	89,300	86,201	93,362
D 45 d	3,770,533	3,935,588	3,679,742	3,816,127	3,987,898	4,277,407	4,091,703	3,994,456	3,897,654	4,363,701
D 55 d	111,691	114,101	99,868	101,015	77,582	0	0	0	0	0
D 56 d	333,582	424,708	448,053	535,975	629,686	790,584	766,196	751,570	738,672	845,335
D 57 d	0	0	0	0	27,738	253,138	651,850	1,053,272	1,493,665	2,277,419
D 61 d	6,323	6,663	6,568	6,905	7,282	7,895	7,747	7,769	8,339	9,585

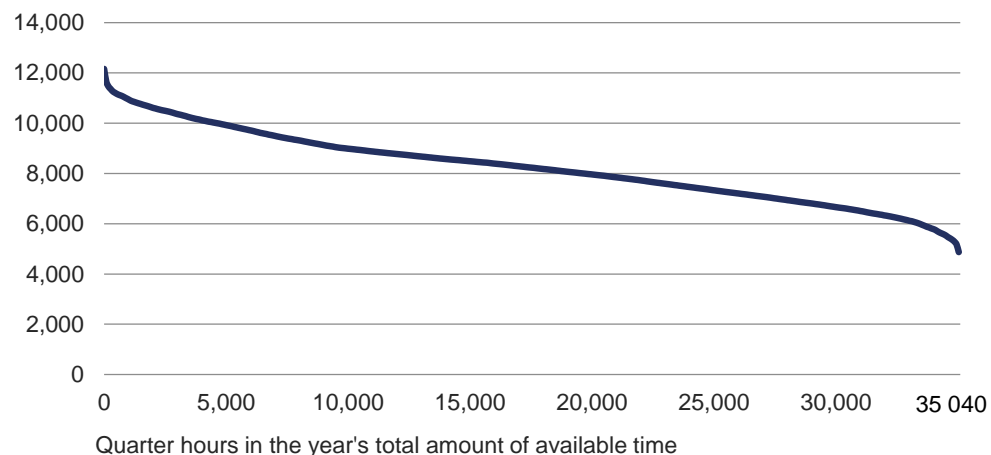
Note: The tariff statistics in chapters 9.6 and 9.7 have been compiled from regulatory reports under Section 20 of Act No 458/2000, the Energy Act, as amended, and include only the three largest regional distribution systems. The numbers of supply points relate to 31 December of the respective year and include electricity producers' delivery points that do not have to be supply points. The consumption data shows the billed electricity quantities accepted from the documents issued in the respective year and therefore does not match the consumption data in the other chapters of the Report.

10 ADDITIONAL GRAPHS, AND ELECTRICAL ENERGY BALANCE DIAGRAM

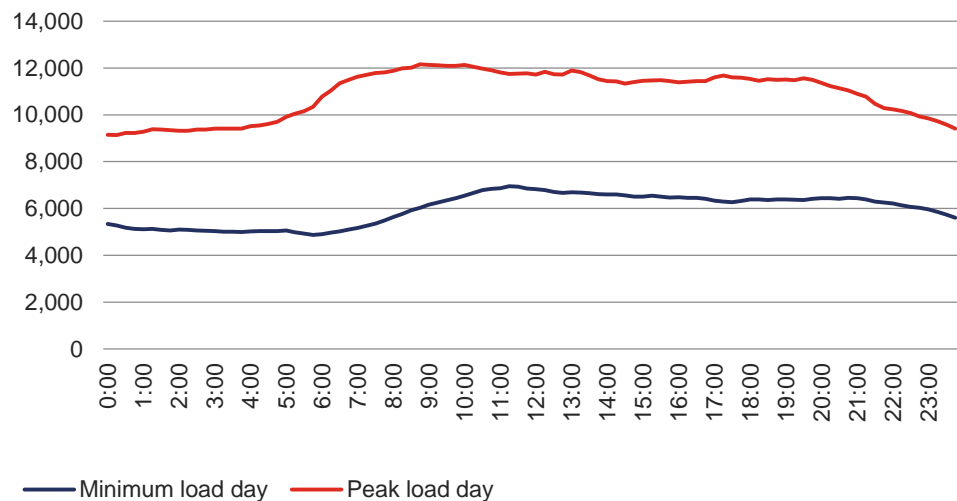
Fuels used in gross electricity generation [GWh]



