

Historical Review

Operation of our Company on the territory of the Republic of Belarus started in early March 1944 in the capacity of a territorial branch of the All-Union trust Tsentroenergomontazh. Within those years in the projects of Byelorussian heat power industry only we had erected equipment for 7000 MW of installed capacity, which is more than 80% of the whole state potential. In 1994 the Company acquired independent status, and in 1997 it was transformed in a joint stock company without the state capital.

Operation Scope

Specialized works, being carried out by JSC TSEM in the areas of heat and power industry, chemical, petrochemical, metallurgic works as well as in other spheres include erection, maintenance, fabrication and diagnostics of main and auxiliary equipment, piping lines, steel structures, pressure vessels and tanks for storing various media.

JSC TSEM has experience in completion of general contractor projects, including supply of equipment, valves and materials, and offers to its Customers a whole range of turn-key services for construction, reconstruction, up-grade, maintenance and commissioning of objects in various industry branches.

Taking into account the growing perspectives for nuclear power industry, within the recent years the Company has acquired much experience in erection of equipment and systems at objectives in that sphere.

Company Structure

Administrative management of productive and economic activities is conducted from the head office in Minsk. The main productive unit is a Productive Division. Today the company includes 7 production sites, located in all regional centers of the republic and abroad (at power stations sites of the Russian Federation).

As of July 20, 2015 the total personnel number made up 743 specialists, including 184 engineers, and 559 workers.

Productive Capacity

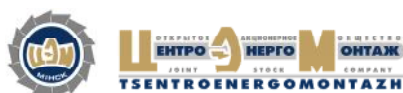
Construction and maintenance of the infrastructure for production tasks is ensured by the relevant departments and services of the Company.

All working processes are provided with modern equipment by the Master Mechanic Department, which has all the necessary equipment, tools, vehicles and lifting devices, including 2 Liebherr mobile cranes of 250 and 90 tons lifting capacity.

Traditionally, the Company renders services in fabrication of steel structure, tanks of up to 5000 cub.m. (roll method), low pressure piping lines, shaped parts for heat mains and gas lines, tubular air heaters of boilers, screen and convective heating panels for all types of boilers, optional equipment, provides for experienced installation of tanks up to 75000 cub.m by sheet-by-sheet method. The fabrication works are carried out in the 2 on-site workshops with the total area of 8500 sq.m.

Our Subcontractors for the main working components are:

- JCS Belspetsenergo (Belarus);
- RUE Belenergozaschita (Belarus);
- JSC Belenergoremnaladka (Belarus);
- JSC Belenergostroy (Belarus);
- CSC Trust Sevzapenergomontazh (Russia);
- JSC E4-Tsentrenergomontazh (Russia);



- JSC Elektrotsentromontazh (Belarus)
- JSC Yuzhteploenergomontazh (Ukraine)

Certification and Attestation

Top management conducts sustainable politics on implementation of modern management systems and optimization of business processes, main aim for which is the increase of consumer value of the services rendered and products supplied.

In the year 1999, the Quality Management System of JSC Tsentroenergomontazh was certified by the technical oversight body of TÜV Thüringen (Germany) for compliance with the requirements of DIN EN ISO-9002 (1994-08).

In April, 2015 the re-certification audit by the body for certification of management systems and personnel TÜV Thüringen e. V. confirmed that the company had successfully applied the Management System in accordance with the requirements of ISO 9001:2008 and BS OHSAS 18001:2007 (Certificates TIC 15 100 9661; TIC 15 116 6018 dated 22.05.2015, valid until 21.05.2018).

The Company's announced productive activity is licensed by competent Authorities of Belarus and Russia. The quality of our products and services is guaranteed at all stages of their life cycle and is ensured by reliable functioning of productive units, whose operation is regulated by standards of the Republic of Belarus, the Russian Federation and the European Union.

And in particular:

- the NDT laboratory is attested for compliance with the requirements towards testing and measuring laboratories as per STB ISO/IEC 17025 (Belstandard) and the requirements of NDT system of Rostekhnadzor (the Research and Training Center "Inspection and Diagnostics" »);
- the Electro-physical testing laboratory is attested for compliance with the requirements towards testing and measuring laboratories as per STB ISO/IEC 17025 (Belstandard).

For the last 2 years the Company's Management Systems functioning has been inspected by: TÜV CERT (Germany), Belstandard (Belarus), Gospromnadzor (Belarus), Rostekhnadzor (Russia), FSUE AU "Bezopasnost" of Rostekhnadzor in Russia.

