

Municipal infrastructure - energy and gas in 2024

16.09.2025


2.1%

Increase in the household consumption of electricity

In 2024, the consumption of electricity in households increased by 2.1% compared to 2023 and the consumption of gas from the network by 0.9%. Sale of heat energy to residential buildings decreased by 2.7%.

Electricity

At the end of 2024, household consumption of electricity in Poland amounted to 30,401.0 GWh, and the number of consumers was 16,596 thousands. Compared to the previous year, electricity consumption per 1 consumer (household) in Poland increased by 0.7% and amounted to 1,831.8 kWh, whereas in urban areas – 1,611.5 kWh and in rural areas – 2,269.1 kWh.

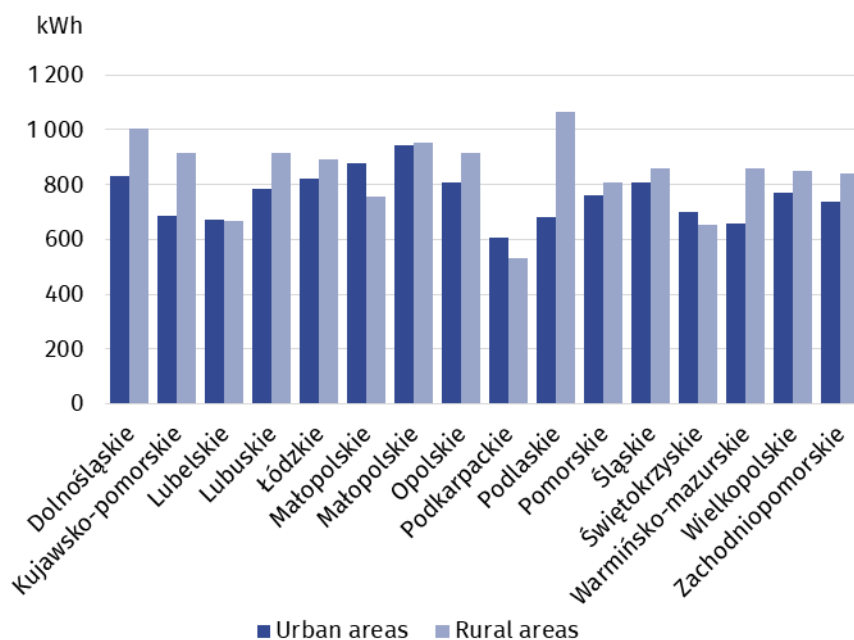
The number of electricity consumers increased by 1.4% over the year

Table 1. Consumers and household consumption of electricity

Specification	2023		2024	
	total	2022=100	total	2023=100
Consumption of electricity in GWh ^a	29,774.5	99.0	30,401.0	102.1
urban areas	17,507.5	98.0	17,783.7	101.6
rural areas	12,267.1	100.5	12,617.3	102.9
Consumers of electricity in thousands ^b	16,361	100.6	16,596	101.4
urban areas	10,863	100.3	11,036	101.6
rural areas	5,498	101.0	5,561	101.1
Consumption of electricity per consumer in kWh ^a	1,819.9	98.5	1,831.8	100.7
urban areas	1,611.7	97.7	1,611.5	100.0
rural areas	2,231.2	99.5	2,269.1	101.7
Consumption of electricity per capita in kWh ^a	789.8	99.4	809.3	102.5
urban areas	780.0	98.6	796.0	102.1
rural areas	804.3	100.6	828.9	103.1

a. During the year b. As of 31 December

Chart 1. Household consumption of electricity per capita in 2024



Heat energy

At the end of 2024 the length of the heat supply network amounted to 25,910.1 km, of which 96.1% was located in urban areas. The highest density of heat supply network (transmission and distribution) was observed in the following voivodships: Śląskie (20.1 km per 100 km²), Małopolskie (9.1 km per 100 km²), Pomorskie (7.1 km per 100 km²), Łódzkie (6.9 km per 100 km²) and Mazowieckie (6.6 km per 100 km²). The lowest density – in the following voivodships: Warmińsko-Mazurskie (2.7 km per 100 km²), Podlaskie and Lubuskie (2.8 km per 100 km²).

