

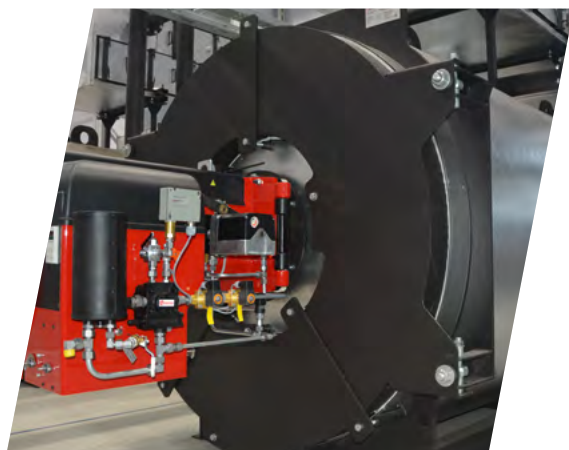
## 6.3. USE OF ENERGY RESOURCES AND ENERGY CONSERVATION

### Energy Consumption

Metering the consumption of fuel and energy resources is organised by the Company in accordance with the standards, regulations and specifications in electric power engineering, heat and gas supply. Fiscal metering of power consumption at Transneft subsidiaries is performed using the automated measuring and information system of energy monitoring and metering (AMIS EMM). The Company uses the data provided by the automated system of electric power technical metering (ASEPTM).

Areas of improving the electrical energy metering system:

- creating a multilevel energy metering system with centralised data processing;
- ensuring that the electric power consumption data collected at each interval are as complete as possible;
- increasing the information transparency of the electric power market due to the formation of complete energy balances;
- calculating and analysing actual and acceptable electric power imbalance for electric plants of Transneft Group subsidiaries;
- creating automated systems and databases to monitor the dynamics of electric power consumption by months and years and its correspondence with the dynamics of oil and petroleum products turnover;
- reducing the level of commercial and technical energy losses due to their expedite detection and localising;
- accepting the metering devices of Transneft Group subsidiaries as standard, their inclusion in the AMIS EMM with retrofitting of delivery points with control metering devices.



## Energy Saving

Transneft has developed and is implementing the Energy Saving and Energy Efficiency Enhancement Programme for 2021-2026 to save energy resources.

Its targets are:

- reduced specific electricity consumption for oil and petroleum products transshipment, intake, discharge, loading and delivery (thousand kWh/million tkm);

- reduced consumption of energy resources (gas, thermal and electrical energy, fuels and lubricants) used for internal consumption and operational needs when providing services related to oil and petroleum products transportation via trunk pipelines;

- availability of lighting fixtures with LEDs (%);

- reduction of greenhouse gas emissions.

## Energy Consumption in 2020

Energy resource	Unit of measurement	Transneft subsidiaries engaged in transportation		Transneft subsidiaries engaged in support services	NCSP Group
		Number/amount	including for oil and petroleum products transportation	Number/amount	Number/amount
Electricity (purchased) (taking into account the cost of power)	thousand kWh	12,749,267	12,734,022	79,467	61,573
	RUB thousand (excluding VAT)	42,589,027	42,525,480	378,984	293,898
Thermal energy (purchased)	Gcal	138,351	128,514	44,354	1,431
	RUB thousand	235,042	211,006	73,182	2,591
Fuel for the Company's own needs, including:	toe	277,431	254,781	10,467	26,985
	RUB thousand	5,427,347	5,033,252	250,557	388,508
Oil for heat generation	tonnes	60,978	59,115	0	0
	RUB thousand	1,118,953	1,081,482	0	0
Oil for electricity generation	tonnes	2,324	2,324	0	0
	RUB thousand	42,761	42,761	0	0
Natural gas for heat generation	thousand m <sup>3</sup>	57,225	55,399	3,411	14,950
	RUB thousand	301,474	289,860	18,650	93,817
Natural gas for electricity generation	thousand m <sup>3</sup>	0	0	0	3,904
	RUB thousand	0	0	0	24,009
Diesel fuel for heat generation	tonnes	2,152	2,020	28	26
	RUB thousand	110,749	104,778	1,426	1,097
Diesel fuel for power generation (at emergency DPPs)	tonnes	67	67	0	9
	RUB thousand	3,211	3,211	0	444
Furnace oil	tonnes	7,956	0	0	316
	RUB thousand	116,145	0	0	4,436
Motor fuel for motor transport and special-purpose vehicles	tonnes	74,175	69,906	4,524	3,317
	RUB thousand	3,693,148	3,474,666	230,223	264,705
Motor fuel (natural gas) for motor transport and special-purpose vehicles	thousand m <sup>3</sup>	592	581	18	0
	RUB thousand	9,355	9,312	258	0
<b>TOTAL</b>	<b>toe</b>	<b>1,863,252</b>	<b>1,837,324</b>	<b>26,564</b>	<b>34,752</b>
	<b>RUB thousand</b>	<b>48,219,864</b>	<b>47,742,556</b>	<b>702,723</b>	<b>684,997</b>