Our Customers

We respect all our Customers and are proud to mention the major ones for the last 10 years:

- RUE Belenergo;
 - JSC Borisovtimber Plant;
 - JSC Gomel Chemical Plant;
 - JSC Gomeltransoil Druzhba;
 - JSC Gorodeya Sugar Refinery;
 - FC Lukoil-Byelorussia;
 - JSC Mozyr Oil Refinery;
 - JSC Grodno-Azot;
 - JSC Naftan Oil Refinery;
- including foreign companies such as:
- ANSALDO CALDAIE S.p.A. (Italy);
 - ATHENA S.A. (Greece);
 - GES ALSTOM (France);
 - JSC Atomstroyexport (Russia);
 - JSC E4Group;
 - JSC QUADRA (TGC-4, Russia);
 - the Electricity Authority of Cyprus;



- JSC Mosenergo (Russia);
 - JSC RUSAL;
 - JSC Technopromexport (Russia);
 - CJSC Energokaskad (Russia);
- JSC HPC Mosenergo.

Experience that has been gained for more than 70 years of operation, high qualification of personnel, individual approach to analysis of each project and positive image both in domestic and foreign market allow us to guarantee high quality of our services, time terms and compliance with all the requirements of contracts signed.

Major projects executed in the Republic of Belarus over the last 10 years		
Bereza Power Plant, Phases I and II	Reconstruction of 2 units with the capacity of 150 MW with topping four gas turbines with the capacity of 25MW each	2003-2005
Gomel City heat networks	Turn-key installation of a 6 MW turbine	2004
Soligorsk	Commissioning of a mini-CHPP with a 2.5 MW turbine	2004
Minsk CHPP-4	Installation of two expander-generator plants with the capacity of 2.5 MW each, reconstruction of the gas service	2005
Vitebsk CHPP	Contractor General reconstruction with replacement of the 40 MW turbine unit	2005
Gas -filling station, JV Likoil Belarus	Installation of liquefied gas storage tanks 10 x 200 cubic meters, auxiliary equipment and constructions, Contractor General	2005-2006
Baranovich CHPP	Installation of a 12MW turbine, Contractor General	2006
Mini-CHPP, Pinsk	Installation of turbine TG-4.0/10.5 P 0.6/01 and waste heat boiler KUP-12.5-1.4-280 for waste wood incineration	2006-2007
Gomel Chemical Plant	Installation of a 6 MW turbine, including two heat exchangers as components of the sulfuric acid production plant	2006-2007
Mini-CHPP Severnaya, Grodno	Installation of a 6 MW turbine, Contractor General	2006-2007
Mini-CHPP, Vileyka	Installation of turbine P-2.4-2.3/0.12 and boiler KE-25-24-350 for waste wood incineration	2006-2007

Lida CHPP	Phase I. Installation of steam boiler E35-3.9-440GM, boiler piping, a chimney stack of 62 m. Phase II. Reconstruction and installation of heat recovery boiler KGT-35-3,9-440, a 25 MW gas turbine unit	2007-2008
JSC Naftan	Fabrication, installation and piping connection of a tank with the capacity of V=2000 cubic meters, installation of 2 oil storage tanks of V=3000 cubic meters.	2008
Gomel CHPP	Installation of a expander-generator plant with the capacity of 4 MW	2008
JSC Grodno-Azot	Phase I. Installation of 2 gas turbines with the capacity of 8 MW each.	2008
Zhodino CHPP	Installation of local-fuel fired steam boiler E-60-9, 9-510 (by TKZ)	2008
Minsk CHPP-3	Installation of a combined-cycle plant with the capacity of 230 MW including: a 160 MW gas turbine (ALSTOM, Switzerland), a steam turbine T-53/67-80 (UTMZ, Russia), a waste heat boiler Q=63.2 t/h, P=8/0.6 MPa (SES Energy, Slovakia)	2007-2009
JSC Grodno-Azot	Installation of a gas turbine plant including 2 turbines with the capacity of 8 MW each (Siemens), 2 waste heat boilers with the capacity of 25 t/h each Installation of boiler E-570 (Bresson, the Czech Republic) in the carbamide production workshop	2009 -2011
Minsk CHPP-5	Chemical water treatment system reconstruction	2009-2011
Minsk CHPP-2	CHPP reconstruction, including installation of 2 gas turbines with the capacity of 25 MW each (Siemens), 2 steam turbines with the capacity of 7.5 MW each, 2 waste heat boilers Q=32.1 t/h (China)	2009-2011
Vitebsk CHPP	Phase 2. PT-40/50-8.8/1.3 (KTZ) Steam turbine installation	2011
Grodno CHPP-2	BKZ-320-140 Boiler Unit Reconstruction, Q=320 t/h	2011
JSC Naftan	Construction of a low-temperature izomerization unit with deisohexaniser (Contractor General)	2008-2011



