



ТОВ «НВП «Енергорішення»

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Вух. №

Від

The company NPP Energoreshenie LLC is a research and production company operating on the market since 2007.

The main activity of the company is the implementation of complex services in the field of "turnkey" power engineering: design, supply of equipment for power plants and substations with voltage up to 750 kV, construction and electrical work (electrical equipment with voltage from 0.4 to 750 kV), including installation of any power electrical equipment, secondary switching circuits, relay protection and automation, telemechanics devices, production of switchgears up to 6300A, voltage class up to 1000, automation and control panels, relay protection and automation panels, diagnostics of electrical equipment of power plants, substations and networks of 750 kV.

LLC NPP Energoreshenie has all the necessary licenses and certificates for the performance of work:

- License (account) No. 201329774 dated August 18, 2016, issued by the State Architectural and Construction Inspectorate for design, construction and electrical installation works;

- Certificate of Conformity No. UA 94.003.02206-19 dated 12.12.2019, issued by the State Enterprise "Ukrmetrteststandart" for testing and analysis of complex mechanical and electrical properties of products;

- Gosgorpromnadzor permission No. 18.15.30 dated January 12, 2015 and No. 4667.13.32 dated December 26, 2013 to carry out work of increased danger.

Implemented projects carried out by NPP Energoreshenie LLC during 2014 - 2019:

- 2017. Construction and installation and commissioning works at the substation 330 kV Polyana to replace the AT-2 autotransformer type ATDTSTN - 200000/330/110/10, with the replacement of relay protection and automation equipment. Cherkasy region.

- 2017-2018 Delivery of equipment, construction, electrical installation and commissioning at the Vinnitskaya 750/330/110/35 kV substation for the installation of AT-4 type ATDTsTN 125000/330/110/35, with relay protection and emergency events recorder.

- 2017-2018 Construction and installation and commissioning works at the 330 kV Substation Pervomayskaya to replace the AT-1 autotransformer type ATDTsTN-250000/330/150/38, with the replacement of relay protection and automation equipment.

- 2017. Reconstruction of the electrical part of the hydraulic unit G8. Installation of electrical heating systems and other household electrical equipment. Replacement of recording devices for emergency processes of GRP 330/154 kV. Information collection system for registrars "Rekon", at the branch of "Kremenchug hydroelectric power station" of OJSC "Ukrhydroenergo".

- 2015. Reconstruction and modernization of the DZSh and 110 kV breakdown circuit breaker at the 220 kV Substation "Stryy" of SE "NEC" Ukrenergo "based on microprocessor protection manufactured by ABB.

- 2015. Construction, installation and commissioning works on the installation of a gas-insulated circuit breaker manufactured by Siemens and remote current transformers manufactured by ABB with the necessary equipment and materials at 220 kV Substation "Stryi" of the Western EU SE "NEC" Ukrenergo ".

- 2015. Construction, installation and commissioning work on the replacement of 750 kV arresters at the arrester in the L-ZAES cell F.V, with a 750 kV substation Dneprovskaya ORU-750 kV Dneprovskaya electric power plant of the National Company "Ukrenergo".

- 2016. Replacement of airborne SF6 circuit breakers and current transformers 300, 500, 750 kV manufactured by AVV at 750 kV Substation Donbasskaya.

- 2014. Installation and commissioning work during the reconstruction (replacement) of a direct current switchboard with a charging device on a 330/110 kV switchgear and control unit and a direct current switchboard of a hydroelectric power station with a charging device of the Kanevskaya hydroelectric power station of Ukrhydroenergo OJSC manufactured by Elkor.

- 2012-2013 Electrical installation and commissioning during the construction of a TPP with three gas turbine units with a capacity of 13.5 MW each for the Kiev cardboard and paper mill in Obukhov metro station (110 kV switchgear, 10 Alstom cells, 3 ZTR 110/10 kV block transformers (Zaporozhtransformator PJSC)), relay protection of 110 kV equipment based on microprocessor terminals ABB and Alstom, 3 sections of GRU-10kV manufactured by Schneider, 3 generators manufactured by GE (General Electric), generator excitation systems manufactured by ABB.

- 2013. The complex of construction and installation and commissioning works during the construction of the 10KV KRPZ produced by the High Voltage Union (RZVA) at the Pirogovskaya 110 / 10kV Substation Kyivenergo PJSC.

- 2015. Implementation of "Construction, installation and commissioning works at the facility" Unified property complex of primary seed production of Bayer LLC, Kiev region. Mironovsky district, with. Central.

- 2016. Installation work 2KTPGS-1000/10 / 0.4 and 0.4 kV networks., Pereyaslav-Khmelnitsky, LLC Costal Ukraine.

- 2013-2014 Electrical installation and commissioning when replacing relay protection and automation of overhead lines of 110 kV "Kartonnaya - 1,2" Tripolskaya TPP Substation 110/10/6 kV "Kartonnaya" based on microprocessor terminals ABB and Alstom.

