



KHARKIVENERGOREMONT-HOLDING



YEAR OF FOUNDATION
1946

DEAR CUSTOMERS AND PARTNERS

We welcome you all who discover the catalog of KHARKIVENERGOREMONT-HOLDING.

You can find an overview of our services, work and production on the pages of the catalog.

KHARKIVENERGOREMONT-HOLDING is a system-based company that provides comprehensive services for repairing, installing and revamping power generation equipment for power plants, energy sector companies and power facilities of industrial enterprises.

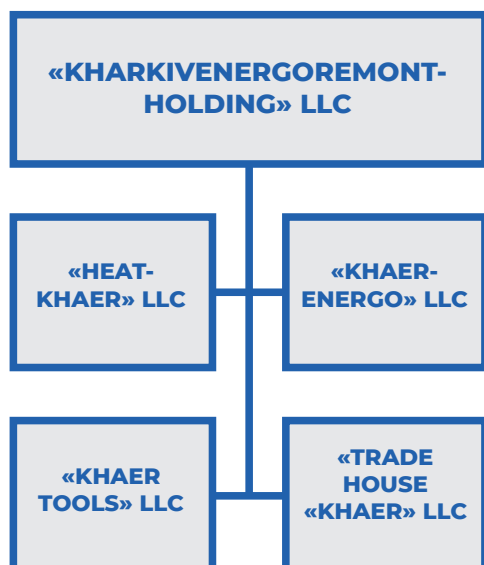
More than 75 years of experience in the energy market in Ukraine, access to foreign markets and many years of experience abroad confirm the high ranking of the company and high qualification of the company's staff, and enable us to keep up with the times by using latest technology and state-of-the-art equipment.

With our material and technical infrastructure, intellectual property in the form of process control and design documents, production methods, and our own production facilities, we are able to provide services on a turnkey basis, and yet we seek to be responsive in addressing technical and economic issues.

**We look forward to seeing you
as our customers and partners!**

Kind regards,

**Oleksandr Bendus -
Director
Honored Power Engineer of Ukraine**



BIG PROJECTS

With our company's many years of experience, skilled staff, most advanced job practices available and close relationships with power equipment manufacturers, R&D institutes and design bureaus, we have every opportunity to provide comprehensive turnkey services while overhauling and revamping power generation equipment, in particular at power plants in distant foreign countries. We focus on teamwork to involve various businesses from the energy industry and create a seamless interaction for repair and maintenance staff, spare parts and OEM suppliers, engineering groups and operating teams. The prime examples of this work were the major overhaul for Unit 5 with a capacity of 200 MW at Ghorashal TPP in Bangladesh and the installation of a new 260 MW DOOSAN SKODA turbine and pipelines from the boiler to the turbine at Unit 1 at Lidio Ramon Perez TPP in the Republic of Cuba, where various companies from several countries teamed up to successfully rehabilitate and install equipment.

In June 2021, KHARKIVENERGOREMONT(-HOLDING) celebrated its 75th anniversary.

We have ambitious plans and high hopes for the future, and to date we have made great accomplishments which we are willing to translate into our projects.

Major overhaul for the power equipment at 200 MW Unit 5, including turbine K-210- 130-8, generator TГB-200-MT3, boiler ЕП670-13.8-545Г (ТГМЕ-206), 2 Nos. unit transformers ТДЦ-125000/220 at Ghorashal TPP, Bangladesh



Installation of a new 260 MW DOOSAN-SKODA DST-S20-6CD2R turbine at Lidio Ramon Perez TPP, in Felton, the Republic of Cuba





For more than 75 years, KHARKIVENERGOREMONT-HOLDING has been providing services, performing work and supplying components, spare parts, and its own proprietary repair tools and accessories for both domestic and foreign power generation companies and power facilities of industrial enterprises.

Over this time, KHARKIVENERGOREMONT-HOLDING has established close contacts and strong links with a large number of companies all over the world. A wealth of experience and in-depth knowledge of the company's employees accumulated over past periods ensure continuous interaction and coordination of actions with our partners in every country of the world.

THE COMPANY'S ACTIVITIES INCLUDE THE FOLLOWING AREAS OF WORK:

- Market research of services in the energy sector and analysis of the condition of equipment of power generation companies in Ukraine and abroad;
- Comprehensive services for retrofitting, revamping and upgrading, rehabilitating and repairing the equipment of thermal power plants, hydroelectric power plants, combined heat and power plants; repairing the equipment of nuclear power plants, CHP plants of iron and steel works, sugar factories, oil refineries and other enterprises;
- Implementing large-scale projects related to the repair, installation and revamping of machinery and turnkey handover of the project to the customer;
- Inspection for machinery and identification of the maintenance quality level with the provision of advice and solutions to address deficiencies;
- Organization of work on information support and data analysis in studying in Ukraine and abroad the achievements and new trends in repair and rehabilitation of power generating equipment.

OVER RECENT YEARS, OUR COMPANY HAS SUCCESSFULLY IMPLEMENTED THE PROJECTS LISTED BELOW:

