

MPS ELECTRIC DESIGN - REFERENCE LIST

Crt. No.	Contract	Denomination	Customer	End user / Country	Date	Stage
1	AIS 500 kV s/s Phu My 2.2, Vietnam	Substation steel frameworks & apparatus supports, detailed design, workshop drawings	ALSTOM-ERT-FRANCE	EVN / VIETNAM	March 2003	F
2	AIS 400/220 kV s/s: Mediouna Oualili, Bourdim - Morocco	1.5CB schematic (400 kV) & double busbar (220 kV) detailed design: primary and secondary circuits	ALSTOM-ERT-FRANCE	ONE / MOROCCO	April 2003	F
3	AIS 500/110 kV s/s Nam Theun II, Laos	Basic technical documentation (tendering purposes)	ALSTOM-ERT-FRANCE	EGAT / LAOS	May 2003	F
4	Retrofit protection system on OHL 400 kV Darste-Brasov, ROMANIA	Detailed design: secondary circuits, relay parametrization	TRANSELECTRICA - ST SIBIU	TRANSELECTRICA - ST SIBIU / ROMANIA	Sept. 2003	F
5	AIS 500 kV s/s Phu My 2.2, Vietnam	As built documentation	ALSTOM-ERT-FRANCE	EVN / VIETNAM	Oct. 2003	F
6	AIS 10xs/s 66/20 kV, Syria	Basic technical documentation (tendering purposes)	IMSAT - ROMANIA	PEDEEE / SYRIA	Feb. 2004	F
7	AIS 500/220 kV s/s Nho Quan & Thuong Tin, Vietnam	Detailed design: primary circuits	AREVA - ERT - FRANCE	EVN / VIETNAM	Feb. 2004	F
8	Retrofit protection system: mounting bus-bar differential protection 110 kV s/s Arad, ROMANIA	Basic design, detailed design, as built.	TRANSELECTRICA - ST TIMISOARA	TRANSELECTRICA - ST TIMISOARA / ROMANIA	April 2004	F
9	GIS 400/225 kV s/s Al-Dhaid, UAE	Detailed design: primary and secondary circuits	AREVA - ERT - FRANCE	ADWEA, DEWA, FEWA, SEWA, UWEC / EMIRATES	July 2004	F
10	400/200 kV s/s Slatina - bus bar differential protection RN-23 connection with numerical control system, ROMANIA	Feasibility study, technical project	TRANSELECTRICA - ST PITESTI	TRANSELECTRICA - ST PITESTI / ROMANIA	Aug. 2004	F
11	400 kV OHL Gura Ialomitei-Lacu Sarat-Smardan, ROMANIA	HF transmission circuits: feasibility study, technical project, detailed design	TRANSELECTRICA - ST CONSTANTA	TRANSELECTRICA - ST CONSTANTA / ROMANIA	Dec. 2004	F
12	AIS 225 kV s/s Al Foursan, Syria	Detailed design: primary and secondary circuits	AREVA - ERT - FRANCE	PEGEET / SYRIA	Jan. 2005	F
13	AIS 500 kV s/s Pleiku - Shunt reactor bay, Vietnam	Detailed design: primary circuits	AREVA - ERT - FRANCE	EVN / VIETNAM	Jan. 2005	F
14	Retrofit protection system: mounting bus-bar differential protection 110 kV s/s Domnesti, ROMANIA	Basic design, detailed design, as built	ENEROPTIM / ROMANIA	ELECTRICA / ROMANIA	Feb. 2005	F
15	Protection, control, automation OHL 400 kV "Portile de Fier I" - Djerdap (Serbia), ROMANIA	Basic design, detailed design, as built	TRANSELECTRICA - ST CRAIOVA	TRANSELECTRICA - ST CRAIOVA / ROMANIA	April 2005	F
16	GIS 90/30 kV 5 s/s Tunisia	Detailed design: secondary circuits, as built	AREVA - ERT - FRANCE	STEG / TUNISIA	April 2005	F
17	AIS 90/30 kV s/s M'Bur, M'Bao - Senegal	Detailed design: secondary circuits, as built	AREVA - P&C - FRANCE	SENELEC / SENEGAL	Aug. 2005	F
18	GIS 400/220 kV 5 s/s Libya (ph. II & Ph. III), Libya	Detailed design: primary circuits	AREVA - ERT - FRANCE	GECOL / LIBYA	Feb. 2006	F
19	AIS 66/20/6.3 kV Al Balikh 2 s/s, Syria	Basic design, detailed design, as built	LENKER - GERMANY	LAND DEVELOPMENT ALEPPO / SYRIA	Nov. 2005	F