The length of heat supply network has increased by 191.3 km compared to 2023

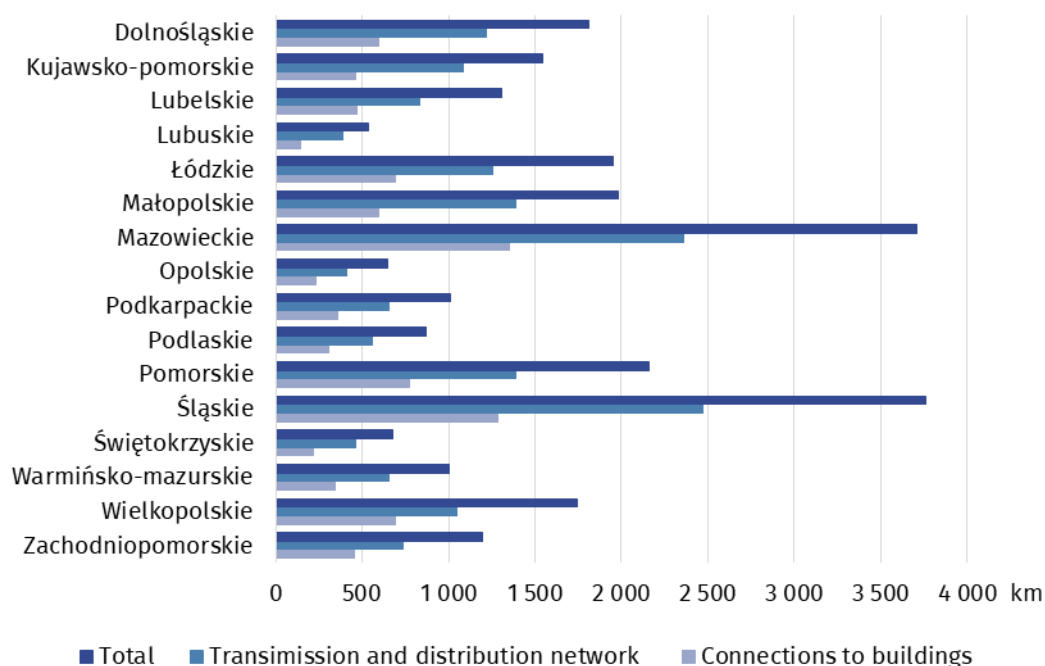
Table 2. Heat supply system infrastructure

As of December 31

Specification	2023		2024	
	total	2022=100	total	2023=100
Heat supply network in km	25,718.8	101.0	25,910.1	100.7
urban areas	24,693.2	101.0	24,900.5	100.8
rural areas	1,025.5	99.7	1,009.6	98.4
Heat supply network (transmission and distribution) in km	16,796.2	100.7	16,923.3	100.8
urban areas	16,133.0	100.7	16,266.8	100.8
rural areas	663.2	100.2	656.5	99.0
Connections to buildings in km	8,922.5	101.5	8,986.8	100.7
urban areas	8,560.2	101.6	8,633.7	100.9
rural areas	362.3	98.9	353.1	97.5

Chart 2. The length of heat supply network

As of December 31



In 2024, 180.5 PJ of heat energy was sold of which 141.7 PJ (78.5%) for heating purposes in residential buildings. About 178.0 PJ (98.6%) of heat energy was sold to inhabitants of urban areas, of which 140.3 PJ for heating purposes in residential buildings.

Solid fuels dominate in the production of heat energy for heating purposes, while gaseous fuels also play a significant role

Table 3. Sale of heat energy

Specification	2023		2024	
	total	2022=100	total	2023=100
Sale of heat energy in PJ ^a	184.4	95.1	180.5	97.9
urban areas	181.9	95.0	178.0	97.9
rural areas	2.6	96.1	2.5	96.2
Sale of heat energy for residential buildings in PJ ^a	145.6	96.0	141.7	97.3
urban areas	144,2	96.0	140.3	97.3
rural areas	1.5	93.4	1.4	93.3

a During the year

Gas supply system

As of the end of 2024 gas supply network in Poland reached the length of 176.6 thousand km, the number of connections to buildings amounted to 3.556.4 thousand pcs. Compared to the previous year, the length of gas supply network increased by 2.3 thousand km (1.3%), whereas the number of connections to buildings – by 79.4 thousand pcs. (2.3%).

The household consumption of gas from gas supply system in 2024 compared to 2023 increased by 0.9%, while the number of customers decreased by 0.5%. In rural areas, gas consumption increased (by 1.6%), and the number of recipients also increased (by 2.8%).

