

Energy assets

Nornickel operates its own fuel and energy assets, which include four natural gas fields, three combined heat and power (CHP) plants, two hydropower plants, as well as gas pipelines, power lines, and gas-fired boiler houses. The Group’s energy assets supply approximately 56% of the Group’s total energy needs, with electricity accounting for 50% of that volume.

The Company’s fuel and energy assets are managed by the Energy Division and include the following facilities.

A gas and condensate production enterprise operating in the Krasnoyarsk Territory and the Yamal-Nenets Autonomous District. Its core activities include the extraction and processing of natural gas and gas condensate as well as the sale of hydrocarbon feedstocks to consumers.

Energy infrastructure



Natural gas production

2,650 MCM

Gas condensate production

102 KT

Share of renewable electricity across the Group

54.4%

Production volume¹

Indicators	2020	2021	2022	2023	2024
Natural gas (mcm)	2,728	2,927	2,816	2,720	2,650
Gas condensate (kt)	98	102	91	85	102

Existing deposits:

- Messoyakhskoye gas field — under development since 1969
- Yuzhno-Soleninskoye gas condensate field — under development since 1972
- Severo-Soleninskoye gas condensate field — under development since 1983
- Pelyatkinskoye gas condensate field — under development since 2003

An enterprise engaged in the transportation of natural gas and gas condensate, delivering feedstocks from the fields to consumers in the Norilsk Industrial District. The district’s gas supply

system is a regional-level network and is not connected to the Unified Gas Supply System of Russia. Natural gas is transported from the fields via a trunk pipeline to Dudinka and Norilsk.

A fuel company serving as a strategic supplier of light and dark petroleum products to the Far North. The company plays a key commercial and social role in the region, with operations spanning the Norilsk Industrial District, the cities of Krasnoyarsk and Dudinka, the Murmansk Region, and the Trans-Baikal Territory. The fuel company supplies petroleum products to mining, exploration, and transport

companies as well as municipal enterprises. Its key consumers are Norilsk Nickel Group enterprises.

Gas reserves

242.7 BCM

Gas condensate reserves

4,424 KT

The string length of gas and condensate pipelines

1,653 KM



¹ Gas condensate production figures include production losses (carryover with separation gas).

A fuel and energy company engaged in the generation and supply of electricity and heat to consumers in the Far North. Electricity and heat generation relies on a mix of renewable energy sources (hydropower) and non-renewable sources (natural gas).

The asset comprises the following facilities:

- three gas-fired thermal power plants with a total installed capacity of 1,154 MW;
- two hydropower plants with a total installed capacity of 1,102 MW;
- nine boiler houses;

- three electric boiler houses;
- six fossil fuel-fired boiler houses.

Company energy system highlights:

- total installed capacity: 2,256 mw
- total chpp heat capacity: 4,129 gcal/h
- total boiler capacity: 511 gcal/h

The Company supplies electricity, heat, and water to residents of Norilsk, Dudinka, Svetlogorsk, and Snezhnogorsk, as well as to Nornickel enterprises, which account for about 73% of the energy produced.

The Company's main source of renewable energy is hydropower, generated at the Ust-Khantayskaya and Kureyskaya HPPs.

The Ust-Khantayskaya HPP is the world's northernmost hydropower plant, with a capacity of 502 MW. It was built on permafrost and is located on the Khantayka River, a right-bank tributary of the Yenisei.

Energy consumption by the Group¹ (TJ)

Indicators	2020	2021	2022	2023	2024
1. Fuel consumption, including: ²	141,237	151,235	141,909	137,150	133,746
• natural gas	122,216	130,867	125,934	121,643	117,940
• diesel fuel and fuel oil	13,939	15,097	13,628	13,080	13,471
• petrol and jet fuel	2,902	3,715	325	312	297
• anthracite coal	2,180	1,557	2,027	1,562	1,765
• lignite	0	0	0	552	273
2. Electricity and heat from renewable sources (HPPs)	15,310	14,586	16,152	16,800	16,686
3. Electricity and heat purchased from third parties	11,200	10,891	11,005	8,701	8,660
4. Sales of electricity and heat to third parties	17,254	19,974	18,968	19,216	18,838
Total energy consumption (1+2+3-4)	150,493	156,738	150,098	143,435	140,254
Share of renewable energy consumption	10%	9%	11%	12%	12%
Share of renewable electricity consumption	46%	47%	51%	55%	54%