- 2014. Design, installation and commissioning of relay protection, unit automation and generator excitation system of unit No. 2 of Tripol TPP, Centrenergo OJSC based on microprocessor protection manufactured by ABB.

- 2016-2019 Diagnostics of 330/110 kV outdoor switchgear equipment and power block transformers at Tripolskaya TPP of Centrenergo OJSC.

- 2017-2018 Electrical installation and commissioning during the reconstruction (replacement) of high-voltage equipment with voltage of 110 kV and 330 kV outdoor switchgear 330/110 kV of Kanevskaya HPP of Ukrhydroenergo OJSC (gas-insulated

switches and disconnectors manufactured by Alstom, current and voltage transformers made by ABB) and generator excitation systems.

- 2016. Construction, installation and commissioning works on the reconstruction of 10 kV KRUN and 10 kV switchgear with external networks produced by the AVM AMPER company of 10 kV Kanevskaya HPP of Ukrhydroenergo OJSC.

- 2017. Work on the replacement of 154 kV disconnectors of the outdoor switchgear of the Dnieper hydroelectric station of Ukrhydroenergo OJSC.

- 2015. Reconstruction of the Iskra 110/10 kV Substation PJSC Kievoblenergo NPP (design, electrical installation, commissioning and commissioning of external power supply systems with a capacity of 1.5 MW) in a residential district in the village of Tarasovka Kiev region

- 2015-2016 Fulfillment of diagnostics and adjustment of electrical equipment of Unit No. 1 of the Gijel TPP in Algeria.

- 2016. Carrying out diagnostics and maintenance of electrical equipment at Mironovskaya Poultry Substation 110/10 kV, 110/10 kV Dubrava Substation, 110 kV outdoor switchgear, 10 / 0.4 kV Substation, which is on the balance sheet of the Kanevsky branch of Mironovskaya OJSC poultry farm. "

- 2015. Reconstruction of power unit No. 3 of DTEK Zaporizhzhya TPP of PJSC DTEK Dneproenergo based on microprocessor protection manufactured by Siemens. Installation and commissioning of the excitation system of generator No. 3 based on ABB equipment.

- 2016. Replacement of air circuit breakers VV-330B-2000-31.5 of connections from V-330, 4V-330 to gas-insulated circuit breakers at Substation 330 kV "Artsiz".

- 2016. Performing technical re-equipment of outdoor switchgear-330 kV Substation 330 kV "Nezhinskaya" by replacing the B-330-2 Brovarskaya (inv. No. 86184) at the following address: ul. Franco, 271, Nizhyn, Chernihiv region.

- 2017. Carrying out the technical re-equipment of outdoor switchgear-750 kV at 750 kV Severoukrainsky substation (inventory no.556) by replacing the RBMK-750M-U1 2AT and RS-750 kV arresters with surge arresters.

- 2015. Overhaul of auxiliary boards of substations 330 kV Gornaya and substation 330 kV Dnepropetrovsk.

- 2012-2013 Implementation of a set of construction, installation and commissioning works on reconstruction (replacement of high-voltage equipment (air circuit breakers, current and voltage transformers), outdoor switchgear 35 kV Substation 110/35/10 Obukhov PJSC AES.

- 2015. Work on the protection of 154 kV lines (L-65 and L-67) of the Kakhovskaya HPP named after P.S. Neporozhny "PJSC" Ukrhydroenergo ".

- 2018 Installation and commissioning of a generator excitation system at Cherkasy TPP based on ABB equipment.

- 2018-2020 Installation and testing of electrical equipment at the sites of solar power plants Maydanovka (68 MW), Fursy (54 MW).

- 2019 Installation and commissioning of a generator excitation system at the Darnitskaya TPP.

- 2020. Conducting tests on electrical equipment at the sites of solar power plants PIVI Progresivka Alpha (18MV).

- 2019-2020 Performance of work at the Donbasskaya 750 kV Substation facility for the technical re-equipment of the Donbasskaya 750 kV Substation, replacement of the ShR-750 connection of the Zaporizhzhya-750 connection RODTS-110000/750 with relay protection and automation equipment.

• 2019-2020 Construction, electrical, installation and commissioning works on the installation of AT-3 type ATDTSTN 250000/330/110/35 kV at 330 kV Substation Chernivtsi with the replacement of 330 kV outdoor switchgear and 110 kV outdoor switchgear with relay protection and automation equipment.

A full range of work is performed annually:

- on the diagnosis of turbogenerators, oil-filled high-voltage equipment of the Chernihiv, Cherkasy, Darnitsky, Belotserkovskaya TPPs, Tripolskaya TPPs, Kanevskaya HPPs.

- on examination of transformers, autotransformers and reactors for NEC Ukrenergo, Sumyoblenergo, Chernigovoblenergo, Vinnitsaoblenergo, Poltavaoblenergo, Western Electricity, South-Western Electricity, Dnieper Electricity, Northern EU.

Work is carried out with the preparation of all necessary technical documentation and commissioning of the facility.

The company is equipped with highly professional installation and commissioning personnel. The total number of employees is 176 people.

Director of NPP Energoshenie LLC



Krivda M.Sh.