

Energy management and gas supply system in Poland in 2019

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0.3 %

An increase in consumption of gas from gas supply system per capita in urban areas

In Poland in 2019, consumption of gas from gas supply system per capita in urban areas increased by 4.1 kWh (by 0.3 %) and amounted to 1,557 kWh.

Gas supply system

In 2019, gas supply network in Poland reached the length of 157.9 thousand km (of which 136.6 thousand km accounted for distribution network). Compared to the previous year, it was noted the total length of gas supply network increased by 3.5 thousand km (by 2.3 %), while the number of connections in this period increased by 111 thousand pcs. (by 3.8 %).

Compared to 2018, the length of gas supply network increased by 2.3 %

Table 1. Gas supply network, consumers, and consumption of gas from gas supply system in households

Specification	2018	2017 = 100	2019	2018 = 100
Gas supply network in km (as of 31 December)	154 380	101.4	157 868	102.3
urban areas	63 955	101.4	65 551	102.5
rural areas	90 425	101.4	92 317	102.1
Connections leading to residential and non-residential buildings in thousand pcs. (as of 31 December)	2 937.1	102.3	3 048.1	103.8
urban areas	1 728.3	102.1	1 793.9	103.8
rural areas	1 208.8	102.7	1 254.2	103.8
Consumers of gas from gas supply system in thousands (as of 31 December) ^{a)}	7 810	104.1	7 957	101.9
urban areas	6 721	104.1	6 799	101.2
rural areas	1 089	103.8	1 158	106.3
Consumption of gas from gas supply system (during the year) in GWh	46 903.3	99.7	47 855.3	102.0
urban areas	35 868.0	99.1	35 898.7	100.1
rural areas	11 035.3	101.7	11 956.5	108.3
Consumption of gas from gas supply system (during the year) per capita in kWh	1 221.0	99.8	1 246.7	102.1
urban areas	1 553.0	99.3	1 557.1	100.3
rural areas	720.4	101.6	779.8	108.2
Consumption of gas from gas supply system (during the year) per consumer in kWh ^{a)}	6 005.3	95.8	6 014.1	100.1
urban areas	5 336.7	95.2	5 279.8	98.9
rural areas	10 130.6	97.9	10 325.6	101.9

a) Data regarding the number of consumers of gas from gas supply system (households) were revised and differ from data published in 2019.

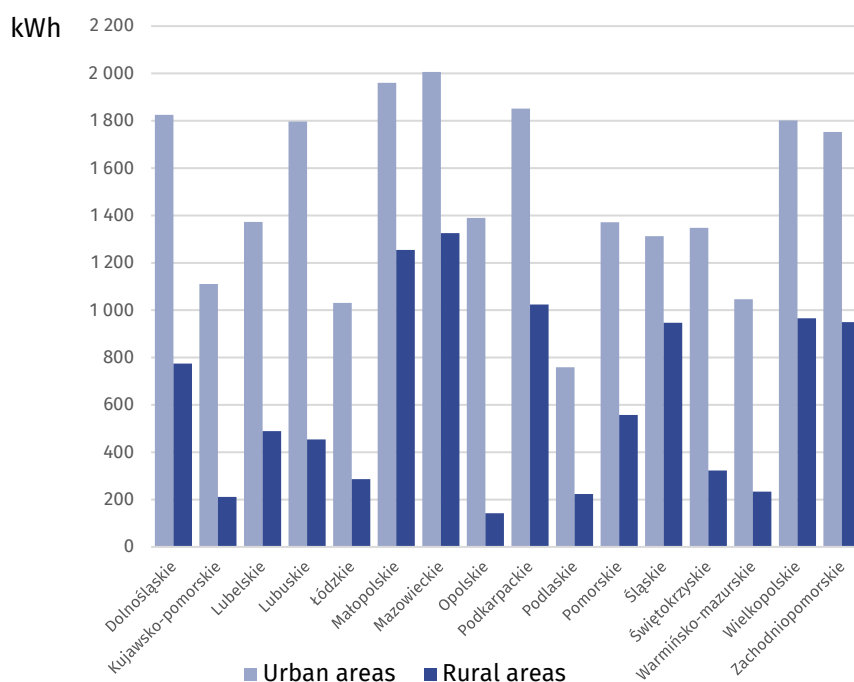
The length of gas distribution network in urban areas in 2019 increased by 1.5 thousand km (by 2.5 %) and reached 62.3 thousand km, while in rural areas – by 1.9 thousand km (by 2.6 %) and amounted to 74.3 thousand km.

The consumption of gas from gas supply system by households in Poland in 2019 rose by 2.0 %, compared to 2018, with a simultaneous increase in the number of consumers of 1.9 %. In urban areas there was a 0.1 % increase in consumption of gas together with a rise in the number of consumers of 1.2 %. In rural areas there was noted an increase in gas consumption – of 8.3 %, whereas the number of consumers rose by 6.3 %.

Compared to 2018, consumption of gas from gas supply system increased by 951.9 GWh and amounted to 6,014 kWh per consumer, however in urban areas it was 5,280 kWh per consumer, and in rural areas – 10,326 kWh per consumer.

