

# PRODUCTION RESULTS

## Installed capacity

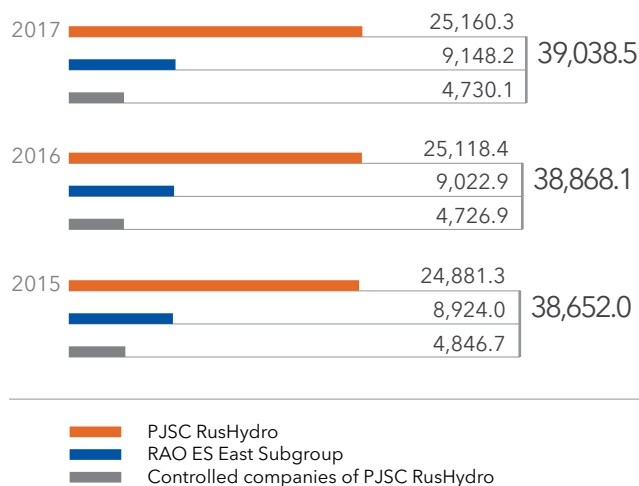
As of 01.01.2017, the installed capacity of RusHydro Group was 38,868.1 MW. During 2017, the total installed capacity increased by 170.37 MW and on 31.12.2017 it was 39,038.47 MW.

The growth of installed capacity at the facilities of RusHydro group occurred due to:

- Launch of the 1st stage of the 193 MW Yakutskaya GRES-2;
- Rerating of equipment at Zhigulevskaya HPP (+21.0, MW), Volzhskaya HPP (+10.5 MW), Saratovskaya HPP (+6.0 MW), and Novosibirskaya HPP (+5.0 MW).

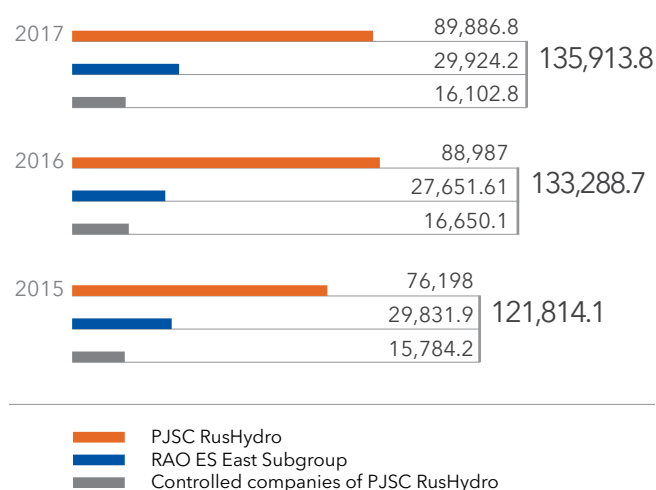
The decrease in capacity in the reporting year is due to reduced capacity at the plants of RAO ES East Subgroup: JSC Chukotenergo (-20.9 MW) and PJSC Kamchatskenergo (-25 MW).

### Installed capacity<sup>1</sup>, MW



<sup>1</sup> The data are given for PJSC Boguchanskaya HPP (owned by PJSC RusHydro and "Rusal"), taking into account the HPP-2 PJSC Kamgek and without including HPP-1 and HPP-3 PJSC Kamgek are managed by a trust.

## Dynamics of net supply of electricity of RusHydro Group<sup>1</sup>, mn kWh



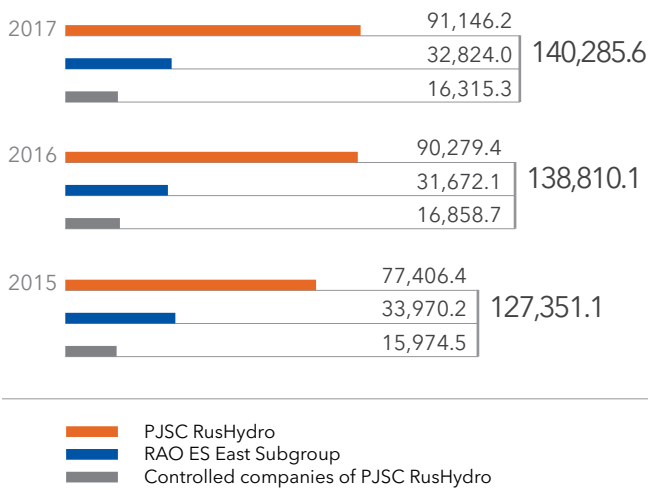
## Power generation

Production of RusHydro Group, including Boguchanskaya HPP, reached a historical record - 140,285.6 mn kWh, which is 1.06% higher than the production in 2016.

The main factors affecting RusHydro Group's production in 2017 were:

- Inflow into the main reservoirs of Volga-Kama Cascade was significantly higher than the values for many years;
- The autumn of 2017 saw commissioning of Yakutskaya GRES-2 in and gradual increase in capacity of the 2nd stage of Blagoveschenskaya CHPP, commissioned in 2016;
- Reduction of inflow to HPPs in the south of Russia, Siberia and the Far East regarding high water inflows of 2016 to the levels corresponding to long-run average.

### Dynamics of power generation of RusHydro Group<sup>1</sup>, mn kWh



Energy sales of companies of RusHydro Group - JSC ESC, PJSC Krasnoyarskenergosbyt, JSC Chuvash Power Sales Company and PJSC RESC - for 2017 amounted to 20,707 million kWh, which was 6 % less than the value for the same period in 2016. The decrease is due to the emergence of a number of large consumers at the Wholesale Electricity Capacity Market, primarily in the service area of PJSC Krasnoyarskenergosbyt, higher outdoor temperatures, and a number of other factors.

## RELIABILITY AND SAFETY OF ELECTRIC POWER FACILITIES

### Management approach to issues of safety, reliability and safety of hydraulic structures

Providing reliable power supply for the population and operations of equipment hydraulic facilities safe for the environment is one of the company's strategic goals.

The technical policy of the company defines the requirements for the integrated system of safety management of the production processes, which includes the subsystem of industrial safety management.

In 2017, in order to update the system of safety management and the reliability of hydraulic structures and equipment of the company, the decree of PJSC RusHydro of August 8, 2017 No. 515 approved "Regulations on the system of safety and reliability management of hydro-technical structures and equipment of hydroelectric power plants of PJSC RusHydro". [103-2],[103-3]

The company's tasks in the field of industrial safety:

- Continuous improvement of industrial safety of hazardous production facilities to the level corresponding to the best indicators in the world's electricity generating companies thanks to timely technical rehabilitation and enhanced reliability of technological equipment, in order to ensure their safe and accident-free operations;
- Creation and maintenance of efficient and effective system of industrial safety control, ensuring the planning and solution of the most important problems of industrial security.

The result of the achievement in the field of industrial safety is a stable reduction of industrial risks from the operation of hazardous industrial facilities by improving the production control, the quality of repairs, and inspections of industrial safety systems.

<sup>1</sup> The data are given for PJSC Boguchanskaja HPP (owned by PJSC RusHydro and "Rusal"), taking into account the HPP-2 PJSC Kamgek and without including HPP-1 and HPP-3 PJSC Kamgek are managed by a trust.