

## REFERENCE LIST

CCE

### Abbreviations:

S.S. - Substation  
T.P.P. - Thermal power plant  
G.P.P. - Geothermal power plant  
H.P.P. - Hydro power plant

The reference list is updated annually and includes major assignments only. End users are defined as last instance where the individual reference can be traced and verified. Therefore they do not necessarily coincide with owner of the plant in question.

Site	Country	Year	Main Contractor	End User	Description
Dhamanoor 320 MW T.P.P.	Egypt	1990	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
Sadelmi project 2 S.S. 220/110 kV	Tanzania	1990	ABB MURATORI Italy	ABB SAE SADELM Italy	Commissioning of the protection and control system
Presenzano 4 x 120 MW T.P.P.	Italy	1991	ABB MURATORI Italy	ENEL Italy	Commissioning of the protection and control system
Mers Al Hadjat 2 x 150 MW T.P.P.	Algeria	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
Dagang 2 x 350 MW T.P.P.	China	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
Aswan 220/110 kV S.S.	Egypt	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
Turpas Tekfen Refinery Autoproduction System 2 x 30 MW T.P.P.	Turkey	1991	ABB MURATORI Italy	ABB ADDA Italy	Designing of the protection system
Bisotoun 2 x 320 MW T.P.P.	Iran	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Designing of the protection system
Bisotoun 220 kV S.S.	Iran	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Designing of the protection system
New Essna 6 x 30 MW H.P.P.	Egypt	1991	ABB MURATORI Italy	ANSALDO GIE Italy	Factory testing of the protection system
Tien Jing Steelworks Local Distribution System	China	1992	ABB MURATORI Italy	IRITECNA Italy	Commissioning of the protection and control system
Mohamedia 3 x 33 MW T.P.P.	Morocco	1992	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system

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Site	Country	Year	Main Contractor	End User	Description
Mers Al Hadjat 2 x 150 MW T.P.P.	Algeria	1993	ABB MURATORI Italy	ANSALDO GIE Italy	Training course on protection system for the customer's staff
ASM Brescia 132/20 kV S.S.	Italy	1993	ABB MURATORI Italy	ABB SACE Italy	Designing of the protection system
Assiut 300 MW T.P.P.	Egypt	1993	ABB MURATORI Italy	ANSALDO GIE Italy	Designing of the protection system
Assiut 220 kV S.S.	Egypt	1993	ABB MURATORI Italy	ANSALDO INDUSTRIA Italy	Designing of event recording system
Assiut 220 kV S.S.	Egypt	1993	ABB MURATORI Italy	ANSALDO INDUSTRIA Italy	Selectivity plan and setting calculation study
Assiut 300 MW T.P.P.	Egypt	1993	ABB MURATORI Italy	ANSALDO GIE Italy	Selectivity plan and setting calculation study
Bacon - Manito 2 x 55 MW G.P.P. and 220kV S.S.	Filipinos	1993	ABB MURATORI Italy	ANSALDO GIE Italy	Selectivity plan and setting calculation study
Bacon - Manito 2 x 55 MW G.P.P. and 220kV S.S.	Filipinos	1993	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
ISA Colombia 4 S.S. 500kV	Colombia	1993	ABB MURATORI Italy	ANSALDO INDUSTRIA Italy	Commissioning of the protection and control system
Al Tawelah Desalination System	UAE, Emirate of Abu Dhabi	1993	ABB MURATORI Italy	IRITECNA Italy	Designing the bus protection and rapid bus transfer system
Uganda - Tanzania Interconnection Project 3 S.S. 110/33 kV	Tanzania, Uganda	1993	ABB SAE SADEMI Italy	ABB SAE SADEMI Italy	Commissioning of the protection and control system
Bacon - Manito 2 x 55 MW G.P.P. and 220kV S.S.	Filipinos	1994	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system

