

DETAILED PROJECT REFERENCE LIST

June 2019



GENERAL INFORMATION			BUSINESS INFORMATION					SEARCH CRITERIA / KEY WORDS			
Project name	Facility/Plant/Site	Description	Client / Partner	End Client	Country	Year	Status	Technical Information	Products & Systems	Industries	Services
Adjustment of turbine regulation system for HE Perucica	HE Perucica	Adjustment of turbine regulation system for HE Perucica	Montenegrin Electric Enterprise AD (EPCG)	Montenegrin Electric Enterprise AD (EPCG)	Montenegro	2019	Ongoing	307 MW	/	Power Generation	Testing and commissioning
Revitalization of the insulation system. Transformer T3 220/110 kV, 125 MVA in TS Pljevlja 2	TS Pljevlja 2, T3 220/110 kV, 125 MVA	Revitalization of the insulation system	Montenegro Transco	Montenegro Transco	Montenegro	2019	Ongoing	220/110 kV	ATOCTN-125000/220/110-76VI	Poewr Generation/ Transmission	Revitalisation, Audit, consulting, design, testing and commissioning
Upgrade of MicroSCADA	ELEKTROPRENOS BiH	Performing upgrade of MicroSCADA in Distribution center of TRANSCO BiH	Elektroprenos BiH	Elektroprenos BiH	BiH	2019	Ongoing	110/35/10	ABB MicroSCADA	Transmission	Testing and commissioning
Special testing of Power transformers	Mornaguia Power Plant (Tunisa)	Performing Special transformer testing in Mornaguia Power Plant (Tunisa)	Prointegris	Ansaldo Energia	Tunisia	2019	Completed	400 kV	ABB	Poewr Generation/ Transmission	Audit, consulting, design, testing and commissioning
Performing Preventive maintenance for Protection Relays in Smelter Substations	Ma'aden Smelter	Performing Preventive maintenance for Protection Relays in Smelter Substations	Ma'aden Smelter	Ma'aden Smelter	KSA	2019	Ongoing	0,4/6/33(132/245 kV	Schneider Electric/ABB/Siemens/SEL	Aluminium Industry	Audit, consulting, design, testing and commissioning
Performing Harmonic Measurements	Ma'aden Smelter	Performing Harmonic Measurements	Ma'aden Smelter	Ma'aden Smelter	KSA	2019	Completed	0,4/6/33(132/245 kV	Schneider Electric/ABB/Siemens/SEL	Aluminium Industry	Audit, consulting, design, testing and commissioning
Integration of IS Limiter Alarm Signals to SCADA Network for Ma'aden Aluminum Company (MA) on the IS Limiter project	Ma'aden Smelter	Integration of IS Limiter Alarm Signals to SCADA Network for Ma'aden Aluminum Company (MA) on the IS Limiter project	HATCH	Ma'aden Smelter	KSA	2019	Completed	0,4/6/33(132/245 kV	Schneider Electric/ABB/Siemens/SEL	Aluminium Industry	Audit, consulting, design, testing and commissioning
Performing energy audit in factory	Mann + Hummel filter factory	Performing energy audit, consulting, design, testing and commissioning	MANN +HUMMEL	MANN +HUMMEL	BiH	2019	Completed	0,4/6 kV	Schneider Electric	Filter Factory	Audit, consulting, design, testing and commissioning
Testing and commissioning of the MV system	Ship	Testing and commissioning of the MV system	SIJA	Saipem / ABB Italy	HOLLAND	2019	Completed	0,4/6 kV	ABB	Ship	Audit, consulting, design, testing and commissioning
New installation at Arabian Factory in Egypt -Cairo	ALBRECHT BÄUMER GmbH & Co. KG	Performing testing, commissioning, installation at Arabian Factory in Egypt -Cairo	ALBRECHT BÄUMER GmbH & Co. KG	ALBRECHT BÄUMER GmbH & Co. KG	Egypt	2019	Completed	0,4/6 kV	ALBRECHT BÄUMER GmbH & Co. KG	Factory	Installation, testing and commissioning
Improving Plant performance in mHPP Podjezera	mHPP Podjezera	Audit, consulting, design, testing and commissioning of the mHPP systems	Eko Energy	Eko Energy	BiH	2019	Ongoing	0,4/6 kV		Power Generation	Audit, consulting, design, testing and commissioning
Improving Plant performance in mHPP Vares	mHPP Vares	Audit, consulting, design, testing and commissioning of the mHPP systems	Eko Energy	Eko Energy	BiH	2019	Ongoing	0,4/6 kV		Power Generation	Audit, consulting, design, testing and commissioning
Improving Plant performance in mHPP Pepeljari	mHPP PEPELJARI	Audit, consulting, design, testing and commissioning of the mHPP systems	EMY	EMY	BiH	2019	Completed	0,4/6 kV	WOODWARD EASYGEN 2300	Power Generation	Audit, consulting, design, testing and commissioning
Audit of 245 kV GIS in HPP Rama	HPP Rama	Acomplete audit of GIS 245 kV	JP Elektroprivreda BiH	JP Elektroprivreda BiH	BiH	2019	Ongoing	245 kV	Siemens	Power T&D	Audit, consulting, testing
CDE - Ellevio TP Bromma	Ellevio TP Bromma	Testing and commissioning of the SS systems	CDE	/	Sweeden	2019	Completed	110 / 33kV	General Electric, Koncar	Power T&D	Testing and Commissioning od Protection Systems
Lagos, site Dangote/Saipem	Lagos, site Dangote/Saipem	Testing and commissioning of the MV system	SIJA	Tozzi	Nigeria	2019	Completed	6 / 33 kV	ABB	Fertilizer Factory	Testing and Commissioning od Protection Systems
KAMBURU HPS, REHABILITATION WORKS	Kamburu HPS	Hot test on Generator UNIT 2 , Kamburu HPS	Prointegris	Koncar Ket	Kenya	2019	Completed	11 kV / 132 kV	General Electric, Koncar	Power Generation	Hot test on Generator UNIT 2
HPP KATO PROESPERA I HPP PROESPERA	HPP KATO PROESPERA I HPP PROESPERA	Testing and commissioning of the generator protection system	Prointegris	/	Greece	2019	Completed	6 kV	Siemens, ABB	Power Generation	Testing and Commissioning od Protection Systems
Instalation Molitas Slowakia	Molitas Spol.s.r.o	Industrial Automation	ALBRECHT BÄUMER GmbH & Co. KG	Molitas Spol.s.r.o	Slovakia	2018	Completed	/		Industrial Automation	Instalation, Testing and Commissioning
SOHAR power plant	SOHAR power plant	Testing and commissioning of the generator protection system in the SOHAR plant	Prointegris	Ansaldo	Oman	2018	Completed	12/400 kV	ABB	Power Generation	Testing and Commissioning
Zenon-Yokogawa SCADA Dammam	Zenon-Yokogawa SCADA Dammam	Laboratory signal testing between Zenon and Yokogawa SCADA system	Prointegris	/	Saudi Arabia	2018	Completed		SCADA and Protection		SCADA and Protection
BONNY RIVER Project	BONNY RIVER Project , Guangzhou- China	Testing and Commissioning of MV protections systems	Prointegris	Imesa S.P.A.	China	2018	Completed	6,6 kV	Testing and Commissioning	Power T&D	Testing and Commissioning
Ibri Independent Power Project, Gas-fired combined-cycle power plant	CCGT 1,509 MW,OMAN	Testing and Commissioning of primary and secondary systems in CCGT 1,509MW,OMAN	Prointegris	Bilfinger Rotring Engineering	Oman	2018	Completed	1,509 MW	Testing and Commissioning	Power Generation	Testing and Commissioning
AMMONIA & UREA FERTILIZER PROJECT, ASWAN - EGYPT	AMMONIA & UREA FERTILIZER PROJECT, ASWAN - EGYPT	Testing and Commissioning of MV Switchgear	Prointegris	Ansaldo	Egypt	2018	Completed		Testing and Commissioning	Power T&D	Testing and Commissioning

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GPP 220 kV GIS, Kairo, Egypt	GPP 220 kV GIS, Kairo, Egypt	Testing and Commissioning of primary and secondary systems in Gas Power Plant 6 th October, Egypt	Prointegris	Ansaldo	Egypt	2018	Completed	220 kV GIS	Testing and Commissioning	Power Generation	Testing and Commissioning
