

## **Development strategy**

### **Future oriented process organization**

**Information about the implementation of the agreement with the region Administration to ensure the future connection of the consumers (concerning the objects included into the agreement where the source is the payment for technological connection).**

**“Astrakhanenergo” branch of IDGC of the South, JSC** prepared a draft Agreement “On interaction of the Astrakhan Region Administration and RAO “UES of Russia” JSC aimed at the development of electric power system of the Astrakhan region and reliable power supply of its consumers provision”. The draft of the Astrakhan region agreement went through the process of coordination in the Astrakhan Region Government, “FGC UES” JSC.

Because of RAO “UES of Russia” JSC activity cessation (on July 1, 2008) the procedure of coordination and signing of the Agreement is suspended.

At present, in accordance with the minutes of the meeting headed by V. U. Sinyugin, Deputy Minister of Energy of the Russian Federation as of July 30, 2008 No. 9, “FGC UES” JSC as the legal successor of RAO “UES of Russia” JSC was determined as the major coordinator of the parties during the conclusion (correction) and analysis of the present Agreements implementation. “SO UES” JSC was also determined as the party of the Agreements carrying out the coordination of the Agreements activities correspondence to the conditions of reliability ensuring of UES future work regimes.

As a pilot project aimed at the development of the conclusion (correction) mechanism of the Agreements were determined the agreements between RAO «UES of Russia» JSC and the Government of the Tyumen region, Government of Khanty-Mansi autonomous area – Yugra and Yamalo-Nenets autonomous district Administration.

By the decision of the mentioned meeting, “FGC UES” SC was charged to present to the Ministry of Energy of the Russian Federation the edited variant of the Agreement ext as well as the proposal concerning the new procedure of conclusion (correction) of the Agreements and to inform of the results of the pilot project realization prior to September 1, 2008. The work aimed at coordination and signing of the Agreement shall be continued after the results summing up of “FGC UES” JSC pilot project implementation.

Within the framework of “Astrkommunenergo” electric grid complex municipal unitary enterprise (MUE) (the city of Astrakhan) acquisition by “Astrakhanenergo” branch of IDGC of the South, JSC, in accordance with the Federal law as of December 30, 2004 No. 210-FL “On tariff regulatory framework of public utility complex organizations” the explanatory materials were sent to the interregional department (ID) “City of Astrakhan” to settle the tariff for connection to the power grid for 2008–2010 together with the amount of investments accounting for RUR 4,616,364 thousand (excluding VAT).

As a result, on April 24, 2008 by the Decision No. 48, No. 49 of the ID State Duma "City of Astrakhan" the investment program aimed at the power supply development in the city of Astrakhan for 2008-2010 was approved, as well as the tariff for connection to the electric grid accounting for RUR 23,082 per 1 kW. The source of the investment program financing is the payment for technological connection to the electric grid. The tariff is valid in the territory of ID "City of Astrakhan".

"Astrakhanenergo" branch of IDGC of the South, JSC, provides the future oriented connection to power grids of the city of Astrakhan consumers within the framework of the signed agreements for technological connection, according to Decision No. 49 of the ID State Duma "City of Astrakhan", Resolution of the Russian Federation Government as of June 9 No. 360 "On approval of the rules determining the conclusion and fulfillment of the public agreements on connection to the systems of municipal infrastructure", Federal Law as of December 30, 2004 No. 210-FL "On tariff regulatory framework of the public utility complex organizations".

**"Volgogradenergo" branch of IDGC of the South, JSC** prepared a draft Cooperation Agreement between RAO "UES of Russia" JSC and Volgograd Region Administration. It was approved by RAO "UES of Russia" JSC regional working group and forwarded to "FGC UES" JSC for approval. Because of RAO "UES of Russia" JSC liquidation on July 1 2008, the procedure of approval and signing of the Agreement was suspended.

Currently, according to the minutes of the meeting headed by V. U. Sinyugin, Deputy Minister of Energy of the Russian Federation as of July 30, 2008 No. 9, "FGC UES" JSC as the legal successor of RAO "UES of Russia" JSC was entrusted with the functions of the major coordinator of the parties during the conclusion (correction) and analysis of the current Agreements fulfillment. "SO UES" JSC was also determined as the party to the Agreements carrying out the coordination of the Agreements activities compliance with the conditions of reliability ensuring of UES future work regimes.