Consumption of gas from gas supply system in households increased by 2.0 %, compared to 2018

Chart 1. Consumption of gas from gas supply system in households per capita in 2019



Consumption of electricity in households

In 2019, household consumption of electricity in Poland decreased by 0.1 % compared to 2018 and amounted to 17,936 GWh, with simultaneous increase in the number of consumers (households) of 1.5 %.

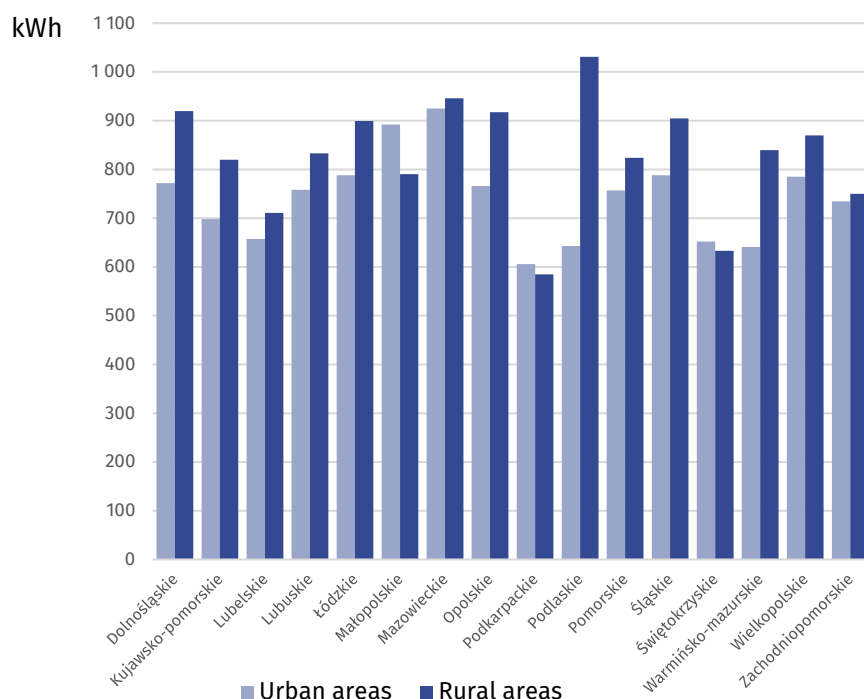
In 2019, household consumption of electricity per consumer decreased by 0.9 %, compared to the previous year

Table 2. Consumers and households consumption of electricity

Specification	2018	2017 = 100	2019	2018 = 100
Consumption of electricity (during the year) in GWh	30 506.2	100.6	30 613.2	100.4
urban areas	17 953.4	99.8	17 936.0	99.9
rural areas	12 552.8	101.7	12 677.1	101.0
Consumers of electricity in thousands (as of 31 December)	15 398	101.3	15 588	101.2
urban areas	10 244	101.3	10 400	101.5
rural areas	5 154	101.2	5 188	100.7
Consumption of electricity (during the year) per consumer (household) in kWh	1 981.2	99.3	1 963.9	99.1
urban areas	1 752.7	98.5	1 724.6	98.4
rural areas	2 435.5	100.5	2 443.7	100.3
Consumption of electricity (during the year) per capita in kWh	794.2	100.6	797.5	100.4
urban areas	777.4	100.0	778.0	100.1
rural areas	819.5	101.5	826.8	100.9

In 2019, compared to the previous year household consumption of electricity per consumer (household) in Poland decreased by 0.9 % and amounted to 1,963.9 kWh, however in urban areas the consumption decreased by 1.6 % (1,724.6 kWh per consumer), and in rural areas there was an increase of 0.3 % (2,443.7 kWh per consumer).

Chart 2. Consumption of electricity per capita in households in 2019



Heat supply system

The length of heat supply system in total as of the end of 2019 amounted to 25 251 km, of which the length of heat transmission and distribution network was 16 381 km, and the length of connections to buildings was 8 869 km.