AL RAJEF WIND FARM POWER PLANT (82 MW)	AL RAJEF WIND FARM POWER PLANT (82 MW)	Testing and Commissioning of secondary systems, AL RAJEF WIND FARM POWER PLANT (82 MW)	Ingeteam	Alcazar Energy	Jordan	2018	Completed	82 MW	Testing and Commissioning	Power Generation	Testing and Commissioning
CCPP 450 MW, 15/500 kV Grati, Indonesia	CCPP in Grati, Indonesia	Commissioning and erection of primary and secondary systems in CCPP in Grati, Indonesia, 2x220 MVA, 450 MW	Prointegris	Ansaldo	Indonesia	2018	Completed	2x220 MVA, 450 MW	Testing and Commissioning	Power Generation	Testing and Commissioning
Overhaul of Power Transformer 137 MVA, SS Kakanj	Thermal Power Plant 450MW	Overhaul of Power Transformer 137 MVA	JP Elektroprivreda BiH	JP Elektroprivreda BiH	BiH	2018	Completed	132 kV	Overhaul, Testing and Commissioning	Power Generation	Testing and Commissioning
GPP West Damietta	Gas Power Plant in West Damietta, Egypt	Testing and Commissioning of primary and secondary systems in Gas Power Plant West Damietta, Egypt	Prointegris	Ansaldo	Egypt	2018	Completed	325 MVA	Testing and Commissioning	Power Generation	Testing and Commissioning
SS Tanzania	Substation 132 kV Tanzania	Construction of OHL inf substation 110/35/10 kV Mostar 9	Prointegris	Saet s.p.a	Tanzania	2018	Completed	132 kV	Primary and secondary equipment, SCADA	Power T&D	Testing and Commissioning
GPP Kamojang	Geothermal Power Plant Kamojang, Indonesia	Testing and Commissioning of primary and secondary systems, erection in Geothermal Power Plant Kamojang, Indonesia	Prointegris	Ansaldo	Indonesia	2018	Completed	30 MW	Testing and Commissioning	Power Generation	Testing and Commissioning
SS Mostar 9	Substation 110/35/10(20)kV Mostar 9	Construction of OHL inf substation 110/35/10 kV Mostar 9	Elektroprenos BiH	Elektroprenos BiH	BiH	2018	Completed	110 kV	Primary and secondary equipment, SCADA	Power T&D	Turn - Key
HPP Grabovica	Hydro Power Plant Grabovica	Testing and Commissioning of secondary systems in Hydro Power Plant Grabovica	Elcom d.o.o.	JP Elektroprivreda BiH	BiH	2018	Completed	220 kV	SCADA and Protection	Power T&D	Testing and Commissioning
GPP Batna	Gas Power Plant in Batna, Algeria	Testing and Commissioning of Gas Power Plant in Batna, Algeria	Prointegris	Ansaldo	Algeria	2018	Completed		BEN6000	Power Generation	Testing and Commissioning
SS Zestafoni - Georgia	Substation 220/110 kV	Testing and Commissioning of SS Kutaisi 220/110 kV, SS Kaltubo 220/110 kV and SS Zestafoni - Georgia	Prointegris	Elektroprenos BiH	Georgia	2018	Completed	220 kV	Primary and secondary equipment, SCADA	Power T&D	Testing and Commissioning
SS Zepce	Substation 110/35/10(20)kV	Reconstruction of substation 110/35/10 kV Žepče	Elektroprenos BiH	Elektroprenos BiH	BiH	2018	Completed	110 kV	Primary and secondary equipment, SCADA	Power T&D	Turn - Key
SS Pazaric	Substation 110/35/10(20)kV	Reconstruction of substation 110/35/10 kV Pazaric and reconstruction of the transmission line 2x110 kV for SS Pazaric	Elektroprenos BiH	Elektroprenos BiH	BiH	2018	Completed	110 kV	Primary and secondary equipment, SCADA	Power T&D	Turn - Key
CEB Mauritius	Substation 66kV	Testing and Commissioning of 66kV GIS. Testing and commissioning of power transformer and diesel genset	Prointegris/Siemens Danmark/BWSC	CEB Mauritius	Mauritius	2017	Completed	66kV	Power Transformer, Diesel Generator, GIS, Power protection and control, secondary systems	Power T&D	Testing and Commissioning
Root Cause Analysis of Circuit Breaker Flashover	Substation 220kV	Root Cause Analysis of 220kV Circuit Breaker Flashover including detail investigation in the Highvoltage Laboratory in France.	Ma'aden Aluminum	Ma'aden Aluminum	Saudi Arabia	2017	Completed	220kV	Circuit Breaker, GIS	Mining Industry, Power T&D	Consulting
Hadeed Iron and Steel	Iron and Steel Plant	Upgrade of SCADA System - SICAM PAS, SIPROTEC 5	Siemens Saudi Arabia	Hadeed Iron and Steel Company	Saudi Arabia	2017	Completed	13.8kV, 34.5kV and 380kV	SCADA and Protection	+966 55 682 7072	Installation and Commissioning
SAS Ma'aden	Ma'aden, Aluminium Smelter	Complete design, supply and commissioning of new SCADA control center for Aluminium Smelter in Ma'aden Aluminium	Ma'aden Aluminum	Ma'aden Aluminium	Saudi Arabia	2017	Completed	13.8kV, 34.5kV and 220kV	SCADA and Protection	Mining Industry, Power T&D	Supply, Installation, Design and Commissioning
SS Hadzici	Substation 110/10/10(20)kV	Detail design of protection and Control panels for 110kV, 10kV and 20kV protection and control cubicles;	Elektroprenos BiH	Elektroprenos BiH	BiH	2017	Completed	35 kV, 220 kV	Power protection and control, secondary systems	Power T&D	Commissioning, Refurbishment, Design Services
Poliklinika "Dr. Al-Tawil"	Private Healthcare company	Complete electric, Local area network, phone network and fire	Poliklinika "Dr. Al-Tawil"	Poliklinika "Dr. Al-Tawil"	BiH	2016	Completed	0.4kV	Electric Installation, LAN, phone network and fire protection systems	Healthcare	Supply, Installation, Design and Commissioning
SS Konjic	Substation 110/10/10(20)kV	Detail design of protection and Control panels for 110kV, 35kV protection and control cubicles;	Elektroprenos BiH	Elektroprenos BiH	BiH	2016	Completed	35 kV, 220 kV	Power protection and control, secondary systems	Power T&D	Commissioning, Refurbishment, Design Services
SS Mostar 2	Substation 110/10/10(20)kV	Detail design of protection and Control panels for 110kV, 35kV protection and control cubicles;	Elektroprenos BiH	Elektroprenos BiH	BiH	2016	Completed	35 kV, 220 kV	Power protection and control, secondary systems	Power T&D	Commissioning, Refurbishment, Design Services
HPP Grabovica Maintenance 2015/I	Hydro Power Plant 2x64,5 MW	Maintenance and diagnostic testing of complete 220 kV switchyard instrument transformers (CT's and VTs)		JP Elektroprivreda BiH	BiH	2015	Completed	220 kV	Instrument Transformers	Power Generation Hydro	Maintenance
FDC- Field Data Collection Saudi Arabia	National Transmission Network	Providing technical teams for field collection of protection relay parameterisation data and site surveys in excess of 60,000 relays and 700 substations of all voltage levels for the complete network of SEC- National Electric transmission Grid company of Saudi Arabia	IPS	SEC- National Grid Saudi Arabia	Saudi Arabia	2015 -	Completed	380 kV, 220 kV, 132 kV, 33 kV, 13,8 kV	Asset Management SW solutions, Power protection and Control	Power Transmission and distribution	Field Services

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TPP Kakanj Maintenance 2015	Thermal Power Plant 450MW	Maintenance TPP Kakanj 220kV and 6kV Power protection system		JP Elektroprivreda BiH	BiH	2015	Completed	220 kV, 6 kV	Power Protection and Control	Power Generation	Maintenance
