



TERAWATT GROUP

The Art of Engineering

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PROJECT Reference List

2007 - 2020



TeraWatt Group offers comprehensive electric&automation engineering solutions, which ensure, support and enhance our customers' ideas, processes and technologies.

TeraWatt Group companies and locations:



AZOV CONTROLS
TeraWatt Group



Recognised System Integrator
A ROCKWELL AUTOMATION PARTNER



M TECHNOLOGY
TeraWatt Group



AUTOMATION
TeraWatt Group



Our business activities:

- electrical design: automation, instrumentation, motor control centres and power distribution;
- PLC/HMI/MES software development for the following automation platforms: Rockwell Automation, Schneider Electric, Siemens.
- manufacturing of control cabinets, MCC;
- commissioning;
- turn-key projects execution;
- supplementary services (training, technical support, etc.)



We deliver projects in these industries:



metallurgy



power generation



food & beverage



fast-moving consumer goods

Our expertise summary:

Our engineering staff:



30+ electrical design engineers;



20+ software and commissioning engineers.

We have delivered electric&automation design for the following processes	Accomplished (in progress*)
Blast furnace cooling system	7
Casting yard machines	5
Blast furnace cooling system heat removal monitoring and control	2
Sinter machine revamping	4 (2)
Steam boiler	3
Gas cleaning and aspiration units	3
Central control room	4
Turbine-driven blower	2
Coke machine	2

* - status dated February 2020

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Metallurgy

Year	Project name	End-user	Scope	Remarks
2019–... (in progress)	Sintering shop. Sintering machine #1.	PJSC “Zaporizhstal”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2019–... (in progress)	Sintering shop. Sintering machine #2, #3.	PJSC “Zaporizhstal”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2019–2020	Shamotte materials pressing shop. Dosing system for press PU5A #4.	PJSC “ZAPOROZH-OGNEUPOR”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2019–2020	Casting yard and stock house BF#2,4,5 gas cleaning unit.	PJSC “ILYICH IRON AND STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
2019–2020	Limestone calcining shop. Furnace #1,2 gas cleaning unit.	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	
			Instrumentation	
			Electrical design	
			Software	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2019–2020	Casting yard and stock house BF#3 gas cleaning unit.	PJSC “ILYICH IRON AND STEEL WORKS”	Engineering	Power distribution 6kV
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2019–2020	By-product recovery plant. Control system, MCC for gas blowing units. General contractor “Dalgakiran Compressor Ukraine” LLC	PJSC “DKHZ”	Engineering	Control system for MV drives
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2019–2020	By-product recovery plant. Control system, MCC for gas blowing units. General contractor “Dalgakiran Compressor Ukraine” LLC	PJSC “Zaporozhkoks”	Engineering	Control system for MV drives
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2019	Wet ball mill	CEMTEC Cement and Mining Technology GmbH	Engineering	
			Software	
2019	Top charging unit	Paul Wurth, a.s.	Engineering	
			Instrumentation	
			Electrical design	
2019	Continuous casting machine #3, installation of the 5th zone of the secondary cooling system.	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	
			Software	
			Commissioning	
2019	Upgrade of the blast furnace #3 raw materials accounting system	PJSC “DMZ”	Engineering	
			Software	
			Commissioning	