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Site	Country	Year	Main Contractor	End User	Description
ISA Colombia 500kV S.S.	Colombia	1994	ABB MURATORI Italy	ANSALDO INDUSTRIA Italy	Commissioning of the protection and control system
Suez 66/11kV S.S.	Egypt	1994	ABB Relays Sweden	ELECTRO IMPEX Bulgaria	Commissioning of busbar protection system
Tetouan 3 x 36 MW T.P.P.	Morocco	1994	ABB MURATORI Italy	ANSALDO GIE Italy	Commissioning of the protection and control system
ISA Colombia 4 S.S. 500kV	Colombia	1995	ISA Colombia	ISA Colombia	Training course for protection and control system
ACCRA - TEMA Water Supply Rehabilitation Project	Ghana	1995	ABB Industrietechni k Mannheim Germany	ACCRA TEMA Ghana	Site management, supervision of electrical works and commissioning of electrical equipment, both primary and secondary
ACCRA - TEMA Water Supply Rehabilitation Project	Ghana	1996	ABB Industrietechni k Mannheim Germany	ACCRA TEMA Ghana	Site management, supervision of electrical works and commissioning of electrical equipment, both primary and secondary
Karnafuli Renovation Project Generator No. 1 2x75MVA H.P.P.	Bangladesh	1996	ABB SAE SADELMI Italy	ABB SAE SADELMI Italy	Commissioning of the protection system and synchronisation
Drava River EBRD Renovation Project 5 H.P.P.	Slovenia	1996	ABB Network Partner Sweden	DEM Slovenia	Acceptance testing and commissioning of the protection system

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Site	Country	Year	Main Contractor	End User	Description
Elektro Gorenjska, Renovation Project 2 S.S. 110/20 kV	Slovenia	1996	Elektro Gorenjska Utility Slovenia	Elektro Gorenjska Utility Slovenia	Elaboration of tender documentation
Barbados Transmission Project 2 S.S. 69/24 kV	Barbados	1996	ABB Substations Sweden	BL&P Barbados	Designing of secondary systems
Qatar Phase IV 28 S.S. GIS	Qatar	1996	ABB Substations Sweden	MEW Qatar	Commissioning of the secondary systems
Electricity Board BiH Sarajevo US AID 4 S.S. 35/10 kV	Bosnia and Herzegovina	1997	Parsons Delaware Inc. USA	Electricity Board BiH Bosnia and Herzegovina	Configuring and commissioning of the protection system
Electricity Board BiH Sarajevo US AID 4 S.S. 35/10 kV	Bosnia and Herzegovina	1997	Parsons Delaware Inc. USA	Electricity Board BiH Bosnia and Herzegovina	Configuring and commissioning of the remote control system SCADA
Ras Abu Fontas 2000 MVA T.P.P.	Qatar	1997	ABB Muratori / ABB SAE SADELM I Italy	MEW Qatar	Configuring and commissioning of the remote control system SCADA
Drava River EBRD Renovation Project 5 H.P.P.	Slovenia	1997	ABB Network Partner Sweden	DEM Slovenia	Acceptance testing and commissioning of the protection system
Barbados Transmission Project 2 S.S.69/24 kV	Barbados	1997	ABB Substations Sweden	BL&P Barbados	Delivery of secondary systems
Karnafuli Renovation Project Generator No. 2 2x75MVA H.P.P.	Bangladesh	1997	ABB SAE SADELM I Italy	BEB Bangladesh	Configuring and commissioning of the protection system and synchronisation
Elektro Gorenjska, Renovation Project 2 S.S. 110/20 kV	Slovenia	1997	Elektro Gorenjska Utility Slovenia	Elektro Gorenjska Utility Slovenia	Elaboration of tender
Elektro Gorenjska, Renovation Project 2 S.S. 110/20 kV	Slovenia	1997	Elektro Gorenjska Utility Slovenia	Elektro Gorenjska Utility Slovenia	Bidding evaluation