HPP Turkwell	Hydro Power Plant 2x58MW and Switchyard 220/11kV AIS switchyard - Refurbishment of secondary system	Commissioning of protection and Synchronization system including Measuring transformers: Equipment: ABB REG650, RET670, REU615, REU610, Synchrotact 5202	ABB SpA, ProIntegris	Kenya Electricity Generation Company- Kengen	Kenya	2015	Completed	11 kV, 220 kV	Power protection and Control, Measurement Taros	Power Generation-Hydropower plant	Commissioning, Refurbishment
SS Čitluk	Substation 110/10/10(20)kV	Detail design of protection and Control panels for 110kV, 35kV protection and control cubicles	Končar KET/Dalekovod	Elektroprenos BiH	BiH	2015	Completed	110 kV	Power protection and control, secondary systems	Power T&D	Design Services
SS Grbavica	Substation 110/10kV	Maintanace and diagnostic testing o surge arresters 110kV	Valter	Elektroprenos BiH	BiH	2015	Completed	110 kV	Primary equipment	Power T&D	Maintenance
SS Mostar 2	Substation 110kV	Turnkey solution for Substation Refurbishment including: Complete design Delivery and Primary Equipment for AIS Substation, Power transformer, MV switchgear and, Complete secondary system (protection / Control/SAS, Metering, Aux LV system. design and Commissionig.	JV Končar	Elektroprenos BiH	BiH	2015	Completed	110 kV	Turnkey substation	Power T&D	Power T&D
SS 110/35kV Konjic	Substation 110kV	Turnkey solution for Substation Refurbishment including: Complete design Delivery and Primary Equipment for AIS Substation, Power transformer, MV switchgear and, Complete secondary system (protection / Control/SAS, Metering, Aux LV system. Design and Commissionig.	JV with Koncar	Elektroprenos BiH	BiH	2015	Completed	110 kV	Turnkey substation /refurbishmet	Power T&D	Power T&D
SS Mostar 6	Substation 110kV	Design of protection and control and LCC panels for 110kV and 35 and 10kV	Energokontrol	Elektroprenos BiH	BiH	2015	Completed	110 kV, 20 kV, 10 kV	Power protection and control, Secondary systems	Power Transmission	Design Services
NE Bosnia SCADA refurbishment project	3x Substations 110/x/y kV	Point to point testing of upgraded MicroSCADA system in 3 110/x/y kV substations Srebrenica, SS Brčko 1, Bijeljina	ABB- Zagreb	Elektroprenos BiH	BiH	2015	Completed	110 kV	Power protection nd Control, SCADA	Power Transmission	Commissioning
SS Mostar 9	Substation 110/10kV	Design of protection and control and LCC panels for 110kV and 10kV	Končar/Dalekovod	Elektroprenos BiH	BiH	2015	Completed	110 kV, 10 kV	Power protection and control	Power Transmission	Design Services
GPP Labreg	Gas Power Plant 3x140,5 MW	Commissioning of Protection and synch system for Generator Protection, Commissioning of RTU and SAS systems> Siemens Siprotec 4< 7 UM62, 7UT61x, &SJ 611, 7VE 632, 7SD522, 7SJ624 Sicam PAS, 7VK ault recorder	ProIntegris, Simens SpA, Ansaldo Energia	Sonelgaz -SPE	Algeria	2014 - 2015	Completed	11,5 kV; 220kV	Power Protection, Substation automation systems	Power Generation	Commissioning
CPP North Giza	Combined Cycle Power Plant 1500 MW	Commissioning of Protection and Control System 3x340MW Steam power generator Units Equipment: GE UR Series G60 and F50 units. Synchronisation Siemens 7VE Siprotec units.	ProIntegris, SAET SpA/Asaldo	Cairo Electricity Production Company	Egypt	2015	Completed	15,7 kV	Power Protection, Generator Protection	Power Generation	Commissioning
mHE Modrac	Mini Hydropower plant Modrac 1x3,4 MW	Delivery of Power/mechanical turbine protection system and synchronisation system solution including, design, equipment delivery, commissioning, customer training for mHPP Modrac refurbishment project	JV with Elcom	JP Elektroprivreda BiH	BiH	2015	Completed	10 kV	Power protection	Power Generation-hydro	Solution, Equipment delivery, Design, Engineering, Commissionin
SS Touggurt Algeria	Substation 400/220 kV injector	Filed engineering and commissioning of substation automation system. Equipment: GE relays, Siemens Siprotec 4, GE power SCADA	SAET SpA/Metka	Sonelgaz- GRTE	Algeria	2015	Completed	400 kV, 220 kV	Substation automation, Protection adn Control, SCADA	Power Transmission	Software engineering, Commissioning
Ma'aden	Aluminium plant	Supply of spare parts for MV and LV systems	Ma'aden Aluminium	Ma'aden Aluminium	Saudi Arabia	2014 - 2015	Completed	various		Aluminium Smelter	Equipment supply
Bosnia 110kV loose delivery protection cubicles	Substations 110kV	Detail design of protection and Control panels for 110kV feeders for Elektroprenos BiH	ABB - Zagreb	Elektorprenos BiH	BiH	2015	Completed	110 kV	Design, Power protection and control	Power transmission	Design services
RTU Bihac	Distribution Network Control Centre, Substation 35/10/0.4 kV	Integration of 4 substations in DCU Bihac expansion of SCADA centre, installation of RTU units ABB RTU560 Equipment: 2x ABB RTU560, Ruggedcom switches, ABB SPA ZC400 Engineering and commissioning on ABB REF615, ABB REF541, ABB SPA ZC400, ABB RTU560	-	JP Elektroprivreda BiH	BiH	2015	Completed	35 kV, 10 kV	Power protection and control, SCADA	Power distribution	Solution, Equipment delivery, Design, Engineering, Commissionin
FAT Waad Al Shammal ABB CZ	FAT for 4x Substations	Factory testing of protection panels for Waad Al Shammal project, Saudi Arabia. Complete functional FAT function checks Equipment: ABB protection relays, Tapcon voltage regulators, Alstom MICOM (Agile) protection relays.	ProIntegris	ABB CZ	Czech Republic	2015	Completed	110 kV, 380 kV	Power Protection and Control, substation automation systems	Power Transmission and distribution	Engineering, Testing
SS Dangote Construction Cement	Substation 90/11 kV	Commissioning Remote control and HMI system Equipment: ABB RTU 560	P&T Italy, ProIntegris, ABB SpA, Corelec	Dangoto Cement Factory	Cameroon	2014	Completed	90 kV, 11 kV	Power Protection and Control	Cement Industry	Commissioning
HMI RTU Sarajevo	3x Substation 110/10 kV	Solution for operator HMI interface in 3x substations based on extension of existing RTU systems. Works included equipment/software supply, engineering, FAT and SAT tests. Equipment: ABB RTU560 and panels Protocols: IEC 104, IEC 101		JP EP BiH	BiH	2015	Completed	110 kV, 10 kV	Power Protection and Control, RTU, SCADA	Power Distribution	Engineering, Software engineering, Solutions, Commissiong, Equipment delivery
HPP Una Kostela	Hydropower Plant 6,5 MW, Hydropower Production Control Centre	Providing software solution for production management center under the jurisdiction of Distribution Network Control Centre Bihac, equipped with modern IT tools for monitoring and control (SCADA). Delivery of: Software, SCADA servers, operation stations, protocol converters from Modbus Plus/IEC-104, PSU, printers. SCADA Software: Končar Proza NET ver.3.1 Equipment: PLC controllers Schneider Modicon Quantum 140-140 CPU 113 02 CPU, Twido, ABB RTU 560 Software engineering, Installation FAT, Point to Point and	Končar Ket, Elcom d.o.o	JP EP BiH	BiH	2014 - 2015	Completed		Power protection and Control SCADA, RTU, Gateway, Industrial Networks, FO, LV installations	Power Generation	Solution, Equipment delivery, Engineering, Software engineering, Commissioning