The agreements between RAO "UES of Russia" JSC and the Government of the Tyumen region, Government of Khanty-Mansi autonomous area – Yugra and Yamalo-Nenets autonomous district Administration were determined as a pilot project aimed at the development of the conclusion (correction) mechanism of the Agreements.

By the decision of the mentioned meeting, "FGC UES" JSC charges to present to the Ministry of Energy of the Russian Federation the edited variant of the Agreement text as well as the proposal concerning the new procedure of conclusion (correction) of the Agreements and to inform of the results of the pilot project realization prior to September 1, 2008. The work aimed at coordination and signing of the Agreement shall be continued after the results summing up of "FGC UES" JSC pilot project implementation.

The Cooperation Agreement “On cooperation of the Volgograd region Administration and IDGC of the South, JSC”, in the course of the technological connection of consumers realization in the Territory of the Volgograd region as of October 25, 2007 No. S-247/07 was signed.

Within the framework of the Agreement power, “Volgogradenergo” branch of IDGC of the South, JSC, developed and the Volgograd region administration approved the investment program of “Volgogradenergo” branch of IDGC of the South, JSC, aimed at creation of the technical possibility for technological connection of the consumers to power grids of “Volgogradenergo” branch of IDGC of the South, JSC, for 2007–2009 and the investment program of “Volgogradenergo” branch of IDGC of the South, JSC, aimed at the creation of the technological possibility (distribution electric grids construction) for technological connection of the consumers to the electric grids of “Volgogradenergo” branch of IDGC of the South, JSC for 2007–2009.

Within the framework of the invest program implementation, it is put forward to build (reconstruct) 8 substations of 110 kV, the implemented transformer capacity of the substations is 492 MVA, as well as to construct (reconstruct) 153 pieces of transformer substations of 10(6)/0.4 kV, the implemented transformer capacity of transformer substations of 10(6)/0.4 kV – 259.29 MVA, and to built new cable lines (overhead lines) with the total length of 394.06 km, thus, the total amount of capital investments accounts for UR 2,870.2 million.

The abovementioned investment programs serve the basis for the calculation of the payment rates for technological connection, approved by regional tariffs regulation management (RTRM) of the Volgograd region Administration as of June 4, 2008 No. 17/2.

To provide the reliable and sustainable power supply of the consumers of the Republic of Kalmykia in November 22, 2007 the Cooperation agreement was signed aimed at the cooperation of the Republic of Kalmykia Administration and IDGC of the South, JSC in case of failure occurrence in the power supply of the region or such a threat.

**Rostovenergo branch of IDGC of the South, JSC** as of June 30, 2008 signed the Cooperation Agreement “On cooperation between the Rostov region Administration and RAO “UES of Russia” JSC” directed to the development of the electric grid system of the Rostov region and provision of the reliable power supply of its consumers” as well as the “First and foremost measures program directed to the construction and reconstruction of power capacities for the period up to 2012 year to exclude the capacity deficiency and ensure the reliability increase of the Rostov Region consumers supply”.

Within the framework of the Agreement approved till 2012, it is planed to put into operation 15 substations of 110 kV which total implemented capacity accounted for 1200 MVA, the total amount of capital investments accounted for RUB 7,500 million.

Rostovenergo branch of IDGC of the South, JSC prepared and sent on February 19, 2009 to the Rostov region administration the proposals concerning the terms correction and activities fulfillment determined in the Agreement.

**Information on the presence (working out) of the grids future oriented development schemes coordinated with the administration of the Russian Federation subjects.**

In December 2007, "Volgogradenergoproekt" branch of "South Engineering Power Center" JSC developed for "Astrakhanenergo" branch of IDGC of the South, JSC the scheme called "Distribution grids of 35–110 kV capacity future oriented development scheme of "Astrakhanenergo" JSC for the period till 2015 with an outlook till 2020". The mentioned scheme was coordinated by "SO UES" JSC Astrakhan regional dispatch administration and IDGC of the South, JSC. It was not coordinated in the Astrakhan region administration.

In March 2007, Volgogradenergoproekt branch of "South Engineering Power Center" JSC for "Volgogradenergo" branch of IDGC of the South, JSC, developed the scheme called "Distribution grids of 35–110 kV future oriented development scheme of "Volgogradenergo" JSC for the period till 2015 with an outlook till 2020". In October 2007, the above-mentioned scheme was coordinated by IDGC of the South, JSC. It was not coordinated in the Volgograd region administration.

