

1. Key points

1.1 Total primary energy consumption

1.2 Final energy consumption

1.3 Energy intensity of GDP

1.4 Share of electricity produced by renewable energy sources (RES)*

2. Glossary

3. Methodological explanations

4. Links to related publications

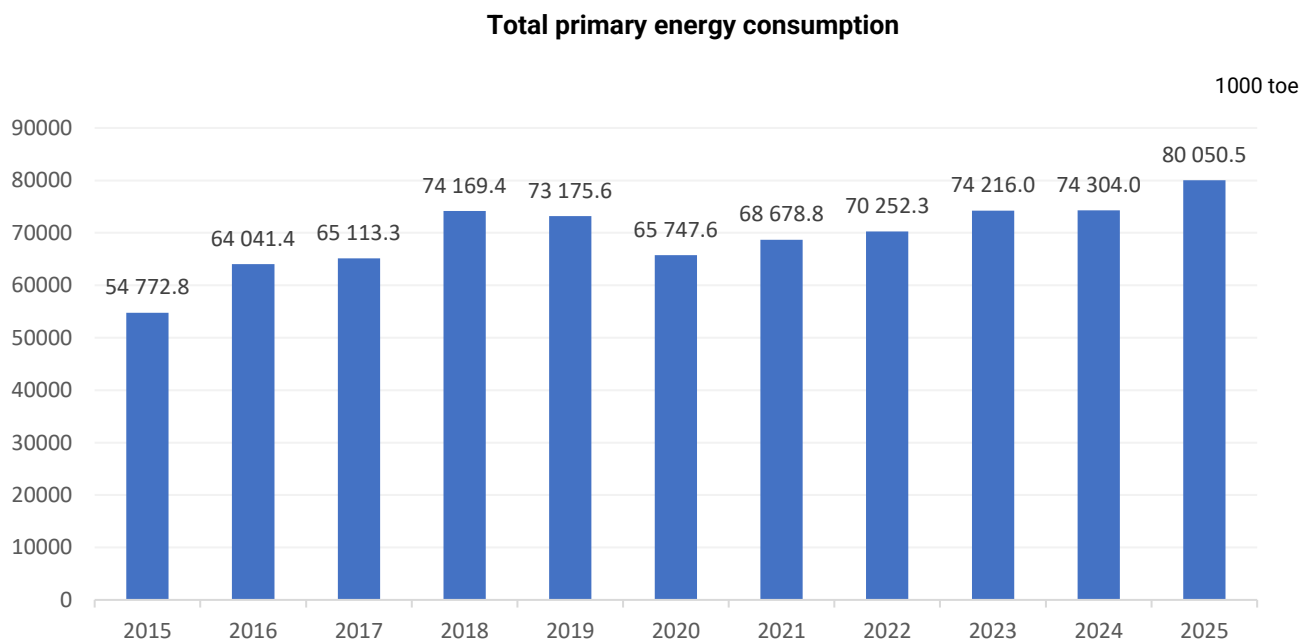
5. Useful links

1. Key points

Spreadsheets

[Fuel and energy balance of the Republic of Kazakhstan](#)