2019	Sinter machine #1 gas cleaning unit and sinter machines #1-6 aspiration units revamping. General contractor LTD “Berdichev Machine Building Plant “Progress”.	PJSC “Zaporizhstal”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Cabinets/equipment supplying	
			Commissioning	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2018–2019	Coke battery stamping, charging, pushing machines. General contractor KUETTNER HuDe GmbH.	JSW Steel Ltd	Commissioning	
2018–2019	Rolling mill shop, ball mills #1, #2 control system revamping.	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	Central Control room design
			Instrumentation	
			Electrical design	
			Software	
2018–2019	Gases distribution department monitoring system and central dispatch room.	PJSC “Zaporizhstal”	Engineering	Central control room design
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
2018–2019	BF#2. Cooling system upgrade via replacement and enhance of 2 additional rows of cooling staves.	PJSC “Zaporizhstal”	Commissioning	
			Engineering	
			Instrumentation	
			Electrical design	
			Cabinets/equipment supplying	
2018–2019	Coke battery stamping, charging, pushing machines. General contractor KUETTNER HuDe GmbH.	TATA STEEL LIMITED KALINGANAGAR	Commissioning	
			Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
2018–2019	Slabbing mill 1150 control system revamping	PJSC “Zaporizhstal”	Illumination	
			Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2018–2019	Foundry shop, sand preparation area. Molding sand mixture preparation.	Metinvest-Mariupol Machining and Repair Plant, LLC	Engineering	Revamping of obsolete electrical equipment.
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2018	BF#9 cooling system stave rows #1-4 replacement, new pump station implementation	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
2018	Sinter shop. Sinter machines #4,5,6 automatic mode implementation.	PJSC “Zaporizhstal”	Engineering	Process parameters improvement.
			Software	
			Commissioning	
2018–2020	Coke battery #35 stamping machine implementation. General contractor KUETTNER HuDe GmbH.	“Altai Koks”, JSC	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Commissioning	
2017–2018	BF #9 cooling system heat removal monitoring and control	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
2017–2018	BF #1M cooling system heat removal monitoring and control	PJSC “Dneprovsky Integrated Iron&Steel Works”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2017–2018	BF#4 cooling system revamping with the implementation of closed water cycle and water-air heat exchangers.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2017–2018	BF#5 cooling system revamping with the implementation of closed water cycle and water-water heat exchangers.	PJSC “Zaporizhstal”	Engineering	Pump house condition monitoring.
			Instrumentation	
			Electrical design	
			MCC	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Commissioning	
2017–2018	Rail weighbridge revamping at BF shop #1, unit #3 (weighing of agglomerate screening, grey iron).	PJSC “ArcelorMittal Kryvyi Rih”	Engineering	Coordination with state railway company Ukrzaliznytsia.
			Instrumentation	
			Electrical design	
			Software	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2016–2017	Design and construction of the fire water pump house for Blast Furnace PCI unit.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2015–2017	BOF shop gas cleaning unit design and construction. General contractors: “PSK Kharkov” LLC, “Lengipromet-Dnepr” LLC	PJSC “DMZ”	Engineering	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Commissioning	

