

4.2.2. Energy consumption and energy efficiency

Management approach

GRI 3-3

According to the results of the materiality analysis disclosed in section “[Materiality analysis](#)”, energy consumption and energy efficiency have been recognized as one of the material topics of Kazakhtelecom JSC. Upon the determination of materiality, the Company took into account the expectations of stakeholders, the results of questioning, internal expertise, and also the impact of the topic on operational costs, the resilience of digital infrastructure, greenhouse gas emissions, the climate agenda and long-term value creation.

For Kazakhtelecom JSC, this topic is of material significance with account for the development of communications networks, data centres, base stations, AI infrastructure and the growth of the need for computing capacities. The effective management of energy consumption makes it possible for the Company to control operational costs, to reduce the ecological footprint, to enhance the energy efficiency of infrastructure and to support the sustainability of the business model in conditions of the growth of the digital load. The Company has set goals on the accelerated development of digital infrastructure and the build-up of computing capacities, including large-scale projects on the development of data centres with a total capacity of up to 200 MW in the medium term. Under such a scenario, energy costs become one of the key factors determining both the financial and the environmental results of the company.

The reduction of energy consumption and the enhancement of energy efficiency not only help to optimise costs, but also contribute to the reduction of the company’s ecological footprint. It is important to note that Kazakhtelecom JSC is aware of its role in the global combat against climate change, and the effective management of energy consumption is a significant contribution to these efforts.

Kazakhtelecom JSC applies a systemic approach to the management of energy consumption, aimed at the reduction of energy costs and the minimisation of impact on the environment. The Company is certified to the international standard ISO 50001:2018, confirming the presence of an effective energy management system.

At the Company, a Policy in the area of energy management has been approved and is being implemented, in accordance with which monitoring of energy consumption, analysis of energy efficiency and the introduction of energy-saving solutions are carried out. The Documented procedure “Identification of types of energy. Determination of baselines. Energy analysis” has been introduced, ensuring the keeping of an energy register, control of qualitative and quantitative characteristics of equipment, and also the determination of baseline levels of consumption.

At production facilities, measures on the Optimization of energy consumption have been introduced, including the installation of LED luminaires, automatic lighting sensors, the reduction of energy-intensive office equipment, the use of emergency power sources with account for energy-saving modes.

Principles of the “Policy of Kazakhtelecom JSC in the area of energy management”

Compliance with the requirements of the legislation of the RK, as well as national and international standards in the area of energy saving and the enhancement of energy efficiency.

Striving for the achievement of the level of the best available technologies in the area of production energy efficiency.

Rational use of fuel and energy resources.

Openness and accessibility of information on the energy efficiency of the Company.

The principles and provisions of the Policy are applied to the following spheres: provision of telecommunications services, management of procurement of goods, works and services, current operation of telecommunications networks and infrastructure.

Key directions of the Policy:

- Systemic and targeted enhancement of the professional level of the Company’s employees, as well as the knowledge of personnel in the area of energy saving and energy efficiency of production.
- Response to changes in legislative requirements, national and international standards in the area of energy saving and the enhancement of energy efficiency and improvement of internal regulatory documents.
- Ensuring the consideration of energy efficiency as one of the criteria in procurements where possible.
- Ensuring the selection of the most energy-efficient solutions upon the modernization of basic technological and energy equipment.
- Ensuring continuous monitoring of consumption and generation of fuel and energy resources in main and auxiliary production processes.
- Ensuring the formation of mechanisms of motivation and involvement of enterprise personnel in energy saving.

Resource conservation and energy efficiency improvement

GRI 3-3

At Kazakhtelecom JSC, the enhancement of energy efficiency and the transition to resource-saving technologies are regarded as priority directions in the achievement of the goals of carbon neutrality. The Company implements a complex of measures aimed at the reduction of consumption of imported electrical and thermal energy, as well as fuel resources upon the operation of its own energy-generating facilities.

Key areas of measures implemented in the Company:

The replacement of traditional lighting sources with energy-saving and LED lamps;



The installation of motion sensors and automatic lighting control;



The transfer of personal computers and office equipment to sleep mode and their full disconnection during non-working hours;



The modernization of telecommunications infrastructure, including the transition from copper communication lines to fibre-optic lines.



The implementation of the indicated measures ensured the more rational use of electrical energy and the enhancement of the Company's energy efficiency.

The aggregate result for 2025 amounted to electricity savings in the volume of

19,782

GJ

GRI 302-4

A No material reductions in energy consumption were recorded in the 2025 reporting year. A

In 2024-2025, for the enhancement of energy efficiency and resource saving at Kazakhtelecom JSC, an energy audit was conducted.

