



# **KHARKOVENERGOREMONT**

**Stability**

**Reliability**

**Quality**

**THERMAL-, HYDRO- and NUCLEAR,  
POWER ENGINEERING**

*Experience and Skills*

1, Serikovskaya Str.  
Kharkov 61017, Ukraine  
Phone: +38(057) 728-41-51  
Fax: +38(057) 728-41-89  
E-mail: [khaer@khaer.com.ua](mailto:khaer@khaer.com.ua)  
[http:// www.khaer.com.ua](http://www.khaer.com.ua)



## **KHARKOVENERGOREMONT General Experience and Skills**

Kharkovenergo is the engineering-and-repair company providing services in the field of engineering, designing, diagnostics, fault detection, equipment supplies, selection of contractors, project management, including supervision of the work and performance of site operations, commissioning operations, guarantee and post guarantee maintenance provided for projects involving assembling, upgrading, reconstruction, rehabilitation, extensive repair of thermal- and hydro- power plant units and turbine shops of nuclear power plants of up to 1000 MW power rating.

Our company has accumulated considerable expertise in providing services involving reconstruction, upgrading, rehabilitation and extensive repair of thermal- and hydro power plants. Our experience dates back to the original stage of our work in the former USSR. Considering our knowledge pertaining to know-how and progress made in this area, Kharkovenergo may now be recognized as one of the few post-soviet companies who succeeded in entering the international market of services provided for power-generating companies. We also provide services as subcontractors for companies involved in implementation of complex projects involving installation, reconstruction, upgrading and rehabilitation of power-generating units.

Kharkovenergo renders a whole complex of services as follows for technical re-equipment, reconstruction and upgrading of power equipment installed at co-generation plants (CP), thermal- (TPP), hydro- (HPP) and nuclear power plants (NPP) as well as energy saving units of industrial enterprises:

- power units' inspection before and after their repair;
- assembling of power equipment on a turn-key basis;
- determination of maintenance shortcomings and methods of their elimination;
- adjustment of control systems applied to all types of turbines and vibration adjustment of high-speed power equipment (1500-14000 RPM);
- overhauling of turbines, generators and electro motors of all types ;
- overhauling of steam boilers, exhaust-heat boilers, fuel-supply systems;
- repair of pump, compressor and electrical equipment;
- repair of gas and oil coolers with the replacement of ribbed and plain pipes;
- Inspection, flaw detection, adjustment and repair of SHS on station block turbo generators.
- overhauling and adjustment of I&C equipment;
- X-ray inspection, supersonic diagnostic, magnetic powder inspection, liquid-penetrant test, metallographic testing and mechanical parameters investigation by means of up-to-date instruments and methods;
- chemical treatment and temporary close-down of power equipment within the period from 3 months to 5 years;
- inspection, repair and painting high-rise building and constructions including power plants' buildings, chimney stacks and cooling towers by means of industrial mountaineering;
- design development, erection, mounting and commissioning of small power units with the capacity from 0,5 to 12 MW for industrial enterprises;
- the program of initial training and improving of skills' level of electric welders with further testing to give a qualification in welding of power equipment;
- delivery of spare parts for all types of turbines, generators, special equipment and instruments, delivery of turbine oil and OMTI oil;
- works at power plants located in Ukraine, CIS countries, other foreign countries attended to metallurgical, mineral resource, by-product-coking, food and other industries
- mobile maintenance teams;
- more than 150 customers and partners.

Our company was among the first state-owned Ukrainian enterprises pertaining to the Ministry of Energy of Ukraine, which passed through the process of privatization. In 1994 the "Kharkovenergo" State Enterprise was privatized to become the "Kharkovenergo" Open Joint-Stock Company.

At present our company is reorganized in KHARKIVENERGOREMONT LIMITED LIABILITY COMPANY (KHAER LTD.)

In the year of 2006 we established a Joint Venture LLC "Heatmasters-Khaer" Finland – Ukraine (since 2012 LLC «HEAT-KHAER» for carrying out the works on recovery thermal treatment of welded joints, parts and sets of power equipment with an aim of recovering the structure and working conditions of the metal.



## Expertise and Skills

The list of repair works is prepared to serve as an example to confirm the gained skills and qualification of our company in the field of power energy.

### List of Completed Projects

Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
1	2018 -now	Odessa TPP, Ukraine	Overhaul of the turbine BIIT-25 and control system	PJSC "Odesskaya HPP", Ukraine	Overhaul of turbine BIIT-25-3 units №5 and №6 with automatic control system and steam distribution, with delivery and replacement of 4 stages of rotor blades and other spare parts
2	2017-2018	Estonian Electric Power Station, Narva, Estonia	Repair of the backup rotor of low pressure of the turbine K-200-130 LMZ	«ENEFIT ENERGIATOOTMINE AS», Estonia	Repair of the backup rotor low-pressure of the turbine K-200-130 LMZ of the Estonian Power Plant with the supply and replacement of the blades with 26,27, 30 and 31 stages, grinding the rotor necks and balancing the rotor on the machine. Works were carried out on the premises of companies in Ukraine
3	2017	Odessa TPP, Ukraine	Repair of the automatic control system for the steam turbine VPT-25-3M of unit No. 6 of Odessa TPP	LLC "TEPLOTRASA-INVEST", Odessa, Ukraine	Adjustment of the regulation system for the steam turbine VPT-25-3M of units №5 and №6 of Odessa TPP
4	2017	Lugansk TPP, DTEK, Ukraine	Overhaul of high and medium pressure cylinders of turbine type K-200-130 LMZ of Unit 9 of Lugansk TPP	LLC "INTERENERGOSERVICE", DTEK, Ukraine	Overhaul of high and medium pressure cylinders of turbine type K-200-130 LMZ of Unit 9 and Unit 10 of Lugansk TPP with the re-placement of rotors high and medium pressure, bearings No. 1,2,3,4 and nozzle apparatus of medium-pressure cylinder
5	2017	PRAT "KOLOS", Kharkov, Ukraine	Repair of transformers TM-1000/10 (4 pcs.) And TMF-630/10 (4 pcs.)	PRAT "KOLOS", Kharkov, Ukraine	Repair of transformers in quantity of 8 units with replacement of current-carrying rods, seals, with re-insulating of wires and inputs, drying, cleaning and degassing of oil, roschinovkoy and bus arrangement of transformers
6	2016-2018	Turbine Unit No.4 and all Equipment Unit No.5 of Gorazal TPP, Bangladesh	Overhaul, Reconstruction & Modernization of Turbine Unit No.4 and all Equipment Unit No.5 TPP "Gorazal" capacity of 210 MW on a "turnkey".	The Energy Development Council of Bangladesh (Bangladesh Power Development Board), WAPDA Building, Motijheel Commercial Area, Dhaka-1000, Bangladesh	<ul style="list-style-type: none"> <li>· Supply of rotors, working blades, nozzle blades, guiding blades</li> <li>· Supply of spare parts and Overhaul of the turbine K 210-130-8 LMZ;</li> <li>· Supply of spare parts and Overhaul of the generator TPN-200-MTSZ Electrotyazhmash;</li> <li>· Supply of spare parts and Overhaul of the boiler EII-670-13,8-545G, TGME-206;</li> <li>· Supply of spare parts and Unit transformers TDTs 125000/220-2 pcs.</li> <li>· Overhaul Transformer for auxiliary needs TRDNS-25000/35-75-T1 and standby transformer TRDNS-40000 / 220-80-T1</li> <li>· Overhaul and Supply spare parts of Equipment of the machine room: condenser with complete replacement of tubes, pumping equipment, heaters of high and low pressure;</li> <li>· Supply of spare parts and Overhaul Equipment of the shore pumping station (including 5 vertical pumps 96DV-4.5/23)</li> <li>· Overhaul of instrumentation and measuring instruments, all protection systems and alarms</li> <li>· Overhaul of switching equipment 0,4 and 6,6 kV.</li> </ul>
7	2014-2015	DTEK "Kurakhovskaya TPP", Ukraine	Reconstruction of turbine generator TTB-200M	DTEK LTD, Ukraine	Reconstruction of turbine generator TTB-200M with supply and replacement stator windings and generator bushings