- Major overhaul for the K-200-130 turbine, Unit 5 at Zmiivska TPP and the K-300-240 turbine, Unit 4 at Trypil'ska TPP owned by Centrenergo, PJSC;
- Emergency repair for the high-pressure rotor of the K-1000/3000 turbine at Khmelnytskyi NPP, Separated Subdivision of the State Enterprise National Nuclear Energy Generating Company Energoatom;
- Major overhaul for the TBB-800-2Y3 generator, stage No.7 and the BT-6000 exciter at Slovianska TPP owned by Donbasenergo, PJSC;
- Repair for the K-200-130 turbine with replacing worn-out parts at Units 7 and 9 at Burshtyn'ska TPP owned by DTEK Zakhidenergo, LLC;
- Major overhaul for three АОДЦТН-210000/400/330 transformers, one РДНЦ-32000/35-72Y1 transformer and inspection for the ТДЦ-250000/330/14,75 transformer at Moldovan SDPP;
- Installation of a new 260 MW DST-S20-6CD2R turbine by DOOSAN-SKODA at Lidio Ramon Perez TPP, the Republic of Cuba;
- Installation and anti-corrosion protection for 5000 mm dia pressure pipelines at Senje HPP, Equatorial Guinea;
- Major overhaul for the power generation equipment for the entire Unit 5 with a capacity of 200 MW on a turnkey basis at Ghorashal TPP, Bangladesh;
- Major overhaul of the ТТНЦ-1250000/330, АОДЦТН-333000/750/330/150, АДЦТН-250000/330/110-Y1, ТРДЦН-63000/330, and ТДЦ-250000/330 transformers with replacing high-voltage bushings and major overhaul for the РОДЦ-110000/750 shunt reactors at nuclear power plants in Ukraine, ordered by National Nuclear Energy Generating Company Energoatom.

MAJOR ACTIVITIES PERFORMED BY THE TURBINE DEPARTMENT:

- Installing, repairing, retrofitting, revamping and adjusting turbine units and their auxiliary equipment;
- Standard and specialized repair for all types of steam, hydraulic, driven and gas turbine units with warranty for work performed;
- Major overhaul, testing and adjustment for automatic governing and steam distribution systems for various types of turbines;
- Supplying equipment and spare parts for turbine machinery;
- Major overhaul and adjustment for all types of pumps, manufacturing and repairing heat exchangers and other equipment on-site or at the company's industrial yard.



SPECIAL ACTIVITIES PERFORMED BY THE TURBINE DEPARTMENT:

- Replacing rotor blades for 6 MW to 1000 MW turbines, followed by machining and balancing the rotors;
- Analyzing and removing increased vibration of turbine units and all rotating machinery, dynamic balancing for rotors in their own bearings, vibration control for turbine generators.



Repairing turbines is one of the core activities carried out by KHARKIVENERGOREMONT-HOLDING. Only for the years 2021-2023 the specialists from the Turbine Department performed and continue to perform repair work of varying degrees of complexity for more than 10 turbines of 25 MW to 1000 MW power units at various power plants (Khmelnitskyi NPP, Zmiivska TPP, Trypilska TPP, Burshtynska TPP, Cherkasy CHP, Kherson CHP, Bila Tserkva CHP, CHP of Kamet Steel Works and others).

In the years 2020-2021, a new 260 MW DST-S20-6CD2R turbine manufactured by Doosan Skoda Power was installed at Lidio Ramon Perez TPP, the Republic of Cuba.

In 2017, the back-up low-pressure rotor of the K-200-130 LMZ turbine at the Estonian power plant was repaired with the rotor being transported to Ukraine and back to Estonia.

In 2016-2017, our company performed a major overhaul of the K-210-130 LMZ turbine and all auxiliary equipment at Unit 5 of Ghorashal TPP, Bangladesh, which was the first such overhaul after the unit was commissioned in 1989. Once overhauled, the turbine definitely reached its maximum capacity of 210 MW.

Our company also performed various sophisticated projects to repair the K-500-240-2 turbines at Ekibastuz SDPP in Kazakhstan, to repair the K-300-240 turbine at Ramin TPP in Iran, to overhaul the Chinese N 210-130 Harbin turbine at Jamshoro TPP in Pakistan, to revamp and retrofit the turbines at Units 1 and 2 at Obra TPP in India, and to repair the K-300-240 and VK-100 turbines in Vietnam.

Furthermore, our company has a very close relationship with Ukrainian Energy Machines Joint Stock Company Turboatom, Poltava Turbo-Mechanical Plant and other manufacturers and suppliers of turbine spare parts, so we can provide our customers with comprehensive repair services, complete with the supply of the appropriate spare parts.



ELECTRIC DEPARTMENT

Our specialists from the Electric Department carry out major overhauls, provide revamp and upgrade services and perform installation work for turbine generators of all types, hydrogenerators, high-voltage motors and synchronous compensators.

The scope of work includes disassembling and reassembling generators with removing rotors; checking turbine generators for gas tightness and removing leakages; repairing the active steel; testing for leakage and heating; rewedging the stator slots; re-soldering the stator winding heads with re-insulation; replacing the housing compounded insulation of a bar, a coil; electrical testing, measuring, hydraulic testing.

When repairing rotors and other generator components, we repair slip rings and replace insulation; repair fans and current leads; check for gas tightness and hydraulic tightness; repair retaining rings and slip rings; repair current leads; replace the insulation of the central current lead and busbar; rehabilitate and replace the rotor winding coils; rewedge the rotor slots; replace and repair the insulation under the retaining rings; repairing the brush-contact device; bore and polish slip rings; repair gas coolers; repair and manufacture the stator winding terminal leads; repair the generator gas system.

Our company has an extensive experience in performing extremely complicated repair work for generators with replacing stator windings (the TГB-200M generator at Kurakhivska TPP in 2015, the TГB-200-MT3 generator at Ghorashal TPP in Bangladesh generator in 2017). In the years 2020-2021, we performed a major overhaul and then emergency repair of the TBB-800-2Y3 generator, stage No.7 and the BT-6000 operating exciter at Slovianska TPP, during which we repaired the slot sleeves and replaced the end boxes on the rotor, and we replaced the coil with restoration of the geometry of other coils and restoration of the insulation.

Our company also has a very close relationship with Elektrovazhmash plant, a subdivision of Ukrainian Energy Machines, and other manufacturers and suppliers of spare parts for generators, so we can provide our customers with repair services and supply spare parts.





A separate area of work performed by the Electric Department is to overhaul transformers of voltage classes from 6 kV to 750 kV and with a power rating from 1 MVA to 1250 MVA.

