

NPP Construction in Russia

In 2012 the Integrated Company carried out designing and construction of 7 generating units in Russia (see Table 3.5), including construction of 5 generating units in the capacity of general contractor: Kalinin NPP generating unit 4; Rostov NPP generating units 3 and 4; and Baltic NPP generating unit 1 and 2.

Table 3.5. List of NPP Generating Units Being Constructed and Designed by the Integrated Company in Russia, and Status of Work



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Projects	Status of Work as of the End of 2012
Kalinin NPP Generating Unit 4	Put into commercial operation
Rostov NPP Generating Unit 3	Construction
Rostov NPP Generating Unit 4	Construction
Baltic NPP Generating Unit 1	Construction
Baltic NPP Generating Unit 2	Construction
Nizhny Novgorod NPP Generating Unit 1	Design and survey work
Nizhny Novgorod NPP Generating Unit 2	Design and survey work

In all projects on NPP construction in Russia the Integrated Company acts in the capacity of general contractor and renders the whole range of services from designing to commissioning of facility. The customer of each project is OJSC Rosenergoatom Concern.

Tver Region. Kalinin NPP, Generating Unit 4

Project description. The work on construction is carried out on the basis of a contract signed between NIAEP and OJSC Rosenergoatom Concern in 2008. Construction of Kalinin NPP unit 4 started in 2007 and was completed in 2012.

2012 results. The scope of design and exploration work amounted to 147,828.61 thousand rubles in 2012. The key events in the reporting period were the completion of work on the project and commissioning of Kalinin NPP unit 4 in September 2012. The level of the project availability on 2012 was 100% and contribution of the reporting period to the availability level amounted to 8.82%. In 2012 the Integrated Company cooperated with 12 subcontractors during performance of work on the Kalinin NPP project. The total number of staff of the subcontracting organizations amounted to 1,083 people, including 903 workers.

2013 arrangements. Construction is completed.

Rostov Region. Rostov NPP, Generating Units 3 and 4

Project description. The work on construction of Rostov NPP units 3 and 4 is carried out on the basis of a contract concluded by NIAEP and OJSC Rosenergoatom Concern in 2009. Construction of generating unit 3 started in 2009, and it is planned to complete the work in 2014. Construction of generating unit 4 started in 2009, and it is planned to complete the work in 2017.

2012 results. All scheduled work was completed in due course in 2012. The scope of design and exploration work in respect of generating unit 3 amounted to 1,217,978.42 thousand rubles, and in respect of generating unit 4 273,12.07 thousand rubles. In October 2012 voltage supply for the balance of the plant was performed on unit 3. As of the end of 2012 the availability of generating units 3 and 4 amounted to 42.07% and 15.55%. The contribution of the reporting period to the project availability was 16.07 and 9.09 percent for units 3 and 4 accordingly. The total scope of work on generating unit 3 is completed to 101.97% and on generating unit 4 to 97%. In 2012 the Integrated Company cooperated with 42 subcontracting organizations during performance of work on the Rostov NPP project. The total number of staff engaged amounted to 6.253 including 5.148 workers.

2013 arrangements. Further work on the project is scheduled for 2013. The expected contribution of 2013 to the availability of generating unit 3 amounts to 23.13%, thus, by the end of 2013 the availability of the unit will be 65.2%. The expected contribution of 2013 to the availability of generating unit 4 amounts to 12.47 percent, thus, by the end of the year generating unit 4 will be completed to 28.02%.



Kaliningrad Region. Baltic NPP, Generating Units 1 and 2

Project description. The work on construction of generating units 1 and 2 is carried out on the basis of a contract signed by NIAEP and OJSC Rosenergoatom Concern in 2011. Construction of generating unit 1 started in 2011, it is planned to complete the work on unit 1 in 2017 and on unit 2 in 2018.

2012 results.

For generating units 1 and 2 accordingly:

The scope of design and exploration work amounted to 846,622.37 thousand rubles and 303,277.30 thousand rubles.

The availability by the end of 2012 amounted to 4.14% and 1.16%.

The contribution of the reporting year to the project availability amounted to 4.14% and 1.16%.

In 2012 the total scope of work is completed to 87.84% and 93.11%.

In 2012 the Integrated Company cooperated with 24 subcontracting organizations during generating units installation on the Baltic NPP project. The total number of staff of the subcontracting organizations amounted to 1,160 people, including 935 workers.

2013 arrangements. By the end of 2013 it is planned that generating unit 1 will be completed to 15.52%, and generating unit 2 to 2.64%. Thus, the 2013 contribution to the availability of units 1 and 2 will amount to 11.37% and 1.48% accordingly.

Nizhny Novgorod Region. Nizhny Novgorod NPP, Generating Units 1 and 2

Project description. The initial project preparation was completed in 2010. Expert conclusions were issued by the Scientific and Engineering Center for Nuclear and Radiation Safety. In January 2011 OJSC Rosenergoatom Concern obtained a license for construction of generating units 1 and 2 of the Nizhny Novgorod NPP issued by Rostekhnadzor (Federal Service of Environmental, Technological and Nuclear Supervision).

2012 results. In 2012 design and exploration work was carried out. Justifications of investment, materials on safety cases, engineering surveys were elaborated. In 2012 the total amount of design and exploration documentation amounted to 975,889.38 thousand rubles.

2013 arrangements. It is planned to complete design by the end of 2013.



Multi-D
engineering