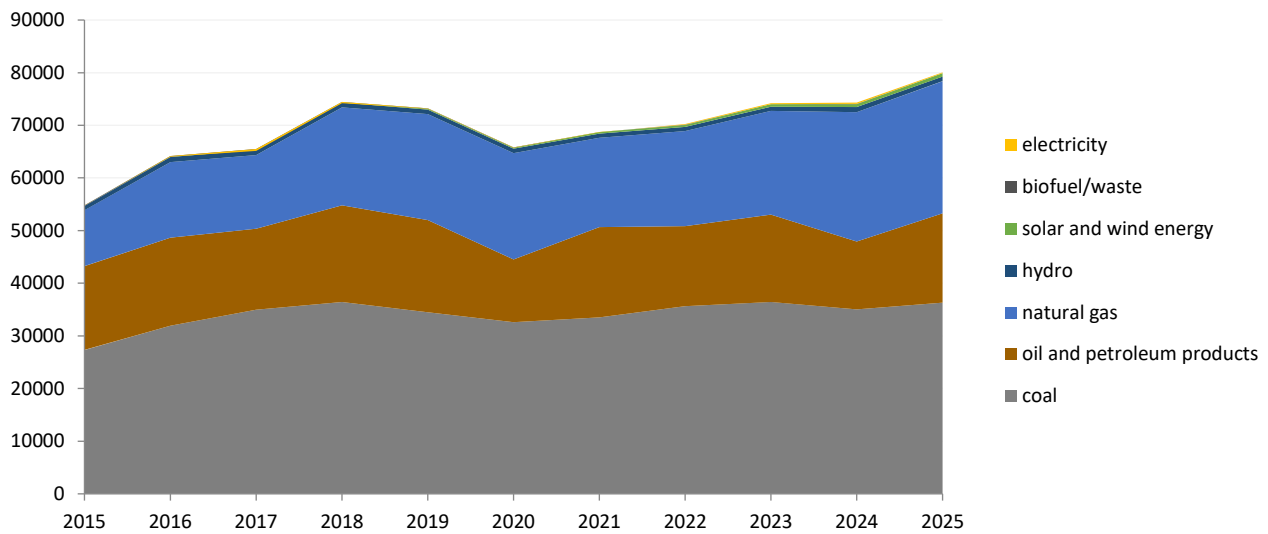
1.1 Total primary energy consumption



Compared to 2024, the total primary energy consumption in 2025 increased by 7.7% and amounted to 80 050.5 thousand tons of oil equivalent (1000 toe).

Total primary energy consumption by fuel type

1000 toe



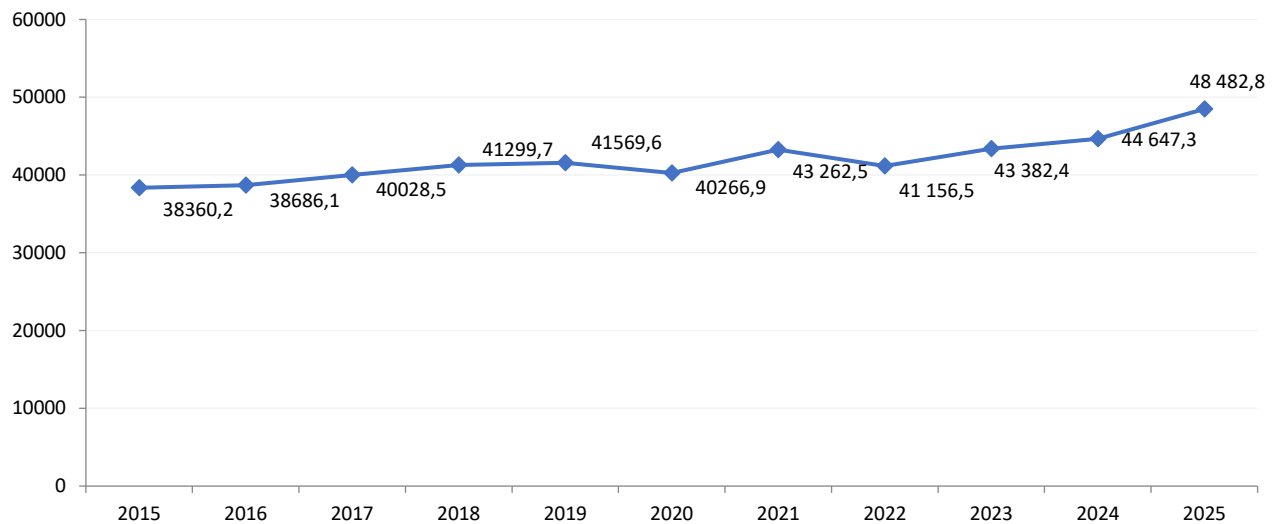
Coal constitutes the largest share in the structure of total primary energy consumption – 45.4%. The shares of natural gas consumption (31.4%) and oil and petroleum products (21.1 %) are also significant.