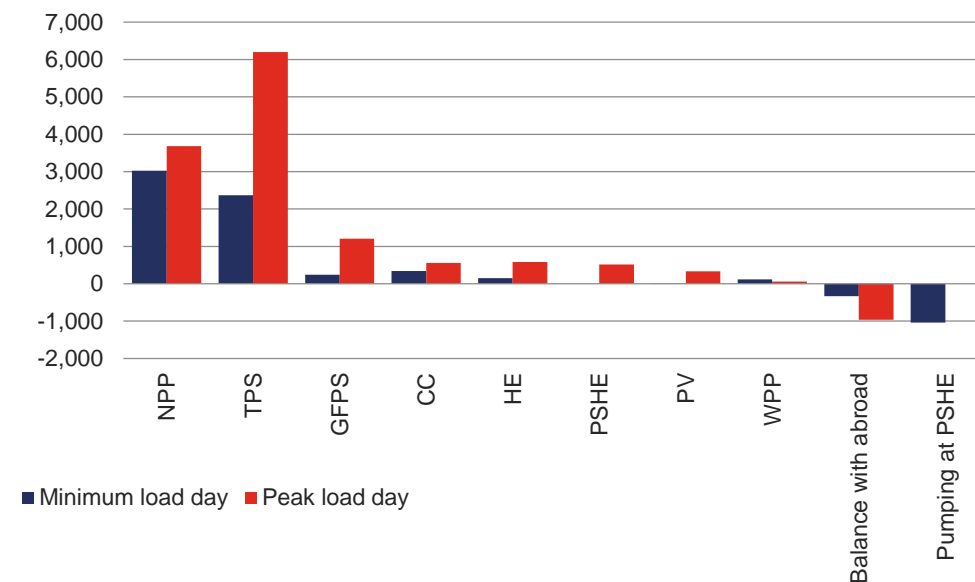
Gross load factor curve [MW]



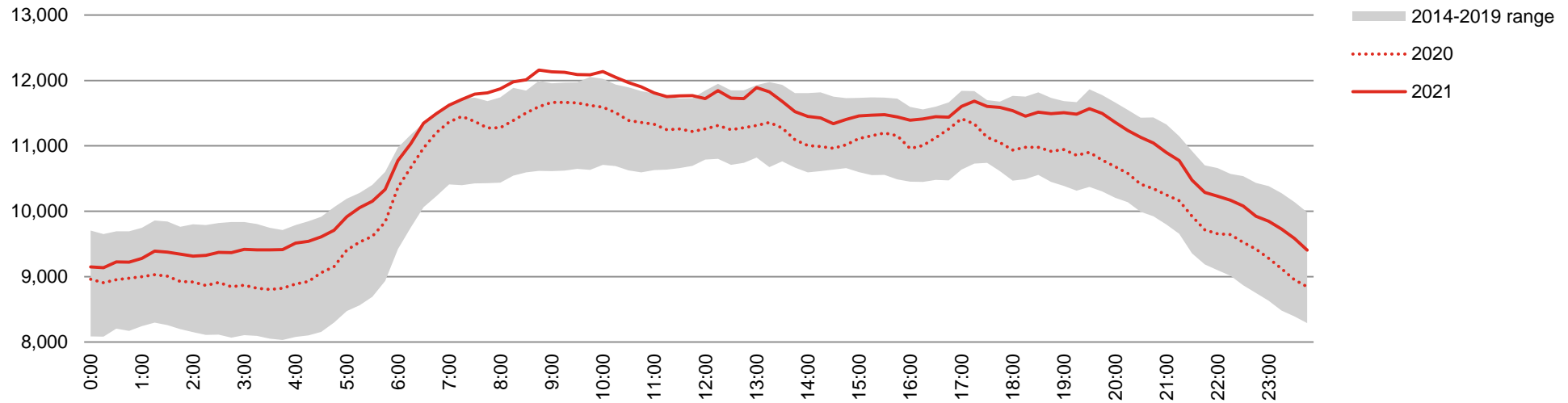
Gross consumption on peak and minimum load days [MWh]