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
8	2015	"Akhtyrskaya TPP", Ukraine	Repair of rotor and flowing part of turbine AP-6-35 KTZ	"Akhtyrskaya TPP", Ukraine	<ul style="list-style-type: none"> <li>Repair of the rotor and flowing part of the turbine AP-6-35 KTZ, st. №2 in the conditions of production base of LLC "HAER" with the performance of supertype works:</li> <li>- replacement of sealing bushings of seals;</li> <li>- replacement of 2 shrouds of the regulating stage;</li> <li>- the groove of the mustache on the machine, the grooving and polishing of the necks of the rotor;</li> <li>- balancing on the machine;</li> <li>- replacement of sealing lips of diaphragms with the subsequent boring</li> </ul>
9	2014	PJSC "Odesskaya HPP", Ukraine	Overhaul of turbine generator	PJSC "Odesskaya HPP", Ukraine	<ul style="list-style-type: none"> <li>Overhaul of turbine generator TBC-30 of unit No4 with supply and replacement stator windings</li> </ul>
10	2013-2014	Krasnooskolskaya hydroelectric power station, Ukraine	Reconstruction hydropower unit No.1	The municipal enterprise "Company" Water of Donbass", Ukraine	<ul style="list-style-type: none"> <li>* Supply and replacement of a new hydraulic turbine impeller;</li> <li>* Supply and implementation of a new control system for hydro-turbine;</li> <li>* Overhaul of the hydropower unit No.1 (turbine and generator) capacity of 1.8 MW and with a auxiliary equipment.</li> </ul>
11	2013	330 kV Power Substation, Simferopol, Ukraine	Overhaul CK-2, PII - 10, No. 001253	Public enterprise NPC "UKRENERGO", Ukraine	<ul style="list-style-type: none"> <li>Overhaul synchronous compensator KCB-50000/11 with output of the rotor and the replacement of the excitation system</li> </ul>
12	2013	SU "Starobeshevskaya TPS", Ukraine	Technological inspection of hanger support system	PJSC "Donbas-senergo", Ukraine	<ul style="list-style-type: none"> <li>Technological inspection of main hanger-support system, inturbine steam pipelines and feed water pipelines in cold and working condition, estimation of live steam pipelines resistance and homing action, hot and cold unit reheat, 200 MW unit, st. №6</li> </ul>
13	2013	SU "Kurakhovskaya TPS", Ukraine	Repair and adjustment of hanger-support system	"DTEK Vostokenetgo" Ltd., Ukraine	<ul style="list-style-type: none"> <li>Repair and adjustment of the main steam pipelines of live steam, cold reheat, feed water pipeline and inturbine steam pipeline of III, V steam extraction and steam exhaust from HPC turbine's and IPC turbine's sealing, 222 MW, st. №5 in the cold condition.</li> </ul>
14	2013	SU "Kurakhovskaya TPS", Ukraine	Inspection, repair and adjustment of hanger-support system	"The Pridnestrovsk centre of projects and construction diagnostics" Ltd., Ukraine	<ul style="list-style-type: none"> <li>Technological inspection, repair and adjustment of hanger-support system and estimation of feed water pipelines resistance and homing action, unit 200 MW, st. No 6</li> </ul>
15	2012	SU "Zuyevskaya TPS", Ukraine	Overhaul of hanger-support system	"DTEK Vostokenetgo" Ltd., Ukraine	<ul style="list-style-type: none"> <li>Overhaul of hanger-support system of pipelines of turbine department ( station high pressure pipelines st.№1; boiler unit TPP unit 312A st. №1; station high pressure pipelines st.№4; turbo-unit K300-240-2 st. №4; boiler unit TPP 312A st. №4</li> </ul>
16	2012-2013	PJSC "Odesskaya HPP", Ukraine	Reconstruction and overhaul Turbine BIIT-25	PJSC "Odesskaya HPP", Ukraine	<ul style="list-style-type: none"> <li>Reconstruction and overhaul of turbine BIIT-25-3 unit №1 to №3 with automatic control system and steam distribution, with delivery and replacement of all stages of rotor blades and other spare parts</li> </ul>
17	2012	SU "Starobeshevskaya TPS", Ukraine	Inspection, repair and adjustment of hanger-support system	PJSC "Donbas-senergo", Ukraine	<ul style="list-style-type: none"> <li>Technological inspection of main hanger-support systems, inturbine steam pipelines and feed water pipeline in cold and working condition, estimation of live steam pipelines resistance and homing action, hot and cold unit reheat, 200 MW, st. No 9</li> </ul>
18	2012	SOE "Severodoneckaya TPP", Ukraine	Overhaul of hanger-support system	SOE "Severodoneckaya TPP", Ukraine	<ul style="list-style-type: none"> <li>Overhaul of hanger-support system of live steam pipelines and feed water pipelines of boiler st. №20</li> </ul>
19	2012	Kharkovskaya HPP-5, Ukraine	Repair of turbine generator	"Energokonsalt" Ltd., Ukraine	<ul style="list-style-type: none"> <li>Repair of turbine generator TBΦ -120-2 st.№1 with whole replacement of stator winding and rotor repair with eliminating of low winding protection</li> </ul>
20	2012	TPP of mine Barenstburg, archipelago Shpitsbergen, Norway	Repair of TPP equipment	Federal State Unitary Enterprise "Artikugol", Russia	<ul style="list-style-type: none"> <li>Work with plant pipelines</li> <li>Current repair of turbo-unit №3</li> <li>Repair of HP and LP pipelines</li> </ul>