MPS ELECTRIC DESIGN - REFERENCE LIST

Crt. No.	Contract	Denomination	Customer	End user / Country	Date	Stage
20	GIS 225/20 kV s/s LYDEC, Morocco	Detailed design: secondary circuits, as built	AREVA - ERT - FRANCE	Lyonnais des Eaux / MOROCCO	May 2006	F
21	AIS 90/30/6 kV s/s Bel Air, Senegal	Detailed design: secondary circuits, as built	AREVA - P&C - FRANCE	SENELEC / SENEGAL	May 2006	F
22	AIS 220/110 kV Paroseni s/s, ROMANIA	Detailed design: secondary circuits, as built	HERBING SRL - ROMANIA	TRANSELECTRICA - ST TIMISOARA / ROMANIA	July 2006	F
23	AIS 330/132 kV s/s Niger Delta - Nigeria	Consultancy: Primary and secondary design	FICHTNER ROMANIA	NDPHC / NIGERIA	Jan. 2007	F
24	Hadramont electrification project, Lot 2 - Substations	Consultancy: Tender evaluations	FICHTNER GERMANY	Ministry of Electricity & Water, Public Electricity Corporation (PEC) / NIGERIA	Feb. 2007	F
25	AIS 66/20 kV Der Ezzor s/s, Syria	Basic design, detailed design, as built	LENKER - GERMANY	LAND DEVELOPMENT ALEPPO / SYRIA	July 2007	F
26	AIS 110/20 kV Ramnicu Valcea Nord & Ramnicu Valcea Sud, ROMANIA	Feasibility study	CEZ DISTRIBUTIE - ROMANIA	CEZ DISTRIBUTIE / ROMANIA	April 2007	F
27	GIS 132/33/11 kV s/s Mosta, Malta	Protection - Detailed Design for 132 kV Bays	AREVA - P&C - FRANCE	ENEMALTA / MALTA	Jan. 2007	F
28	AIS 110/20 kV Fetesti s/s, ROMANIA	Basic design, detailed design, as built	SIEMENS - ROMANIA	ELECTRICA / ROMANIA	Jan. 2007	F
29	220/110/20 kV s/s Tr. Magurele - Auxiliary AD/DC, ROMANIA	Detailed Design	MARSAT - ROMANIA	TRANSELECTRICA - ST BUCURESTI / ROMANIA	June 2007	F
30	AIS 110/6.3 kV, MV & LV distribution, Bulgaria	Basic design, detailed design, as built.	MARSAT - ROMANIA	AIS / BULGARIA	Jan. 2007	F
31	400 kV Axis Nord Project: Bacau Sud, Roman Nord, Suceava s/s - ROMANIA	Protection - Basic Design	AREVA - P&C - FRANCE	TRANSELECTRICA - ST BACAU / ROMANIA	May 2007	F
32	AIS 110/20 kV Ramnicu Valcea Nord & Ramnicu Valcea Sud, ROMANIA	Basic Design, Tendering Documents	CEZ DISTRIBUTIE - ROMANIA	CEZ DISTRIBUTIE / ROMANIA	Nov. 2007	F
33	400 kV Axis Nord Project: Bacau Sud, Roman Nord, Suceava s/s - ROMANIA	Protection & Control - Detailed Design	AREVA - Energietechnik GmbH - GERMANY	TRANSELECTRICA - ST BACAU / ROMANIA	Feb. 2008	F
34	400/220/66/11 kV GIS, 5 s/s, QATAR	Detailed Design -HV and CW part	AREVA - ERT - FRANCE	General Electricity and Water Corporation / QATAR	Feb. 2008	F
35	110 kV GIS s/s Port III CONSTANTA, ROMANIA	Basic & Detailed Design - HV, LV, CW part	MARSAT - ROMANIA	EDEL DOBROGEA / ROMANIA	April 2008	F
36	Retrofit of 110 kV AIS s/s Gutinas, ROMANIA	Basic Design - Protection Part, Control/Protection Panels design	AREVA - P&C - FRANCE	TRANSELECTRICA - ST BACAU / ROMANIA	July 2008	F

