

OVERALL ENERGY CONSUMPTION BY THE EXPLORATION AND PRODUCTION UNIT //

	2011	2012	2013	2014	2015	Change, %
Electricity consumption (purchase and generation), GWh	5,322	5,690	6,033,	6,177	6,420	3.9
Electricity consumption (purchase and generation), RUB mn	12,157	13,297	15,214	16,573	17,199	3.8
Heat consumption (internally produced and purchased from third parties), Gcal	304,552	294,062	291,033	254,301	234,539	-8
Heat consumption (internally produced and purchased from third parties), RUB mn	674	686	693	700	696	-0.6

The substantial reduction in the volume of heat consumed for oil production processes in 2015 is attributable to the implementation of an energy conservation programme, the preservation of production sites and changes in ambient air temperatures in 2014 and 2015.

LOGISTICS, PROCESSING AND SALES UNIT**Key energy efficiency measures performed by the Unit in 2015:**

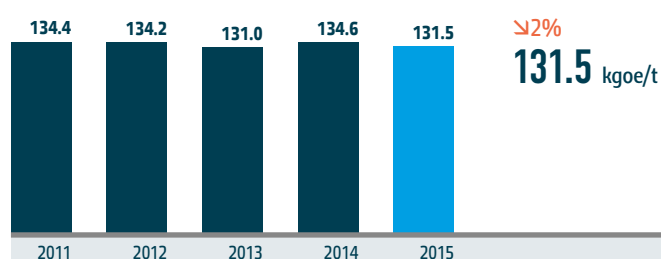
- introduction of motor drive frequency regulation systems;
- modernisation of lighting systems;
- introduction of energy efficient equipment and devices;
- replacement of boilers;
- compliance of furnaces with requirements of existing regulatory and technical documentation;
- reconstruction of the brickwork (lining) of boilers and furnaces with modern insulation materials;
- recovery and utilisation of heat flows;
- reconstruction of condensate collection and return systems;
- modernisation of heating systems;
- modernisation of forced air compressor equipment and air dehumidification systems;
- optimisation of furnace burning modes in order to reduce fuel consumption.

Energy costs decreased by RUB 937 million as a result of the measures to improve energy efficiency. The amount of heat, electricity and fuel saved totalled 3,973.9 TJ. Growth in energy intensity related to the introduction of new technological units slowed by 1.5%.

In 2015, the Logistics, Processing and Sales Unit approved a comprehensive programme to improve the reliability of power supplies to oil refining enterprises in 2016-2018. The programme aims to reduce the amount and duration of unplanned downtime of oil refinery technological units resulting from the disruption of power supplies and the failure of energy equipment.

SPECIFIC ENERGY CONSUMPTION AT ENTERPRISES OF THE LOGISTICS, PROCESSING AND SALES UNIT // kgoe/t

Source: Company data

**OVERALL ENERGY CONSUMPTION BY THE LOGISTICS, PROCESSING AND SALES UNIT //**

	2011	2012	2013	2014	2015	Change, %
Purchased electricity (minus electricity transferred to third parties), GWh	2,998	3,121	3,322	3,263	3,341	2.4
Purchased electricity (minus electricity transferred to third parties), RUB mn	5,764.67	5,768.32	6,883.46	6,831.58	7,335.72	7.4
Purchased thermal energy (minus electricity transferred to third parties), GJ	16,308,921	16,854,981	17,373,245	16,581,709	16,081,895	-3.0
Purchased thermal energy (minus electricity transferred to third parties), RUB mn	2,881.65	3,139.58	3,561.40	3,693.30	3,675.15	-0.5