1.2 Final energy consumption

Final energy consumption

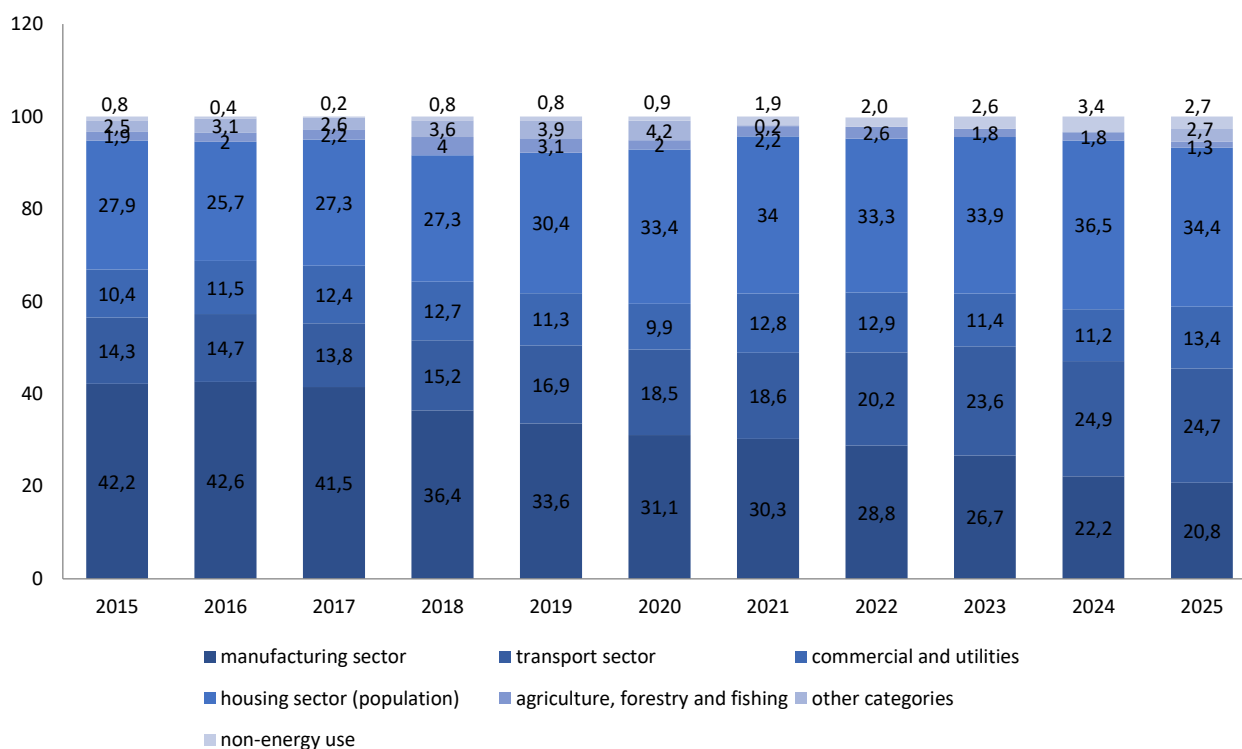
1000 toe

Final energy consumption in 2025 increased by 8.6% compared to the previous year and amounted to 48 482.8 thousand tons of oil equivalent (1000 toe).