MPS ELECTRIC DESIGN - REFERENCE LIST

Crt. No.	Contract	Denomination	Customer	End user / Country	Date	Stage
37	400 kV GIS s/s Terga, ALGERIA	Detailed Design - HV part	AREVA - ERT - FRANCE	SKT / ALGERIA	July 2008	F
38	Aghios 400 kV GIS s/s, Greece	Control/Protection Panels design	AREVA - P&C - FRANCE	RODAX / GRECE	Sept. 2008	F
39	Aliveri 400/150/30 kV GIS s/s, Greece	Basic Design - Protection Part, Control/Protection Panels design	AREVA - P&C - FRANCE	METKA / GREECE	Nov. 2008	F
40	Thisvi 400 kV AIS s/s, Greece	Basic Design - Protection Part, Control/Protection Panels design	AREVA - P&C - FRANCE	EDISON / GREECE	Dec. 2008	F
41	New Abeoukuta 132/33 kV GIS s/s, Nigeria	Control/Protection Panels design	AREVA - P&C - FRANCE	NDPH / NIGERIA	Dec. 2008	F
42	220 kV AIS s/s Tariverde, ROMANIA	Basic Design - Protection Part, Control/Protection Panels design	AREVA - P&C - FRANCE	TRANSELECTRICA / ROMANIA	Feb. 2009	F
43	150/20 kV AIS s/s ILARION, Greece	Detailed Design - HV and LV part	RODAX - GREECE	PPC / GREECE	April 2009	F
44	500/525 kV, 50/60 Hz MELO AIS s/s, Uruguay	Detailed Design - HV and CW part	AREVA - ERT - FRANCE	UTE / URUGUAY	May 2009	F
45	220 kV AIS s/s Tariverde, ROMANIA	Integration, LV part, cables	EMON - ROMANIA	TRANSELECTRICA / ROMANIA	Aug. 2009	F
46	220/110 kV AIS s/s, Campia Turzii, ROMANIA	Basic Design - HV and LV part, Tender Books	TRANSELECTRICA - ST CLUJ	TRANSELECTRICA - ST CLUJ / ROMANIA	Oct. 2009	F
47	110 kV GIS s/s Brazi Vest, ROMANIA	Basic & Detailed Design LV part	ARO ROMANIA	TRANSELECTRICA / ROMANIA	Feb. 2010	F
48	AIS 132/33 kV s/s, Nigeria	Consultancy: Primary and secondary design	FICHTNER - ROMANIA	NDPHC / NIGERIA	Jan. 2010	IP
49	110/20 kV GIS s/s Slatina, ROMANIA	Basic Design - Detailed Design - HV and LV part	SIEMENS - ROMANIA	PIRELLI / ROMANIA	Oct. 2010	F
50	AONI 4 LOT 3B - Extension of Biskra 220 kV s/s, extension of Khenchela 220 kV s/s, Zribet Hamed 60/30 kV s/s, Zribet Hamed 220/60 kV s/s - Algeria	Detailed design HV and LV part	ETS-ALSTOM EGYPT	SONELGAZ / ALGERIA	Jan. 2011	F
51	400/225 kV AIS s/s Chemaia, Morocco	Detailed design HV part	ALSTOM - ERT - FRANCE	ONE / MOROCCO	Jan. 2011	F
52	400 kV bay Valea Nucarilor, Tulcea Vest - ROMANIA	Basic design, detailed design HV and LV part	ENERGOBIT - ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	Feb. 2011	F
53	LES 400 kV extension 400 kV s/s Tariverde, Sacele - ROMANIA	Basic design, detailed design HV and LV part	ENERGOBIT - ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	Feb. 2011	F
54	Project MEGA DEAL 400/132/11 kV s/s - NAINAWA 6x125 MW 9E and AL KHAIRAT 10x125 MW 9E Gas Turbines Power Plants, Irak	Detailed design HV and LV part	ALSTOM - ERT - FRANCE	Directorate General for Gas Power Plant Projects / IRAK	July 2011	F
55	Retrofit 110 kV bay Scortaru Vechi for 400/220/110/20 kV s/s Lacu Sarat, Scortaru Vechi - ROMANIA	Basic design, detailed design HV and LV part	ENERGOBIT - ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	Jan. 2012	F
56	220/110 kV s/s Targu Jiu, ROMANIA	Basic Design - Protection Part, Control/Protection Panels design	HERBING - ROMANIA	TRANSELECTRICA / ROMANIA	Feb. 2012	F