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Ain Djasser 3 Batna	Substation 220kV	Technical site survey regarding refurbishment of Protection and Control system for 220kV Switchyard bays. Equipment: REX670, REU523, HV switchgear equipment	ProIntegris, Ansaldo Energia	ABB Energy Automation SpA	Algeria	2014	Completed	220 kV	Power protection and Control	Power Transmission	Field Engineering, technical consultancy
SS Bitola 2	Substation 400/110 kV	Commissioning and field engineering of protection and control system including Substation SCADA system. Equipment: Protection and control IEDs: ABB REC670, REB670, REL670, RED670, REF615, SAS: ABB Sys600 MicroSCADA pro 9.3 Ruggedcomm industrial network (RSG2100, RX1100) SACO 64D	ProIntegris, Dalekovod Zagreb	MEPSO Macedonia	Macedonia	2014	Completed	400 kV, 110 kV	SCADA, Power protection and Control	Power Transmission	Commissioning, Field Engineering
Transocean Artic	Oil Platform	Commissioning of 6kV switchgear D, protection and control system, Refurbishment, Old Genop 22s electromechanically relays. 7RE65, 7sj722, 7ud92. Generator protection.	ProIntegris, Siemens Oil and GAS EIS	Transocean	Norway	2014	Completed	6 kV	Power Protection and Control	Oil and Gas	Commissioning
Adrar	Mobile Substation 220/60/30kV	Commissioning of RTU units for 3 modular substations 220/60/30 2x40MVA Equipment ABB RTU560	ProIntegris, ABB SpA	Sonelgaz- GRTE	Algeria	2015	Completed	220 kV, 60 kV, 30 kV	Substation automation	Power Transmission	Commissioning
CENTRALE À CYCLE COMBINE DE SOUSSE C - Tunisia	Gas Power Plant 1x424 MW	Commissioning Protection, control and synchronisation system of 424 MW Generator Unit and SS 225 kV bays and medium voltage systems in the 6,6 kV block of the PP. Equipment: Siemens Siprotec 4 series protection relays, 7UM622 7UM622, 7SJ803, 7RW801, 7UT612, 7UT635, 7SJ804, 7UT612, 7SJ801, 7RW801, 7UM622, 7SJ803, 7UT613, 7VE611, SICAM PAS Signal checks to SCADA system through 61850 protocol network, Wet commissioning works, secondary injection of protection equipment, generator unit commissioning, protection panel commissioning, unit	ProIntegris, Siemens, Ansaldo	SOCIÉTÉ TUNISIENNE DE L'ELECTRICITÉ ET DU GAZ	Tunisia	2014	Completed	225 kV; 6,6 kV	Power Protection and Control, Generator, gas Turbine, Synchronisation	Power generation and transmission	Commissioning
SS Sedrata Sonelgaz	Substation 60/30 kV	Precommissioning and commissioning of protection/control system and switchgear SS 60/30kV Sedrata Equipment: ABB REX670 protection relays, REF542+ protection relays, Siemens Siprotec 4 protection relays, ABB primary equipment (CB, disconnectors, bus bars)	ProIntegris, ABB Suisse, EIP Portugal	Sonelgaz	Algeria	2014 - 2015	Completed	60 kV, 30 kV	Power Protection and Control, MV Switchgear	Power Transmission and distribution	Commissioning
PP Ain Djasser Sonelgaz	Gas Power Plant 130 MW	Commissioning Protection, control and synchronisation system of 130MW Generator Unit and SS 220kV bay extension and medium voltage systems in the block 4 of the PP. Equipment: Siemens Siprotec 4 series protection relays, Tapcon voltage regulator, ABB REX670 series protection	ProIntegris, ABB, Siemens, Ansaldo	Sonelgaz	Algeria	2014	Completed	6 kV, 7,2 kV, 110 kV, 220 kV	Power Protection and Control, Generator, gas Turbine, Synchronisation	Power generation and transmission	Commissioning
Omicron training 2014	Training Centre	Organisation Workshop: Advanced Training Course for Omicron CMC156 and Omicron CPC100 Test solutions for OMICRON Clients in Bosnia and Herzegovina.	Diveco Energo (Omicron BIH)	Various	BIH	2014	Completed	-	Power Protection and Control, Generator, light fuel Turbine, Synchronisation	Secondary and primary test equipment Omicron, Power protection and Control	Training
VISAKHAPATNAM STEEL PLANT	6.3 MTPA EXPANSION PROJECT	Engineering and Commissioning of Protection and Synchronisation system of generator. SAT testing for 1x16 MVA generator unit Equipment Protection and control IEDs:General Electric G60, Alstom MX3EG1A synchronizing relay	Paul Wurth, Luxemburg Pro Integris, Croatia	RASHTRYA ISPAT NIGAM Ltd, VISAKHAPATNAM STEEL PLANT	India	2014	Completed	6,3 kV	Power Protection and Control	Steel Industry, Power Generation	Commissioning
PP Forssa Reserve FINGRID OYJ	Light fuel oil reserve power plant, 15,75/110 kV , 2x159MW	Commissioning of Protection system power plant Engineering and Commissioning of Protection, Control and Synchronisation system SAT testing for 2x159 MW generator units Equipment Protection and control IEDs:General Electric G30 and F650, Siemens:7UM62 and 7VE63.	Ansaldo Energia Italy, SAET Italy, ProIntegris	FINGRID OYJ	Finland	2012	Completed	110 kV, 15,75 kV	Power Protection and Control, Generator, light fuel Turbine, Synchronisation	Power Generation	Software Engineering, Commissioning
DCU Mostar	Distribution Network Control Centre, Substations 110/x/y kV	Integration 3x 110/X substations to SCADA system on Distribution Network Centre - Mostar, BIH. Configuration of Siemens Sicam SAS substation controllers. Re Engineering of SCADA NE Lookout, signal tests and SAT.	-	JP Elektroprivreda BIH	BIH	2014	Completed	110 kV, 35 kV, 10 kV		Power Distribution	Software Engineering, Commissioning
DCU Zenica	Distribution Network Control Centre, MV substations	Complete refurbishment and extension of SCADA system Distribution Control Centre Zenica Distribution region including: Delivery of equipment SCADA server room and Software Upgrade of ABB MicroSCADA ver.8.45 to ver 9.3. Engineering of SCADA and Commissioning and Point to point signal tests. Configuration and commissioning of Siemens 5xRTU TM1703 and 1x ABB Com 600 units in Substations	Končar Ket	JP Elektroprivreda BIH	BIH	2014	Completed	110 kV, 35 kV, 20 kV, 10 kV, 0,4 kV	Power protection and Control SCADA, RTU, Gateway, Industrial Networks, FO, LV installations	Power Distribution	Delivery, Engineering, Commissioning, Solution
TPP Kakanj Maintenance 2014/II	Thermal Power Plant 450MW	Annual Maintenance TPP Kakanj 110kV Power protection system		JP Elektroprivreda BIH	BIH	2015	Completed	110 kV	Power Protection and Control	Power Generation	Maintenance
TPP Kakanj Maintenance 2014/I	Thermal Power Plant 450MW	Maintenance diagnostic testing of complete TPP Kakanj 110 kV switchyard instrument transformers	Energoinvest dd Sarajevo, EnergoBos	JP Elektroprivreda BIH - TPP	BIH	2014	Completed	110 kV		Power Generation	Maintenance