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
21	2011-2012	"Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	Reconstruction of the boiler BKZ-75\39 st. №3 in order to increase the steam capacity up to 90 t/h. Elaboration of design documentation, manufacturing and supply of equipment and materials, installation of equipment and commissioning with the adjustment of water and chemical regimes, the issuance of regime maps	PJSC "Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	<ol style="list-style-type: none"> <li>1. Priority of boiler operation on blast-furnace gas (without natural gas).</li> <li>2. Operation of the boiler on two types of fuel: the main blast-furnace gas; the auxiliary natural gas.</li> <li>3. Increase boiler output to 90 T/Hr.</li> <li>4. Reconstruction of boiler heating surfaces.</li> <li>5. Reconstruction of the gas air line of the boiler.</li> <li>6. Replacement of burner arrangement.</li> <li>7. Replacement of auxiliary equipment and pipelines.</li> <li>8. Modernization of C&amp;I in accordance with applicable regulations and rules.</li> <li>9. Application of an automated process control system based on «SIEMENS».</li> <li>10. Cyclone intra-drum separation (agreed with the customer).</li> <li>11. Range of boiler workloads from 20 to 100% for all operating modes (as agreed).</li> </ol>
22	2012	Scientific and Technical University "HPI", Ukraine	Equipment repair	Scientific and Technical University "HPI", Ukraine	• Equipment current repair of compression facility of turbine construction department
23	2012	State-owned Plant "Shostkinskiy state-owned plant "Impuls", Ukraine	Ecological-heat engineering testing	State-owned Plant "Shostkinskiy state-owned plant "Impuls", Ukraine	• Ecological-heat engineering testing of steam boilers ДКБП-20-2 pcs. and ДЕ-25-1 pc.
24	2012	SU "Luganskaya TPS", Ukraine	Inspection and adjustment of hanger-support system	"DTEK Vostokenetgo" Ltd., Ukraine	• Checking calculation of resistance and homing action, adjustment of hanger-support system of live steam pipelines of unit st. №9
25	2012	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Installation works in laying of winding of electrical machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	• Installation works in laying of winding, full winding and connection of unique elements of electrical machines, pressing, wedging sealing, preparing for soldering and soldering of rotor and stator winding of turbine generator
26	2012	SU "Slavyanskaya TPS", Ukraine	Services for installation heating boilers	PJSC "Donbasenergo", Ukraine	• Repair of supports, hangers and pointer of thermal movements of live stem of unit №7
27	2011-2012	"Ghorashal" TPS, Bangladesh	Reconstruction and modernization of unit №2 capacity 50 MW with an increase in power to 55 MW	JSC «Technopromexport», Russia	<ul style="list-style-type: none"> <li>• Repair of turbine generator TBΦ -60 st. №2 with rotor's bandage removal</li> <li>• Repair of steam turbine K-55-90-4 with reblading st.№18, 22, feedwater pipelines and fresh steam pipelines replacement on the unit st. №2</li> </ul>
28	2012	Kharkovskaya TPP-5, Ukraine	Turbine generator repair	"EnergoKonsalt" Ltd., Ukraine	• Dismantling of turbine generator TBΦ-120-2 st.№1 with flaw defection pf assemblies and parts
29	2010-2012	SU "Kurakhovskaya TPS", Ukraine	Reconstruction of the turbine type K-200-130 LMZ at the units No.6 and No.7 with an increase in power to 215 MW	"DTEK Vostokenetgo" Ltd., Ukraine	<ul style="list-style-type: none"> <li>• Overhaul of two turbines K-200-130 LMZ</li> <li>• Replacement of sealing parts for the flow of high, medium and low pressure cylinders</li> <li>• Replacing the last four steps blades of the low-pressure rotor</li> <li>• Replacement of high and low pressure rotors for new</li> </ul> • Modernization of the control valves of the steam distribution system of two turbines
30	2011	SU Ladinizhskaya TPS, Ukraine	Adjustment of hanger-support system	PJSC "DTEK Zapadenergo", Ukraine	• Adjustment of hanger-support system of feed water pipelines, overheat threads boiler unit TPP-312 pl.№3
31	2011	Substation 330 "Simferopol" Crimean electrical power system	Overhauling of synchronous compensator	PE "NEK Ukrenergo", Ukraine	• Overhauling of synchronous compensator IC 300 kV "Simferopol" Crimean electrical power system
32	2011	Dneprodzerzhinskaya Hydropower Plant, Ukraine	Hydrogenerator reconstruction	PJSC "Ukrhidroenergo", Ukraine	Reconstruction of hydro generator SV 1500 / 110-116 unit #6 with supply, laying and soldering of stator winding of hydrogenerator
33	2011	"Muzaffargarh" TPS, Pakistan	Repair of boiler equipment	Wealuck Hong Kong Limited	• Dismounting, installation, start-up works, commissioning of coils KIII high pressure of 2nd stage of boiler TTME-206 st.№2 and №3
34	2011	Tbiliskaya Hydro-power Plant, Georgia	Overhauling of turbine generator	"Georgian International Energy Corporation" Ltd., Georgia	• Overhauling of turbine generator TBB - 165-2 of unit №4
35	2011	Kharkovskaya TPP-5, Ukraine	Overhauling of turbine generator	"EnergoKolsant" Ltd., Ukraine	<ul style="list-style-type: none"> <li>• Overhauling of turbine generator TBΦ-120-2</li> <li>• Overhauling of duplicate exciter ГСII-3000-750</li> </ul>

Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
36	2011	«Pha lai 1» TPP, Vietnam	Overhauling of turbine	“Dala Group” Ltd. (DALA), Vietnam	<ul style="list-style-type: none"> <li>• Repair of turbo unit K-100-90-7 pl.№2 with fixing of HP rotor’s bending</li> <li>• Reblading high pressure rotor and low pressure rotor</li> <li>• Repair of turbine’s bearings</li> </ul>
37	2011	"Uong-Bi" TPS, Socialist Republic of Vietnam	Fulfillment of the repair on the unit 300 MW	Vietnam corporation for mounting of equipment «LILAMA»	Inspection the condition and operating modes of TPS equipment with the report of events preparation to bring the turbine to the design parameters.
38	2011	«Nikolaev aluminous factory» (NGZ) LTD, Ukraine	Set of works on repairing of power equipment	Service center «Metalurg» LTD, Ukraine	<ul style="list-style-type: none"> <li>• Repair of the steam boiler БК3-75/39 st. №10</li> </ul>
39	2011	Heat Electropower Station of mine Barentsburg, archipelago Shpitsbergen, Norway	Repair of the Heat Electropower Station equipment	Federal State Unitary Enterprise State trust « Arktikugol », Russia	<ul style="list-style-type: none"> <li>• Repair of the turbounit №2 П 2,5-35/5М with the replacement of the clutch PT-PI.</li> <li>• Repair of the power station equipment</li> </ul>
40	2011	SE Zuyevskaya TPS, Ukraine	Survey, repair, and setting-up of support and hanging system	“Vostokenergo” LLC, Ukraine	<ul style="list-style-type: none"> <li>• Technological survey of support and hanging system the main (in the turbine department) and in-turbine steam pipelines I,II,III,IV,V steam extraction and exhaust their glands of HPC and MPC block 300 MWt st. №1.</li> </ul>
41	2011	Dniester PSPP, Ukraine	Emergency repair of the transformer	«Special trasfo service», Italy	<ul style="list-style-type: none"> <li>• Emergency repair of the transformer frequency activation of the hydraulic unit «Special trasfo» (46000 kilovolt-ampere), with the replacement of the screens.</li> </ul>
42	2011	NTU «KPI», Ukraine	Repair of the compression facility equipment	NTU «KPI», Ukraine	<ul style="list-style-type: none"> <li>• Current repair of the compression facility equipment of the department of the turbine construction</li> </ul>
43	2011	SE “Kurakhovskaya TPS”, Ukraine	Survey, repair, and setting-up of support and hanging system	“Vostokenergo” LLC, Ukraine	<ul style="list-style-type: none"> <li>• Technical survey part of the support and hanging system and laying-out steam pipeline «hob» overheating of the blocks 200 MWt st. №7 and №8.</li> </ul>
44	2011	«SKZ Impuls», Ukraine	Ecological - heat engineering testing of the steam boilers	«SKZ Impuls», Ukraine	<ul style="list-style-type: none"> <li>• Ecological - heat engineering testing of the steam boilers E-2,5/9 (2 units)</li> </ul>
45	2011	SE “Starobeshevskaya TPS”, Ukraine	Survey and setting-up of support and hanging system	JSC “Donbas-senergo”, Ukraine	<ul style="list-style-type: none"> <li>• Survey and setting-up of the main and in turbine steam pipelines of 200 MW unit of st.5</li> </ul>
46	2009-2011	“Saqnakshiri Ltd (GIG Group)”Tkibuli, Georgia	Construction of TPP with power of 13,2 MWt in Tkibuli, Georgia	“Saqnakshiri Ltd (GIG Group)”Tkibuli, Georgia	<ul style="list-style-type: none"> <li>• Preparation and approval of the project construction of the power plant of 13,2MW</li> <li>• Order registration, production control, delivery and preparation for installation of power equipment for two power units of 6.6 MW</li> <li>• Execution of construction and installation work on the main and auxiliary equipment;</li> <li>• Cabling, connection and adjustment of electrical equipment, instrumentation and control equipment and automatic control systems</li> <li>• Preparation for start-up and adjustment of equipment, and putting power units into operation</li> </ul>
47	2010	Kakhovskaya HPP, Ukraine	The transformer repair	Ukrgidroenergo JSC	<ul style="list-style-type: none"> <li>• The repair and replacement of the power transformer TCG-7000/150 un.№ 5</li> </ul>
48	2010	Moldavskaya SDPP CJSC	The compressor repair	Moldavskaya SDPP CJSC	<ul style="list-style-type: none"> <li>• The machining (grinding) of the rotor’s neck of the TIY-2 compressor</li> </ul>
49	2010	"Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	Reconstruction of the boiler BKZ-75\39 st. №6 in order to increase the steam capacity up to 90 t / h. Elaboration of design documentation, manufacturing and supply of equipment and materials, installation of equipment and commissioning with the adjustment of water and chemical regimes, the issuance of regime maps	PJSC "Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	<ol style="list-style-type: none"> <li>1. Priority of boiler operation on blast-furnace gas (without natural gas).</li> <li>2. Operation of the boiler on two types of fuel: the main blast-furnace gas; the auxiliary natural gas.</li> <li>3. Increase boiler output to 90 T/Hr.</li> <li>4. Reconstruction of boiler heating surfaces.</li> <li>5. Reconstruction of the gas air line of the boiler.</li> <li>6. Replacement of burner arrangement.</li> <li>7. Replacement of auxiliary equipment and pipelines.</li> <li>8. Modernization of C&amp;I in accordance with applicable regulations and rules.</li> <li>9. Application of an automated process control system based on « SIEMENS».</li> <li>10. Cyclone intra-drum separation (agreed with the customer).</li> <li>11. Range of boiler workloads from 20 to 100% for all operating modes (as agreed).</li> </ol>
50	2010	Tbilisskaya SDPP, Georgia	The emergency repair of the turbine	Georgian International Power Corporation, Georgia	<ul style="list-style-type: none"> <li>• The renewal of the bearing № 1 of the K- 160-130 st. № 3 turbine</li> </ul>



