

# Occupational Health and Safety

JSC FPC constantly improves occupational safety and strives to prevent work-related injuries.

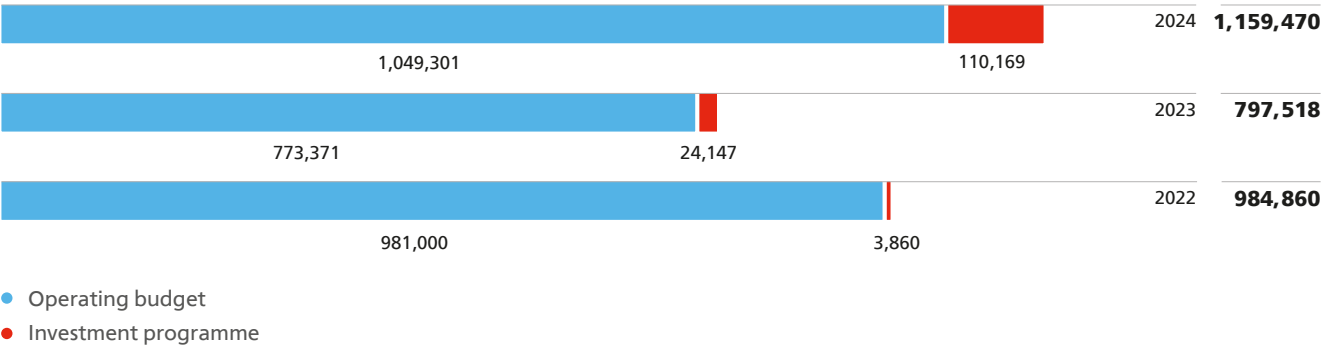
The Company developed the Regulations on the Occupational Health and Safety Management System (OHSMS) to assist in complying with occupational health and safety requirements. The regulations are intended for use by divisions of JSC FPC. The OHSMS is an integral part of JSC FPC's management and production system. The standard on Labour Safety Management System.

General Provisions (STO FPC 1.15.001-2014) and the Regulations on the Occupational Safety Management System at JSC FPC are the fundamental documents defining the principles of occupational health and safety at workplaces at JSC FPC.

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JSC FPC's occupational health and safety costs, RUB million

RUB 1,159.47 million



# Managing Environmental Impact

JSC FPC is the 'face' of the parent company in long-distance passenger service. While operating in every area of the Russian Federation with railway infrastructure, the Company strives to have as little of an impact on the environment as possible<sup>1</sup>. The targets for environmental impact reduction are given in JSC FPC's Development Strategy until 2030.

### Environmental indicators:

- Year-on-year Increase in waste generation by 3.6% from 92,100 tonnes to 95,500 tonnes
- Reduction of air emissions by 5.9% from 3,400 tonnes to 3,200 tonnes
- Increase in water consumption by 2.1% from 4.6 million m³ to 4.7 million m³
- Increase in water discharge by 6% from 3.1 million m³ to 3.5 million m³.

There are no environmental fines in 2024.

The Company prevents environmental contamination and maintains an adequate level of sanitation at rail infrastructure by acquiring only carriages equipped with environmentally friendly toilet facilities. Such toilet facilities are installed during the overhaul of carriages.



<sup>1</sup> The Company is guided by the environmental legislation of the Russian Federation, the Environmental Strategy of the parent company, the development strategy of JSC FPC until 2030 and JSC FPC's Standard 1.16.001-2016.

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Environmental indicators

Indicator	2022	2023	2024	vs. 2023, %
Waste generation, thousand tonnes	102.1	92.1	95.5	+3.6
Air emissions, thousand tonnes	3.3	3.4	3.2	−5.9
Water consumption, million m³	5.2	4.6	4.7	+2.1
Water discharge, million m³	3.2	3.1	3.3	+6.0

The Company's goals in the field of environmental protection	Initiatives
To minimise negative environmental impacts	Equipping carriages with environmentally friendly facilities
	Purchasing carriages with centralised power supply and separate waste accumulation systems
	Installing high-voltage heating points at the turnaround and originating stations
To take care of human health and the environment	Revamping treatment facilities
	Retrofitting water recirculation systems to carriage washing facilities
	Developing gas infrastructure for boiler houses
	Upgrading water and sewer networks

Hazardous waste handling

In total, the Company generated 95,500 tonnes of waste of I–V hazard classes in 2024, up 3.6% year-on-year. The waste generation was driven up by the growth of

passenger turnover, as well as the scheduled repairs and maintenance of carriages.