MPS ELECTRIC DESIGN - REFERENCE LIST

Crt. No.	Contract	Denomination	Customer	End user / Country	Date	Stage
57	Protection system for 110 kV s/s Lukoil and Teleajen, ROMANIA	Basic design, detailed design LV part	HERBING - ROMANIA	LUKOIL / ROMANIA	Feb. 2012	F
58	Retrofit 400 kV bay for 400/110 kV s/s Rahman, ROMANIA	Basic design, detailed design - HV and LV part	ENERGOBIT - ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	April 2012	F
59	220/110 kV s/s Cornea, ROMANIA	Basic design, detailed design - HV and LV part	ENERGOBIT - ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	April 2012	F
60	220/110 kV DIDUBE s/s - Basic design, DDE for control & protection panels - Georgia	Detailed design LV part	SCHNEIDER ELECTRIC P&C FRANCE	GSE / GEORGIA	May 2012	F
61	Metu 230/132/33/15 kV s/s, Jimma 230/132/15 kV s/s, Alaba 230/132/15 kV s/s, Hosaina 230/132/33/15 kV s/s - Etiopia	Detailed design HV and LV part	ETS-ALSTOM EGYPT	EEPC / ETHIOPIA	June 2012	F
62	BOUCLE D'ALGER - Dely Brahim 2 - 220/60 kV, 3x120 MVA, Tafourah 2 - 220/60 kV, 2x120 MVA - Algeria	Detailed design HV part	ALSTOM - ERT - FRANCE	GRTE / ALGERIA	Aug. 2012	F
63	500 kV GIS s/s BADR, Egypt	Detailed design HV part	ETS-ALSTOM EGYPT	EETC / EGYPT	Jan. 2013	F
64	BOUCLE D'ALGER - Eucalyptus - 60/30 kV, 40 MVA, Club des Pines - 60/30 kV, 40 MVA, Algeria	Detailed design HV part	SIEMENS FRANCE	GRTE / ALGERIA	Feb. 2013	F
65	Retrofit 400/110/20 kV s/s and connexion LEA 400 kV dc - Tulcea Vest, ROMANIA	Basic design, detailed design LV part	ALSTOM - ROMANIA	TRANSELECTRICA-ST CONSTANTA - ROMANIA	Apr. 2013	F
66	Telecommunication equipment relocation in 400/220/110/20 kV s/s Lacu Sarat, ROMANIA	Detailed design HV part	ALSTOM - ROMANIA	TRANSELECTRICA-ST CONSTANTA - ROMANIA	May 2013	F
67	220/60 kV, 120 MVA - BEZ & AIN s/s, Algeria	Detailed design HV part	SIEMENS FRANCE	GRTE / ALGERIA	June 2013	F
68	400/225 kV- AGADIR s/s, 400 kV- TANTAN II s/s, Morocco	Detailed design HV and LV part	ALSTOM - ERT - FRANCE	ONE MOROCCO	June 2013	F
69	330/161/20 kV AIS s/s DAVIE and 161/20 kV AIS s/s LEGBASSITO, Togo	Detailed design HV part	SIEMENS FRANCE	CEDEAO/ ECOWAS TOGO	July 2013	F
70	AL FAO 400/132/11 kV s/s, Irak	Detailed design HV part	ALSTOM - ERT - FRANCE	DGETP IRAK	Mar. 2014	F
71	Retrofit 220; 110/20 Kv s/s, Campia Turzii, ROMANIA	Detailed design LV part	ROMPROIECT ELECTRO- ROMANIA	TRANSELECTRICA-ST CLUJ / ROMANIA	Apr. 2014	F
72	400/225 kV LAAYOUNE s/s, Morocco	Detailed design LV part	ALSTOM - ERT - FRANCE	ONE MOROCCO	May 2014	F
73	LAKE TURKANA Wind Power and LOYANGALANI 400/33 kV s/s, Kenya	Detailed design HV part	SIEMENS SAS FRANCE	WORLEY PARSONS; KEMA	Jan 2015	F
74	Retrofit AC and DC circuits, control and protection system 220/110 kV s/s - Pestis, ROMANIA	Detailed design LV part	SCHNEIDER ELECTRIC ROMANIA	TRANSELECTRICA-ST TIMISOARA / ROMANIA	June 2015	F
75	SOUTH HELWAN 500 kV s/s, Egipt	Detailed design LV part	ALSTOM - ETS - EGYPT	EETC / EGYPT	June 2015	F
76	Retrofit 220/88 kV s/s MUZUMA and KAFUE TOWN, Zambia	Detailed design HV and LV part	ALSTOM - ERT - FRANCE	ZESCO ZAMBIA	July 2015	F
77	BAGHDAD West North 400/132/11 kV s/s, Irak	Detailed design HV part	ALSTOM - ERT - FRANCE	DGETP IRAK	Feb. 2016	IP