SS Ourhoud incident workshop - Milano	Substation 220/30 kV	Workshop for Forensic analysis of incident 30kV in SS Ourhoud	ABB PA SpA, ProIntegris	Anadarko, DNV	Italy, Algeira	2014	Completed	220 kV, 20 kV	Power Forensics	Oil and Gas	Consultancy
SS Ourhoud Survey	Substation 220/30 kV	Technical Site survey for damage assessment for SS Ourhoud 30kV Incident	ABB PA SpA, ProIntegris	EL Merk Project	Algeria	2014	Completed	220 kV, 35 kV	Power Forensics	Oil and Gas	Consultancy

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Project name	Facility/Plant/Site	Description	Client / Partner	End Client	Country	Year	Status	Technical Information	Products & Systems	Industries	Services
Southern Fields In Salah	Gas Compression project, Substation MV/ LV	Commissioning of 9 Substations 6/0.4 kV in REG and IS for In Salah Southern Fields compression project	Schneider Electric UK, Petrofac	In Salah Gas (JV Statoil, BP, Sonatrach)	Algeria	2014 -	Completed	6 kV; 0,4 kV	Power Protection and Control, MV Switchgear, LV, Switchgear, Power Transformers, Aux power Supply, Mobile Substations, Power Cables, LV Installations	Oil an Gas	Commissioning, Field Engineering
Bosnia MV Substation Refurbishment DCU Bihac	Substations MV Level (35/10kV and 3x 10/0,4 kV)	Design, installation and testing of primary equipment(Current measurement transformers, circuit breakers) Design, delivery, installation of protection relays ABB REF 615, RTU560 Configuration and commissioning of ABB REF615 and ABB RTU560 Design, delivery, installation and	Končar Ket	JP Elektroprivreda BiH DSO Bihac	BIH	2013 - 2014	Completed	35 kV, 10 kV, 0,4 kV	Power protection and control, substation automation, substation switchgear installation and testing	Power Distribution	Design, Engineering, Commissioning, Equipment delivery
Bosnia MV Substation Refurbishment DCU ZENICA	Substations MV Level (4x35/10kV and 2x 10(20)20kV)	Design, installation and testing of primary equipment(Current measurement transformers, circuit breakers) Design, delivery, installation of protection relays ABB REF 615 Configuration and commissioning of ABB REF615 and	Končar Ket	JP Elektroprivreda BiH DSO Zenica	BIH	2013 - 2014	Completed	35 kV, 20 kV, 10 kV; 0,4 kV	Power protection and control, substation automation	Power Distribution	Design, Engineering, Commissioning
HPP Mingichevir	Hydro Power Plant 420 MW	Commissioning of two new plant switchyards delivered by Alstom 330/220kV and 110 kV at HPP Mingichevir.	AZENCO, Alstom Grid	Azer Enerji	Azerbaijan	2013 - 2014	Completed	330 kV, 220 kV, 110 kV	Primary equipment, AC/DC system, Power Protection and Control, CT, VT, LV Switchgear, HV Switchgear, Transformers.	Power Generation, Power T/D	Commissioning, Field Engineering
Power taro Maintance HPP Grabovica 2014.	Hydro Power Plant 114 MW	Maintance testing of insulation characteristics of Step up Transformers and spare Bushings and giving mainance recommendations,	Deling d.o.o. Tuzla	JP Elektroprivreda BiH HPP	BIH	2014	Completed	10,5 kV; 242 kV	Power Transformers	Power Generation Hydro	Maintenance
HPP Jablanica	Hydro Power Plant 180 MW	Maintenance diagnostic testing of complete 110 kV switchyard instrument transformers	JP Elektroprivreda BiH, HPP Jablanica	JP Elektroprivreda BiH, HPP Jablanica	BIH	2013	Completed	110 kV	Instrument Transformers	Power Generation Hydro	Maintenance
Kharrir PP	Gas Power Plant 40 MW	Recommissioning of 6.6kV switchgear and assessment of power Protection Settings and Configuration files/ Site survey	Schneider Electric UK	Total	Yemen	2013	Completed		Power Protection and Control, MV Switchgear, Generator	Oil and Gas	Commissioning
Ma'aden LV Relays	Aluminium Smelter	Commissioning and configuration of control protection of 11 & 0,4 kV substation Larsen & Turbo Mcom relays configuration and motor protection testing	Sepam - Saudi Arabia	Ma'aden-Saudi Arabian Mining Company/BECHTEL Corporation	Saudi Arabia	2013	Completed	11kV; 0,4kV	Power Protection and Control, LV Switchgear	Aluminium Industry	Commissioning
Yanbo-Water	Water desalination Plant	Diagnostic and Testing of Generator and generator Protection unit ABB REG316	ABB SpA, ProIntegris		Saudi Arabia	2013	Completed			Power Generation, Water	Maintenance
Tuzla- RTU expansion project	Distribution Network Control Centre, Substation 35/10/0.4 kV	Integration of 2 substations in DCU Tuzla expansion of SCADA centre, installation of RTU units ABB RTU560 Equipment: 2x ABB RTU560, Ruggedcom switches, ABB SPA ZC400 Engineering and commissioning on ABB REF615, ABB REF541, ABB SPA ZC400, ABB RTU560	JP Elektroprivreda BiH	JP Elektroprivreda BiH	BIH	2013	Completed	35kV, 10kV	Power protection and control, SCADA	Power distribution	Solution, Equipment delivery, Design, Engineering, Commissioning
Sarajevo- RTU expansion Project	Substations 110/x/y	Integration of 3 substations into NCC SCADA using RTU. Including Design, Installation and commissioning of ABB RTU560.	Končar KET	JP Elektroprivreda BiH	BIH	2013	Completed	110 kV, 35 kV	Power protection and control, SCADA, RTU	Power distribution	Design, Engineering, Commissioning
Mekensh Sud	Substations 60/20 kV	Diagnostic and Maintenance Intervention Work regarding ABB RE_ 670 Series relays	ABB SpA, ProIntegris	Meridionale SpA	Maroko	2013	Completed		Power Protection and Control		Maintenance
Yanbu - Yasref Export Refinery project	Substations 380kV and 34,5 kV	Commissioning protection system in 380kV and 34,5 kV substations with installed Schneider Electric MICOM relay technology (P546/3, P433, P547, P634, P143, P141, P139, P126, P122, P120, P741, P743). SEL and ABB protection relays	SSEM-Saudi, Schneder Electric UK, Schneider Electric Canada Inc., Joint Engineering S.r.l Italy	YASREF Aramco/SSEM	Saudi Arabia	2013	Completed	380 kV, 35,5 kV	Power Protection and Control	Oil and Gas	Commissioning, Software engineering
SS Backhill UKPN	Substation S/S 132/33kV, 4x45 MVA Back Hill	Multicore cable connection design for replacement of 33kV Switchgear Equipment: 33kV Switchgear type WSB,Schneider Electric, 33kV Switchgear type NXplus DBB, Siemens,	Energoinvest Reach Active Ltd, London	UK Power Networks - UKPN	United Kingdom	2013	Completed	33 kV, 132 kV	Switchgear	Power Distribution	Engineering, Design
SS Finsbury Market UKPN	Substation S/S 132/33kV, 3 x 45 MVA Finsbury Market C	Multicore cable connection design for replacement of 33kV Switchgear Equipment: 33kV Switchgear type NXplus DBB, Siemens	Energoinvest Reach Active Ltd, London	UK Power Networks - UKPN	United Kingdom	2013	Completed	33 kV, 132 kV	Switchgear	Power Distribution	Engineering, Design
SS Kimberly Road UKPN	Substation S/S 22/11kV, 4x15 MVA Kimberley Road	Multicore cable connection design for replacement of 11kV Switchgear Equipment: 11kV Switchgear type NXplus DBB, Siemens	Energoinvest Reach Active Ltd, London	UK Power Networks - UKPN	United Kingdom	2013	Completed	11 kV, 22 kV	Switchgear	Power Distribution	Engineering, Design