Grodno HPP	Installation of hydro-power and hydro-mechanical equipment – 5 turbine units with the total capacity of 18.5 MW (MAVEL A.S., the Czech Republic)	2010-2012
LODS Mozyr, JSC Gomeltransneft Druzhba	Installation of two storage tanks with the capacity of V=50000 cubic meters each (double wall with a floating roof), Contractor General	2010-2012
Berezino Housing and Communal Services	Construction of a local-fuel fired Boiler Unit	2010-2013
Grodno CHPP-2	Installation of PG 9171 E Gas Turbine with the capacity of мощностью 126.1 MW (BHEL, India)	2011-2012
JSC Borisovdrev	Installation of the manufacturing equipment in the medium-density fiberboard workshop	2012-2013
JSC Mozyr Oil Refinery Plant	Off-site utilities of the vacuum distillation unit. Process communications and heating network TK16, TK17, JSC Mozyr Oil Refinery Plant	2012-2013
PAUE Polesye-Promzhilstroy	Off-site utilities of the vacuum distillation unit. Pumping station with reconstruction of the tank battery of JSC Mozyr Oil Refinery Plant	2013
JSC Borisovdrev	52 MW, local-fuel fired, thermal oil boiler unit.	2013
Reconstruction of the Boiler Shop (PK-3), Zhodino CHPP Borisov	Installation of thermal and mechanical equipment for the combined-cycle plant with the capacity of 65 MW	2012-2014
JSC Naftan	Extension of the oil storage tank farm and installation of 2 oil storage tanks with the capacity of V=20000 cub.m., 3 oil storage tanks with the capacity of V=30000 cub.m. (General Contractor)	2008-2015

The company is highly experienced in projects execution at installation sites abroad. Nuclear power plants Loviiza (Finland) and PAKS (Hungary), power stations in Bangladesh, Vietnam, Greece, Guinea, Iran, Kazakhstan, Libya, Lithuania, Pakistan, Russia, Yugoslavia, the Ukraine and Cyprus were constructed with participation of our specialists.

Major Projects executed abroad over the last 10 years

Atherinolakkos CHPP,	13 tanks with the capacity from 150 to	The Customer -	2003-2004
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Greece	22500 cubic meters, Phase I	Athena S.A., Greece	
Kaliningrad CHPP-2, Russia	Installation of a combined-cycle power plant 450 MW with two gas turbines with the capacity of 160 MW each and a steam turbine T-125/150-7.2	The Customer – RAO UES of Russia	2003-2005
Phase II, Vasilikos Power Station, Cyprus	Contractor General Installation of a 400 t/h boiler	The Customer – JSC Ansaldo, Italy	2004-2005
Friguia CHPP, Guinea	Contractor General Installation of a 160 t/h boiler and a 12 MW turbine	The Customer – JSC RUSAL, Russia	2005-2006
Severo-Zapadnaya CHPP, St. Petersburg, the Russian Federation	Turbine pipelines of unit No.2, pipelines of boilers No. 3 and 4	The Customer – JSC Trust Sevzapenergmontazh, Russia	2005-2006
Atherinolakkos CHPP, Greece	Installation of 2 boilers with the capacity of 215 t/h each, a storage tank battery (7 storage tanks with the capacity from 200 to 22500 m3), Phase II	The Customer - Athena S.A., Greece	2006-2007
Severnaya CHPP (CHPP- 27), Moscow, Russia	Installation of a combined-cycle power plant 450 MW with two gas turbines with the capacity of 160 MW each and a steam turbine T-125/150-7.2	The Customer – JSC Mosenergo, Russia	2006-2007
Friguia CHPP, Guinea	Repair of boilers No. 1, 4 and 5	The Customer – JSC RUSAL, Russia	2007
CHPP-21, Moscow, the Russian Federation	Installation of 2 gas turbines GTE-160, pipelines, auxiliary equipment	The Customer – JSC Mosenergo, Russia	2007-2008
CHPP-27, Moscow, the	Installation of 2 gas turbines GTE-160,	The Customer – JSC	2008