Starting from 2017, when we greatly extended and upgraded our range of equipment for repairing transformers, our company has repaired more than 40 transformer of different types both at power plants and power generation facilities in Ukraine and abroad (5 transformers at Moldovan SDPP in 2021 and 4 transformers at Ghorashal TPP in Bangladesh in 2017).

In the years 2019-2020, our company repaired about 20 transformers at the facilities owned by the State Enterprise National Nuclear Energy Generating Company Energoatom, most of which are located at Pivdennoukrainsk NPP, and at Rivne NPP and Khmelnytskyi NPP, including the most powerful unit transformers in Ukraine, the THЦ-1250000/330 transformers, transformers on the switchgear and the THЦ-1250000/330, АОДЦН-333000/750/330/150, АДЦН-250000/330/110-У1, ТРДЦН-63000/330 and ТДЦ-250000/330 autotransformers, and the РОДЦ-110000/750 shunt reactors.

We also repaired the transformers at DTEK-owned Dobrotvir TPP and Kryvyi Rih TPP and transformers for the Ukrainian South-Western Railway, for Dnipro section of NEC Ukrenergo, Poltavaoblenergo and a number of industrial enterprises.

The scope of work for repairing transformers includes dismantling the transformer units (expansion tank, exhaust pipe, thermal bellows filter); removing the transformer bushings; opening and repairing the active part; repairing the detachable part of the tank; repairing the

switching device; repairing the cooling system; repairing or replacing the transformer bushings; installing the units; assembling the transformer; encapsulating the active part of the transformer; draining, treating and degassing transformer oil; electrical testing and inspecting oil and solid insulation.

We carry out auxiliary work during the major overhaul of transformers: handling work for moving transformers using hydraulic jacks and pushers with a capacity of up to 400 tons; pre-drying and drying the transformer insulation; recovering the transformer oil properties (drying, cleaning, degassing, regenerating).



As with other areas of servicing power generation equipment, along with repair work for transformers, we offer to supply our customers with spare parts and consumables. Thanks to our close ties and partnerships with Zaporizhtransformator and other Ukrainian and foreign manufacturers, we arrange deliveries of high-voltage bushings, gas and jet relays, flexible casings, components for the cooling system, high-quality rubber for replacing seals, disk shutters and other spare parts.



MAJOR ACTIVITIES IN HYDROPOWER PROJECTS

Our company has a strong background in repairing, upgrading and installing hydropower equipment both in Ukraine and abroad. We still offer services for overhauling and revamping, installing and commissioning hydropower and hydromechanical equipment at hydroelectric power plants and pumping stations. We carry out works for all known design types of hydraulic units.



We also have experience in implementing comprehensive solutions to issues related to retrofitting and revamping small hydropower plants. We offer repair and rehabilitation services for non-standard equipment using new repair techniques.

Our specialists from the Electric Department were involved in revamping all hydroelectric power plants of the Dnipro Cascade related to revamping the hydrogenerators with replacing the stator windings. In 2013, our company completed a major overhaul of hydraulic unit No. 1 at Chervony Oskil HPP. In 2019, we overhauled the T1 ТДЦ-250000/330-type unit transformer at Tashlyk PSPP. In 2020, our company started and is now continuing to install pressure pipelines and other equipment at Senje HPP in Equatorial Guinea. In 2023, we performed emergency repair and major overhaul for the ТДЦ-430000/330-УХЛ1 unit transformers at Units 3 and 4 at Dniester PSPP.



MAJOR ACTIVITIES PERFORMED BY THE BOILER DEPARTMENT:

- Installing, repairing and revamping low- and high-power boilers;
- Revamping and retrofitting steam boilers to improve the steaming rate and switch to other fuel type;
- Switching steam boilers to the water heating operating mode;
- Revamping and repairing pressure vessels;
- Manufacturing the components for boilers, pipelines, and vessels;
- Special lifting and handling work;
- Repairing and installing boiler equipment, gas flues, and pipelines.



In 2012, the boiler crews of our company dismantled old and installed new boiler equipment along with revamping the furnace systems, and installed two exhaust stacks at CHP of the Barentsburg mine, Svalbard, Norway. The work was carried out in the extremely harsh conditions of the Far North. The boiler department also performed major overhauls for boilers No.7 and No.9 at Shostka CHP along with manufacturing and replacing platen superheaters and economizers for the EK3-160-100ГМ boilers. Platen superheaters and economizers were manufactured at the company's own industrial yard.

In the years 2020-2021, our company installed 80 tons of pipelines from the boiler to the turbine at 260 MW Unit 1 at Lidio Ramon Perez TPP in the Republic of Cuba. In 2022, we repaired the gas flues of boiler No. 1 at DTEK Kryvyi Rih TPP.



Our specialists from the Special Work Department will perform a range of work on the inspection, repair, revamping, retrofitting and adjustment for the main internal turbine steam pipelines, steam extractions from cylinders, steam suction from seals, feed pipeline, and the elements of support and suspension systems (SSS).

Within our package of services we will calculate the strength and self-compensation of pipelines with the issuance of a statement according to the RD 10-249-98 (ASTRA-STATS-11) guiding documents. A range of work related to support and suspension systems (SSS) of turbine generator steam pipes is mandatory according to the repair procedures for supports of all turbine generator types and guiding documents RD 34.30.506-90 Methodical guidelines for standardizing thermal expansions of steam turbine cylinders at thermal power plants.

MAIN ACTIVITIES:

- Inspecting steam pipelines and support and suspension systems (SSS) to clarify the route, to check for deflections and jamming, and to ensure compliance with the design;
- Checking the compliance of the installed springs with the project, their location and design, adjusting the springs of spring suspensions to meet the permissible and design loads;
- Determining the load on the support and suspension systems of steam pipelines (pipelines);
- Developing and implementing sets of technical measures to connect pipelines to the HPC and IPC of the turbine, followed by cold tightening and adjustment of suspension loads while replacing or dismantling HPC and IPC during repair work;
- Multi-stage adjustment for the support and suspension systems of the steam pipelines connected to HPC and IPC to normalize and equalize the loads on the HPC and IPC legs;
- Preparing and issuing the spring tightening data sheets for the suspension springs of the LS, HRH, CRH, FW steam pipelines, HPC bypass steam pipelines, extractions and others; drawing up a final report on work performed.