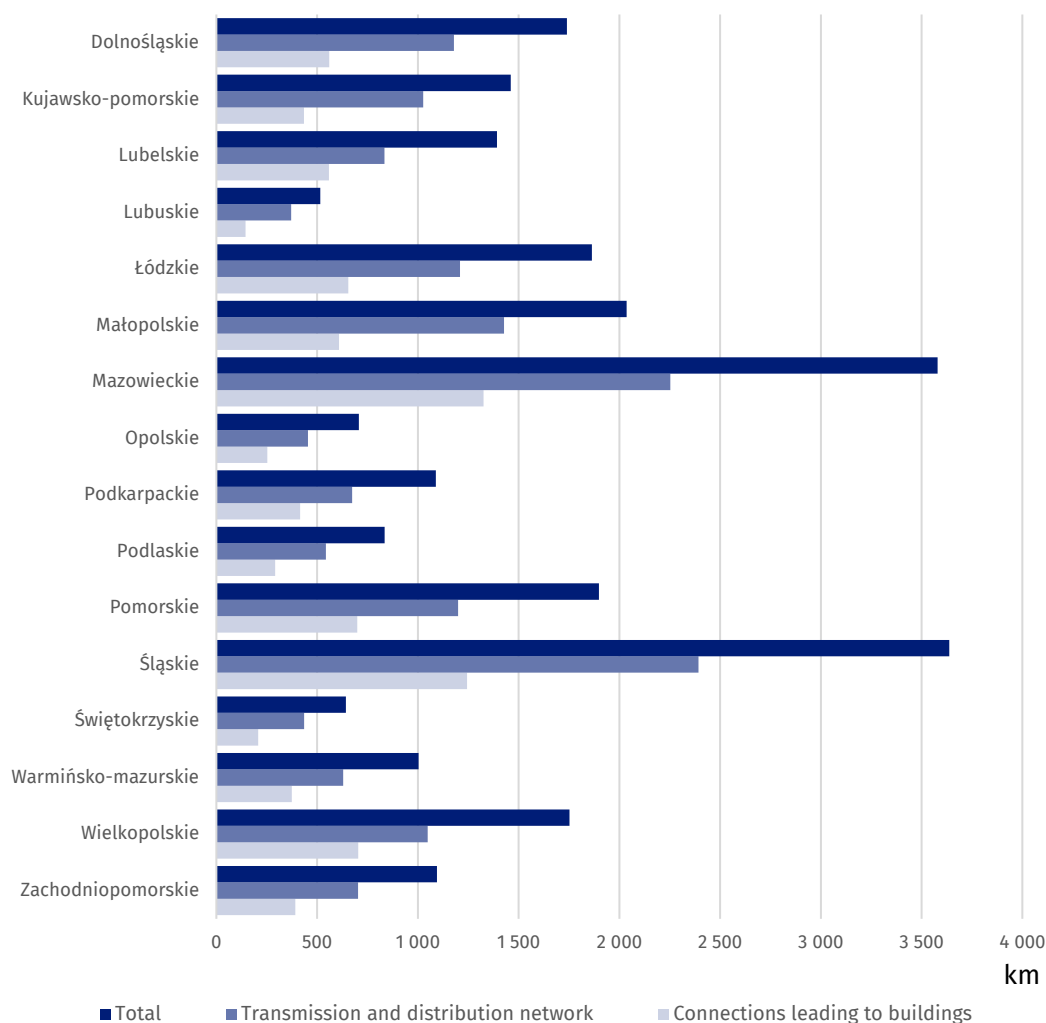
The highest density of heat supply system was observed in the areas of voivodships: Śląskie (29.5 km per 100 km²), Małopolskie (13.4 km per 100 km²), Pomorskie (10.4 km per 100 km²), Łódzkie (10.2 km per 100 km²), and Mazowieckie (10.1 km per 100 km²), while the lowest – in Lubuskie (3.7 km per 100 km²), Podlaskie (4.1 km per 100 km²), Warmińsko-mazurskie (4.2 km per 100 km²), and Zachodniopomorskie (4.8 km per 100 km²).

Heat supply system in Poland in 2019 reached the length of over 25 thousand km and the density of 8.1 km per 100 km²

Table 3. Heat supply system infrastructure and sale of heat energy

Specification	2018	2017 = 100	2019	2018 = 100
Heat supply network (total) in km (as of 31 December)	25 219.2	99.8	25 250.6	100.1
urban areas	23 986.4	100.1	24 118.9	100.6
rural areas	1 232.8	97.2	1 131.7	91.8
Heat supply network (transmission and distribution) in km (as of 31 December)	16 296.0	99.5	16 381.2	100.5
urban areas	15 518.0	99.5	15 649.2	100.8
rural areas	778.0	98.1	732.0	94.1
Connection to buildings in km (as of 31 December)	8 923.2	100.8	8 869.4	99.4
urban areas	8 468.4	101.1	8 469.7	100.0
rural areas	454.8	95.6	399.7	87.9
Sale of heat energy (during the year) in thousand TJ	194.5	94.8	191.2	98.3
urban areas	191.7	95.1	188.4	98.3
rural areas	2.8	81.7	2.7	97.6
Sale of heat energy for residential buildings (during the year) in thousand TJ	149.8	94.6	148.6	99.2
urban areas	148.1	94.8	146.8	99.1
rural areas	1.6	75.5	1.7	105.0

Chart 3. The length of heat supply system in 2019



In 2019, about 191.2 thousand TJ of heat energy was sold, of which 148.6 thousand TJ (77.7 %) for heating purposes in residential buildings. About 188.4 thousand TJ (98.6 %) of heat energy was sold to inhabitants of urban areas, of which approximately 146.8 thousand TJ for heating purposes in residential buildings.

More than 98 % of heat energy was sold to inhabitants of urban areas

The largest amount of heat energy for heating purposes was generated using solid fuel (73.84 %), followed by gas (25.13 %), and oil fuels (1.03 %).

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Terms used in official statistics

[Gas transmission network](#)

[Gas supply distribution network](#)

[Gas supply connection](#)

[Gas recipient](#)

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[Distribution thermic-line](#)

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