Final energy consumption by economic sectors

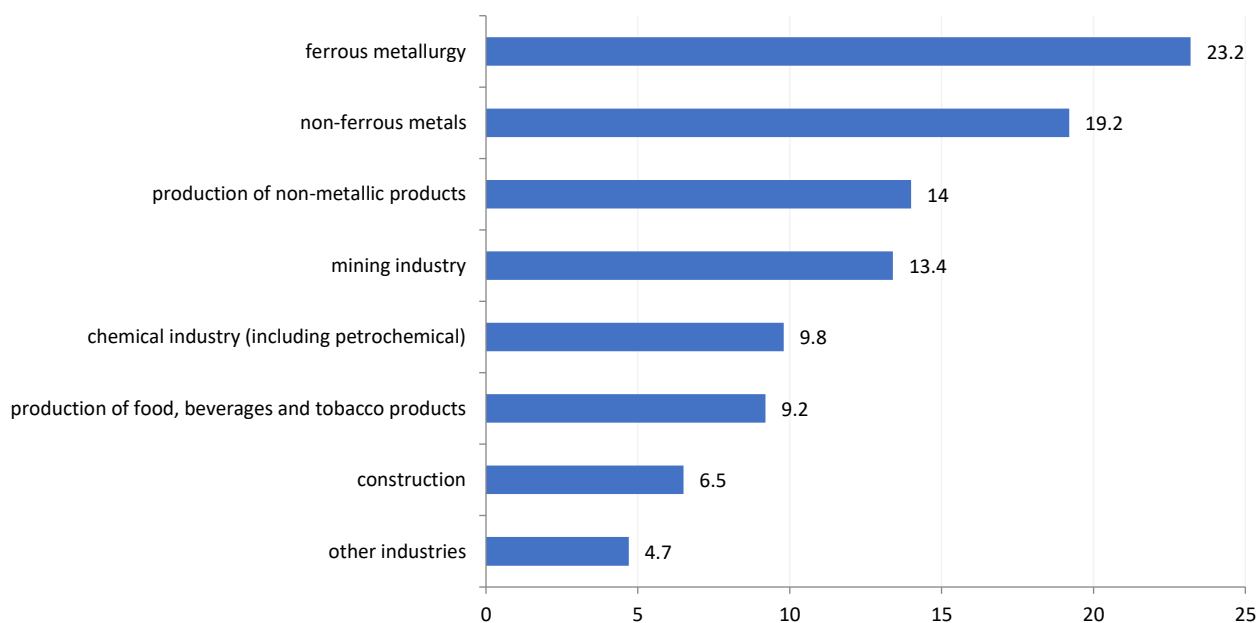
as a percentage



In 2025, the residential sector had the largest share of final consumption - 34.4%, amounting to 16.7 million toe. The transport sector ranked second with 12 million toe. The industrial sector ranked third - 10 million toe.

Final energy consumption in industry by subsector in 2025

as a percentage

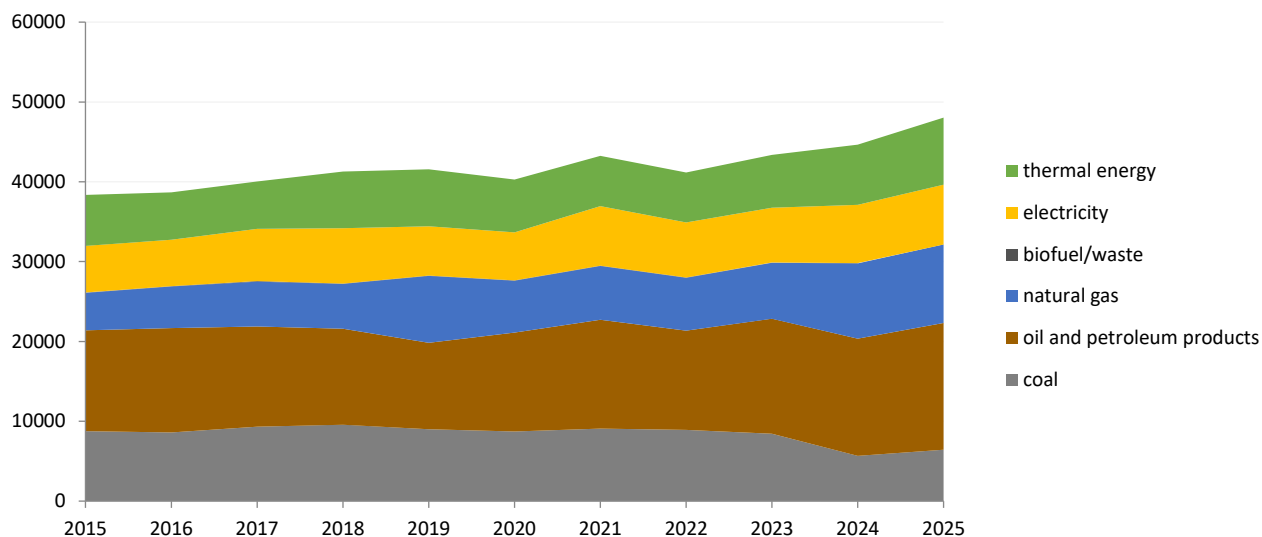


In the structure of the final consumption of the industrial sector, ferrous metallurgy constitutes the largest

share – 23.2%, non-ferrous metallurgy – 19.2% and production of non-metallic products – 14% of the final consumption with in the industrial sector.