Reduction heat treatment (RHT) is a set of production processes and operations enabling the extension of the fleet life of power generation equipment, which has exhausted its design service life. The purpose of the reduction heat treatment is to restore the structure and properties of the long-term operated metal in the process of full phase recrystallization to a level that corresponds to the initial condition of the metal.

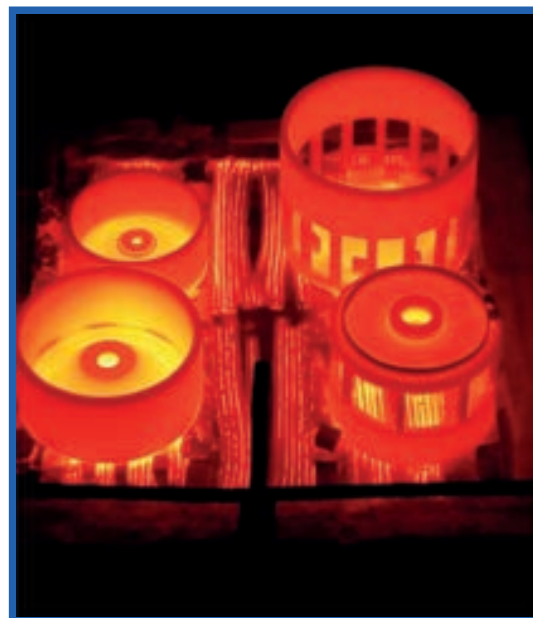
The range of restored equipment includes turbine high- and intermediate-pressure cylinder housings, steam chambers of steam distribution units, stop and control valve bodies, diaphragm carriers, elements and bends of live steam pipelines.

Technology and appropriate equipment for the reduction heat treatment procedure have been successfully piloted for stop valve boxes of the 200 MW K-200-130 turbine at Unit 1 of Zmiivska TPP. We performed a package of work for inspecting, repairing, renovating, machining and checking the metal of steam chambers after RHT, which enabled us to extend the life of already decommissioned equipment by 80 thousand hours.



THE LIST OF THE MAJOR TYPES OF WORK WHEN PERFORMING RHT INCLUDES:

- Conducting studies, cutting test specimens for nondestructive testing, measuring the geometry, and evaluating the integrity;
- Gouging out all cracks on the inner and outer surfaces;
- Welding up the cracks and leaving a surplus for machining purposes;
- Regenerating the structure of the metal by two-step heat treatment in the furnace; the heat treatment mode is developed for each specific case;
- Machining to a nominal size;
- Checking after repair; issuing a conclusion.



As a repair operation, reduction heat treatment is a full-fledged alternative to a fairly costly replacement of equipment with new equipment, which, with a comprehensive professional approach, allows restoring the properties of the components of power generation equipment close enough to the quality level of new equipment. Furthermore, carrying out the RHT procedure takes a much shorter time than manufacturing new equipment (3 to 4 months) and is much cheaper (up to 40% of the cost of new equipment).

Heat treatment services are provided by HEAT-KHAER, LLC, a separate subdivision of KHARKIVENERGOREMONT-HOLDING.

PRODUCTION TOOLING AND SPECIAL-PURPOSE TOOLS

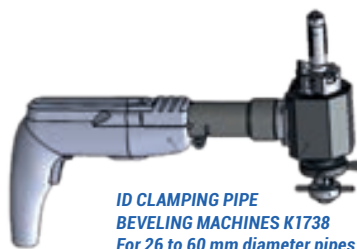
KHARKIVENERGOREMONT is one of the leading companies in Ukraine in the field of development and manufacture of production tooling, unique machines and tools for repairing power generation equipment, including boiler, turbine, electrical equipment at power plants.

Our production started as a need to provide our own staff with the necessary equipment in due time to carry out work and deliver repair services at a high technology level. During work, the required single-piece machines were quickly developed and subsequently manufactured in small batches in response to the interest of similar repair companies and repair departments at power plants.

To date, we have established a list of the main machines and tools that have been upgraded and improved and are most often needed when carrying out repair work.



**OD CLAMPING PIPE
BEVELING MACHINES K1755**
For 28 to 60 mm diameter pipes



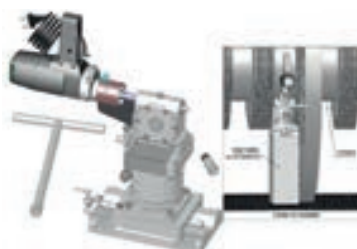
**ID CLAMPING PIPE
BEVELING MACHINES K1738**
For 26 to 60 mm diameter pipes



**SEAL STRIP DRAWING OFF
MACHINE T01.114**



**ANGLE DRILLING HEAD
B-35**



**ANGLE DRILLING MACHINE
УСП-35**



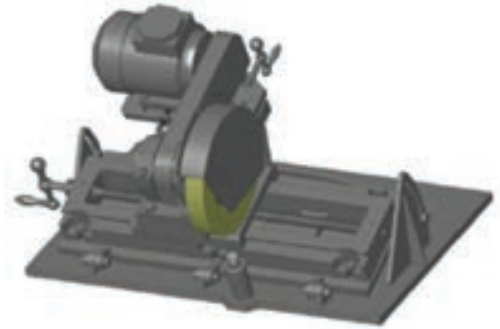
**ANGLE DRILLING AND MILLING
MACHINE УСФП-2А**