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Site	Country	Year	Main Contractor	End User	Description
Drava River EBRD Renovation Project 5 H.P.P.	Slovenia	1998	ABB Network Partner Sweden	DEM Slovenia	Commissioning of the protection, teleprotection and annunciator (SCADA) system
Ras Abu Fontas 2000 MVA T.P.P.	Qatar	1998	ABB Muratori / ABB SAE SADELM I Italy	MEW Qatar	Configuring and commissioning of the remote control system SCADA
Thanontok Bangkok 230/63/24 kV S.S.	Thailand	1998	ABB Substations Sweden	MEA Thailand	Commissioning of the secondary systems
Electricade de Moçambique 4 S.S. 66/33 kV	Moçambique	1998	ABB Substations Sweden	Electricade de Moçambique	Commissioning of the protection system
Enichem Ravenna 132 kV S.S. 100 MW T.P.P.	Italy	1998	ABB Muratori / ABB ADDA Italy	Enichem Ravenna Italy	Configuring and commissioning of the remote control system SCADA
CADAFE 9 S.S. 115/13.8 kV	Venezuela	1998	ABB Substations Sweden	CADAFE Venezuela	Commissioning of the secondary systems
Drava River EBRD Renovation Project 5 H.P.P.	Slovenia	1999	ABB Automation Systems Sweden	DEM Slovenia	Commissioning of the protection, teleprotection and annunciator (SCADA) system
RTP Skofja Loka Renovation Project 110/20 kV S.S.	Slovenia	1999	Elektro Gorenjska Utility Slovenia	Elektro Gorenjska Utility Slovenia	Tender documentation for protection, teleprotection and remote control
TE Brestanica 2x114 MW turbogas T.P.P.	Slovenia	1999	ABB Slovenija	TE Brestanica Slovenia	Turn-key delivery of the remote control system
Qatar Phase IV 28 S.S. GIS	Qatar	1999	ABB Substations Sweden	MEW Qatar	Commissioning of the secondary systems
Qatar Phase IV 28 S.S. GIS	Qatar	1999	ABB Substations Sweden	MEW Qatar	33kV GIS training course (outsourcing of ENEL Rome)

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Site	Country	Year	Main Contractor	End User	Description
Ratchamburi 500/220 kV S.S. Ratchamburi T.P.P.	Thailand	1999	ABB Switchgear Sweden	EGAT Thailand	Commissioning of the secondary systems
Enichem Ravenna 132 kV S.S. 100 MW T.P.P.	Italy	1999	ABB Muratori / ABB ADDA Italy	Enichem Ravenna Italy	Configuring and commissioning of the remote control system SCADA
CADAFE 9 S.S. 115/13.8 kV	Venezuela	1999	ABB Switchgear Sweden	CADAFE Venezuela	Commissioning of the secondary systems
Bannu 230/132/11 kV S.S.	Pakistan	1999	ABB Switchgear Sweden	WAPDA Pakistan	Commissioning of the secondary systems
Al Zara 230/66/6,3 kV S.S. Al Zara T.P.P.	Syria	1999	ABB Switchgear Sweden / Mitsubishi Heavy Industry	PEEGT Syria	Upgrading and commissioning of the protection system
Al Zara 230/66/6,3 kV S.S. Al Zara T.P.P.	Syria	2000	ABB Switchgear Sweden / Mitsubishi Heavy Industry	PEEGT Syria	Commissioning of SMS and training of the staff
Qatar Phase IV 28 S.S. GIS	Qatar	2000	ABB Substations Sweden	MEW Qatar	Setting and testing the protecion
EDELCA 3 S.S. 400/13.8 kV	Venezuela	2000	ABB Switchgear Sweden	EDELCA Venezuela	Commissioning of the secondary systems
EDELCA 3 S.S. 400/13.8 kV	Venezuela	2000	ABB Switchgear Sweden	EDELCA Venezuela	Commissioning of the secondary systems
Drava River EBRD Renovation Project 5 H.P.P.	Slovenia	2000	ABB Automation Systems Sweden	DEM Slovenia	Commissioning of the teleprotection and protection analysing system
Al Zara 230/66/6,3 kV S.S. Al Zara T.P.P.	Syria	2000	ABB Switchgear Sweden / Mitsubishi Heavy Industry	PEEGT Syria	Commissioning of SMS and training of the staff
Qatar Phase IV 28 S.S. GIS	Qatar	2000	ABB Substations Sweden	MEW Qatar	Setting and testing the protection