SS Kilmarnock SPEN	Substation GSP 275/33kV, 2x110 MVA Kilmarnock Town	Interface design for replacement of 33kV Switchgears including Super Grid transformers SGT1 and SGT2 2x120MVA, AVC Control panel, Fault Recorder Panel, Multicore cable connections, Intertrip protection communication as protection design in adjacent 33kV Remote End substations Equipment: 33kV Switchgear type NXplus, Siemens, Intretrip relays type: GCM05, RFL 9745GD, 7SD522 Siemens	Energoinvest Reach Active Ltd, London	Scottish Power Energy SPEN Network	United Kingdom / Scotland	2013	Completed	33 kV, 275 kV	Switchgear, power protection and control	Power Distribution	Engineering, Design
SS Dumbarton SPEN	Substation 33/11kV, 2x24 MVA Dumbarton	Interface design for replacement of Power transformers 2x24 MVA including AVC Control panel, Transformer Relay panels and Multicore cable connections, Detail Design of Automatic voltage control panel for transformers 33/11kV 24MVA, Interface Design of existing Transformer Relay panel, Multicore cable connections design Equipment:AVC relay type MICROTAPP 7SG15, Siemens	Energoinvest Reach Active Ltd, London	Scottish Power Energy SPEN Network	United Kingdom / Scotland	2012	Completed	11 kV, 33 kV	Power Transformers, power protection and control	Power Distribution	Engineering, Design

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SS Wishaw SPEN	Substation GSP 275/33kV, 2x120 MVA Wishaw	Interface design for replacement of 33kV Switchgears including Super Grid transformers SGT6 and SGT7 2x120MVA, AVC Control panel, Fault Recorder Panel, Multicore cable connections, Intercrop protection communication as protection design in adjacent 33kV Remote End substations Equipment: 33kV Switchgear type NXplus Siemens, Intretrip relays type:GCM05, RFL 9745GD, 7SD522 Siemens, AVC relay type MICROTAPP 7SG15 Siemens, Fault recorder type tip	Energoinvest Reach Active Ltd, London	Scottish Power Energy SPEN Network	United Kingdom / Scotland	2013 - 2014	Completed	33 kV, 275 kV	Switchgear, power protection and control	Power Distribution	Engineering, Design
SS Strathaven SPEN	Substation (GSP) 275/33kV, 2x120 MVA Strathaven	Detail design for interfacing for reconstruction of SS Strathaven 33kV. Dumentation review, Remote ends equipment specification and intertripping design. Interface design for replacement of 33kV Switchgear for SGT1 and SGT2 2x120MVA, AVC Control panel, Fault Recorder Panel, Multicore cable connections. Intertrip protection communication design as in adjacent 33kV Remote End substations. Pre-commissioning and commissioning work on 33kV switchgear type NXplus Siemens and SGT1 and SGT2 transformer control/protection integration. Equipment: 33kV Switchgear type Siemens NXplus, Fault recorders IDM T5 and T3 by Qualitrol, Intretripreley type: GCM05, RFL 9745GD by Siemens, Differential transformer prt. 7SG142 Duobias M200	Energoinvest Reach Active Ltd, London	Scottish Power Energy SPEN Network	United Kingdom / Scotland	2012 - 2014	Completed	33 kV, 275 kV	Switchgear, power protection and control	Power Distribution	Engineering, Design, precommissioning and commissioning works
ERA-Bid Consulting	MV Substations - Reconstruction	Consulting services for bid preparation - Electrical part for the client Scottish power networks and UK Power networks	Reach Active Ltd, London	ERA- London	United Kingdom	2012 - 2013	Completed		Electrical Engineering	Power Distribution	Consulting
Central Angostura	316MW Hydro Power Plant FAT	FAT testing in Istanbul, Analysis. Software engineering of relay configurations, applied parameter settings and testing of protective panels of generators and SS control and protections. Installed relays: REG 670, RET 670, REL 670, RED 670, REB 670, Siemens 7VE611.	ALSTOM Hydro France, ProIntegris	Alstom	Turkey	2012	Completed		Power Protection and Control	Power Generation Hydro	Software engineering, Factory Acceptance Testing
SS Absheron Mingichevir Transmission line AzerEnerji	SS Agdash, SS Absheron, SS Agsu, SSGabala, SS Hovsan, SS Musfiq, SS Sangachal, SS Xyrdalan	Commissioning of primary equipment and secondary control protection system of new SS 220/110/10 kV with Schneider Electric MICOM technology relays: C264, P543, P443, P435, P437, P633, P643,P741. P743, P139. Eberle: REG D. Communication protocol IEC 61850 Refurbishment of SS 500/330/110 kV Absheron Commissioning of power protection and control system Equipment: Schneider Electric MICOM technology: C264, P543, P443, P435, P437, P633, P643,P741. P743 IEC 6870-5-103 And commissioning of remote end substation bays in stations: SS Agsu - remote end commissioning Commissioning of power protection and control system Equipment: Schneider Electric MICOM technology: P543, P437 SS Gabala - remote end commissioning Commissioning of power protection and control system Equipment: Schneider Electric MICOM technology: P443, P437 SS Hovsan - remote end commissioning Commissioning of power protection and control system Equipment: Schneider Electric MICOM technology: P143, P437, P443 SS Musfiq - remote end commissioning Commissioning of power protection and control system	Alstom Grid GmbH	AzerEnerji	Azerbaijan	2012	Completed	500 kV, 330 kV, 220 kV, 110 kV, 10 kV	Power Transformers, Switchgear, power protection and control	Power transmission & Distribution	Field Engineering, Software Engineering, Commissioning
SS Janub AzerEnerji	Combined Gas-Steam power plant, SS 330/220/110 kV	Commissioning of 330 GIS, 220 GIS, 110kV GIS, 2x 330/220 kV - 250 MW transformers, 2x 330/110- 250 MW transformers, 2x 110/15 kv-150 MW transformers, 1x 110/13,8 kv-150 MW transformer, 1x 220/13,8 kv-150 MW transformer, 2x 220/15 kv -150 MW transformers of Janub substation protection system with installed Schneider Electric MICOM relay technology (C264,	Alstom Grid GmbH	AzerEnerji	Azerbaijan	2012 - 2013	Completed	330 kV, 220 kV, 110 kV; 13,8 kV		Power generation, power transmission	Field Engineering, Software Engineering, Commissioning
Poliklinika Srce	Building Service	Complete Electric installations Solution Delivery for SRCE Clinic Sarajevo	-	SRCE Clinic Sarajevo	BIH	2012	Completed	10 kV; 0,4 kV	LV Installations, Design.	Building systems	Engineering, Installation
Forssa Reserve Power Plant	Light fuel oil power plant	Commissioning of Protection system power plant. Engineering and Commissioning of Protection, Control and Synchronisation system SAT testing for 2x159 MW generator units Equipment Protection and control IEDs: General Electric G30 and F650, Siemens: 7UM62 and 7VE63.	Ansaldo Energia Italy, SAET Italy, ProIntegris Croatia	FINGRID OYJ	Finland	2012	Completed	110 kV, 15,75 kV			
