

Consumption of fuel and energy resources in 2022–2023, GJ

GRI GRI 302-1

Resource type	2022	2023
Electrical energy, total	185,643,079	185,414,068
Diesel fuel, total	111,367,554	111,958,186
Coal ¹	11,664,618	11,371,176
Fuel oil	8,309,087	7,575,185
Natural gas	13,229,607	12,605,250
Petrol	1,213,404	1,606,672
Third-party heat energy	8,711,250	8,643,454
Total	340,138,598	339,173,992

Consumption of fuel and energy resources for heat generation by Russian Railways' structural units in 2022–2023

GRI GRI 302-1

Resource type	Unit of measurement	2022	2023
Coal	kt	451.0	453.0
Natural gas	mcm	390.5	372.3
Fuel oil	kt	203.4	188.5
Diesel fuel	kt	5.0	5.0
Electrical energy	m kWh	161.0	817.1
Other sources	kt	2.0	2.2

Consumption of fuel and energy resources for heat generation in 2022–2023, GJ

GRI GRI 302-1

Resource type	2022	2023
Coal	9,091,680	9,131,848
Natural gas	13,203,451	12,586,621
Fuel oil	8,164,559	7,566,084
Diesel fuel	211,958	212,831
Electrical energy ¹	579,503	2,941,444
Other sources	28,482	31,387

¹ The increase in electrical energy consumption for heat generation in 2023 is due to changes in the calculation methodology for this indicator.

Targets in energy savings and energy efficiency to be achieved through the Energy Savings and Energy Efficiency Programme of Russian Railways

GRI GRI 302-4

No.	Branch/unit	Expenses, RUB '000		Savings by fuel and energy type																				
				Electrical energy, '000 kWh		Diesel fuel, t		Petrol, t		Fuel oil, t		Natural gas, '000 cu m		Heat energy, Gcal		Coal, t		Other types of fuel and energy, t of reference fuel		Water for cold water supply, '000 cu m		Total, GJ		
				Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan
1	E-Sib. Rail	1,316.540	1,316.540	308.6	319.6	9.1	9.4	9.2	9.4						3,955.5	4,017.4	3.1	3.2					18,541.9	18,868.7
2	Gork. Rail			418.6	420.9	4.2	4.3	4.0	4.0						1,046.3	1,067.0	8.0	8.6					6,410.8	6,522.6
3	F-East. Rail	206.283	206.283	443.2	453.6	25.8	26.8	3.8	3.9	6.2	6.4				1,355.7	1,398.5	170.2	177.4					12,221.3	12,640.3
4	T-Baik. Rail	1,125.331	1,125.331	415.1	429.1	7.1	7.3	4.0	4.1						1,219.4	1,267.9	38.0	38.9					7,849.4	8,133.6
5	W-Sib. Rail	28.311	28.459	1,536.1	1,566.0	6.2	6.3	5.0	5.1			3.3	3.3	1,870.3	1,897.2	20.5	20.6					14,380.7	14,611.4	
6	Kuyb. Rail			461.4	474.3	7.0	7.0	5.0	5.1	4.0	4.1	0.4	0.4	1,050.5	1,071.6	1.5	1.5					6,784.2	6,933.9	
7	Klng. Rail	27.8	27.8	91.0	91.0	16.5	16.5	1.1	1.1	10.8	11.1	120.2	122.5	327.8	330.4	0.3	0.3					6,956.4	7,059.2	
8	Kras. Rail	501.066	501.066	265.2	273.7	5.0	5.2	3.0	3.2					910.6	928.2	20.0	21.1					5,519.3	5,660.7	
9	Moscow Rail	12,799.604	13,067.9	888.2	899.0	10.0	10.1	2.3	2.3			6.0	6.1	1,185.8	1,206.6	0.9	0.9					8,914.3	9,047.2	
10	Okt. Rail	6.120	3.134	1,847.0	1,870.1	11.0	11.5	4.1	4.1						3,405.8	3,473.7	76.3	77.2					23,108.7	23,519.0
11	Priv. Rail			116.4	117.5	4.0	4.1	3.0	3.1			1.8	1.9	207.0	208.0	8.0	8.0					1,813.4	1,828.4	
12	Sverd. Rail	14.4	14.4	769.6	782.9	6.2	6.4	9.2	9.4			1.7	1.8	3,075.1	3,155.8	12.9	12.9					16,644.6	17,050.0	
13	North. Rail	901.0	901.0	217.5	224.9	6.0	6.2	3.0	3.1			2.7	2.8	1,456.1	1,496.4	54.0	55.4					8,452.5	8,689.2	
14	N-Caucas. Rail			363.0	368.4	8.7	8.8	10.9	11.1			53.8	54.5	402.7	406.2	39.0	39.5	62.3	64.3			8,276.2	8,419.9	
15	S-East. Rail			170.1	174.2	4.0	4.1	4.0	4.1			15.3	15.7	376.7	384.7	8.0	8.2					3,217.1	3,290.0	
16	S-Urals. Rail			677.6	689.6	3.0	3.1	2.1	2.2					900.0	926.1	4.0	4.1					6,512.5	6,673.8	
17	Cent. Dir. of Infrastr.	68,622.898	67,626.424	36,642.6	37,653.8	2,771.8	2,839.0	379.5	391.7	26.5	27.1	9.1	9.3	8,226.9	8,471.4	748.7	806.4	17.5	17.6			318,743.8	327,285.0	
18	Adm. Dep.	2,856.2	2,874.2	189.1	189.7	1.0	1.1	9.1	9.3			9.8	10.2	352.7	369.8							2,934.1	3,037.6	
19	Centr. Dir.			15,412.5	15,703.3	0.3	0.3	0.2	0.2					365.7	368.9	1.6	1.6					57,068.5	58,130.1	
20	Term. & Warehouse Dir.	1,328.461	1,328.893	578.6	586.5	198.2	200.7	4.9	5.0			5.3	5.4	1,092.1	1,107.4	105.6	107.0					17,601.0	17,840.8	
21	Track Overhauls Dir.	586.470	648.628	1,079.1	1,110.6	870.8	892.6	92.4	95.3			18.8	19.3	848.6	866.2	475.4	489.9					58,772.0	60,322.0	
22	Multip. Un. Trains Dir.	61.977	64.926	9,286.3	9,552.8	142.1	144.3	2.0	2.1			49.8	51.1	567.0	673.1	133.2	136.7					46,305.1	47,917.0	
23	Pass. Serv. Dir.	889.561	889.561	2,835.5	2,882.6	2.0	2.1	3.0	3.2			2.2	2.3	1,163.2	1,191.0	1.2	0.7					15,400.2	15,690.5	
24	Rail. Stat. Dir.	472.594	489.426	3,226.9	3,308.3	0.2	0.2	1.6	1.6			0.8	0.8	5,188.0	5,299.6	0.4	0.4					33,469.4	34,234.2	
25	Rail. Upgr. Dir.					0.9	0.9	3.3	4.4													186.2	233.8	
26	Comm. Netw. Dir.							1.9	1.9													83.8	84.8	
27	Rail. Electr. Overhaul Dir.			50.3	52.0	10.9	11.1	5.7	6.0					75.1	76.5	0.0	0.0					1,213.3	1,244.6	