Russian Federation	pipelines, auxiliary equipment	Mosenergo, Russia	
Diesel Generator Station, Chios Island, Greece	Installation of diesel generator plant 14.476 MW. Unit No. 4	The Customer – DOOSAN Engine Co. LTD, Korea	2008-2009
Hellenic Petroleum S.A., Thessaloniki	Installation and pre-commissioning of 4 oil storage tanks with the capacity of 60000 cubic meters each	The Customer – Athena S.A., Greece	2009-2010
Voronezh CHPP-2, Russia	CHPP reconstruction, including installation of 2 waste heat boilers KUP-75-3.9-440 (JSC Ukrenergochermet), a steam turbine PT 25/34-3.4/1.2 (JSC KTZ), two gas turbines LM600PD (GE), LP and HP pipelines, auxiliary equipment	The Customer – JSC Energokaskad, Russia	2009-2010
CHPP Agios Nikolaos, Greece	Installation of a waste heat boiler with the capacity of 440 MW, pipelines	The Customer – Metka S.A., Greece	2009-2010
Kaliningrad CHPP-2, the Russian Federation	Phase II. Installation of 2 gas turbines GTE-160 of Unit No.2	The Customer – JSC Technopromexport, Russia	2009-2010
Yaroslavl Carbon Black Plant, the Russian Federation	Installation of a steam turbine with the capacity of 12 MW (JSC KTZ)	The Customer – JSC Energobalt	2009-2010
Agios Theodoris CHPP-2, Greece	Installation of a combined-cycle plant unit 440 MW	The Customer – Metka S.A., Greece	2009-2011
OJSC Novolipetsk Steel, Russia	CHPP reconstruction: installation of 3 boilers E-220-9.8-540GD, 3 steam turbines PT-40/50-8.8/1.3 (by KTZ), auxiliary equipment, pipelines	Contractor General – PCC Soyuz, the Russian Federation	2009-2011

Lithuanian SDPP, Lithuania	Installation of a Gas turbine 9FB (GE) and auxiliary equipment, turbine pipelines, a generator (GE) and a steam turbine 109D-12 (GE)	Contractor General - JSC ALVORA, Lithuania	2010–2012
Novomoskovsk Power Station, Russia	Installation of a combined cycle plant - 190 MW, including a waste heat boiler, a steam turbine T-50/60-7.5/0.12 (KTZ), auxiliary equipment, pipelines	Contractor General – JSC Energokaskad, the Russian Federation	2010–2013
Urengoy Power Station, Russia	Installation of 2 gas turbines GTE -160 (LMZ, Russia) in the combined-cycle plant unit 450 MW	Contractor General – JSC Technopromexport, the Russian Federation	2010–2013
Deir Ali Power Plant, Syria	701 MW CCGT Unit installation	The Customer - METKA S.A., Greece	2010–2013
Nizhnevartovsk SDPP, Russia	300 MW gas turbine PG 9351FA installation	The Customer - JSC Technopromexport, the Russian Federation	2012–2014
Moscow CHPP-16, Moscow	Combined-cycle plant 420-T installation, including: 1 steam turbine SST-5000, 1 gas turbine SGT-4000F (Siemens)	The Customer – JSC Mosenergo, Russia	2012-2014

Current Projects in the Republic of Belarus		
JSC Naftan	Construction of hydrogen production unit at JSC Naftan	2012 - present
JSC Mozyr Oil Refinery	Off-site utilities of combining unit for production of high-octane gasoline elements. Ties-in into the existing pipelines. Route No.120-III; No. 26; No.10	2012 - present
JSC Mozyr Oil Refinery	Off-site utilities of combining unit for production of high-octane gasoline elements. DBS No.7 tit.49/9.	2013 - present



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	Recycling water supply unit No.7 tit.72/7-1; tit.72/7-2. Inert gas vessels tit.9/20-5.	
JSC Mozyr Oil Refinery	Off-site utilities of combining unit for production of high-octane gasoline elements. Park of high-octane gasoline elements tit.9/20-1 with pumping station tit. 9/20-2.	2013 - present
JSC Mozyr Oil Refinery	Park of high-octane gasoline elements. Drain tank units. JSC Mozyr Oil Refinery	2013 - present
JSC Gomeltransneft Druzhba	Main oil pipelines. Modernization of LODS Mozyr tank battery. Installation of tanks No. 11 and No.12 V=50000 cubic meters.	2014 - present
JSC Atomstroyexport	Belarus NPP Power Units No.1 and No.2. Main construction phase. Turnkey project of Startup and standby Boiler.	2014 - present
JSC Atomstroyexport	Belarus NPP Power Units No.1 and No.2. Main construction phase. Turbine unit (10UMA). Power and heat supply unit (10UNC). Construction and installation works.	2015
LLC Kronochem	Resin Manufacturing plant. Installation of storage tanks of V=305 cubic meters. Mogilev City	2015
JSC Naftan	Construction of natural-gas feed pipeline to hydrogen production unit No.2 (General contractor)	2015
Brest CHPP	Replacement of boiler units No.1 and No.2. Installation of auxiliary equipment, process pipelines	2015

Current Projects Abroad			
Moscow CHPP-20, Russia	Installation of CCGT Unit 420-T consisting of: 1 steam turbine SST-5000, 1 gas turbine SGT-4000F (Siemens)	The Customer – JSC TEK-Mosenergo, the Russian Federation	2012 – present
JSC Yaroslavl Carbon Black Plant	Installation of equipment and a 8 MW turbine generator	The Customer – CJSC Energobalt-M, the Russian Federation	2015