Gross volume of waste generation by hazard class, thousand tonnes

Indicator	2022	2023	2024	vs. 2023, %
Total	102.087	92.137	95.500	+3.5
Hazard class 1	0.009	0.008	0.007	−12.5
Hazard class 2	0.240	0.211	0.513	+58.9
Hazard class 3	0.200	0.158	0.831	+81.0
Hazard class 4	84.561	69.516	69.746	+0.3
Hazard class 5	17.078	22.244	24.403	+8.8

In order to reduce waste generation, the Company implements separate waste collection, isolating recyclable materials and sending them for recycling.

Air protection and climate impact

Total air emissions by the Company in 2024 amounted to 3,200 tonnes.

In the reporting year, the Company's gross air emissions totalled 3,200 tonnes, down 200 tonnes year-on-year.

The main measures for reduction of air emissions in the Company are:

- Gasification of boiler houses

- Construction of high-voltage heating points for passenger carriages at the turnaround and originating stations
- Reduction of coal and fuel oil consumption.

Between 2019 and 2024, work was completed on 18 high-voltage heating points with 55 high-voltage charging points.

Air emissions, thousand tonnes

Indicator	2022	2023	2024	vs. 2023, %
Total pollutants	3.3	3.4	3.2	−5.9
Including:				
• Air emissions from stationary sources	3.0	3.1	2.7	−12.9
• Air emissions from mobile sources	0.3	0.3	0.5	66.7

Sustainable water use

Total water use (water consumption), million m³

Water consumption, million m³	2022	2023	2024	vs. 2023, %
Total	5.2	4.6	4.7	+2.1

Total water discharge, million m³

Water discharge, million m³	2022	2023	2024	vs. 2023, %
Total	3.24	3.14	3.30	+6.0
of these				
• Wastewater discharge into the environment	0.04	0.04	0.03	−25.0
• Wastewater discharge into centralised sewage systems	3.20	3.10	3.30	+6.5

In order to reduce the amount of wastewater that may have a negative impact on the environment and operation of centralised sewage systems, the Company implements programmes 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 underway:

- Retrofitting carriage-washing facilities with recycling water supply systems
- Upgrading water supply and sewer networks
- Revamping treatment facilities
- Retrofitting the buildings and structures with water metering units (consumption and discharge).



Utility consumption

To improve energy efficiency and reduce the energy intensity of its operations, the Company takes ongoing efforts to restrict its fuel and energy consumption. In 2024, the following activities were developed and implemented in this area:

- Purchasing new, advanced and energy-efficient rolling stock
- Using energy-saving technologies in the depot and station 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



Changes in the use of fuel and energy resources

In nominal terms

Type of resource	2022	2023	2024	Δ 2024/2023, %
Electric energy, million kWh	113.134	114.324	113.664	−0.6
Diesel fuel, thousand tonnes	1.646	1.334	1.496	12.1
Coal, thousand tonnes	84.627	87.365	82.676	−5.4
Fuel oil, thousand tonnes	9.998	9.567	9.826	2.7
Natural gas, million m³	22.744	23.709	25.727	8.5
Petrol, thousand tonnes	0.591	0.568	0.567	−0.1
Briquettes, thousand tonnes	2.575	2.895	2.994	3.4
Pellets, thousand tonnes	0.280	0.165	0.163	−1.0
Firewood, thousand m³	0.080	0.012	0.000	−96.7
Total, thousand TFOE	153.099	155.866	154.725	−0.7

In value terms, RUB million

Type of resource	2022	2023	2024	Δ 2024/2023, %
Electric energy	699.4	787.1	818.6	4.0
Diesel fuel	89.6	78.7	99.3	26.1
Coal	362.4	443.5	461.7	4.1
Fuel oil	205.9	170.1	254.0	49.3
Natural gas	148.3	167.3	191.6	14.5
Petrol	34.0	33.0	36.0	9.1
Briquettes	25.5	31.0	34.7	12.0
Pellets	2.3	2.0	1.7	−14.6
Firewood	0.4	0.0	0.0	−93.9