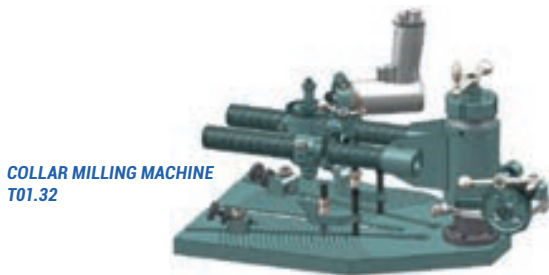
**MULTIPURPOSE DRILLING
AND MILLING HEAD (MDMH)
T-814 for milling (drilling out)
sealing ring seats**



**TURBINE COUPLING HOLE
REAMING MACHINE
GM.437**



**ROTOR JOURNAL GRINDING
MACHINE T01.86**



**COLLAR MILLING MACHINE
T01.32**



**GATE VALVE REPAIR
KIT K-8085M
for grinding DN 100 - 400 gate
valve seats**



**ADJUSTABLE DIES
T24.09 from M 56...64x4
to M 140...165x4**



**ADJUSTABLE TAPS
T24.10 from M56...64x4
to M 140...165x4**

**CARRIAGE T-1PT-80 for
installing various fixtures and
machining parts of steam turbines
and turbine generators**



**KEROSENE FLAME GUN T25.133
for heating parts, assembly units and separate components of the power
generation equipment by open flame, and for heating and annealing welded joints**



**WEDGE-SHAPED FEELER
GAUGES T23.02
from 8.0 to 20.0
and T01.06
from 0.2 to 9.0**

for measuring the air gap width in the
turbine flow path while repairing power generation equipment



**STRIP BENDING MACHINE
AC2.09**



**EJECTOR-TYPE HEATER
149.251 air heating turbine studs**



**ROTOR AXIAL PASSAGE
PROCESSING MACHINE 4KP3
for processing turbine rotor axial
channels with a diameter
of 95 to 150 mm**



**MANUAL ECCENTRIC PUNCH
PRESS T01.81
for punching shrouding bands**

Repair tools and tooling are manufactured by KHAER TOOLS, LLC, a separate subdivision of KHARKIVENERGOREMONT-HOLDING.

Ukraine

- Khmelnytskyi NPP, Separated Subdivision of the State Enterprise National Nuclear Energy Generating Company Energoatom
- Rivne NPP, Separated Subdivision of the State Enterprise National Nuclear Energy Generating Company Energoatom
- Pivdenoukrainsk NPP, Separated Subdivision of the State Enterprise National Nuclear Energy Generating Company Energoatom
- Cherkasy CHP, Cherkaske Khimvolokno, PrJSC
- Kherson CHP
- Odesa CHP
- Sievierodonetsk CHP
- Kurakhivska TPP owned by DTEK Skhidenergo, LLC
- Luganska TPP owned by DTEK Skhidenergo, LLC
- Slovianska TPP owned by Donbasenergo, PJSC
- Trypilska TPP owned by Centrenergo, PJSC
- Zmiivska TPP owned by Centrenergo, PJSC
- Burshtynska TPP owned by DTEK Zakhidenergo, LLC
- Dobrotvir TPP owned by DTEK Zakhidenergo, LLC
- Ladyzhyn TPP owned by DTEK Zakhidenergo, LLC
- Zaporizka TPP owned by DTEK Dniproenergo, PJSC
- Kryvyi Rih TPP owned by DTEK Dniproenergo, PJSC
- Darnytska CHP owned by Yevro-Rekonstruktsiya, LLC
- Chernihivska CHP owned by Firma TekhNova, LLC
- Kremenchuk CHP
- Sumy CHP
- Kramatorsk CHP owned by Kramatorskteploenergo, LLC
- Bila Tserkva CHP, PrJSC
- Vinnytsia CHP-1, Public Utility Company of the Vinnytsia City Council Vinnytsiamiskteploenergo
- Oleksandriia CHP
- Shostka CHP
- Kharkiv CHP-3
- Kharkiv CHP-5
- CHP of Mykolaiv Alumina Plant, LLC
- SE CHP-2 Eskhar
- CHP of SE Production Association Pivdennyi Machine-Building Plant named after O.M. Makarov
- Kakhovka HPP owned by Ukrhydroenergo, PJSC
- Serednyodniprovska (former Dniprodzerzhynska) HPP owned by Ukrhydroenergo, PJSC
- Dniester HPP owned by Ukrhydroenergo, PJSC
- Oskil (former Chervony Oskil) HPP
- Tashlyk PSPP, Separated Subdivision of the State Enterprise National Nuclear Energy Generating Company Energoatom
- Dniester PSPP owned by Ukrhydroenergo, PJSC
- Zavod Severny owned by farming enterprise Organic Systems
- Trakonta, LLC of Dzhankoy main power transmission lines SE NEC Ukrenergo
- Impulse Shostka State Plant, State Enterprise
- SE Plant Elektrovazhmash
- NTU KhPI
- Burynsky Sugar Factory, LLC
- Poltava Turbo-Mechanical Plant, LLC
- Crimean EPS, Dzhankoy Substation
- SE NEC Ukrenergo
- Ukrainian South-Western Railway
- 330 kV Simferopol Substation
- Kryzhopol Sugar Factory, JSC
- Karlivka Sugar Factory, LLC
- TM Zmiiv vegetable factory, PrJSC
- Mega-Azov, JSC
- Kamet Steel, PrJSC, Metinvest Holding
- Azovstal, JSC
- Kryvorizhstal Kryvyi Rih Mining and Metallurgical Complex, JSC
- Mittal Steel Kryviy Rih, JSC
- Bahliykoks, JSC

Belarus

- ◆ Mogilev tool plant, CJSC
- ◆ Belenergoremnaladka, OJSC
- ◆ Research and Production Enterprise Energoneftekhim, LLC
- ◆ Tekhsnabkomplekt, LLC
- ◆ Grateks Pro, LLC
- ◆ Tsentrenergomontazh, OJSC