No.	Branch/unit	Expenses, RUB '000		Savings by fuel and energy type																			
				Electrical energy, '000 kWh		Diesel fuel, t		Petrol, t		Fuel oil, t		Natural gas, '000 cu m		Heat energy, Gcal		Coal, t		Other types of fuel and energy, t of reference fuel		Water for cold water supply, '000 cu m		Total, GJ	
		Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual
28	Hi-Speed Trans. Dir.			1,164.8	1,200.2	0.3	0.4							20.1	20.7							4,292.1	4,422.1
29	Traction Dir.	23,580.805	23,580.805	523,329.1	538,305.8	48,379.4	50,608.5	2.1	2.2			1.3	1.3	7,551.6	7,840.9	10.8	11.2					3,971,380.8	4,121,224.5
30	Traction Repair. Dir.			45.4	45.5	11.3	11.3	2.1	2.2					220.5	222.9							1,659.4	1,674.5
31	Procur. Dir.	110.2	110.2	281.8	289.2	21.9	22.6	1.8	1.9			3.7	3.8	930.5	957.6	6.9	7.0					6,187.0	6,365.3
32	Transenergo	614,743.441	628,531.029	3,910.5	4,015.4	290.2	298.6	90.2	93.2					1,189.8	1,506.6							35,412.9	37,607.2
33	Main Computing Centre	173.6	335.183	1,330.6	1,346.6			0.7	0.7					364.6	374.1							6,348.8	6,447.6
34	Telecom. Dir.	12.336	12.336	2,612.1	2,701.5	4.0	4.2	64.4	66.4					123.4	128.3	0.1	0.1					12,959.5	13,401.7
35	Corp. Transp. Serv. Centre			23.9	24.2																	86.0	87.2
36	Eng. Design Centre for Infrastr.					0.1	0.2	0.1	0.1					34.8	36.4							156.3	164.2
37	Eng. Design Centre for Locom.			14.7	15.3	0.1	0.1	0.1	0.1					50.2	52.5							273.7	286.0
38	Eng. Design Centre for Railcars																						
39	Eng. Design Centre for Pass.																						
40	Digit. Serv. Centre													20.9	15.3							87.6	64.2
41	Env. Protect. Centre			15.2	15.4	9.6	9.9					5.1	5.2	8.8	8.9							669.2	688.1
42	NOD-4			1,815.1	1,862.4	28.9	29.7	6.0	6.2	5.0	5.4			552.0	574.8	6.1	6.2					10,664.2	10,990.9
43	Heat&Water Supp. Dir.	10,392.904	10,392.904	11,214.8	11,408.7	168.7	169.9	5.6	5.7	5,315.0	5,380.5	12,546.8	12,671.8	2,408.4	2,429.2	6,377.5	6,527.4	3,529.5	3,729.6	12.4	12.4	927,434.2	944,017.3
Total		740,757.901	754,076.427	624,047.6	641,424.4	53,046.4	55,384.6	750.2	775.0	5,367.5	5,434.6	12,857.9	12,989.5	54,099.9	55,827.6	8,368.2	8,572.6	3,609.3	3,811.6	12.4	12.4	5,684,992.1	5,872,408.9