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
51	2010	Dneprodzergynskaya HPP, Ukraine	Hydrogenerator reconstruction	Ukrghidroenergo JSC	Reconstruction of hydro generator SV 1500 / 110-116 unit #1 to #5 with supply, laying and soldering of stator winding of hydrogenerator
52	2010	Ukrspetsvagon SC	The repair of the boiler equipment	Ukrspetsvagon SC	• The repair with the restoration of the drum's hatch and ДКБП 10/13 boiler header
53	2010	Ekspereperimentalnaya TPP JSC, Russian Federation	The technical audit of the steam turbine condition	Ekspereperimentalnaya TPP JSC, Russian Federation	• The analysis of the technical condition of the BK-100-90-2 steam turbine with further consultation on the major overhaul process
54	2010	Kakhovskaya HPP, Ukraine	The major overhaul of the hydrogenerator	Ukrghidroenergo JSC	• The major overhaul of the CBK 1340/150- 96 units №3 and №5 hydrogenerator without rotor exclusion with supply spare parts
55	2010	Kurakhovskaya TPP, Ukraine	The inspection, repair and set up of the support and hanging system	Vostokenergo Ltd	• The inspection, repair and set up of the SHS of the inner turbine steam pipeline connected to turbine HPC and LPC of the unit № 6 • The inspection, repair, and set up of the SHS of the live steam pipeline of the hot and cold intermediate superheating and feed water of the unit № 6
56	2010	Barentsburg TPP Shpitzbergen archipelago	The repair of the equipment	FGUP Arktikugol state trust, Russia	• The replacement of the № 2 CY 20-39/440 boiler furnace The repair of the general station equipment
57	2010	Astrakhanskaya TPP-2	The turbine repair	Energoremont Ltd, Moscow	• The replacement of the blades of the 30 stage of the IIT-80/100-130-13 st № 2 turbine
58	2010	Tbilisskaya HPP, Georgia	The major overhaul of the TBB-165 st # 4 turbine set	Georgian International Power Corporation, Georgia	• The repair of the diffuser, intermediate sleeve, oil collector. • The repair of the gas cooler. • The repair of the cord bandage
59	2010	SE Starobeshevskaya TPP	The repair of the equipment of the 200 MW unit st # 10	PJSC "Donbassenergo", Ukraine	• The inspection and set-up of the feed water pipeline of the 200 MW unit st № 10
60	2010	Moldavskaya State District Thermal Station, Closed JSC, Moldavian Republic	Overhaul of turbine	Moldavskaya State District Thermal Station, Closed JSC, Moldavian Republic	-Re-blading of stage No.29 -Replacement of blades on stage No.28
61	2010	NTU "KhPI"	The repair of the compression facility equipment of NTU "KhPI"	NTU "KhPI"	• The repair of the assemblies and panels of IIPC 0,4 kV type
62	2010	Khersonskaya TPP PC	The major overhaul of the equipment	Khersonskaya TPP PC	• The major overhaul of the turbine IIP-30-90/10-0,9 The major overhaul of the generator TBC-30 unit №3
63	2010	"Tbilisskaya SDPP", Georgia	Technical audit of the state of power equipment	Georgian International Energy Corporation	Survey of the technical state of power generating units equipment of st.№3,4 and balance of plant equipment
64	2010	Simferopolska CHP, Ukraine	Turbogenerator overhauling	"Krymteploenergomontazh 2004" Ltd., Ukraine	Repair works on turbogenerator TB-60-2
65	2010	Metallurgical Work "PAKISTAN STEEL MILLS CORPORATION LTD" Karachi, Pakistan	Turbine emergency repair	Foreign Economic Association "Tyazhpromexport", Russia	Emergency repair of steam turbine IIT-60- 90/13 with reblading of st.28 of LPR
66	2010	OJSC "Kharkovska CHP 5", Ukraine	Overhaul repair of turbogenerator	OJSC "Kharkovska CHP 5", Ukraine	Overhauling of the synchronous type turbogenerator TBB-320-2EY3
67	2010	"Kurakhovskaya TPS", Ukraine	Survey, repair, and setting-up of support and hanging system	"Vostokenergo" LLC, Ukraine	Survey and setting-up of the support and hanging system of in turbine steam pipelines of 200 MW unit of st.3 in cold state
68	2010	CJSC "Moldavskaya HPP" Pridnestrovsk Moldavian Republic	Tap hole finishing of half couplings	CJSC "Moldavskaya HPP" Pridnestrovsk Moldavian Republic	Tap hole finishing of half couplings of HPR-MPR turbine of st.5
69	2010	"Starobeshevskaya TPS", Ukraine	Survey and setting-up of support and hanging system	JSC "Donbassenergo", Ukraine	Survey and setting-up of the support and hanging system of main and in-turbine steam pipelines of 200 MW unit of st.10
70	2010	JSC "Energy Invest", Rustavi, Georgia	Balancing of electric motor, CTДП-5000-2V4 type, 2975 r.p.m.	JSC "Energy Invest", Rustavi, Georgia	Works on balancing of electric motor, CTДП-5000-2V4 type, 2975 r.p.m.
71	2010	OJSC "Donetskenergomont", Ukraine	Modernization of boiler unit, ТП-109	"Vostokenergo" LLC, Ukraine	Survey of support and hanging system (OCII) of main steam pipelines of feed water of 200 MW unit of st.№7



