

# SAE Power Lines srl

Reference list  
of the

**Electrical Transmission Projects  
in the world**

*Liste des références  
des*

***Projets de Transmission Electrique  
dans le monde***

## References Italy

Country / Client Pays / Client	Description and Scope of work Description et but du travail	Voltage Tension kV	Period Période
<b>Italy</b>			
ENEL	Misterbianco-Corriolo-Termini TL	380	1971-1972
ENEL	Rossano-Montecorvino TL	380	1973-1974
ENEL	Rossano-Montecorvino II & III TL	380	1975-1976
ENEL	Piastra-Magliano TL	380	1978
ENEL	Suvereto-Montalto di Castro TL (lot I).	380	1980-1981
ENEL	Porto Tolle-Forlì TL (lot II).	380	1980-1981
ENEL	Suvereto-Montalto di Castro TL (lot II).	380	1981-1982
ENEL	Porto Tolle-Forlì TL (lot III).	380	1981-1982
ENEL	Villanova-Foggia TL.	380	1983-1984
ENEL	Acciaolo-La Spezia TL.	380	1984-1985
ENEL	Marginone-Poggio a Caiano TL.	380	1984-1985
ENEL	Piccolo S. Bernardo-Avise TL.	380	1984-1985
ENEL	Villanova-Candia TL.	380	1984-1985
ENEL	Maintenance works on Messina crossing towers.	220	1987-1988
ENEL	Sandrigo-Udine TL.	380	1988-1990
ENEL	TL in the district of Palermo (Sicily) (2 lines).	20	1988-1989
ENEL	TL in the district of Sassari (Sardinia)	20	1988-1989
ENEL	Suvereto-Casal Valdicciola experimental line.	1050	1988-1990
ENEL	Borsellino-Favorita TL.	150	1990
ENEL	Brindisi-Foggia TL.	380	1990-1992
ENEL	Ciserano Link TL	380	1991-1992

## References Italy

<b>Country / Client <i>Pays / Client</i></b>	<b>Description and Scope of work <i>Description et but du travail</i></b>	<b>Voltage <i>Tension</i> kV</b>	<b>Period <i>Période</i></b>
ENEL	Various Compact Lines: - Castel Goffredo-Guidizzolo - Pisa-Livorno - Busto Arsizio-Castellanza - Poggio a Caiano-Pistoia - Venezia Nord-Mestre Barche - Venezia Nord-Mogliano - Camin-Battaglia - Derivazione di Arona - Raccordi di Pisa	132	1991-1992 1991-1992 1992-1993 1992-1993 1993-1994 1994-1995 1993-1994 1994 1993-1994
ENEL	TL in the district of Milan.	132	1991-1994
ENEL	Castelnuovo Scriveria Link TL.	132	1992-1993
ENEL	Ostiglia-Ferrara TL.	380	1992-1993
ENEL	Matera-S.Sofia TL (In consortium with Rebaioli. SAE 80%, Rebaioli 20%)	380	1993-1997
ENEL	Caorso-S. Damaso TL. (In consortium with Sirti, 50%)	380	1994-1996
FS (Ferrovie Dello Stato)	High Speed Project. Roma - Napoli section "Compact Lines"	150	1994-2000
ENEL	Rondissone-Castelnuovo TL.	380	1995-1996
ENEL	Rosara link.	220/380	1996-1997
ENEL	Cremona-Pontevico TL.	132	1997-1998
ACEA	Installation of medium and low voltage cables for the upgrading of Rome electrical network.		1997-1998
ENEL (for ENICHEM)	Ravenna Canala s/s – Ravenna power station TL.	132	1998-1999
ENEL Distribuzione	Reana – Buia "Compact Lines"	132	2003-2006

## References Europe

<b>Country / Client <i>Pays / Client</i></b>	<b>Description and Scope of work <i>Description et but du travail</i></b>	<b>Voltage <i>Tension</i> kV</b>	<b>Period <i>Période</i></b>
<b>Albania</b>			
O.S.T.	400/110 kV Substation and 110 kV OHTL from Zemblak S/S to Korca	110	2004
O.S.T.	400 kV Elbasan-Tirana 2 TL & 220/110 kV connections to Tirana 2 SS (* In consortium with Terna Rete Elettrica Nazionale - SAE share 80%)	400/220/ 110	2008 - 2010
<b>Greece</b>			
P.P.C.	400 kV Greece-Bulgaria, Cardia-Latymna, Larymna-Distomo. (S.C.B.).	400	1981-1984

