

## 6.3. USE OF ENERGY RESOURCES AND ENERGY CONSERVATION

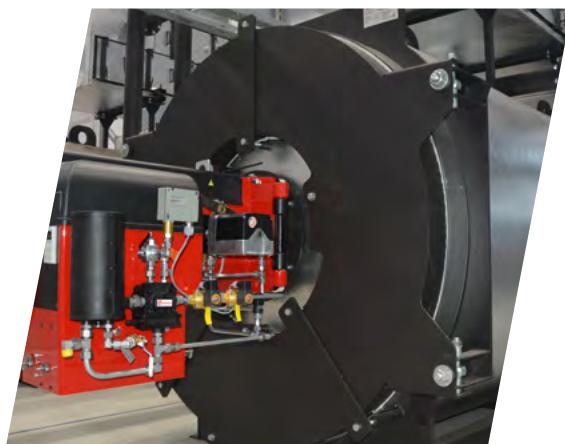
### Energy Consumption

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 |  |                |
| 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> |