Energy management and gas supply system in Poland in 2017

In Poland, over the last decade, there has been observed a rise in investment in the area of infrastructure of natural gas system

In Poland, in 2017, consumption of gas per capita in  urban areas increased by 50.6 kWh (by 3.3%) and amounted to 1 564.5 kWh.

 103.3

An increase in consumption of gas per capita in urban areas

# **Gas supply system**

As compared to 2016, the length of gas supply system increased by 2.1%

In 2017, gas supply system in Poland reached the length of 152.2 thous. km (of which 131.0 thous. km was distribution network). As compared to the previous year, the length of gas supply network in total increased by 3.2 thous. km (by 2.1%), while the number of connections in this period increased by 98 thous. pcs. (by 3.5%)

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Specification | 2016 | 2015 = 100 | 2017 | 2016 = 100 |
| Gas supply network in km | 149 037 | 102.1  | 152 217  | 102.1 |
| Connections leading to residential and non-residential buildings in thous. pcs  | 2 772.4 | 102.9 | 2 870.3 | 103.5 |
| Consumers of gas from gas supply system in thous. | 7 458 | 101.1 | 7 503 | 100.6 |
|  of which in urban areas | 6 433 | 100.9 | 6 454 | 100.3 |
| Consumption of gas from gas supply system (during the year) in w GWh | 45 035.8 | 110.5 | 47 029.4 | 104.4 |
|  of which in urban areas in GWh | 35 045.4 | 110.3 | 36 179.6 | 103.2 |
|  per capita in kWh | 1 513.9 | 110.5 | 1 564.5 | 103.3 |

As compared to 2016, consumption of gas from gas supply system in households increased by 4.4%

The length of gas distribution network in rural areas in 2017 increased by 1.3 thous. km (by 1.9%) and amounted to 71.1 thous. km, while in urban areas – by 2.0 thous. km (by 3.4%) and reached 59.9 thous. km.

The consumption of gas from gas supply system by households in Poland in 2017 increased by 4.4% as compared to 2016, with an increase in the number of consumers – by 0.6%. In urban areas there was an increase of 3.2% in consumption of gas while the rise in the number of consumers was by 0.3%. In rural areas there was noted an increase in gas consumption – by 8.6%, and the number of consumers rose by 2.3%.

As compared to 2016, consumption of gas from gas supply system increased by 1 993.6 GWh and amounted to 6 268 KWh per consumer, while in urban areas it came to 5 606 kWh, and in rural areas – to 10 344 kWh.

**Chart 1. Consumption of gas from gas supply system per capita in households in 2017**

# **Consumption of electricity in households**

In 2017 the consumption of electricity per consumer decreased by 0.2% as compared to the previous year

In 2017 as compared to the previous year consumption of electricity per consumer in Poland decreased by 0.2% and amounted to 1 962.6 kWh. In urban areas the consumption decreased by 1.0% (1 736.8 kWh per consumer), while in rural areas there was an increase of 0.9% (2 407.3 kWh per consumer).

Over the last years, lower electricity consumption in households has been observed. This phenomenon is the result of changes in behaviour of population, i.a. through upgrading of household appliances and lighting to those of higher energy efficiency class.

**Chart 2. Consumption of electricity per capita in households in urban areas in 2017**

**Heat supply system**

The highest density of heat supply network was observed in śląskie voivodship and the lowest in lubuskie voivodship

Length of heat supply system in total in 2017 amounted to 25 232.2 km, of which length of heat distribution network was 16 381.1 km, and the connections to buildings 8 851.1 km. In spatial arrangement in Poland, the highest density of heat supply system was observed in the areas of the following voivodships: śląskie (30.1 km per 100 km2), małopolskie (12.8 km per 100 km2), łódzkie (11.5 km per 100 km2) and pomorskie (10.2 km per 100 km2), while the lowest – in lubuskie voivodship (3.6 km per 100 km2).

**Chart 3. Infrastructure of heat supply network in 2017**

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

In 2017, 205.1 thous. TJ of heat energy was sold, of which 158.3 thous. TJ for heating purposes in residential buildings (77.2%). About 201.7 thous. TJ (98.3%) of heat energy was sold to inhabitants of urban areas, of which approximately 156.2 thous. TJ for heating purposes in residential buildings.

The largest amount of heat energy for heating purposes was generated using solid fuel (66.2%), followed by gas (31.7%), and oil (2.1%).

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| Prepared by:**Trade and Services Department****Marek Sobczyk**Tel: +48 22 608 34 22**e-mail:** **m.sobczyk@stat.gov.pl** | Issued by:**The Spokeperson for the President** **of the Statistic Poland****Karolina Dawidziuk**Tel: +48 22 608 3475, +48 22 608 3009**e-mail:** **rzecznik@stat.gov.pl** |

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| --- | --- | --- |
| **Press Office****tel.:** +48 22 608 34 91, +48 22 608 38 04 **fax:** +48 22 608 38 86 **e-mail:** obslugaprasowa@stat.gov.pl |  | www.stat.gov.pl/en/ |
|  | @StatPoland |
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**Related information**

[Municipal Infrastructure in 2016](http://stat.gov.pl/en/topics/municipal-infrastructure/municipal-infrastructure/municipal-infrastructure-in-2016%2C1%2C14.html)

**Data available in databases**

[Local Data Base](https://bdl.stat.gov.pl/BDL/dane/podgrup/temat)

**Terms used in official statistics**

[Gas transmission network](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/3307%2Cterm.html)

[Gas supply distribution network](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/83%2Cterm.html)

[Gas supply connection](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/47%2Cterm.html)

[Gas recipient](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/3349%2Cterm.html)

[Consumption of gas in households](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/673%2Cterm.html)

[Distribution thermic-line](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/458%2Cterm.html)

[Transmission thermic-line](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/457%2Cterm.html)

[Energy consumption](http://stat.gov.pl/en/metainformations/glossary/terms-used-in-official-statistics/672%2Cterm.html)