Surface area of the Khantayka Reservoir

2,230 SQ KM

Total volume of the Khantayka reservoir

14.03 CU KM

Active (usable) volume of the Khantayka Reservoir

22.55 CU KM

Surface area of the Kureyka Reservoir

558 SQ KM

Active (usable) volume of the Kureyka Reservoir

7.3 CU KM

Total volume of the Kureyka reservoir

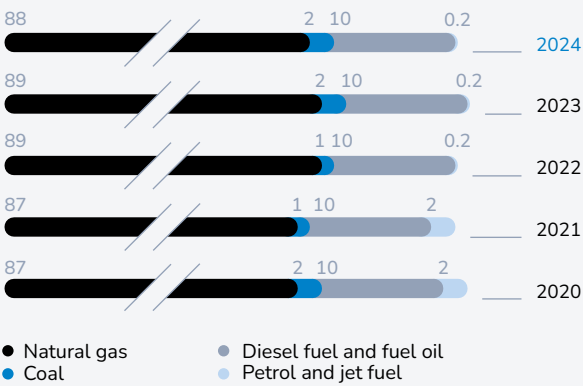
10.0 CU KM

The Kureyskaya HPP is located in the north of the Krasnoyarsk Territory, on the Kureyka River, with an installed capacity of 600 MW.

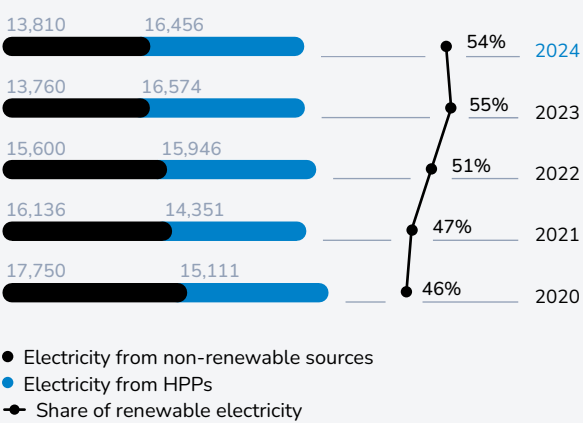
In 2024, the share of renewables in total electricity generation stood at 54% for the Group and 58% for the Norilsk Industrial District. Renewable energy accounted for 12% of the Group's total energy consumption.

Energy sold to external consumers accounts for 31% of Nornickel's total self-generation.

Fuel consumption by the Group (%)



Electricity consumption by the Group (TJ)



The Company's investment programme includes a number of projects to boost the share of hydropower, capture fuel and energy savings, and improve the reliability of energy and gas supplies.

The Company's key projects to improve equipment reliability and energy efficiency and to boost output include:

- replacement of power unit equipment for units no. 1 and 2 at chpp-2: pre-commissioning activities are underway; three tanks have been put into operation at the plant
- ongoing retrofit of the dams at the kureyskaya hpp
- ongoing replacement of storage tanks and associated infrastructure at tank farms
- completion of drilling of three wells at a well pad within the pelyatkinskoye gas condensate field; tie-in works are in progress
- completion of construction and installation works; pre-commissioning activities including operating mode testing of a booster compressor station at the severo-soleninskoye gas condensate field
- ongoing retrofit of the gas transportation system from the fields to the norilsk industrial district
- commissioning of a gas filling station in the norilsk industrial district

¹ For a detailed breakdown of the Group's energy consumption by enterprise, see Nornickel's Sustainability Report 2024.

² Including fuel consumed for energy generation to meet the needs of Norilsk.