Zemblak	Substation 400/110 kV	Software engineering of substation SCADA system and commissioning. ABB MicroSCADA using IEC 101 and LON protocol.	ProIntegris	OST	Albania	2012	Completed	400 kV, 110 kV	SCADA	Power transmission & Distribution	Field Engineering, Software Engineering, Commissioning
Koplik	Substation 220/110 kV	Software engineering of substation SCADA system and commissioning. ABB MicroSCADA using IEC 104, IEC 103 and LON protocol.	ProIntegris	OST	Albania	2012	Completed	220 kV, 110 kV	SCADA	Power transmission & Distribution	Field Engineering, Software Engineering, Commissioning
Teleoptic OSS	Building service	Complete electric, Local area network, phone network and fire	-	OSS Sarajevo	BIH	2012	Completed	0,4 kV	LV Installations, Design.	Building systems	Engineering, Installation
HPP Nurek Barki Tojik	Substation 220 kV	Commissioning of 220kV GIS HPP Nurek substation protection system with installed Schneider Electric MICOM relay technology (C264, P473, P433, P547, P634, P143, P141, P139, P126, P122, P120, P741, P743). Interfacing IEC 61850	Alstom Grid GmbH	Barki Tojik	Tajikistan	2012	Completed	220 kV	Power Protection, control and switchgear	Power transmission	Commissioning

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Ma'aden training	Aluminium Smelter	On Site Customer Training regarding Schneider Electric and SEL Protection Relays	Aluminium Smelter Industrial Plant, 380/230/35 kV GIS Substations. OHLs 400 kV	Aluminium Smelter Industrial Plant, 380/230/35 kV GIS Substations. OHLs 400 kV	Saudi Arabia	2013	Completed		Power Protection and Control	Aluminium Industry	Training
Ma'aden Aluminium Smelter - Ras Al-Khair	Aluminium Smelter Industrial Plant, 380/230/35 kV GIS Substations. OHLs 400 kV	Commissioning of primary and secondary equipment 380kV GIS ABB, 230kV GIS Alstom, 3x Transformers 1,2 GW, 3x OHL 400 kV. Protection and control system with installed Schneider Electric Protection and Control relays MICOM (C264, C264P, P443, P543, P546, P632, P642, P132, P143, P741, P743), Schweitzer Engineering Laboratories, Inc. (SEL-311, EL-421). Tapcon 260 Interfacing IEC 61850.	Schneider Electric Canada, Inc., Joint Engineering S.r.l	Aluminium Smelter Industrial Plant, 380/230/35 kV GIS Substations. OHLs 400 kV	Saudi Arabia	2012 - 2013	Completed	380 kV, 230 kV, 35 kV	Power protection and Control	Aluminium Industry	Commissioning
EI Merk	Substations 220kV	Refurbishment of bay protection & control system bays, SS 220/33 kV Ourhoud & SS 220 CHB for accommodating new OHLs Equipment: REL670, REC670, Siemens 7SA511, REL 511, MicroSCADA, LON	ABB SpA ProIntegris	Groupment Berkine GB Anadarko / Sonetra ch	Algeria	2012	Completed	220kV	Power Protection and Control	Power Transmission	Commissioning
RP Azot - Gorazde	Substation 35/10 kV	Solution for Integrating new 10kV bay level to Electric distribution control centre, Engineering and Commissioning of ABB REF541 and COM600 gateway. Customer Training Equipment: ABB REF541, COM600 gateway, RUGGEDCOM2100, SPA- ZC400, SPA-ZC21,	-	JP Elektroprivreda BiH	BiH	2012	Completed	35 kV, 10kV	Power Protection and Control	Power Distribution	Solution, Equipment delivery, Engineering, Software Engineering, Installation, Commissioning
RPP Arzew	Industrial Power plant - Gas Turbine	Commissioning of Gas Turbine generator unit 50 MVA equipment: ABB REG 670 System interface: IEC 61850	Hawia ABB SpA ProIntegris	Sonetrach	Algeria	2011	Completed		Power Protection and Control	Oil and Gas	Commissioning
SAMAPCO-AL WAHA Jubail	Substation 230/35 kV in Petrochemical Plant	Commissioning of substation Protection and Control system and local GIS control system, and drives. Protection was based on Alstom protection relays MICOM relay technology (P141, P143, P541, P634, P821) including transformer and Bus Bar protection. Interfacing to SCADA with IEC 60870-5-103 protocol and GIS.	Joint Engineering /Alstom France Daelim Korea	SAMACO, Al Waha Petrochemicals Company	Saudi Arabia	2011	Completed	220 kV, 35 kV	Power Protection and Control, GIS, HV Switchgear	Petrochemical	Commissioning
MLE	Oil Refinery Substations	RTU configuration and commissioning Equipment: ABB RTU 560	ABB SpA Italy	Sonetrach	Algeria	2011	Completed		Power Protection and Control	Oil and Gas	Software Engineering Commissioning
TS Zenica 1	Substation 110/10 kV, Distribution Network Control Centre	Delivery of solution for integrating new 10kV plant to Electric distribution control centre, Engineering and Commissioning of ABB REF542Plus configuration for communication with Siemens RTU SICAM SAS station Control System. Equipment: ABB REF542plus relays, IEC 60870-5-103 communication protocol, Siemens SICAM SAS	-	JP Elektroprivreda BiH	BiH	2012	Completed	110 kV, 10 kV	Power Protection and Control, SCADA	Power Transmission and Distribution	Solution, Equipment delivery, Engineering, Software Engineering, Installation, Commissioning
TRIDEL	Energy-from-Waste Plant 40MW	Site testing of generator protection MICOM P6xx series for two generators 40 MW	Hitachi Zosen Inova AG Schneider Electric INP-P Switzerland	TRIDEL SA	Switzerland	2011	Completed		Power Protection and Control	Power Generation Waste	Commissioning
HPP Akkopru Limak	Hydropower plant 2x65 MVA	Dry and Wet Commissioning, engineering and SAT testing protection and synchronizing system for 2X65 MVA Hydro Power Plant Akkopru. Equipment: Siemens SIPROTEC 4 IED 7UM622, 7UT613, 7SJ600, 7VE611 Interfacing using Profibus FMS towards Siemens WinCC SCADA SAT testing and Commissioning of Step Up power transformer 13,8/154kV. SAT testing and Commissioning of turbine by Voith Hydro GmbH	Voith Hydro GmbH - Austria ProIntegris	Limak DSI	Turkey	2011	Completed	13,8 kV	Power Protection and Control, Substation SCADA, Gas Turbine, Excitation, Generator, Synchronisation system.	Power Generation	Software Engineering, Commissioning
SS Cicernakaberd CJSC ENA	Substation 110/35/6 kV + 2 remote ends OHL bays	For primary station SS Cicernakaberd: Commissioning of power protection and control system in 110/6 kV substation based on Alstom MICOM technology (P139C, P143, P433, P543, P632) and REG-D voltage regulators Commissioning of switchgear for 110/35/6 kV Interfacing IEC 61850 to Schneider Electric PACIS SCADA. Energisation of SS Cicernakaberd	Alstom Grid GmbH	CJSC ENA (CJSC Electrical Networks of Armenia)	Armenia	2011	Completed	110 kV, 35 kV, 6 kV	Power Protection and Control, Substation SCADA, Switchgear	Power Transmission and Distribution	Commissioning, Field engineering
SS Shinuhair	Substation 110kV, OHL	Commissioning of protection system for OHL 110 kV Zangezur. Equipment: Alstom MICOM technology (P435)	Alstom Grid GmbH	Zangezur Copper Molybdenum Combine	Armenia	2011	Completed	110 kV	Protection	Power Transmission and Distribution	Commissioning