MPS ELECTRIC DESIGN - REFERENCE LIST

Crt. No.	Contract	Denomination	Customer	End user / Country	Date	Stage
78	ABOADZE 330 kV s/s, Ghana	Consulting, detailed design HV and LV part	ROENG TEC SA - ROMANIA	GRID CO / GHANA	May 2016	IP
79	AL MOSTASMEREEN 220/66/11 kV s/s, Egipt	Detailed design LV part	ALSTOM - ETS - EGYPT	EETC / EGYPT	June 2016	F
80	DANGJIN - GODEOK HVDC (PTP) converter station, Korea	Detailed design, HV part	GRID SOLUTIONS SAS-ERT- FRANCE	KEPCO / KOREA	Sep. 2016	IP
81	CYCLADES 4 GIS s/s, LAVRIO, MIKONOS, PAROS, SIROS, Greece	Detailed design- LV cable trays	GRID SOLUTIONS SAS-ERT- FRANCE	GRID SOLUTIONS SAS- GREECE	Oct. 2016	IP
82	SOUTH WEST link design, Sweden	As built documentation	GRID SOLUTIONS SAS-ERT- FRANCE	SWEDEN	Dec. 2016	F
83	SOUSSE 225 kV s/s, RADES 225 kV s/s, CHOTRANA (225/90 kVs/s), NABEUL 225 kV s/s, BEN AROUS (90/33 kV s/s)- 5 s/s Tunisia	Detailed design HV part	SIEMENS SAS FRANCE	STEG / TUNISIA	Jan. 2017	IP
84	HADERA, Israel	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	ISRAEL	Mar. 2017	F
85	HOLTZ, Israel	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	ISRAEL	Apr. 2017	F
86	HORNSEA, Great Britain	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	GREAT BRITAIN	Apr. 2017	F
87	DHIQAR, SAMAWA 400/132 kV s/s, Irak	Detailed design HV part	GRID SOLUTIONS SAS-DUBAI	MoE IRAK	Apr. 2017	IP
88	DURI KOSAIMBE, Indonezia	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	INDONEZIA	Apr. 2017	F
89	KHASIM, Saudi Arabia	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	SAUDI ARABIA	Apr. 2017	F
90	RAILWAY AY 72, AY73, Israel	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	ISRAEL	July 2017	F
91	BAGHDAD WN, Irak	LCC schematics/ modifications	GRID SOLUTIONS SAS-BHT- FRANCE	IRAK	Sept. 2017	F
92	EAST ENGLAND, Great Britain	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	GREAT BRITAIN	Sept. 2017	F
93	JAZAN, Saudi Arabia	LCC schematics/ update	GRID SOLUTIONS SAS-BHT- FRANCE	SAUDI ARABIA	Oct. 2017	IP
94	Retrofit 400 kV s/s - Isaccea, ROMANIA	Basic design, Detailed design LV part	ELECTROMONTAJ SA-ROMANIA	TRANSELECTRICA-ST CONSTANTA / ROMANIA	July 2017	IP

LEGEND: F=FINALIZED
IP= IN PROGRESS