According to the present scheme the city of Volgograd Administration approved the sector scheme of the electric grids future oriented development of "Volgogradenergo" JSC in the city of Volgograd.

At present, "Volgogradenergo" branch of IDGC of the South, JSC, carries out the work directed to the future oriented development Scheme implementation and land plots reservation aimed at new substations and power transmission lines overhangs in the city of Volgograd.

In "**Kalmenergo**" branch of IDGC of the South, JSC the future oriented development scheme is not topical at present.

In December 2008, "Yuzhenergoproekt" branch of "South engineering power center" JSC for "**Rostovenergo**" branch of IDGC of the South, JSC, implemented the scheme of "Rostovenergo" JSC Regional Grid Company development for the period up to 2010 with an outlook till 2020.

At present "Rostovenergo" branch of IDGC of the South, JSC, carries out the internal assessment of the Future oriented development scheme. After the assessment completion the Scheme and notes will be sent for approval to IDGC of the South, JSC. The abovementioned scheme was not coordinated in the Rostov Region administration.

### **Information about the Unified National Energy System (UNPG) and generation objects.**

Astrakhan power system consists of 10 substations belonging to UNPG. There are no Astrakhanenergo substations belonging to UNPG objects on the balance of IDGC of the South, JSC.

According to the list of the closed main substations of Bulk Power Systems (BPS) of Centre branch of "FGC UES" JSC in the territory of Astrakhan and Volgograd region approved by the Chief engineer of BPS of Centre "FGC UES" JSC and coordinated with Deputy General Director of "SO UES" JSC – Operative dispatch administration of South as of March 5, 2008 in the territory of the Astrakhan region the closed substations are Vladimirovka, Kharabali and Gazovaya of 220 kV.

There are two generation objects of 480 MW total installed capacity in the Astrakhan region territory.

Volgograd power system consists of 33 substations belonging to UNPG. There are no "Volgogradenergo" branch substations belonging to UNPG objects on the balance of IDGC of the South, JSC.

According to the list of the closed main substations of Bulk Power Systems (BPS) of Centre branch of "FGC UES" JSC in the territory of Astrakhan and Volgograd region approved by the Chief Engineer of BPS of Centre "FGC UES" JSC and coordinated with Deputy General Director of "SO UES" JSC – Operative dispatch administration of South as of March 5, 2008 in the territory of Volgograd region the closed substations are Archeda, Gumrak, Krasnoarmeyskaya of 220 kV. There are no closed main substations of 35–110 kV.

In accordance with the letter of Volgograd Regional Dispatch Administration branch of "SO UES" JSC as of April 4 2008 No. 41-03/50a-77 the straps of 110 and 10 kV of Volgograd State District Power Station of "Volgograd Generation" branch of "SGC-TGC-8" are main substations where the limits for the connected capacity occur concerning the mode of the grid operation.

There are 6 objects of generation with the total installed capacity of 1,501 MW in the territory of the Volgograd region. There are two 220 kV substations on the balance of "Kalmenergo" branch of IDGC of the South, JSC, belonging to UNPG objects: "Elista-Severnaya" and "Bolshoy Tsaryn – 1". The above-mentioned 220 kV substations do not belong to the open main substations. There are no substations on the balance of "Rostovenergo" branch of IDGC of the South, JSC, belonging to UNPG objects. There are 23 substations belonging to UNPG on the balance of Rostov power system:

- 1 substation of 500 kV

- 22 substations of 220 kV (among them, according to the letter of “SO UES” JSC – Rostov regional dispatch administration as of March 26, 2008 No. 3-446 the closed substations are 220 kV substations R-4 and Koisug).

The generation objects located in the territory of the Rostov region and not included into the investments program approved by A. B. Chubais, RAO “UES of Russia” JSC Chairman of the Board of Directors, include Shakhtinskaya gas-turbine power plant. Rostovenergo branch of IDGC of the South, JSC, got the application to increase the capacity supplied to the electric grid of Shakhtinskaya gas-turbine power plant for the total customer contract demand of 106.7 MW.

On the basis of “Shakhtinskaya gas-turbine power plant” application made by “Rostovenergo” branch of IDGC of the South, JSC, “SO UES” JSC “Rostov regional dispatch administration” branch prepared and coordinated requirements specifications. Such requirements specifications are in the process of approval in IDGC of the South, JSC.