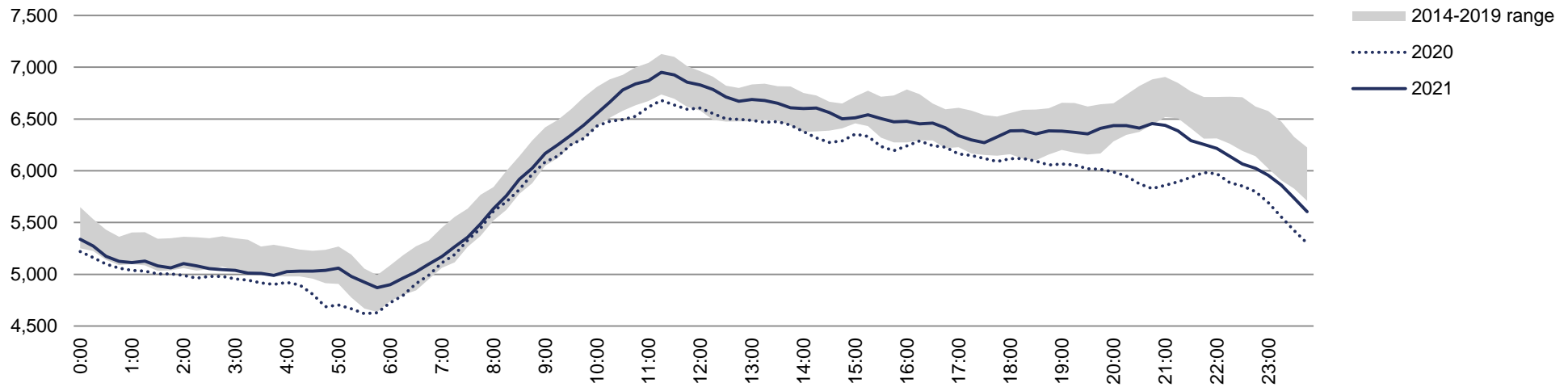
Structure of meeting the daily peak and minimum loads [MW]



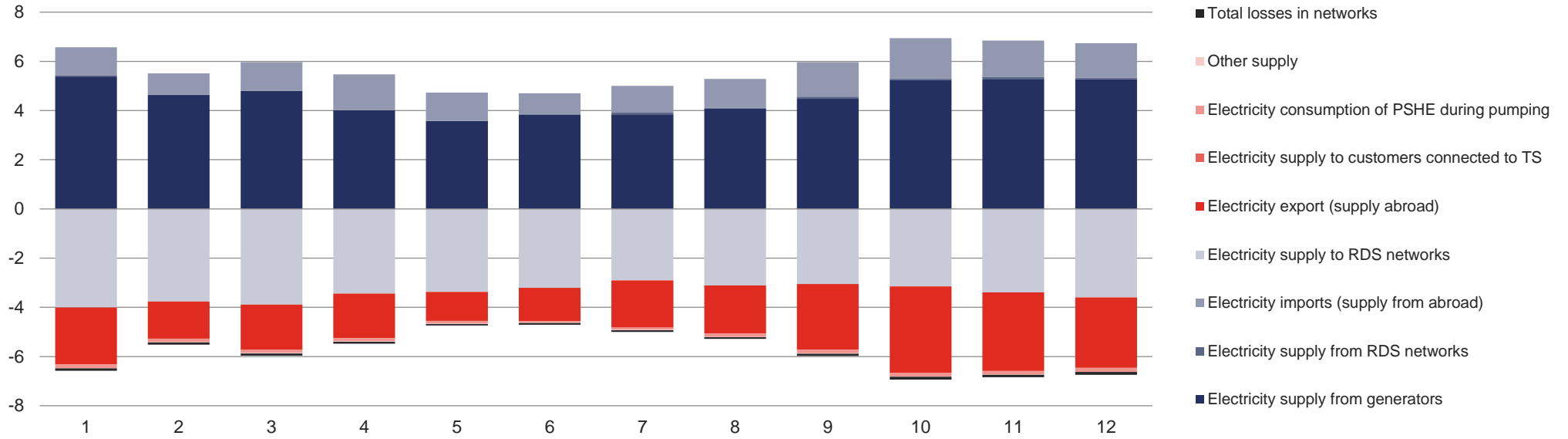
Gross consumption on the days of annual peak [MW]