Final energy consumption by fuel type

1000 toe



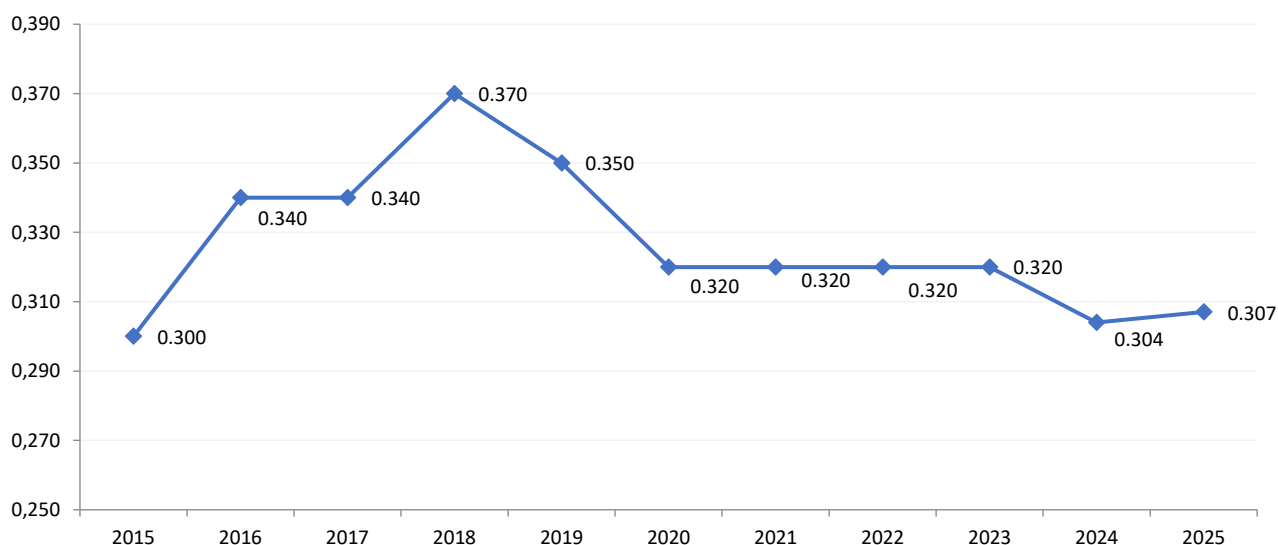
In 2025, the largest share in the final energy consumption is occupied by oil and petroleum products – 32.7% and natural gas – 20.3%. The share of heat consumption was 17.3%, electricity – 15.4% and coal 13.3% of the total final energy consumption.

1.3 Energy intensity of GDP

Energy intensity of GDP

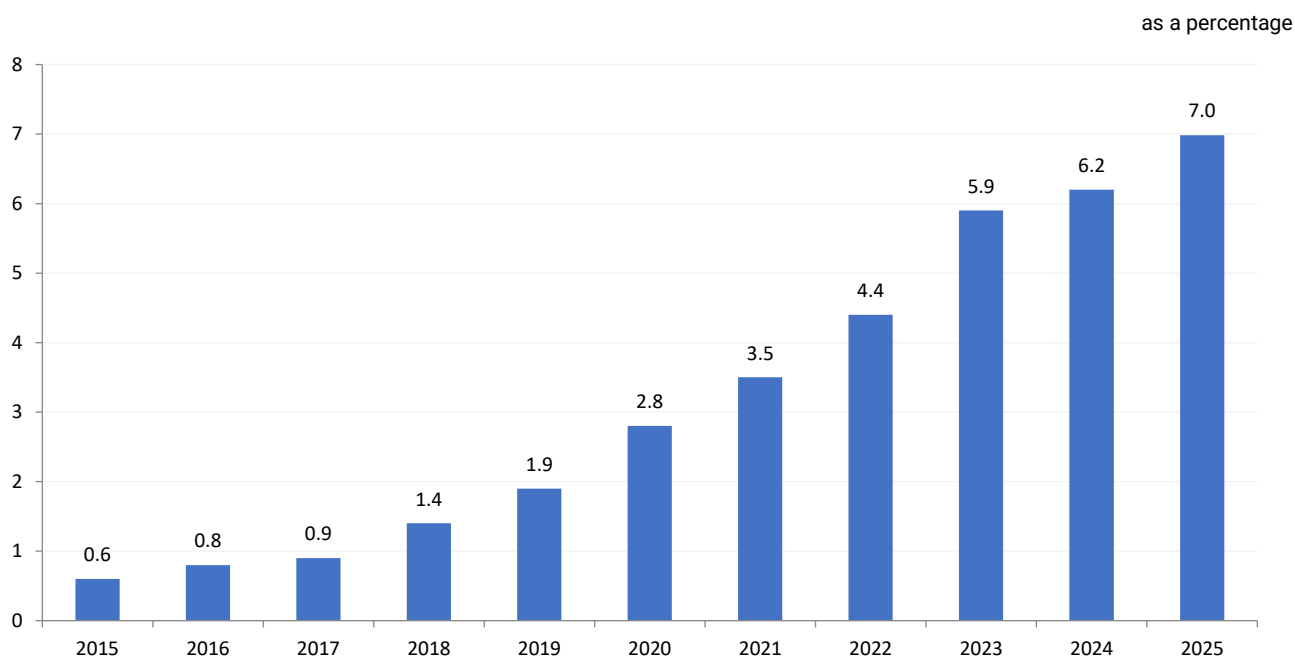
toe/ thousand USD in 2015 prices

In 2025, the energy intensity of GDP amounted to 0.307 toe per thousand USD at 2015 prices and increased by 0.9% compared to 2024.