Mettalurgy

Year	Project name	End-user	Scope	Remarks
2017	BOF shop. Crushing plant aspiration unit revamping.	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
2017	Coke plant, desulphurisation unit. Revamping of the obsolete vacuum-compressors #1,2,3,4 control system.	PJSC "ArcelorMittal Kryvyi Rih"	Engineering	
			Software	
			Commissioning	
2016–2017	BF#3 revamping. New cooling system, pump house, central control room design and construction.	PJSC "Zaporizhstal"	Engineering	Central control room design. Pump house condition monitoring. Development of the electric & automation standard for all the suppliers.
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
2016	Sinter shop. New central control room concept development, design, supplying, construction and commissioning.	PJSC "Zaporizhstal"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
2016	BF#5 cooling system revamping with the implementation of closed water cycle.	PJSC "YENAKIIEVE IRON AND STEEL WORKS"	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Illumination	
2016	Water treatment cycle. Eastern sewer revamping. General contractors: "PSK Kharkov" LLC.	PJSC "DMZ"	Engineering	
			Instrumentation	
			Electrical design	
			Software	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2016	BF#4 cooling system revamping with the implementation of closed water cycle, installation of 3 cooling stove rows. Phase 3.	PJSC "Zaporizhstal"	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Illumination	
			Cabinets/equipment supplying	
			Commissioning	
2015–2016	BF#4 cooling system revamping with the implementation of closed water cycle.	PJSC "ILYICH IRON AND STEEL WORKS"	Engineering	Pump house condition monitoring.
			Instrumentation	
			Electrical design	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2015	BF#9 overhaul and revamping concept development. General contractor Paul Wurth, a.s.	PJSC "ArcelorMittal Kryvyi Rih"	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
2015	BF#9, Hot Blast Stove #2 revamping. General contractor Paul Wurth, a.s.	PJSC "ArcelorMittal Kryvyi Rih"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2015	BF#4 cooling system revamping with the implementation of closed water cycle. Phase #2.	PJSC "Zaporizhstal"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2015	BF#6 casting yard machines. General contractor PJSC "DHM GROUP".	PJSC "ArcelorMittal Kryvyi Rih"	Commissioning	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2014–2015	BF#2 cooling system revamping with the implementation of closed water cycle.	PJSC “Zaporizhstal”	Engineering	Pump house condition monitoring.
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Illumination	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2014	BF#4 cooling system revamping with the implementation of closed water cycle. Phase #1.	PJSC “Zaporizhstal”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2014	BF#1 cooling system revamping, central control room design and construction.	PJSC “Alchevsk Iron & Steel Works”	Engineering	Central control room design.
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Installation/erection	
2014	BF shop process parameters archive & analytics system.	PJSC “DMZ”	Engineering	
			Software	
			Commissioning	
2014	PCI unit for BF#1, BF#8, BF#9, BF#12.	PJSC “Dneprovsky Integrated Iron&Steel Works”	Cabinets/equipment supplying	
2014	BF#4 casting yard machines revamping. General contractor JSC “NKMZ”.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2014	BF#4 revamping.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Cabinets/equipment supplying	
			Commissioning	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2012	BF#1 casting yard machines revamping.	PJSC "Alchevsk Iron & Steel Works"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2012	BF#4. Blast furnace gas optimal combustion at hot blast stoves.	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	
			Software	
			Commissioning	
2012	BF#4 casting yard aspiration unit.	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2012	BF#4 control system revamping.	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	Development of the electric & automation standard for all the suppliers.
			Instrumentation	
			Electrical design	
			Software	
			MCC	
2012	BF#2 control system upgrade.	PJSC "DMZ"	Engineering	
			Software	
2012	Blast furnace shop raw materials accounting system (based on scale cars).	PJSC "DMZ"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2011	BOF shop process parameters archive.	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	
			Instrumentation	
			Electrical design	
			Cabinets/equipment supplying	
2011	Blast furnace raw materials accounting system (based on scale cars).	PJSC "Alchevsk Iron & Steel Works"	Engineering	
			Instrumentation	
			Electrical design	
			Cabinets/equipment supplying	

Metallurgy

Year	Project name	End-user	Scope	Remarks
2010	BF#6 casting yard machines. General contractor PJSC "DHM GROUP".	PJSC "ArcelorMittal Kryvyi Rih"	Engineering	
			Instrumentation	
			Electrical design	
			MCC	
			Cabinets/equipment supplying	
2010	Grinding mill MP-800.	PJSC "SEVGOK"	Commissioning	
2010	Blast furnace casting yard machines. General contractor PJSC "DHM GROUP".	PJSC "TULACHERMET"	Engineering	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2010–2009	BF shop control system diagnostics and process parameters archive.	PJSC "DMZ"	Engineering	
			Software	
			Commissioning	
2009	Snap-flask molding machine.	"DNEPROPROMLIT" LLC	Engineering	
			Software	
			Commissioning	
2009	Rolling mill.	"Interpipe Niko Tube" LLC	Engineering	
			Software	
			Commissioning	
2009	Blast furnace casting yard machines. General contractor PJSC "DHM GROUP".	JSC "KOSAYA GORA IRON WORKS"	Engineering	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2008	Galvanizing line process parameters archive and analytics system.	"MODULE-UKRAINE" LLC	Engineering	
			Software	
			Commissioning	
2008	BF#2 casting yard machines	PJSC "AZOVSTAL IRON & STEEL WORKS"	Engineering	
			Instrumentation	
			Electrical design	
2007–2008	BF#2 revamping.	PJSC "DMZ"	Engineering	
			Software	
			Commissioning	
2007	Galvanizing line.	"MODULE-UKRAINE" LLC	Commissioning	
2007	Desulfurization shop.	PJSC "AVDIIVKA COKE"	Commissioning	
2007	BF#1 revamping.	PJSC "Alchevsk Iron & Steel Works"	Engineering	
			Software	
			Commissioning	