### **Information about the implemented programs of technological connection of objects being under construction.**

#### **Housing construction under Affordable Housing federal target program (FTP)**

In the city of Rostov-on-Don according to “Affordable Housing” FTP two sites were presented to build “Leventsovsky” residential area which contains 11 micro districts with the total power demand for 44 MW. “Rostovenergo” branch of IDGC of the South, JSC, got three applications with the total power of 12,215 W.

On May 8 2008 two technological connection agreements were signed on behalf of “KKPD-Invest”, JSC, for the connection of “Leventsovsky” first micro district and the first stage of the third micro district “Leventsovsky” with the total capacity of 8,773 kW for the amount of RUR 38,192,680.8, VAT excluded. “KKPD-Invest” JSC issued technical requirements for the power supply of the construction site of “Leventsovsky” first micro district with the capacity of 1 MW.

To carry out the technological connection, it is necessary to reconstruct P-26 substation of 110 kV with the change of transformers of 2x25 MVA by 2x40 MVA and reconstruction of 110 kV P-19 substation with installation of the 3rd transformer of 40 MVA. At present, the abovementioned works has not been started.

Within the framework of the Federal target program “Affordable Housing” in the territory of the Rostov Region the following programs of villa communities’ construction are implemented:

- In Neklinovsky district, in the village of Pokrovskoye, the construction of 20 low-rise houses is carried out. Technological connection agreements will be signed with physical persons. To carry out the technological connection it is necessary to build 10 kV overhead lines with the length of 350 m, 0.4 kV overhead lines with the length of 600 m as well as to

construct the transformer substations of 10/0.4 kV – 160 kVA. For the present moment the design and survey works have been carried out.

- In the village of B. Martynovka the construction of 19 low-rise houses is carried out. Technological connection agreements were signed between Donenergo JSC and physical persons. To carry out the technological connection it is necessary to reconstruct the relay protection and emergency equipment and linear cell No. 4 – 10 kV at 110 kV Martynovskaya substation; for the present moment no activities have been implemented as far as there is no application from “Donenergo” JSC;

- In Novomirsky farm, the construction of 32 low-rise houses is carried out. The technological connection agreement was signed with the Kalinov Village settlement Administration. To carry out the technological connection in the loads centre it was necessary to put into operation the transformer substations of 10/0.4 kV with the transformer capacity of 250 kVA. Between the supports of 15, 16 overhead lines of 10 kV it is necessary to build the additional dead-end support as well as carry out the construction of a 25-meter separate overhead line of 10 kV to the new transformer substation of 10/0.4 kV, from the switchgear of 0.4 kV of new 10/0.4 kV transformer substation to construct 2 power transmission lines of 0.4 kV with the total length of 2.3 km. In December of 2008 all the works were carried out and the equipment was transited to IDGC of the South, JSC, branch in payment for technological connection.

- In Peshkovo village the construction of 20 low-rise houses is carried out. Technological connection agreements are concluded with the physical persons. The agreement was also signed with the Administration of Peshkovo village settlement to organize the illumination of the village. To carry out the technological connection, it is necessary to build 10 kV overhead line of 200 m total length, 0.4 overhead line of 1.5 km, and integrated transformer substation of 10/0.4 kV – 250 kVA.

- Construction of 20 low-rise houses is performed in Kugei village. Contract for technological connection was signed with the Administration of Kugei Village. In order to carry out technological connection, construction of OL- 10 kV– 100 m, OL-0.4 kV – 1.5 km, complex transformer substations – 10/0.4 kV – 250 kVA is needed;

- In Egorlykская village it is planned to build 300 living houses. For the present moment 50 applications have been submitted, on the basis of which the technological connection agreements were signed. To carry out the technological connection at 35 kV E3 substation it is necessary to reconstruct one linear cell of 10 kV No. 5 and one water cell of 10 kV No. 3 with the change of the oil circuits for vacuum ones, as well as reconstruct relay protection and emergency controls. For the present moment the works have not been carried out.

- In Bagayevskaya village the construction of 7 living houses is carried out. Technological connection agreements were signed with physical persons. All the technical activities are carried out with the help of “Donenergo” JSC.
- In Krasnogoryatsky village the construction of 10 living houses is carried out. Technological connection agreement was signed with the administration of Kommunarsky village settlement. To carry out the technological connection it is necessary to build integrated transformer substation of 100 kVA, 10 kV overhead line with the length of 120 m, 0.4 kV overhead line of 430 m. In December of 2008 all the works were carried out by the Customer (ID Administration) and equipment was transferred to the branch of IDGC of the South, JSC, in payment for technological connection.

