

# ENVIRONMENTAL IMPACT MANAGEMENT

Environmental protection and mitigating negative impacts are among FPC's priorities. In its environmental activities, FPC complies with the laws of the Russian Federation, the Environmental Strategy of Russian Railways, and FPC's standard for Environmental Management System, FPC STO 1.16.001–2016.

To reduce the man-made impact of passenger services, FPC upgraded its rolling stock and facilities across its branches.

The Company keeps tracks from becoming polluted while maintaining an adequate level of sanitation at infrastructure facilities by only acquiring carriages equipped with composting toilets. In addition, old

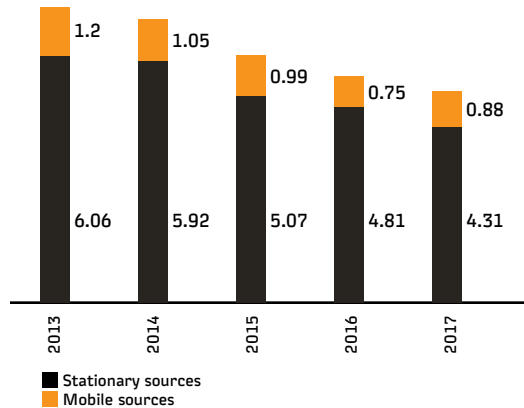
carriages are being fitted out with composting toilets during overhauls.

In an effort to reduce air pollution, FPC is installing boilers fired with environmentally friendly fuels, heating its carriages with electricity, and purchasing carriages with a central power supply.

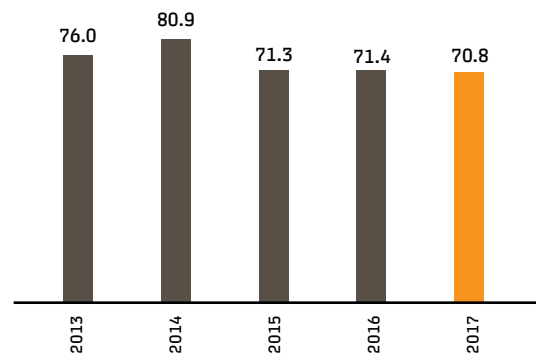
Air emissions were reduced by 6.65% in 2017.

FPC implements annual programmes to renovate its water treatment and carriage-washing facilities in efforts to reduce the negative effects of waste water on the environment and centralised water systems, including the installation of water recirculation systems and on-site water treatment facilities.

Air emissions, '000 tonnes



Waste water discharge to the environment, '000 m<sup>3</sup>



## ENERGY CONSUMPTION

### Fuel and energy consumption

Type	2015	2016	2017	Growth rate, change 2017/2016, %
Electricity, million kWh	135.6	131.8	129.3	-1.9
Diesel fuel, '000 tonnes	2.3	2.5	2.6	0.2
Coal, '000 tonnes	117.7	113.9	106.3	-6.7
Fuel oil, '000 tonnes	25.4	20.4	17.3	-15.2
Natural gas, million m <sup>3</sup>	24.3	25.6	23.3	-8.8
Gasoline, '000 tonnes	1.2	1.0	0.9	-12.7
Briquettes, '000 tonnes	3.4	3.5	3.0	-13.7
Pellets, '000 tonnes	1.5	1.8	1.2	-36.4
Wood, '000 m <sup>3</sup>	1.9	1.3	0.8	-42.8
Total, '000 t c.e.	211.1	201.1	186.3	-7.3

Total fuel and energy savings amounted to 7.3% vs 2016 baseline in c.e. terms.

#### Actual fuel and energy costs in 2017:

- Electricity: RUB 645.1 million
- Diesel fuel: RUB 92.7 million
- Coal: RUB 280.3 million
- Fuel oil: RUB 200.1 million
- Natural gas: RUB 133.4 million
- Gasoline: RUB 41.0 million
- Briquettes: RUB 17.0 million
- Pellets: RUB 9.5 million
- Wood: RUB 2.8 million

## CHARITABLE ACTIVITIES

An important component of FPC's business is social and charitable activity, as well as support for projects in culture, education, healthcare, sports, and other social initiatives.

Donor's Day has become a tradition for FPC's employees, and the number of those joining the donor movement is rising each year. FPC's employees actively participated in two events, with more than 35 litres of blood and over RUB 100,000 collected in donations to the Podari Zhizn (Gift of Life) charitable foundation for children's medical treatment.

The blood received was used to treat patients in the municipal perinatal centre and multi-purpose adult and children's hospitals.

In maintaining the annual event, which began in 2016, and as part of celebrations of the Day of the Railway Worker, the Achieving the Goal! charity run was held at Moscow's Victory Park (Poklonnaya Gora). The funds collected at the sporting event were handed to the Life Line charity foundation focusing on supporting severely ill children



We encourage the readers of this Annual Report to follow our initiative to the best of their ability and join the charity movement.