## References Africa

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Algeria</b>			
SONELGAZ	El Jadjar – Jendouba s.c. twin bundle OHTL	400	2001 - 2002
SONELGAZ	Batna - Ain m' Lila s.c. twin bundle OHTL	220	2004 - 2005
GRTE/ SONELGAZ	Ksar El Azoudj - Bechar s.c. twin bundle OHTL	400	2006 – 2007
SONELGAZ	Batna – Ain Djasser, Mostaganem – ANB/MAO	220	2008 – 2009
SONELGAZ	KDL 30 - LOT 3 : DC T/L - Bourdim 1 & 2 SC T/L - Dessalement MBH-BWC Various T/L	400 220 60	2008 – 2012 (in progress)
SONELGAZ	KDL 31 - LOT 4 : SC T/L - Hassi Ameur 2 SC T/L - Dem Souk Tlala SC T/L - Zahana- Ghazaouet Various TL	400 220 220 60	2008 – 2012 (in progress)
SONELGAZ	KDL 42 - LOT 3 : SC T/L Kenchela - Cheria Khenchela-Kais, Oum el Bouaghi	220 60	2009 – 2012 (in progress)
<b>Benin</b>			
CEB	Benin – Togo Interconnection / Benin Togo Border – Djougou – Parakou s.c. OHTL	161	2006 – 2009
<b>Botswana</b>			
BPC	Morupule B – Phokoje OHTL and S/S	400 220	2010 – 2012 (in progress)
BPC	Morupule B – Isang OHTL	400	2010 – 2012 (in progress)
<b>Burkina Faso</b>			
D.G.M.O.K.	Kompienga Hydro Project SC TL	132	1984-1987
M.O.B.	Bagré-Tenkodogo TL	132	1992-1993

## References Africa

<b>Country / Client</b> <i>Pays / Client</i>	<b>Description and Scope of work</b> <i>Description et but du travail</i>	<b>Voltage</b> <i>Tension</i> kV	<b>Period</b> <i>Période</i>
<b>Congo</b> Ministere des Mines et de l'Energie	Brazzaville-Ngo/B.ville-Mindouli-Loudima; Mindouli- Bouenza Loudima-Louboma; B.ville-PK Rouge.	225	1984-1987
<b>Egypt</b> E.E.A.	Various lines.	220	1983-1984
C.E.I. (E.E.A.)	Various lines. Supply of towers.	220	1984-1985
E.E.A.	Various lines. Supply of towers.	220	1989-1990
<b>Egypt</b> E.E.A.	Abu Zabbal-Tabbin TL and 500 kV West diversion	500	1989-1991
<b>Ethiopia</b> E.E.L.P.A.	Various lines.	132	1988-1989
E.E.L.P.A.	Finchaa - Debre Marcos - Bahar Dar TL.	230	1988-1990
E.E.L.P.A.	Gibe Daka-Sabata TL.	230	1988-1990
EEPCo	Metu-Gambele TL.	230	2011 – 2013 (in progress)

## References Africa

<b>Country / Client</b> <i>Pays / Client</i>	<b>Description and Scope of work</b> <i>Description et but du travail</i>	<b>Voltage</b> <i>Tension</i> kV	<b>Period</b> <i>Période</i>
<b>Ghana</b>			
V.R.A.	Volta-Kpong-Akosombo SC TL.	161	1979-1980
V.R.A.	East Bank power supply extension project.	11	1980-1981
V.R.A.	Ghana-Ivory Coast Interconnection project.	225	1981-1982
V.R.A.	TL (and No. 5 S/S) in Northern Ghana.	161/34.5	1988-1993
V.R.A.	TL and medium/low voltage distr. (1,050 km) in Northern Ghana	161/34.5	1989-1993
CEGELEC for V.R.A.	Techiman-Wa TL	161	1994-1996
V.R.A.	Diversion of existing line at Tarkwa.	161	1996-1997
HOLEC for V.R.A.	Essiama - Takoradi TL.	161	1996-1997
V.R.A.	Aboadze - Prestea TL.	161	1996-1998
V.R.A.	Akosombo - Tafo TL. Turnkey project.	161	1996-1998
GNPC	Power Plant Barge Project Effasu-Tikobo-Essiama-Elubu TL (In consortium with Norelec)	161	1998-1999
VRA	Replacement of existing shieldwire with OPGW.	161	1999
VRA	Prestea – Obuasi s.c. twin bundle conductors OHTL	161	2000-2002
VRA	Kumasi – Ahafo - Sunyani d.c./s.c. twin bundle/single conductor OHTL	161	2005-2007
VRA	Package B - Substations	161	2007-2009
VRA	Kumasi – Obuasi Transmission Reinforcement Project. SC, twin bundle conductors OHTL and Extension of Obuasi & Ahafo S/S	161	2007- 2009
GridCo	Volta –Achimota TL and Substations Lots 1, 2, 3 (Equipment supply)	161	2010
Newmont Golden Ridge	Akyem Project – EPC of 161kV SC TL Nkawkaw - Akyem	161	2011-2012 (in progress)
Eiffage	Tumu-Han-Wa Transmission Line, 160 km	161	2012-2013 (in progress)