SS Elbasan 2	Substation 400/110/33 kV Refurbishment	Refurbishment of SS 400/220/33 kV Elbasan 2 Commissioning of power protection and control system Equipment: Siemens SIPROTEC 4 IED 7UM621, 7UT613, 7UM611, 7VE611 IEC61850	Hyosung-Korea DOKO comp Albania	OST Albania	Albania	2011	Completed	400 kV, 220 kV, 110 kV	Power Protection And Control, Power Transformer, HV Switchgear, Aux Power supply, Refurbishment,	Power Transmission and Distribution	Commissioning
6th OCTOBER POWER PLANT	Gas Power Plant 600 MW	Engineering and Commissioning of Protection and Control and Synchronisation system FAT and SAT testing for 4x150 MW generator units Equipment Protection and control IEDs:ABB RET 670, REG670, REC 670, ABB Synchrotract 5200 MicroSCADA pro 9.3 Engineering/FAT and SAT	PGESCO, ANSALDO ENERGIA SpA ABB SpA, ProIntegris	CEPC- Cairo Electricity Production Company	Egypt	2011 - 2012	Completed	15 kV, 220 kV	Power Protection and Control, Substation SCADA, Gas Turbine, Excitation, Generator, Synchronisation system.	Power Generation	Software Engineering, Commissioning
SS Tirana 2 - Tirana	Substation 400/220/110 kV	SS Tirana 2 400/220/110 kV Commissioning and testing primary equipment and protection and control system. Equipment: Siemens SIPROTEC 4 IED 6MD664, 6MD613, 7SD522, 7SA522, 7UT633, 7SJ623, 7SJ611, 7SJ641, 7SJ622, 7SJ624, 7SS522, 7SS523, Areva MICOM IED P444	Siemens Italy / ProIntegris	OST Albania	Albania	2011	Completed	400 kV, 220 kV, 110 kV	Power Protection and Control	Power Transmission	Commissioning
SS Agahts - Kadjaran	Substation 110/10 kV	SS Agahts 110/10 kV Commissioning and testing protection and control system. Equipment: AREVA MICOM IED C264, P139, P632, a-eberle REG-D AVR Interfacing IEC61850 to PACIS	Alstom Grid GmbH	Zangezur Copper Molybdenum Combine	Armenia	2011	Completed	110 kV, 10 kV	Power protection and Control	Mining Industry, Power T&D	Commissioning

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MAIDA	Wind power plant 60 MW	Maida wind Park -Substation SSE 150/30kV Cortale Adding new bays in ABB Micro SCADA Pro 9.2 and commissioning with control system cubicles for 30x2MW generated from wind power. EQUIPMENT: ABB REF543, SPA ZC 400, IEC 61850, MICROSCADA pro 9.2	ABB SpA Prolntegris	Verona GEST SpA.	Italy	2011	Completed	150 kV, 10 kV	Power protection and Control, SCADA	Power Generation-Wind	Software engineering, Commissioning
QAFCO	Industrial power plant (Gas) 160 MW	Commissioning of 4x40 MVA Generator Synchronisation system central synchronisation unit	Prolntegris, Siemens SpA, SAIPEM	QAFCO	Qatar	2011	Completed				
Ethiopia – Djibouti power interconnection project, Ali Sabieh	Substation 62/20/11 kV	Commissioning and testing protection system 63/20/11 kV Equipment: Protection and Control IEDs Siemens SIPROTEC 4 7SA522, 7SJ631, 7SJ611, 7UT613, 7VK611	Siemens Italy Prolntegris	EDD - Electricity de Djibouti	Djibouti	2011	Completed	62 kV, 20 kV, 11 kV	Power Protection and Control, Metering, Secondary Systems, Aux power supply	Electric Distribution	Commissioning
HPP ULUABAT	Hydro Power Plant 100 MW	Dry and Wet Commissioning and testing protection and synchronizing system for 2X50 MVA Hydro Power Plant Uluabat. Customer On site Training for installed equipment Equipment: Siemens SIPROTEC 4 IED 7UM621, 7UM611, 7UT613, 7UT612, 7SJ600, 7VE611 Interfacing Profibus FMS	Voith Hydro GmbH - Austria Prolntegris	Akenerji	Turkey	2010	Completed		Power Protection and Control, Hydro Turbine, Generator, Excitation, Synchronisation, Training	Hydro Power	Commissioning
HPP UZUNCAIR	Hydro Power Plant 63 MW	Dry and Wet Commissioning and testing protection and synchronizing system for 63 MW Hydro Power Plant Uzunchair. Customer Training for installed equipment. Equipment: Siemens SIPROTEC 4 IED 7UM621, 7UM611, 7UT612, 7SJ600, 7VE611 Interfacing protocol: Profibus FMS	Voith Hydro GmbH - Austria, Prolntegris	Limak DSI	Turkey	2010	Completed		Power Protection and Control, Generator, Hydro Turbine, Synchronisation, Training	Power Generation-Hydro	Commissioning
PEARL GTL-STG	Industrial Combined Cycle Plant (Gas-Steam) 300 MW	Hot and Cold Commissioning electrical protection and control system 50MVA Steam Turbine Generator Sets Gas to Liquids Plant-Oil EQUIPMENT: ABB RET 670, REG670, Syncrotact 5200, Interfacing systems: ABB MicroSCADA, ABB Industrial IT x800 MC, using IEC 61850, Siemens S7 Excitation system and Turbine Control	SIEMENS AG - ENERGY, KBR	Shell	Qatar	2010	Completed	132 kV; 15,5 kV	Power protection & Control, Synchronisation, Generator, SCADA, Gas Turbine	Oil & Gas	Commissioning
PEARL GTL-GTG	Industrial Combined Cycle Plant (Gas-Steam) 300 MW	Commissioning protection and control system and support until handover to client 6x50MVA Gas Turbine Generator Sets Gas to Liquids Plant- Oil EQUIPMENT: ABB REM 545, RET542, Syncrotact 5200, SPA ZC 400, IEC 61850 Interfacing systems: ABB MicroSCADA Pro, ENMC ABB	KBR, GE Oil&Gas- Nuovo Pignone ABB SpA -Italy Prolntegris	Shell	Qatar	2010 - 2011	Completed	132 kV; 15,5 kV	Power protection & Control, Synchronisation, Generator, SCADA, Gas Turbine	Oil & Gas	Commissioning Operational support
TEND B	Thermal power plant 2000 MW Nikola Tesla	Setting study and protection selectivity study for 6kV network with review of influence to 110kV Transmission network within Power Plant Software used Siemens SIGRADE	Energoinvest doo Sarajevo	EPS, TPP Nikola Tesla B	Serbia	2010	Completed	110 kV, 6 kV	Power Protection and Control	Power Generation	Engineering
TENT B	Thermal power plant 2000 MW Nikola Tesla	MV 6 kV switchgear commissioning including protection units; Equipment: ABB UNIGEAR switchboards, REF542 plus	Energoinvest doo Sarajevo	EPS, TPP Nikola Tesla B	Serbia	2010	Completed	6 kV	Power Protection and Control, MV Switchgear	Power Generation	Commissioning
Transco Protocol Conversion	110/x/y kV Substations	Engineering and commissioning of substation bay signalling using custom design EXOR protocol converters SPA/IEC 103 in 12 substations: Software Engineering of relay configuration for equipment: ABB RE_5xx series, REF 542 542 plus, RE_54x; EXOR protocol converters; SICAM SAS and RTU, WIN CC	EXOR doo Zagreb	Elektroprenos BiH	BiH	2010 - 2011	Completed	110 kV, 35 kV, 11 kV	Power Protection & Control, Substations, SCADA	Power Transmission	Engineering (Detail), Software Engineering, Commissioning
Protection setting study TPP Tuzla	Thermal Power Plant 500MW	Protection setting study for TPP Tuzla	CET Energy Sarajevo	JP Elektroprivreda BiH TPP Tuzla	BiH	2010 - 2011	Completed	110 kV	Power Protection	Power Generation	Engineering
SCADA/EMS i TK in B/H	2 National Transmission Network Control Centres	Preparing the IFS (Signal list) for 156 Substations for new SCADA National Transmission Control Centres based on Solution SIEMENS Spectrum	Siemens GmbH, Austria	NOS BiH / Elektroprivreda BiH	BiH	2010 - 2011	Completed	400 kV, 220 kV, 110 kV	SCADA, Control Systems	Power Transmission	Engineering