Russia

- ◆ OJSC Power Machines - ZTL, LMZ, Electrosila
- ◆ Kursk CHP-1
- ◆ Eksperimentalna CHP, OJSC, Krasny Sulin
- ◆ PA Gubkin CHP, Gubkin
- ◆ Kamyshin CHP, Volgograd
- ◆ Novocherkassk SDPP
- ◆ Stavrolen. LLC, Budenovsk
- ◆ Rostov CHP-2 owned by Rostovenergo, OJSC
- ◆ Combine JSC Salavatneftegazsintez", Salavat
- ◆ Integrated plant JSC Salavatneftegazsintez, Salavat
- ◆ Volgodonsk CHP-2, Volgodonsk
- ◆ Astrakhan CHP-2
- ◆ Bratsk CHP-2, Bratsk

Georgia

- ◆ Saknahshiri (GIG Group), Tkibuli
- ◆ Sakenergoremont, JSC
- ◆ Tbilisi SDPP, JSC
- ◆ Energy Invest, JSC, Rustavi
- ◆ Mtkvari Energy, JSC, Gardabani
- ◆ Khrami HPP-1 owned by AES Khrami, JSC
- ◆ Tkibuli TPP
- ◆ Gardabani TPP

Moldova

- ◆ Moldovan SDPP, JSC
- ◆ Chisinau CHP-2

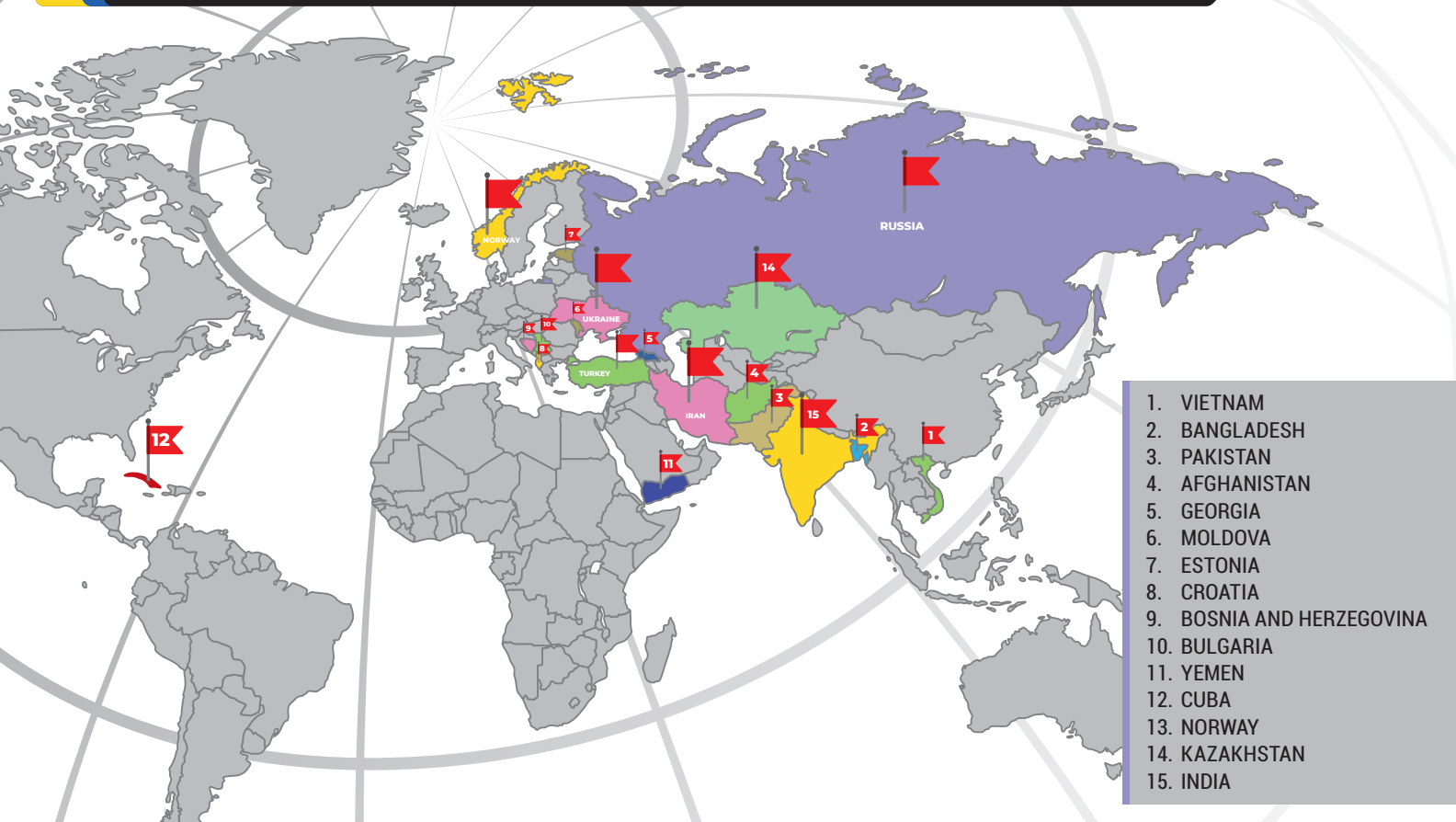
Kazakhstan

- ◆ Ekibastuz SDPP-1, SDPP-2
- ◆ AES Shulbinskaya HPP, LLP
- ◆ Tsentrkazehergomontazh, JSC
- ◆ DMCh Abadan, LLP
- ◆ Almatyremenergomontazh, LLP
- ◆ PromInvestAlmaty, OJSC