Power supply of the abovementioned districts is planned to carry out in the second half of 2009 within the framework of technological connection investment program implementation.

According to the plan of the City of Astrakhan districts development for 2007–2011 worked out by the Architecture and Urban Planning Committee of the city of Astrakhan it is planned to connect the potential load of multistoried residential construction – 90.5 MW, objects of individual residential construction – 8.3 MW, business and trade objects – 69.5 MW, social and cultural facilities – 23.6 MW, as well as industrial purpose projects – 11.3 MW.

The city of Astrakhan carries out the program directed to objects construction of multistoried residential construction within the framework of slum dwelling and dangerous structure liquidation program. The given program is financed at the expense of federal and regional budgets. “Astrakhanenergo” branch of IDGC of the South, JSC, carries out the construction of electric grids within the framework of the signed agreements for technological connection to the electric grid.

All in all, the considerable part of the technological connection program (putting into operation and reconstruction of substations, construction and modernization of cable line and overhead lines) is implemented with the consideration of future oriented development of territories and requirements of the urban development plans of the housing construction. Objects financed out of the budgets of different levels shall be included into FTP after the completion of all the necessary activities, and, first of all after the determination of land plots right holders as well as housing construction planning permission. At present, the excessive amount of objects which shall be included into FTP shall go through the coordination stages in the regions and territorial formations.

### **Special economic zones**

Within the framework of social and economic development program implementation in the territory of the Rostov region it is planned to create the following industrial and social zones:

- Novoaleksandrovskaya industrial zone of the city of Azov. Total customer contract demand accounts for 39,878.1 kW. Eight agreements for technological connection were signed with all the residents of the zone of RUB 338,591,231.51 total value (VAT excluded). Power supply of the zone is planned to provide from “A-2b” new substation of 110 kV. The planned term of objects putting into operation is 2009–2010.
- South-Eastern zone of the city of Azov. For the present moment the technological connection agreement is signed with only one resident of the zone “Frito Lay Manufacturing” LLC. The amount of the signed agreement accounts for RUB 93,394.000 (VAT excluded). The main substation is 220 kV “A-20” substation; the planned term of the objects putting into operation is 2009.

### **Technological connection of the generation objects in accordance with the investment program**

#### **Astrakhan State District Power Station “SGC-TGC-8”**

The application from “SGC-TGC-8” for technological connection of Astrakhan State District Power Station was received by IDGC of the South, JSC, where it is planned to increase the amount of the consumed 10 MW capacity.

The connection of the applied capacity does not require new electric grid construction as well as reconstruction carrying out of the present electric capacities of IDGC of the South, JSC.

The project of the technological connection agreement was addressed to “SGC-TGC-8” as of November 18, 2008, but by the present moment it was not signed by “SGC-TGC-8”.

The coordination of requirements specification and power distribution scheme with Regional Dispatch Administration was not carried out, technical specifications were not developed, requirements specifications will be given out to the generation company after the agreement signing and power distribution scheme preparation.

#### **Tsymlyanskaya hidro-electric power station “SGC-TGC-8”**

The application from “SGC-TGC-8” for technological connection of Tsymlyanskaya Hydro-Electric Power Station was received by IDGC of the South, JSC, where it is planned to increase the amount of the consumed 2 MW capacity.

The connection of the given capacity does not require new electric grid construction as well as reconstruction carrying out of the present electric capacities of IDGC of the South, JSC.

The coordination with regional dispatch administration and Generation Company of requirements specification and power distribution scheme was not carried out, technical specifications were not developed, requirements specifications will be given out by the generation company after the agreement signing and power distribution scheme preparation.

On the basis of “SGC-TGC-8” letters as of June 17, 2008 the applications for technological connection of generation objects connection of “Rostov Thermal Power Station-2” and “Distribution Company No. 3” were cancelled as well as for technological connection of the generation objects of “Volga Thermal Power Station-2” and “Volgograd Hydro-Electric Power Station” as of October 9, 2008.

***The main purpose of IDGC of the South, JSC, activity concerning the technological connection for the near future is*** the needs meeting of the growing economy of the South of Russia as well as transition to the unified system of forming and application of payment for technological connection and achievement of mutual interests unity during the value determination of the technological connection of consumers to the electric grids.