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Site	Country	Year	Main Contractor	End User	Description
Hadeed Steel works	Saudi Arabia	2000	ABB Energy Automation Italy S.p.A./Voest Alpina GmbH	Hadeed Saudi Arabia	Training course on RTU and MicroSCADA for staff
Mubarak Pumping station 11kV distribution system	Egypt	2000	ABB Utility Automation GmbH Germany	MPWWR MID Egypt	Selectivity plan and protection setting and configuration guide
Saudi Yanbu Petrochemical Company (YANPET) Load dispatch center	Saudi Arabia	2000	ABB Energy Automation S.p.A. Italy	YANPET Saudi Arabia	Designing and commissioning of the remote control systems
T.P.P. Brestanica 2x114 MW turbogas T.P.P.	Slovenia	2000	ABB Slovenija	TE Brestanica Slovenia	Commissioning of the remote control system
MEW 6 S.S. 132/33/11 kV	Kuwait	2000	Alstom T&D France	MEW Kuwait	Commissioning of the protection systems
GECOL 4 S.S. 220kV	Libya	2000	Alstom T&D France	GECOL Libya	Commissioning of the protection systems
EDELCA 2 S.S. 400kV 1 S.S. 220 kV	Venezuela	2000	ABB Switchgear Sweden	EDELCA Venezuela	Commissioning of the secondary systems
Elektro Prenos Banja Luka 1 SS 110/10 kV	Republika Srpska - BIH	2000	Elektro Prenos Banja Luka	Elektro Prenos Banja Luka RS - BIH	Delivery of HV line protection systems
Elektro Prenos Banja Luka 1 SS 110/35/10 kV	Republika Srpska - BIH	2000	Elektro Prenos Banja Luka	Elektro Prenos Banja Luka RS - BIH	Delivery of transformer protection system
GECOL 4 S.S. 220kV	Libya	2001	Alstom T&D France	GECOL Libya	Commissioning of the protection systems
S.T.E.G. 2 S.S. 66 kV	Tunis	2001	Alstom T&D France	S.T.E.G. Tunis	Commissioning of the protection systems
MEW 6 S.S. 132/33/11 kV	Kuwait	2001	Alstom T&D France	MEW Kuwait	Commissioning of the protection systems

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Site	Country	Year	Main Contractor	End User	Description
MEW 66 kV Transmission Development 1997- 2001	Bahrain	2001	Alstom T&D France	MEW Bahrain	Commissioning of the protection systems
QASCO steel works 1 S.S. 66/11 kV	Qatar	2001	Alstom T&D France	QASCO STEAL WORKS Qatar	Commissioning of the transformer protection system
Lumut 230 kV S.S. Lumut T.P.P.	Malaysia	2001	Alstom T&D France	TNB Malaysia	Commissioning of busbar protection
Al Zara 230/66/6,3 kV S.S. Al Zara T.P.P.	Syria	2001	ABB Switchgear Sweden / Mitsubishi Heavy Industry	PEEGT Syria	Service of SMS and training of the staff
EDELCA 2 S.S. 400kV 1 S.S. 220 kV	Venezuela	2001	ABB Switchgear Sweden	EDELCA Venezuela	Commissioning of centralized disturbance recording systems
Saudi Yanbu Petrochemical Company (YANPET) Load dispatch center	Saudi Arabia	2001	ABB Energy Automation S.p.A. Italy	YANPET Saudi Arabia	Designing and commissioning of the remote control systems
Hadeed Steel works	Saudi Arabia	2001	ABB Energy Automation Italy S.p.A./SIEMENS	Hadeed Saudi Arabia	Interfacing MicroSCADA(ABB ) and LSA(SIEMENS)
Elektro Prenos Banja Luka 110/10 kV S.S.	Serb Republic Bosnia and Herzegovina	2001	Elektro Prenos Banja Luka	Elektro Prenos Banja Luka RS - BIH	Extension of control center (MicroSCADA(AB B))
Elektro Prenos Banja Luka 110/10 kV S.S.	Serb Republic Bosnia and Herzegovina	2001	Elektro Prenos Banja Luka	Elektro Prenos Banja Luka RS - BIH	Gateway in SS110/10 Bjeljina (MicroSCADA(AB B))
Elektroprivreda BiH Protection DPT.	Bosnia and Herzegovina	2001	Elektroprivreda BiH Sarajevo	Elektroprivre da BiH Sarajevo	Protection equipment Customized Training Course for staff in CCE Training Center



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Site	Country	Year	Main Contractor	End User	Description
Elektroprivreda BiH Control DPT. 2 35/10 kV SS	Bosnia and Herzegovina	2001	PRESTIGIOUS DISCOVERY Malaysia	Elektroprivre da BiH Sarajevo	Introduction in existing control center (Complete delivery of protocol converters)
T.P.P. Brestanica 2x114 MW turbogas T.P.P.	Slovenia	2001	ABB Slovenia	TE Brestanica Slovenia	Extension of the remote control system
YULON Slovenia HV motors	Slovenia	2001	YULON Slovenia	YULON Slovenia	Service on big compressor motor protection system
Elektroprimorska 1 SS 110/20 kV	Slovenia	2001	MERKUR d.d. Slovenia	Elektroprimor skaSlovenia	Design of energy metering system