

# ENERGY EFFICIENCY

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

Despite limitations related to the coronavirus pandemic, improvement of energy efficiency and reduction of energy intensity of the Company's production operations, continued in 2021 through implementation of the following measures:

- 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

## Sustainable water use

Energy consumption	In physical terms				In monetary terms, RUB million			
	2019	2020	2021	Change 2021/2020, %	2019	2020	2021	Change 2021/2020, %
Electric energy, million kWh	127.363	107.738	<b>111.942</b>	4	678.3	605.4	<b>689.2</b>	14
Diesel fuel, '000 tonnes	2.451	1.947	<b>3.139</b>	61	113.4	85.7	<b>150.2</b>	75
Coal, '000 tonnes	102.215	76.982	<b>79.198</b>	3	350.7	277.0	<b>279.0</b>	1
Fuel oil, '000 tonnes	14.474	10.126	<b>10.797</b>	7	228.0	107.8	<b>213.2</b>	98
Natural gas, million m <sup>3</sup>	22.323	19.312	<b>22.917</b>	19	133.4	114.2	<b>141.4</b>	24
Petroleum, '000 tonnes	0.837	0.610	<b>0.603</b>	-1	43.1	33.3	<b>32.8</b>	-1
Briquettes, '000 tonnes	3.587	2.409	<b>2.725</b>	13	31.3	20.1	<b>22.4</b>	12
Pellets, '000 tonnes	0.861	0.534	<b>0.452</b>	-15	6.6	4.0	<b>3.3</b>	-17
Firewood, '000 m <sup>3</sup>	0.263	0.092	<b>0.074</b>	-19	0.6	0.3	<b>0.2</b>	-20