GRI 302-1

Table 25. Total consumption of fuel resources, GJ

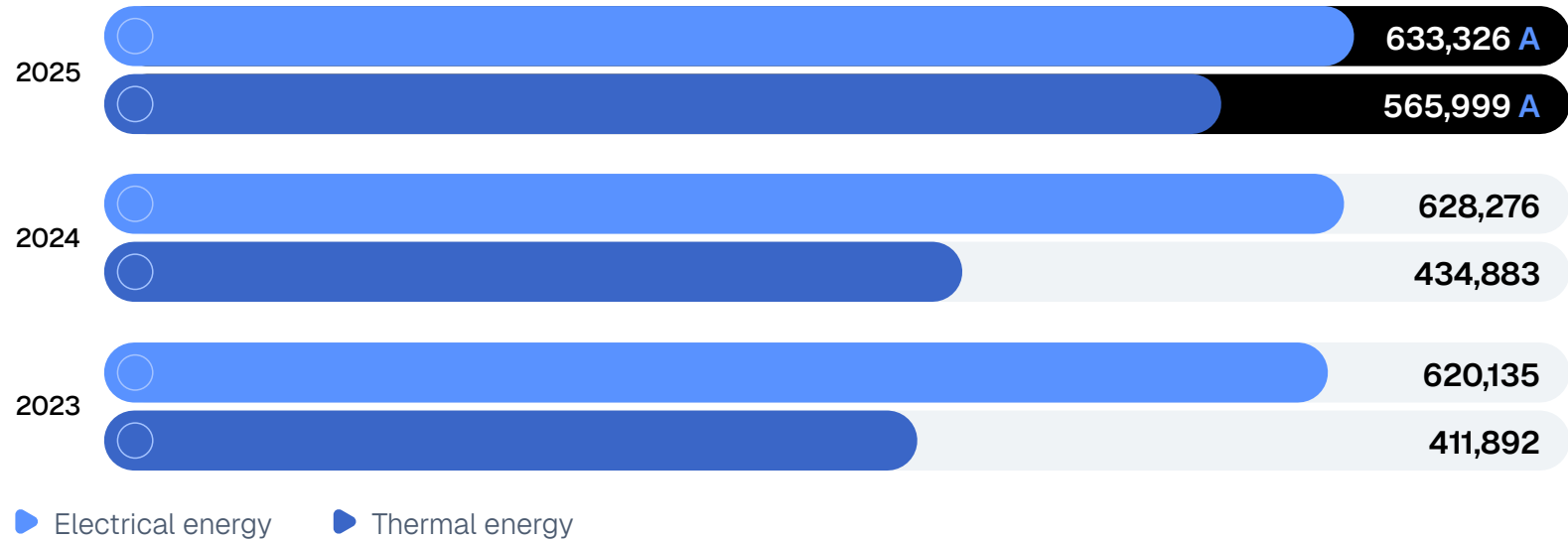
Indicator name	2023	2024	2025	%
Petrol	197,783.4	209,710.8	219,000 A	4.4%
Diesel fuel	107,904.9	115,707.5	108,510 A	(6.2%)
Coal	21,445.6	22,440.8	17,720 A	(21%)
Natural gas	108,074.1	71,507.3	52,280 A	(26.9%)
Liquefied gas (propane) as motor fuel	23,165.4	5,032.9	213 A	(-95.76%)
Firewood	528.2	163.7	0.00 A	(-100%)
Total consumption of fuel and energy resources	458,901.7	424,563	397,723 A	(6.3%)

In 2025, the total volume of fuel consumption amounted to 397,723 GJ, which is 6.3% lower than the 2024 indicator. The main sources of energy are petrol and diesel fuel. At the Company, autonomous heating systems are used at 248 real estate facilities, including those operating on diesel fuel (at 107 facilities), on gas heating (at 108

facilities), on solid fuel (at 40 facilities, of which on electric boilers — 28 facilities). In 2025, no significant growth in the consumption of fuel for mobile and stationary sources (boiler houses) is observed. A significant reduction in the consumption of liquefied gas for mobile sources, and firewood for stationary ones, has been established.

GRI 302-1

Consumption of thermal and electrical energy for own technological needs, GJ *



* Table 26. Consumption of thermal and electrical energy for own technological needs (the information is presented in graphical form).

In 2025, the consumption of electricity amounted to 633,326 GJ, which is 0.8% more than in 2024.

It should be taken into account that server equipment consumes non-constant power, depending on the level of load of processors (CPU), graphics accelerators and other components.

633,326

GJ
electricity consumption in 2025

GRI 302-3

Table 27. Energy intensity

Indicator name	2023	2024*	2025
Total energy consumption, GJ	1,490,401.4	1,487,723	1,597,021 A
Revenue of Kazakhtelecom JSC, KZT million	299,725	314,673	348,014 A
Specific energy consumption, GJ/KZT million	4.97	4.73	4.59 A

* Revenue for 2024 does not correspond to the amount in the consolidated financial statements for the year ended 31 December 2024 and represents reclassifications made.

Table 28. Indicators on the material topic affecting the long-term value creation of the Company

Indicator	Target for 2025	Result 2025
Reduction of consumption of fuel resources	According to the Low-Carbon Development Programme, reduction of energy consumption by 22% by 2032 relative to the base period	The Company is on a reduction trajectory –in particular, the reduction of consumption of fuel resources in 2025 relative to 2024 was 3.4%
Energy intensity of activities	Enhancing the energy efficiency of the Company’s activities	Specific energy consumption increased from 3.0 to 4.59 GJ/KZT million

Based on the results of the integrated energy audit conducted in 2025, structural subdivisions of the Company developed corresponding plans of measures on the enhancement of energy efficiency for the period 2026–2031. Indicators in the area of energy consumption and energy efficiency are used for monitoring the performance of the energy management system and are disclosed in the Company’s reporting.

Plans for 2026 and the medium term

- In 2026, the fulfilment of the following measures on the enhancement of energy efficiency is planned:
- Ensuring thermal modernization of buildings based on the results of the energy audit.