Far-Abroad Countries

- ◆ Lidio Ramon Perez TPP, Felton, Cuba
- ◆ Senje HPP, Equatorial Guinea
- ◆ Pha Lai TPP, Vietnam
- ◆ Uong Bi, TPP, Vietnam
- ◆ Muzaffargarh TPP, Pakistan
- ◆ Pakistan Steel Mills, Pakistan Steel Mills Corporation, Karachi, Pakistan
- ◆ Jamshoro TPP, Pakistan, GRID TRADING Malta Ltd
- ◆ CHP, Barentsburg Mine, Svalbard, Norway
- ◆ Orhaneli TPP, Turkey
- ◆ Ghorashal TPP, Bangladesh
- ◆ Shahzi Bazar TPP, Bangladesh, Nirman Power Generation Ltd
- ◆ Obra TPP, India
- ◆ Barh TPP, India
- ◆ Ugljevik TPP, Bosnia and Herzegovina
- ◆ Sisak TPP, Croatia
- ◆ Al-Hiswa TPP, Yemen
- ◆ Kavosh Puya Jonoob Ltd (KPJ), Iran
- ◆ Ramin TPP, Iran Powerplant Repairs Company, Karaj, Iran

GEOGRAPHY OF PROJECTS



1. VIETNAM
2. BANGLADESH
3. PAKISTAN
4. AFGHANISTAN
5. GEORGIA
6. MOLDOVA
7. ESTONIA
8. CROATIA
9. BOSNIA AND HERZEGOVINA
10. BULGARIA
11. YEMEN
12. CUBA
13. NORWAY
14. KAZAKHSTAN
15. INDIA

FEEDBACK FROM OUR CUSTOMERS

ХТЕК

ООО «Харковенергопроект-холдинг»
 61002, Харьков, ул. Гайдара, 10
 Тел: +38 (0) 57 233 11 11
 Факс: +38 (0) 57 233 11 12
 E-mail: info@harkovenergoproekt.com.ua

Директор
 ООО «Харковенергопроект»

Срок: 1 (один) месяц

В 2024-2025 гг. исполнены работы по монтажу турбины ТЭС «Белозерская» (БЗТЭС) в г. Белозерск (Белгородская область).

Проектная документация, техническое задание, спецификация, смета, договор № 0004-2024.

В процессе выполнения работ:

- осуществлено обследование объекта;
- выполнены работы по монтажу турбины;
- осуществлено испытание турбины;
- осуществлено наладочное обслуживание турбины;
- осуществлено обучение персонала заказчика;
- осуществлено оформление документации;
- осуществлено сдача объекта в эксплуатацию.

Специально для заказчика:

1. Осуществлено обследование объекта и составление акта обследования.

2. Осуществлено выполнение работ по монтажу турбины и наладке.

3. Осуществлено испытание турбины и составление акта испытания.

4. Осуществлено наладочное обслуживание турбины и составление акта наладки.

5. Осуществлено обучение персонала заказчика и составление акта обучения.

6. Осуществлено оформление документации и составление акта сдачи объекта в эксплуатацию.

Срок: 1 (один) месяц

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6. Осуществлено оформление документации и составление акта сдачи объекта в эксплуатацию.

La fecha: (Date) 28.07.2021

A QUIEN PUEDA INTERESAR:
 (TO WHOM IT MAY CONCERN)

«Comentarios sobre el trabajo ejecutado de montaje de turbina de 260 MW y sus tuberías»
 «Comments on the work performed on the assembly of the 260 MW turbine and its pipes»

Con esta carta de recomendación confirmamos que los especialistas de «Harkovenergoenergoproekt-holding», SRL, Georgia, junto con CP «Energostruy» S.A., Rusia, en 2020-2021 realizaron una serie de trabajos de montaje de una turbina de 260 MW (tipo DGT-525-MS029 fabricada por DOOSAN-SHODA POWER) en la Unidad 2 de la ETE «Luis Ramón Pérez» en la República de Cuba.

Ante el montaje de la turbina, se realizó un ensamble y montaje de todas las tuberías de la turbina y equipos auxiliares con un monto total de más de 80 toneladas. Asimismo, se suministró un kit completo de herramientas, equipos, consumibles, repuestos y equipos especiales necesarios para la obra (incluyendo equipos para tratamiento térmico y un sistema para elevación lateral de la turbina).

Montaje de la turbina y las tuberías se llevó a cabo de manera eficiente y profesional, los especialistas de «Harkovenergoenergoproekt-holding», SRL, mostraron altas habilidades profesionales y un alto nivel de formación técnica. Después de los trabajos de ajuste y puesta en servicio de la turbina, todos los parámetros operativos e indicadores de rendimiento del equipo son normales y la unidad lleva una carga nominal de 260 MW.

Настоящим письмом подтверждаем, что специалисты компании ООО «Харковенергопроект-холдинг», Украина вместе с компанией АО «Энергострой», Россия в 2020-2021 году выполнили комплекс работ по монтажу турбины мощностью 260 МВт (тип DGT-525-MS029 производства компании DOOSAN-SHODA POWER) на блоке №2 ТЭС «Луис Рамон Перес» в Республике Куба.

Вместе с монтажом турбины была выполнена установка сборки и монтаж всех трубопроводов турбины и вспомогательного оборудования общей массой более 80 тонн. Также была предоставлена полная комплектация инструментов, инвентаря, оборудования, расходных материалов, комплектующих и специальных средств, необходимых для выполнения работ (включая оборудование для термической обработки и систему боковой подъема турбины).

Монтаж турбины и трубопроводов выполнен качественно и профессионально. Специалисты ООО «Харковенергопроект-холдинг» показали высокие профессиональные навыки и уровень технической подготовки. После завершения пуско-наладочных работ и ввода турбины в эксплуатацию, все эксплуатационные параметры и показатели работы оборудования в норме и блок несет номинальную нагрузку 260 МВт.

Director General
 ETE «LUIS RAMÓN PÉREZ» (Punta
 General Manuel Bayes

Especialista "A"
 mantenimiento industrial

Ing. Carlos Comas

FEEDBACK FROM OUR CUSTOMERS



ДП НАЦІОНАЛЬНА ЕНЕРГЕТИЧНА КОМПАНІЯ
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Щодо виконання та обсягів робіт

Шановний Олександр Олександровичу!

