

Sustainable Water Use

Total water use (water consumption)

million m³

Indicators	2021	2022	Change, %
Water consumption, total	5.70	5.15	-9.6

Total water discharge

million m³

Indicators	2021	2022	Change, %
Total water discharge	3.27	3.23	-1.2

Including:

• Wastewater discharge into the environment	0.06	0.04	-33.3
• Discharge of wastewater into centralised wastewater disposal systems	3.21	3.19	-0.6

In order to reduce the amount of waste water that may have a negative impact on the environment and operation of centralised wastewater disposal systems, the Company implements programs for retrofitting treatment facilities and carriage washing facilities by furnishing them with a closed-loop water supply system and local treatment facilities.

In particular, the following works are carried out:

- Retrofitting carriage washing facilities featuring water recirculation systems
- Upgrading water supply and sewer networks
- Retrofitting the Company's buildings and structures with water consumption and discharge meters

ENERGY EFFICIENCY

To improve energy efficiency and reduce the energy intensity of its operations, JSC FPC works to restrict its fuel and energy consumption every year.

The following measures have been implemented in 2022:

- Purchasing new, advanced, and energy-efficient rolling stock
- Using energy-saving technologies in the Company's depot and site lighting systems (LEDs and smart control systems)

- Upgrading and converting boilers from liquid fuels to gas
- Retrofitting the Company's buildings and structures with water consumption and discharge, electricity and heat meters
- Installing high-voltage charging points at passenger train preparation sites

Progress in the Use of Fuel and Energy Resources

Use of fuel and energy resources in physical terms

Resources	2020	2021	2022	Change 2022/2021, %
Electric energy, million kWh	107.738	111.942	113.134	1.1
Diesel fuel, thousand tonnes	1.947	3.139	1.646	-47.6
Coal, thousand tonnes	76.982	79.198	84.627	6.9
Fuel oil, thousand tonnes	10.126	10.797	9.998	-7.4
Natural gas, million m ³	19.312	22.917	22.744	-0.8
Petrol, thousand tonnes	0.610	0.603	0.591	-2.0
Briquettes, thousand tonnes	2.409	2.725	2.575	-5.5
Pellets, thousand tonnes	0.534	0.452	0.280	-38.1
Firewood, thousand m ³	0.092	0.074	0.080	6.9
Total, thousand conventional tonnes	139.294	150.231	153.099	1.9

Use of fuel and energy resources in monetary terms

RUB million

Resources	2020	2021	2022	Change 2022/2021, %
Electric power	605.4	662.7	699.4	5.5
Diesel fuel	85.7	150.2	89.6	-40.3
Coal	277.0	279.0	362.4	29.9
Fuel oil	107.8	213.2	205.9	-3.4
Natural gas	114.2	139.9	148.3	6.0
Petroleum	33.3	32.8	34.0	3.6
Briquettes	20.1	22.4	25.5	13.9
Pellets	4.0	3.3	2.3	-31.5
Firewood	0.3	0.2	0.4	82.5