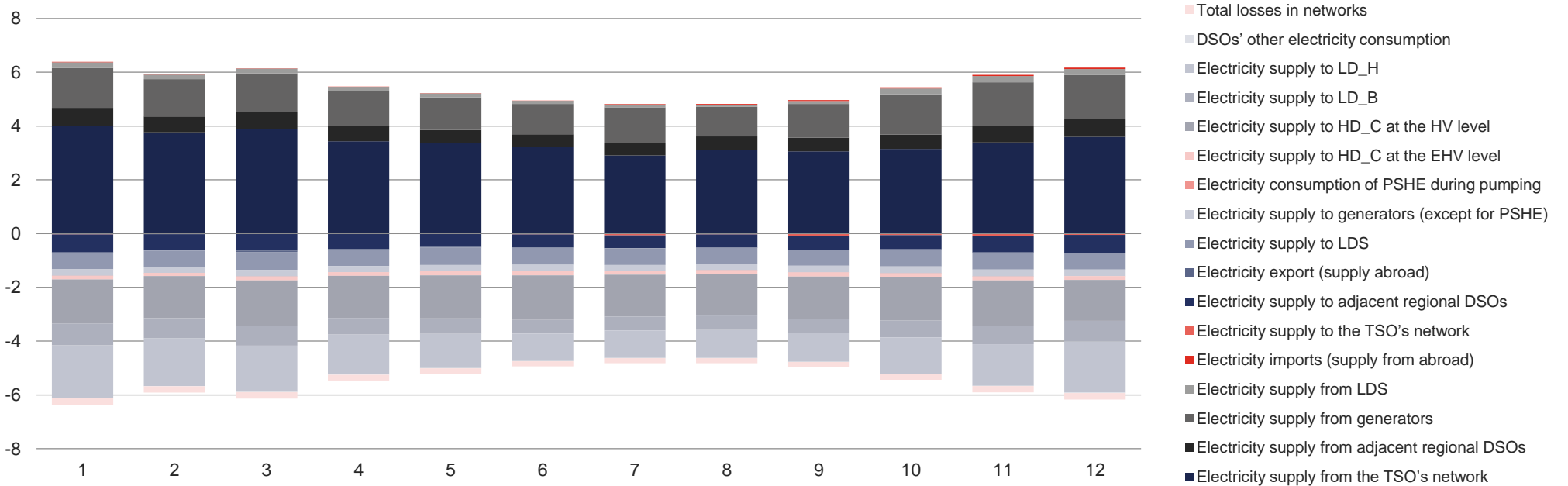
Gross consumption on the days of annual minimum [MW]