Вітання «Хмельницька АЕС» висловлює глибоку вдячність ТОВ «ХАРКІВЕНЕРГОРЕМОНТ-ХОЛДІНГ» за високу та своєчасну виконання робіт згідно з договором за техніко-економічним розрахунком ремонту високовольтного турбонасосного агрегату №2 в період 01.09-2012.

Завдяки, високій і своєчасній роботі наших майстрів та установок турбіна виконала ремонт обладнання та здійснює надійну та безперервну роботу, що критично важливо в тепловітних складних умовах в країні та Європі.

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Благодарим Вас і Вашій команді за професіоналізм, увагу та терпіння!

З повагою,
Генеральний директор

Андрій КОЗЮБА

ВСТРП Іван Миколайович 0-35-46

Документ: СТД АХХ/ДП/01/ХМ/Е, за номером 0331
Підписано: Генеральний директор
Підписано: МЕНДУСЬ Олександр Олександрович 20.09.2012 12:34:00
Відомості про документ: 01.09.2012 12:34:00



BANGLADESHI POWER DEV. BOARD
Bangladesh Power Development Board
Ministry of Power, Government of Bangladesh
Dhaka, Bangladesh

Office of Manager
Maintenance T-4 Unit
Chattogram Power Station
Chattogram, Bangladesh

Signature: 02.10.17

Subject: Letter of feedback on the work, as per Contract No. P-01-2012 (Rev.1) and 04.09.2014 for overhauling of T-4 Unit of Chattogram Power Station, BPDB, Pabna, Bangladesh

TO WHOM IT MAY CONCERN:

Dear Sir,

This is to confirm that the company «Kharkovergoremont-Holdings» LLC, Ukraine performed overhauling works on Turbine K-210-130.8 (M3) and auxiliary equipment of Turbine Island of Unit#03, IPS «Chattogram», PB Bangladesh from October, 2014 to March, 2017. Turbogenerator has been operated since Autumn, 1994. These were the first overhauling works, which have been performed since the operation began, including replacement of all Turbine and Generator bearings, and complete replacement of shaft-end seals of steam flow path of HP, IP and LP cylinders.

The overhauling works on Turbine were performed with good quality and on time, specialists of «Kharkovergoremont-Holdings» LLC showed highly professional skills and level of technical competence. After overhauling works the Turbine is operates steady, all operational parameters and values are satisfactory, and the Unit has full load of 210 MW.

Your prompt action in this regard is highly appreciated.

Sincerely,
Manager

(Signature)
Manager T-4 Unit
Chattogram Power Station
Chattogram, Bangladesh
Date: 02.10.2017

Copy to:
1. Chief Representative of LLC «Kharkovergoremont-Holdings»
2. HRM Dept.

The letter was prepared:
Manager T-4 Unit
Chattogram Power Station
Chattogram, Bangladesh
Date: 02.10.2017



Національна компанія енергопостачання
УКРЕНЕРГО
Українська енергетика

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kharkenergo.com.ua

Щодо виконання та обсягів робіт

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Благодарим Вас і Вашій команді за професіоналізм, увагу та терпіння!

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Генеральний директор

Андрій КОЗЮБА

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Генеральний директор

Андрій КОЗЮБА

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Відомості про документ: 01.09.2012 12:34:00

Bureau Veritas Certification



**LIMITED LIABILITY COMPANY
«KHARKIVENERGOREMONT-HOLDING»**

1, Sirikivska Str., Kharkiv, 61017, Ukraine

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 45001:2018

Scope of certification

Complex services of technical re-equipment, reconstruction, modernization, restoration, repair and installation of power equipment of TPP, CHPP, HPP, NPP and power supply facilities of industrial enterprises.

Original cycle start date:	04 January 2022
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	NA
Certification / Recertification cycle start date:	30 December 2024

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: **03 January 2028**

Certificate No. **UA231698**

Version: 1

Issue date: **30 December 2024**



Olena Svyrydenko
Signed on behalf of BVCH SAS UK Branch



Certification body address: 5th Floor, 100 Lower Thames Street, London, EC3R 6DL, United Kingdom
Local office: 5th floor, 28, Simon Petlyura St., Kyiv, 01032, UKRAINE

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +380 44 354 16 00

1 / 1

Bureau Veritas Certification



**LIMITED LIABILITY COMPANY
«KHARKIVENERGOREMONT-HOLDING»**

1, Sirikivska Str., Kharkiv, 61017, Ukraine

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

Complex services of technical re-equipment, reconstruction, modernization, restoration, repair and installation of power equipment of TPP, CHPP, HPP, NPP and power supply facilities of industrial enterprises.

Original cycle start date:	04 January 2022
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	NA
Certification / Recertification cycle start date:	30 December 2024

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: **03 January 2028**

Certificate No. **UA231696**

Version: 1

Issue date: **30 December 2024**



Olena Svyrydenko
Signed on behalf of BVCH SAS UK Branch



Certification body address: 5th Floor, 100 Lower Thames Street, London, EC3R 6DL, United Kingdom
Local office: 5th floor, 28, Simon Petlyura St., Kyiv, 01032, UKRAINE

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1 / 1

Bureau Veritas Certification



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«KHARKIVENERGOREMONT-HOLDING»**

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ISO 14001:2015

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Certification / Recertification Audit date:	NA
Certification / Recertification cycle start date:	30 December 2024

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Certificate No. **UA231697**

Version: 1

Issue date: **30 December 2024**



Olena Svyrydenko
Signed on behalf of BVCH SAS UK Branch



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Local office: 5th floor, 28, Simon Petlyura St., Kyiv, 01032, UKRAINE

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Certification / Recertification cycle start date:	30 December 2024

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Certificate No. **UA231697**

Version: 1

Issue date: **30 December 2024**



Olena Svyrydenko
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1 / 1

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Dear Customers and Partners.	1
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Kharkivenergoremont-holding	3
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