1.4 Share of electricity produced by renewable energy sources (RES)*

Share of electricity produced by renewable energy sources*



*Excluding large hydroelectric power plants.

There is a steady increase in the share of electricity generated from renewable energy sources. Excluding large hydroelectric power plants, this indicator accounted for 7% of total electricity production in 2025.

2. Glossary

Fuel and energy balance (FEB) - is a system of indicators that reflects the full quantitative correspondence between income and expenditure (including losses and balance) as a whole or in its individual sections (industry, region, enterprise, workshop, process, installation) for a selected time interval.

Total primary energy consumption - is the total volume of supplies of primary energy and its equivalents to the domestic market for all needs (consumption in the conversion sector, non-energy needs, final consumption in economic sectors), considering losses.

Final energy consumption includes all fuel and energy supplied to consumers for both their energy and non-energy use, and does not include the volumes of fuel and energy involved in the conversion processes.

The energy intensity of GDP determines the economic efficiency of consumption of fuel and energy resources in the production of GDP in the country as a whole and is calculated as the ratio of the volume of gross consumption of fuel and energy resources for all production and non-production needs in tons of oil equivalent to the value of GDP.

Fuel and energy resources (FER) - are a combination of various types of fuel and energy (products of the oil refining, gas, coal, peat and shale industries, electricity from nuclear and hydroelectric power plants, as well as local fuels) that the country has at its disposal to meet production, domestic and export needs.

Primary energy – sources of energy (energy carriers) that require only extraction or capture, considering or not considering their separation from the accompanying rock, purification or sorting, before the energy contained in these sources can be converted.

Renewable energy sources are energy sources that are continuously renewable due to naturally occurring natural processes, including the following types: solar radiation energy, wind energy, hydrodynamic water energy; geothermal energy: heat of soil, groundwater, rivers, reservoirs; as well as anthropogenic

sources of primary energy resources: consumption waste, biomass, biogas and other fuel from consumption waste used for the production of electric and (or) thermal energy.

3. Methodological explanations

The fuel and energy balance makes it possible to analyze and evaluate changes in the structure of fuel and energy production and consumption, their effective use in economic sectors, monitor the depletion of energy resources, as well as calculate gas emissions into the atmosphere and determine the main directions of development of the fuel and energy complex.

The information base for the construction of the fuel and energy balance is the data obtained or registered in the statistical forms of national statistical observations, as well as administrative data.

Energy flows cover the activities of economic units throughout the territory of the republic and are divided into production (extraction) of fuel and energy products, transformation, foreign trade, change of reserves, final consumption and non-energy use.

FEB is a complex balance sheet that combines the balances of various types of energy resources for the reporting year in the form of a single balance sheet.

The headings of the graph of the balance sheet contain the names of a group of fuel and energy products and product balances corresponding to a certain type of primary or secondary energy products. The row header contains balance sheet items that characterize the movement of primary and secondary energy flows and their equivalents.

4. Links to related publications

[Fuel and energy balance of the Republic of Kazakhstan \(2024\)](#)

[Fuel and energy consumption in households in the Republic of Kazakhstan \(2022 year\)](#)

[Statistical bulletin «Fuel and energy consumption in households in the Republic of Kazakhstan in 2022»](#)

[On the operation of thermal power plants and boiler houses of the Republic of Kazakhstan \(2021\)](#)

[Gas network in the Republic of Kazakhstan \(2021\)](#)

5. Useful links

[Methodology for the formation of the fuel and energy balance and the calculation of individual statistical indicators characterizing the energy industry](#)

[Manual for statistics on energy consumption in households](#)

[Energy Statistics Manual IEA](#)

[International recommendations for energy statistics \(IRES\)](#)

Responsible for the release: Department of Services and Energy Statistics	Department director: G.Aigozina Tel. +7 7172 749060	Executor: S. Akimova Tel. +7 7172 749429 E-mail: s.akimova@aspire.gov.kz	Address: 010000, Astana , Mangilik el ave 8, House of Ministries, entrance 4
---	--	--	--