Besides, the priority directions of the activity directed to technological connection are such projects as creation and development of the “Gambling Zone” (Krasnodar and Rostov region border), industrial zones development (Azov-City and Krasnosulinskaya zone – the Region of Rostov) as well as liquidation of the capacity deficiency in major industrial and residential centers – cities of Rostov-on-Don, Astrakhan, Volgograd, and Taganrog.

### **Top priority goals of activity and strategic objectives of IDGC of the South, JSC**

**The major purpose of IDGC of the South, JSC, activity is profit-making. To achieve this, in present conditions, the following goals and strategic objectives are of top priority for the Company:**

- Meeting of demand and electric capacities reserve creation in the amount outrunning the economic development by 3–5 years;
- Decrease of the Company’s electric grid facilities objects wear to the level of the developed countries;
- Ensuring of reliable and uninterrupted power supply of the consumers;
- Company’s operation productivity indices achievement to the level of the same electric grid companies of the developed countries of the world;
- Provision of the stable economic viability of the Company by 2015 at the level of the Russian Federation companies with the correspondent market conditions;
- Company’s capitalization growth ensuring to the level of the same companies from countries with the correspondent level of economic development;
- IDGC of the South, JSC, securities investment attractiveness increase.

**Within the framework of uninterrupted and reliable functioning of the electric grid facilities of IDGC of the South, JSC, within the framework of the increasing power**

**consumption and ensuring the possibility of new consumers' connection to the Company's electric grids, the top priority goals of IDGC of the South, JSC are:**

1. Tendency overcoming of the IDGC of the South, JSC, fixed assets ageing with the change of the outdated equipment as well as new technologies and materials equipment of increased strength and reliability use:

- SF6 circuit breakers of 110–220 kV;
- Vacuum circuit breakers of 10 kV;
- self-supporting insulated conductor (SIC) at overhead lines of 0.38 kV;
- overvoltage suppressor (OS) including the overhead OS to protect overhead lines of 110 kV and above without the ground wire;
- low-maintenance batteries;
- polymer insulator;
- AERO-Z type snow- and ice-proof wires at overhead lines of 110 kV and above;
- Spiral connecting equipment, stretching and supporting attachments and etc.

2. Future oriented schemes development of IDGC of the South, JSC, grids considering all the top priority trends and technologies.

3. The ensuring of IDGC of the South, JSC, electric grids adaptability to dynamically developing conditions in the regions, power loads growth and power supply reliability considering the consumers' needs.

4. Power losses decrease due to voltage regulation in the grid of 6–110 kV, putting the non-loaded transformers into reserve, power transmission lines overloaded zones relieving, detection and elimination of power imbalances and etc, Company's electric grids capacity increase due to the activities implementation directed to reactive power management.

5. Improvement and quality increase of the of Company's grids maintenance, decrease of the amount and duration of grids elements cut off with the implementation of new technologies including the complex maintenance methods as well as overhead lines of 0.38 kV alive maintenance.

6. Monitoring of the condition of the current power equipment as well as implementation of the modern methods and testing gadgets and diagnostics including thermal imaging control and non-burnout cable lines isolation control.

7. Substations reconstruction with the increase of the settled capacity to ensure the technological connection

8. Implementation of telemechanics gadgets and new generation connection as well as IT-technologies development.

9. The renewal of special-purpose machines and Mechanisms Park.

10. New information technologies use during the distribution power grids operation on the basis of SAP R/3.

11. Ensuring timely preparation of the Company's power facilities operation during autumn and winter period 2009/2010.

**To achieve the tasks set forth, all the branches of IDGC of the South, JSC, develop and implement the activities, target programs of substitution and modernization of the equipment, including:**

- Substitution of oil circuit breakers of 6–10 kV by vacuum ones at the substations of 35–110 kV;
- Substitution of isolating switches-short circuitors of 35–110 kV by SF6 (vacuum) circuit breakers;
- Substitution of key rod insulators of 110 kV;
- Self-supporting insulated conductors implementation;
- Automation of distribution electric grids of 6–20 kV on the basis of reclosers;
- Automation reconstruction of on-load tap changers and BAR;
- Technical re-equipment and reconstruction of the relay protection and automatic equipment;
- Telemechanisation, automation and modernization of the distributed control system objects (as well as telecommunication system and automated system of dispatch and process management);
- Measuring transformer of current and voltage of 35–110 kV change;
- Measuring transformer of current and voltage of 6–10 kV change;
- Reactive power operation activities;
- Activities directed to icing and snow sticking prevention.