Power generation

Year	Project name	End-user	Scope	Remarks
2019–2020	Turbo-compressor #3 control system upgrade.	PJSC “Zaporizhstal”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2017–2019	Steam boiler #6 revamping.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
2017–2018	Nitrogen booster station #5 K500.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2017–2018	Power generation shop #2. Turbo-blower #10 control system upgrade.	PJSC “ArcelorMittal Kryvyi Rih”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2013	Power generation unit #3. MCC for pulverized coal feeder drives. General contractors: “Energopribor-Ukraine” LLC	PJSC “Centrenergo”, Vuhlehirsk TES	Cabinets/equipment supplying	
2013	Power generation unit #1,4. MCC for pulverized coal feeder drives. General contractors: “EMV-ENERGO” LLC	PJSC “Centrenergo”, Vuhlehirsk TES	Cabinets/equipment supplying	

Power generation

Year	Project name	End-user	Scope	Remarks
2011–2014	Steam boiler #5 construction.	PJSC “AZOVSTAL IRON & STEEL WORKS”	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Cabinets/equipment supplying	
			Commissioning	
2011	Power generation unit #1. Turbo-blower #3n. General contractor “Torgoviy dom Russia-Ukraine” LLC.	PJSC “ILYICH IRON AND STEEL WORKS”	Cabinets/equipment supplying	
2011	BOF shop nitrogen booster station. General contractor “Torgoviy dom Russia-Ukraine” LLC.	PJSC “ILYICH IRON AND STEEL WORKS”	Cabinets/equipment supplying	
2011	Power generation unit #1 General contractor “LVIVORGRES” LLC	PJSC “Dniproenergo” Zaporizka DRES	Cabinets/equipment supplying	
2011	Power generation unit #9 General contractor “LVIVORGRES” LLC	PJSC “Dniproenergo” Pridneprovskya DRES	Cabinets/equipment supplying	
2010	Power generation unit #7 General contractor “LVIVORGRES” LLC	PJSC “Zakhidenergo” Burshtyn TES	Cabinets/equipment supplying	

Fast-moving consumer goods

Year	Project name	End-user	Scope	Remarks
2013	Soap manufacturing shop. Control system for the machine CP2-MG002.	Procter & Gamble Manufacturing Ukraine	Engineering	
			Software	
			Cabinets/equipment supplying	
			Commissioning	
2012	Implementation of KPI system "Proficy".	Procter & Gamble Port Qasim	Engineering	
			Software	
2011	Washing powder packaging line relocation.	Procter & Gamble Manufacturing Ukraine	Commissioning	
2010	Implementation of KPI system "Proficy".	Procter & Gamble Manufacturing Ukraine	Commissioning	
2010	HVAC design and installation.	Procter & Gamble Tambrands Ukraine	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			MCC	
			Commissioning	
2009	Control system upgrade for the implementation of KPI system "Proficy" at the line "Ronchi".	Procter & Gamble Manufacturing Ukraine	Engineering	
			Software	
			Commissioning	
2009	Control system upgrade for the implementation of KPI system "Proficy" at lines ACMA #1, #2, #3.	Procter & Gamble Manufacturing Ukraine	Engineering	
			Software	
			Commissioning	



Pulp and paper

Year	Project name	End-user	Scope	Remarks
2019	Packing line control system upgrade with PowerFlex 700s.	PJSC "RKF"	Commissioning	
2014	Packing line upgrade by changing MPL servo drives.	"Grande Affiche" LLC	Commissioning	
2009–2010	Packing line control system upgrade with PowerFlex 700s.	PJSC "RKF"	Commissioning	
2009	Cardboard tube preparation machine software upgrade.	PJSC "Rubezhnoye Cardboard and Packaging Mill"	Engineering	
			Software	
			Commissioning	
2009	Packing line upgrade by changing DRS-1 servo drive.	PJSC "Rubezhnoye Cardboard and Packaging Mill"	Engineering	Programming of obsolete Allen Bradley servo modules
			Software	
			Commissioning	