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
72	2010	OJSC "Yasinovskiy Coke and Chemical Plant", Ukraine	Set of works on comissioning of electric pump unit ПЭ-160	OJSC "Yasinovskiy Coke and Chemical Plant", Ukraine	Set of works on commissioning of electric pump unit ПЭ-160 along with developing the project design documentation for installation and feed water piping of the electric pump unit ПЭ-160 in "TX", "AC", "KM", and "ЭC" parts with development of automatic control system: vibration level on bearings and alarming of increase of limiting values, water pressure in the pipeline.
73	2010	OJSC "Kharkovskiy Zavod Metalevykh Konstrukcij", Ukraine	Spare parts manufacturing	OJSC "Kharkovskiy zavod metalevykh konstrukcij", Ukraine	Manufacturing of block-stars boiler from Customer drawings (total weight of manufactured products - 650 tons)
74	2010	"Kurakhovskaya TPS", Ukraine	Survey, repair, and setting-up of support and hanging system	"Vostokenergo" LLC, Ukraine	· Survey and setting-up of support and hanging system of in turbine of 200 MW unit of st.№7 · Repair of support and hanging system of in turbine steam pipelines of 200 MW unit of st.№7
75	2008-2009	"Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	Reconstruction of the boiler BKZ-75\39 st. №7 in order to increase the steam capacity up to 90 t / h. Elaboration of design documentation, manufacturing and supply of equipment and materials, installation of equipment and commissioning with the adjustment of water and chemical regimes, the issuance of regime maps	PJSC "Enakievo Steel Plant", Enakievo, Donetsk region, Ukraine	1. Priority of boiler operation on blast-furnace gas (without natural gas). 2. Operation of the boiler on two types of fuel: the main blast-furnace gas; the auxiliary natural gas. 3. Increase boiler output to 90 T/Hr. 4. Reconstruction of boiler heating surfaces. 5. Reconstruction of the gas air line of the boiler. 6. Replacement of burner arrangement. 7. Replacement of auxiliary equipment and pipelines. 8. Modernization of C&I in accordance with applicable regulations and rules. 9. Application of an automated process control system based on «SIEMENS». 10. Cyclone intra-drum separation (agreed with the customer). 11. Range of boiler workloads from 20 to 100% for all operating modes (as agreed).
76	2009	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Mounting works on the laying of the winding of the power machiens	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport" Russia	· Mounting works on the laying of the stator winding , turbo generator (orders 10101-487, 10101-512)
77	2009	SE "Slavyanskaya TPS", Ukraine	Technical expection of support and hanging system on the working equipment (hot adjustment)	OJSC "Donetskenergo", Ukraine	· Technical expection of support and hanging system of the main stem pipelines in turbine section and intratubal steampipelines of HPC of turbounit K-800-240-2 st. No 7
78	2009	CJSC «Moldavskaya GRES»	Overhaul repair of turbine K200-130	CJSC «Moldavskaya GRES»	· Replacement of the working vlades of 13 stage and bandages of 14 stage of MPR of turbine K200-130
79	2009	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Mounting works on the laying of the winding of the power machiens	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport" Russia	· Mounting works on the laying of the stator winding , turbo generator (orders 10101- 465, 10101-511, 10174-160)
80	2009	Iraninan Power Plant Repair Company. Kataj Iran	Overhaul repair of turbine	TPP «Ramin»	Repair of the flow part of the turbine, repair of generator, control system and re- blading of stage. №34., 39 of LPR
81	2009	Public Enterprise «Ukrspetsvagon» Ukraine	Ecologicpowertechical testing of steam boilers	Public Enterprise «Ukrspetsvagon» Ukraine	· Ecologic-powertechical testing of steam boilers DKVR-10/13 with issuing of technical passport
82	2009	Krivorozhskaya TPS, Ukraine	Heat treatment of metal of steam box of the unit of check regulative valve VT of turbine K300-240-2 XTI3 cr. №10	Corporation of production and commercial enterprises «SOYUZ»	Rehabilitation Heat treatment and repair of check regulative valve VT of tirbine K300-240-2 XTI3 cr. №10
83	2009	Dobrotvorskaya TPP, Ukraine	Overhaul repair of the pump	OJSC «Zapadenergo» Ukraine	Overhaul repair of the oil pump of type GMN
84	2009	SE Kurahovskaya TPP, Ukraine	Replacement of the heating sections of the steam converting devices	OJSC «Vostokenergo», Ukraine	· Works on replacement of the heating section of the steam converting devices IIIIV-4 and IIIIV-6 of Unit No 6
85	2009	Jankoiskaya MPS, Ukraine	Overhaul repair of busbar	State Company NEC «Ukrenergo»	· Overhaul repair of the busbar 10 KV with the replacement of the supporting insulator IIC-330 kV «Jankoi»
86	2009	Tripolskaya TPP, Ukraine	Repair and adjustment of the suspension hanging system	«Donetskenergo» Ltd. Ukraine	· Repair of the suspension hanging system of the steampipe connected to HPC and MPC of steam turbine K-300-240 XTI3 st.No 3
87	2009	Slavyanskaya TPS, Ukraine	Repair of accessories of turbine department	OJSC «Donbasenergo», Ukraine	· Repair of accessories of turbine department of unit No. № 7





Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
88	2009	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Mounting works on the laying of the winding of the power machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	• Mounting works on the laying of the stator winding, turbo generator (orders 10101-498, 10101-495, 10166-271, 10101-488)
89	2009	Starobeshevskaya TPS, Ukraine	Vibro examination of turbogenerator	OJSC «Donbasenergo», Ukraine	• Vibro examination of turbogenerator st. No4
90	2009	Slavyanskaya TPS, Ukraine	Turbopipes repair	OJSC «Donbasenergo», Ukraine	• Pipelines repair
91	2009	Jankoiskaya MPS, Ukraine	Overhaul repair of the synchronous compensator	State Company NEC «Ukrenergo»	• Overhaul repair of the synchronous compensator KCB-50000/11 st. No 1 IIC-330 KV «Jankoi»
92	2009	TPP «Ramin», Iran	Overhaul repair of the turbine	Iran Power Plants Repair Company, Karaj city, Iran	Overhaul repair of turbine K-300-240-2 LMZ of Unit No 2 with reblading of LPR (10 stages), MPR (8 stages), HPR (2 stages), replacement of HPR for a spare one, carrying out of start-up and vibro adjusting works
93	2009	State company «Shostkinskiy State Plant «Impuls», Ukraine	Ecologic-heat engineering test of steam boiler	State company «Shostkinskiy State Plant «Impuls», Ukraine	• Ecologic- heat engineering test of steam boiler ДКБP-20 (2 pcs.), ДE-25 (1 pcs.); water-heating boiler KBTM-20 (2 pcs.)
94	2009	Starobeshevskaya TPS, Ukraine	Suspension hanging system examination of steampipes in working condition	OJSC «Donbasenergo», Ukraine	• Suspension hanging system examination of steampipes in working condition of unit 200 MW st.No 13
95	2009	TPP «Ramin», Iran	Works on magnitization measurement and further demagnetization of HPR, MPR and LPR	Iran Power Plants Repair Company, Karaj city, Iran	• Works on magnitization measurement and further demagnetization of HPR, MPR and LPR and inserts of bearing No 1÷№5 of turbo-unit K-300-240-2 st. №2
96	2009	Heat Station of mine Barentsburg, archipelago Shpitsbergen, Norway	Overhaul repair of boiler unit and general station equipment	CJSC «Electroug- montag», Kurchatov city, Russia	• Overhaul repair, mounting and start-up works of boiler-unir CY-0/39-440 st. No 1 Overhaul of the general station equipment
97	2008-2009	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Mounting works on the laying of the power machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	• Mounting works on the laying of the stator winding, turbo generator (orders 10101-491, 10101-492, 10101-493, 10174-159, 10166-273)
98	2008-2009	Kahovskaya HPS, Ukraine	Reconstruction of hydrogen-generator and transformer	Consortium Research & Manufacturing Association Ukrgridroenergo, Ukraine	• Reconstruction of hydrogen generator CBK-1340/150-96 units №2,4,6 with supply spare parts Reconstruction of transformer ТТЦ- 70000/150 units №2,4,6 with supply spare parts
99	2008	Shostkinskaya TPS, Ukraine	Turbo-generator repair	JSC Shostkinskoe Subsidiary "Kharkovenergomont", Ukraine	• Repair of turbo-generator TBC-30, st. No.4 with the removal of the retaining rings
100	2008	SE "Slavyanskaya TPS", Ukraine	Turbine overhauling	OJSC "Donetskenergomont", Ukraine	HPC overhauling of turbine K-800-240-2LMZ
101	2008	SE "Slavyanskaya TPS", Ukraine	Repair and adjustment of suspension hanging system	OJSC "Donbasenergo", Ukraine	• Technical inspection of suspension hanging system of inner turbine steampipes connected to HPC, MPC, of steampipes to the quick- operating pressure-reducing desuperheating station, turbo feed pump and auxiliary turbo- generator steampipes K-800-240-2 st. №7
102	2008	SE "Slavyanskaya TPS", Ukraine	Repair and adjustment of	OJSC "Donbasenergo", Ukraine	Technical inspection and supervision on repair and adjustment of suspension hanging system of cold steam pipe reheater of the unit, st. No. 7
103	2008	SE "Slavyanskaya TPS", Ukraine	Turbo-generator repair	OJSC "Donbasenergo", Ukraine	• Overhaul reconditioning with partial replacement of the stator winding bars of the turbo-generator TBB-800-2 st. No. 7
104	2008	SE "Slavyanskaya TPS", Ukraine	Repair and adjustment of suspension hanging system	OJSC "Donbasenergo", Ukraine	Repair of suspension hanging system of the main turbo-generator steampipes
105	2008	Kramatorskaya TPS, Ukraine	Boilers overhauling	CJSC "Megaresurs", Ukraine	Boilers overhauling – of the main water heater No. 10, type EO-350, peaking boiler No.5 and No. 8, type ПСВ-315
106	2008	Zaporozhskaya TPS, Ukraine	Technical re-equipment of power unit No. 1 to No. 3	OJSC "Dneproenergo", Ukraine	• Elaboration of the design estimate documentation • Turbine technical reequipment K-300-240-2 XT3 • Reconstruction of LPC steam path • Reconstruction of the overbanding sealing of HPC and MPC • Reconstruction of the turbine regulating system • Modernization of drain blowoff scheme



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
107	2008	Dneprodzerzhinskaya HPS, Ukraine	Generator modernization	OJSC "Dneprspec-zhidroener-gomontazh"&OJSC "UkrHydroEnergo", Ukraine	· Dismantling and installation of the generator assemblies CB 500/110-116 st. No.4 to No.7
108	2008	SE "Elektrotyazhmash", Ukraine	Assembly works on windings laying of electrical machines	SE "Elektrotyazhmash", Ukraine	· Range of works on winding assembling of the turbo-generator stator ТГВ-325
109	2008	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Assembly works on windings laying of electrical machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Winding works during the production of turbo-generator stators and rotors (plant orders 10101-481 ТЗФП-63, 10101-482, ТЗФГ-160, 10101-490-ТЗФГ-160, 10101-499 ТВВ-800, 10166-272 ТВВ-500)
110	2008	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Assembly works on windings laying of electrical machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Winding works during the production of turbo-generator stators and rotors (plant orders 10101-480 ТЗФП-160, 10101-469 ТЗФГ-160, 10101-462 ACK-100, 10101-447 ТВВ-660, 10101-473 ТЗФП-110, 10174-154 ТВВ-220, 10101-472 ТЗФП-220)
111	2008	Krivorogskaya TPS, Ukraine	Repair of turbine section of unit No.8 and unit No.10	Industrial and Commercial Enterprises` Corporation "Soyuz", Ukraine	· Turbine technical reequipment K-300-240 XIT3 · Repair auxiliary equipment of machinery hall · generator overhauling ТГВ-300 · Technical diagnosis of the unit
112	2008	Scientific and Technical University "HPP"	Equipment current repair	Scientific and Technical University "HPP"	Current repair of the compression facility equipment
113	2008	Kurskaya Cogeneration plant –I, Russia	Rotors reconstruction	Kurskaya Cogeneration plant –I, Russia	Dismantling, repair, assembling and balancing of the generator`s rotor TB2-60-2 st.No. 5
114	2008	AES "Ekibastuz" TPP, Kazakhstan	Turboset overhauling and reconstruction	AES "Ekibastuz" TPP, Kazakhstan	Overhauling Turbine K-500-240-2 st.No.3 and No.4 and reconstruction of the stem path, automatic control system and turbine`s steam distribution with supply spare parts
115	2008	"Orhanely" TPS, Turkey	Turbine current repair	"Ukrenergocomplect" Ltd., Ukraine	Turbine current repair K-210-130-3 LMZ
116	2008	Luganskaya TPS, Ukraine	Emergency overhauling	JSC "Vostokenergo", Ukraine	· Emergency overhaul of heat and gas supply and ventilation ТГВ-200, unit No.10
117	2008	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	Erecting works on winding installation of electric machines	OJSC "Power Machines – ZTL, LMZ, Elektrosila, Energomashexport", Russia	· Winding works and production of turbo-generator stator and rotor (plant orders 10174-155-TBB-1000, 10101-470- ТЗФАУ-160, 10101-462-ACK-100, 10101-469-ТЗФГ-160, 10174-152-TBB-1000)
118	2008	TPS "Ramin", Iran	Emergency turbine overhauling	"Arya Arman Arvand" Company	· Emergency steam turbine overhauling K-300-240, unit No.2
119	2008	OJSC "Experimental TPS", Russia	Turbine overhauling	OJSC "Experimental TPS", Russia	· Steam turbine mid-repair, BK-100-90-2(5), unit No.5
120	2008	TPP JSC «Nikolaevskiy aluminuos plant», Ukraine	Supply spare parts and repair of live steam pipe and feeding pipe line	JSC «Metallurg», Ukraine	· Elaboration of working documentation of live steam pipe seal No. 5, No.80 · Installation of seal No.5 between the live steam pipe collectors, No.80 · Heat insulation works of live steam pipe, ref. No.80 · Technical and expert inspect of live steam pipe, No.80 · Set-up works, resistance and homing of living steam pipe estimation, No.80 · Technical and expert inspection of feeding pipe line, No.79 · Metal checking to inspect metal condition of feeding pipe line, No.79 · Set-up works, resistance and homing of feeding pipe line estimation, No.79 · Heat insulation works of feeding pipe line, No.80
121	2008	JSC «Sakenergoremont», Georgia	Technical maintenance	JSC «Sakenergoremont», Georgia	Technical maintenance of repair works at K-300-240 st. №9
122	2007	JSC «Kramatorsktep-loenergo» ltd., Ukraine	Repair of feeding pipe line	«Kramatorsktep-loenergo» ltd., Ukraine	Feeding pipeline repair of the boiler ТП-170 st. №5