In urban areas gas consumption also increased (by 0.7%), while the number of customers decreased (by 1.2%). In relation to 2023, household consumption of gas from gas supply system increased by 511.1 GWh and amounted 6,161.5 kWh per consumer; in rural areas it was 10,363.6 kWh per consumer and 5,254.4 kWh per consumer in urban areas.

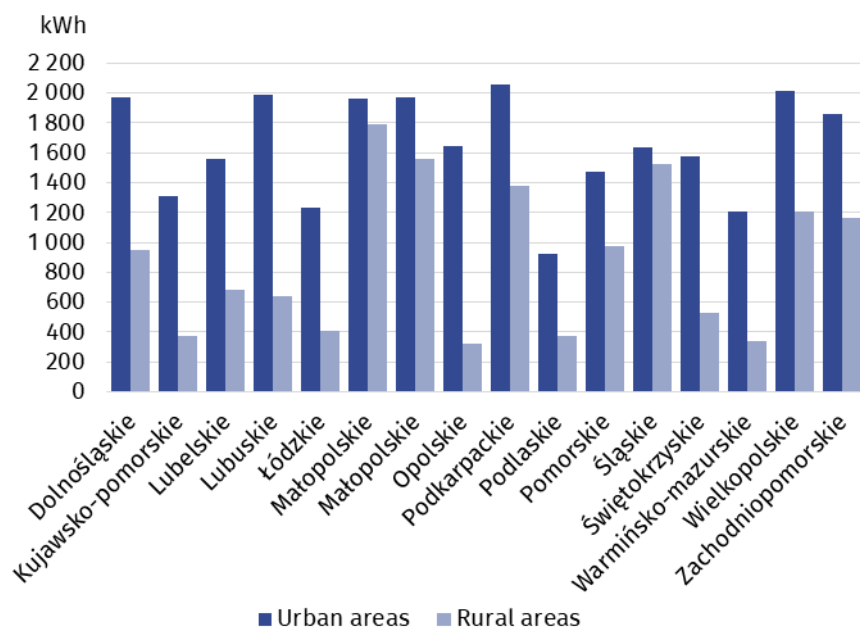
At the end of 2024, 59% of the length of the gas network was located in rural areas and 41% in urban areas

Table 4. Gas supply network consumers and consumption of gas from gas supply system in households

Specification	2023		2024	
	total	2022=100	total	2023=100
Gas supply network in km ^a	174,257.4	101.8	176,605.2	101.3
urban areas	72,031.0	101.6	72,907.2	101.2
rural areas	102,226.4	102.0	103,697.9	101.4
Connections leading to residential and non-residential buildings in thousand pcs ^a	3,477.0	102.3	3,556.4	102.3
urban areas	2,002.7	101.9	2,039.3	101.8
rural areas	1,474.3	102.9	1,517.1	102.9
Consumers of gas supply system in thousands ^a	8,908	102.0	8,861	99.5
urban areas	7,378	101.3	7,288	98.8
rural areas	1,530	105.4	1,573	102.8
Consumption of gas from gas supply system in GWh ^b	54,083.7	95.9	54,594.8	100.9
urban areas	38,034.9	95.1	38,292.1	100.7
rural areas	16,048.8	97.6	16,302.7	101.6
Consumption of gas from gas supply system per capita in kWh ^b	1,434.6	96.2	1,453.4	101.3
urban areas	1,694.5	95.6	1,713.9	101.1
rural areas	1,052.3	97.7	1,071.1	101.8
Consumption of gas from gas supply system per consumer in kWh ^b	6,071.3	94.0	6,161.5	101.5
urban areas	5,155.0	93.9	5,254.4	101.9
rural areas	10,490.4	92.6	10,363.6	98.8

a. As of 31 December b. During the year

Chart 3. Household consumption of gas from gas supply system per capita in 2024



NOTE: Due to rounding of data in some cases the sums of components may slightly differ from the given "total" values.

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Related information

[Energy management and gas supply system in Poland in 2023](#)

[Housing Economy and Municipal Infrastructure in 2023](#)

Data available in databases

[Local Data Bank](#)

[Knowledge Databases Municipal and Dwelling Infrastructure](#)

Terms used in official statistics

[Energy consumption](#)

[Consumers of electric energy in households](#)

[Distribution heat network](#)

[Transmission heat network](#)

[Gas supply network](#)

[Gas supply connection](#)

[Consumer of gas from gas supply system](#)

[Consumption of gas in households](#)