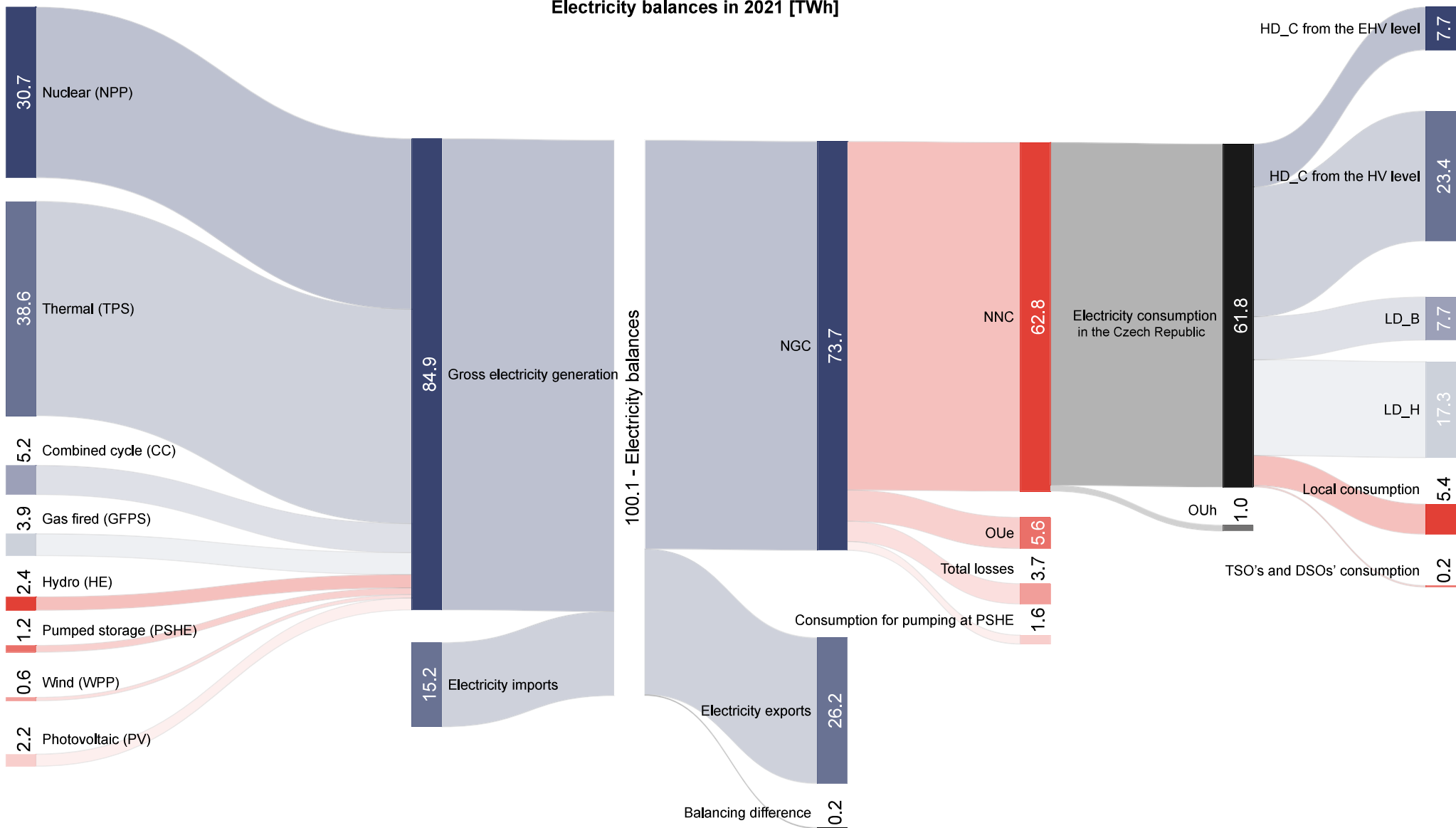
Physical flows in the transmission system [TWh]



Physical flows in the regional distribution systems [TWh]



Electricity balances in 2021 [TWh]



Statistics and Quality Monitoring Unit

elektro.statistika@eru.cz

Released on 21 June 2022



Energy Regulatory Office

Masarykovo náměstí 91/5, 586 01 Jihlava

+420 564 578 666

podatelna@eru.cz

ERO mailbox ID eeuaau7

www.eru.cz

© 2022

Energy Regulatory Office