Serial No	Year	Plant	Project Description	Customer	Work/designs/supplies
123	2007	Krivorozhskaya TPS	Technical re-equipment of power unit No.3 and No.4 with reconstruction of electric filter. Working out of sulphur and nitro cleaning. Design works.	OJSC «Dneproenerougkraina, Ukraine	<ul style="list-style-type: none"> <li>· Modernization of gland carriers system of turbine K-300-240-2 XTT3</li> <li>· Modernization of drainage and blowoff system of turbine K-300-240 XTT3</li> <li>· Reconstruction of governing system of turbine K-300-240 XTT3</li> <li>· Reconstruction of heat insulation of turbine</li> </ul>
124	2007	Jamshoro TPS, Pakistan	Overhauling of power unit No.3 and No.4	“GRID TRADING Malta Ltd”, Malta	Overhauling of 200 MW turbine and generator, Chinese manufacturing
125	2007	SE «PC «A.M. Makarov south machine works» CHP	Overhauling of turbine and generator	SE «PC «A.M. Makarov south machine works» CHP	<ul style="list-style-type: none"> <li>· Overhauling of turbo generator TBC-30 ст. №2</li> <li>· Overhauling with modernization of turbine, type АП-25-2 ст.№2</li> <li>· Repair of turbine auxiliary equipment</li> </ul>
126	2007	Kakhovskaya HPS, Ukraine	Overhauling of Hydrogenerator	OJSC «Ukrgridroenergo» City of Vyshgorod, Ukraine	· Overhauling of Hydrogenerator, type CBK-1340/150-96, capacity 57,2 MW st. №5
127	2007	Kursk Coeneration Plant -1, Russia	Overhaul of turbine	Energoremont; TGK-4, Open JSC	Overhaul of the turbine IIT 60-90/13 at unit №5
128	2007	Orhaneli TPS, Turkey	Overhaul of turbine	Ukrenergokomplekt Ltd., Ukraine	<ul style="list-style-type: none"> <li>· Overhaul of the turbine K 210-130 JIM3</li> <li>· Reconstruction of 4 control valves with the replacement of axle-boxes</li> <li>· Replacement of over-bandage sealing rings of the control stage</li> <li>· Start up works.</li> </ul>
129	2007	AES Ekibastuz TPS, Kazakhstan	Turboset overhauling and reconstruction	AES Ekibastuz TPS, Kazakhstan	Overhauling Turbine K-500-240-2. No.5 and No.6 and reconstruction of the stem path, automatic control system and turbine's steam distribution with supply spare parts
130	2007	Jamshoro TPS, Pakistan	Overhaul of unit № 2	Grid Trading Malta Ltd, Malta	· Overhaul of the unit № 2, 200 MW, made by Harbin, China
131	2007	Experimentalnaya TPS, Open Joint-Stock Company, Russia	Dismantling, manufacture and mounting of thermal power equipment	Experimentalnaya TPS, Open Joint-Stock Company, Russia	<ul style="list-style-type: none"> <li>· Manufacture and replacement of heating surfaces of boilers TII-230-2 type at units №9,10,11</li> <li>· Repair of ball-drum mill ИИВМ9А, 11Б</li> <li>· Current repair of the turbine BK-100-2</li> </ul>
132	2007-2008	Ghorasal TPS, Bangladesh	Reconstruction and modernization of unit №1 capacity 50 MW with an increase in power to 55 MW	Foreign Economic Association Technopromexport, Open Joint-Stock Company, Russia	<ul style="list-style-type: none"> <li>· Replacement of the turbine condenser</li> <li>· Repair of the turbo-generator TBΦ -60 type st. №1 with the removal of rotor bandage</li> <li>· Repair of the steam turbine K-55-90-4 with reblading at st. №18, 22</li> <li>· Change of the feedwater pipeline and live steam pipeline of power unit №1</li> </ul>
133	2007	Zmievskaia TPS, Ukraine	Overhaul of power equipment	GEC Tsentrenergo, Open JSC, Ukraine	<ul style="list-style-type: none"> <li>· Overhaul of two check valves of the turbine K-200-130 with the recovery of metal structure and overhaul-period renewal</li> <li>· Maintenance services and repair of taps and valves</li> </ul>
134	2007	Dneprodzerzhinskaya HPS, Dneprodzerzhinsk, Ukraine	Reconstruction of hydrogenerator	OJSC “UkrHydroEnergo”, Vyzhgorod, Kiev Region	· Replacement of the stator winding of the CV 1500/110-116 generator type unit №2, 44 mW

**We look forward to effective cooperation in the field of engineering, assembly and repair of power-generating equipment.**

**Our specialists are always ready to come to you to carry out preliminary inspection and make all necessary arrangements of the mutual projects.**



**Contact telephone numbers:**

Director	Pronin Anatoly Konstantinovich	тел.+38 (057) 728-41-51
Executive director	Gedzey Natalia Victorovna	тел.+38 (057) 728-41-61
Marketing director	Makarenko Maria Adamovna	тел.+38 (057) 728-41-56
Production Director	Chereshnev Dmitriy Aleksandrovich	тел.+38 (057) 728-41-81

**1, Serikovskaya Str.  
Kharkov 61017, Ukraine  
Phone: +38 (057) 728-41-51  
Fax: +38 (057) 728-41-89  
E-mail: [khaer@khaer.com.ua](mailto:khaer@khaer.com.ua) , [ukr.khaer@gmail.com](mailto:ukr.khaer@gmail.com)  
<http://www.khaer.com.ua>**