Food and beverage

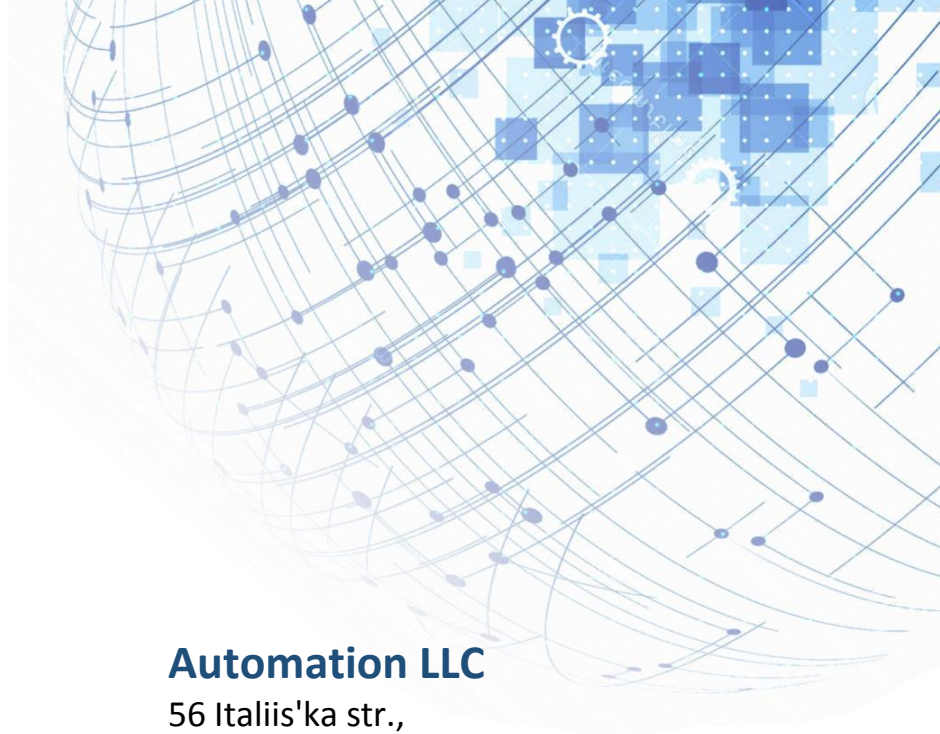
Year	Project name	End-user	Scope	Remarks
2018	Chocolate production line revamping.	PJSC "Mondelez Ukraina"	Engineering	Upgrade of obsolete servo drives.
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2014	Heating of HFSS tank.	PJSC "Kharkiv biscuit factory"	Engineering	
			Instrumentation	
			Electrical design	
			Software	
			Cabinets/equipment supplying	
			Installation/erection	
			Commissioning	
2013	CIP washing line	PJSC "Poltavpivo"	Commissioning	
2011	Poultry farm control system upgrade.	"Ovostar" LLC	Engineering	
			Software	
			Commissioning	
2009	HMI system upgrade.	"Kononovsky elevator" LLC	Commissioning	
2009	Bakery wares baking line.	PJSC «Khleb»	Commissioning	
2009	Dosing unit RVF-50.	PJSC "Landgut broiler"	Engineering	
			Software	
			Commissioning	
2008	Air compressor control system.	PJSC "KONTI"	Commissioning	
2006	Cookies baking line.	"Mariupolskaya Konditerskaya Fabrika" LLC	Cabinets/equipment supplying	
			Commissioning	



Automotive

Year	Project name	End-user	Scope	Remarks
2015	Car frame manufacturing line.	PJSC "AutoKrAZ"	Cabinets/equipment supplying	
2015	Rolling-and-bending machine AMADA.	PJSC "AutoKrAZ"	Commissioning	
2013	Car painting shop.	"Peugeot Citroen Rus" LLC	Commissioning	
2008	Mechanical treatment line LK003.	PJSC "AutoKrAZ"	Commissioning	





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