## References Africa

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Ivory Coast</b> E.E.C.I.	Rural electrification.	33/19/LV	1985-1986
<b>Libya</b> ELECTRICITY CORPORATION	Zuara – Abu Kammash TL	220	1976-1977
SECRETARIAT OF ELECTRICITY	TL in Benghazi area.	220/66	1982-1983
<b>Mali</b> SOGEM	Manantali – Kayes s.c. twin bundle conductors	225	1999-2001
<b>Morocco</b> O.N.E.	TL Supply of towers.	230	1982-1983
<b>Mozambique</b> E.D.M.	Cahora Bassa HVDC OHTL Project	+/-533	1970-1974
ESKOM	Cahora Bassa HVDC OHTL Project	+/-533	1971-1974
E.D.M.	Central and North Provinces s.c. TL (with substations) Phases I & II	220	1980-1986
E.D.M.	Infulene, Macia Lionde TL (with Xai-Xai substation).	110	1983-1984
E.D.M.	Gurue-Alto Moloque TL (with substation telecomm.).	110	1986-1989
E.D.M.	Chigadora-Nhatatanda TL.	110	1987-1989
E.D.M.	Electricity IV Project – Lot 2 220kV Chibata – Dondo TL	220	2011-2013 (in progress)
<b>Niger</b> NIGELEC	Niger-Nigeria Interconnection	132	1990-1993



## References Africa

<b>Country / Client</b> <i>Pays / Client</i>	<b>Description and Scope of work</b> <i>Description et but du travail</i>	<b>Voltage</b> <i>Tension</i> kV	<b>Period</b> <i>Période</i>
<b>Nigeria</b>			
N.E.P.A.	Contract ML5 (A) Kaduna-Jos TL	330	1974-1975
N.E.P.A.	Contract ML4 – Kainji-Lagos	330	1974-1976
N.E.P.A.	Contract MC3632– Jos-Gombe TL	330	1976-1979
N.E.P.A.	SC Jebba-Kaduna-Kano TL.	330	1977-1979
N.E.P.A.	SC Jebba-Oshogbo-Jebba TL and Eku River crossing.	330	1980-1981
N.E.P.A.	Benin-Ajaokuta TL.	330	1980-1982
N.E.P.A.	Egbin project TL.	330	1983-1986
N.E.P.A.	Kwale – Onitsha d.c., twin bundle conductors & Niger River Crossing, 800 m span In consortium with ABB Nigeria SAE share 70%	330	2002-2005
PHCN (N.E.P.A.)	Ikeja West – Benin Border s.c. twin bundle conductors In consortium with ABB Nigeria Sae share 80%	330	2004-2007
<b>Sierra Leone</b>			
MINISTRY OF ENERGY AND POWER	Bumbuna-Freetown TL Engineering, Procurement and Construction – Resumption and completion of the Project	161	2006-2009

## References Africa

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Tanzania</b>			
TANESCO	Iringa-Dodoma TL.	220	1983-1985
TANESCO	Mufindi-Mbeya TL (with substations).	220/33	1983-1985
TANESCO	Reactive Power Compensation.	220/33	1986-1987
TANESCO	Shinyanga-Tabora TL (with substations).	132	1987-1988
TANESCO	Musoma-Mwanza TL (with substations)	132	1987-1988
TANESCO	Rural electrification.	33/LV	1987-1990
TANESCO	Uganda-Tanzania Interconnection (with substations and distribution network).	132/33	1991-1993
TANESCO	Electricity IV Project OHTL 66 kV OHTL S.C.	66	1997-1999
TANESCO	Tanzania Energy Dev. & Access Expansion Project 132 kV OHTL Lot 2 & Substations Lot 1-3B	132	2010-2012 (in progress)
<b>Tunisia</b>			
S.T.E.G.	Various TL.	225/150/9 0	1983-1986
<b>Uganda</b>			
U.E.B.	Uganda-Tanzania Interconnection (with substations).	132	1992-1993
<b>Democratic Rep. of Congo</b>			
S.N.E.L.	DC Inga-Shaba TL.	+/-500	1974-1981
S.N.E.L.	Shaba network improvement (with substations).	220	1976-1981
S.N.E.L.	Kinshasa and Bas Zaire electrification. (Phase I and Phase II).	220/20	1983-1990
S.N.E.L.	Maluku-Mutiene-Bandundu TL.	132/220	1988-1992

## References North America

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Canada</b>			
British Columbia Hydro	Supply of towers (2,700 t).	500	1979-1980
Calgary Power Ltd.	Supply of towers (3,000 t).	500	1980-1981
<b>Mexico</b>			
Public Service Company Of New Mexico	SC TL Supply of towers (3,000 t).	345	1984
Comisión Federal de Electricidad (CFE)	Anahuac – Potosi d.c. three bundle conductors OHTL San Luis – Potosi s.c./d.c./q.c. Substation of Potosi Consortium with Techint, Isolux & ABB Mexico) – SAE Share 33%	400 230 400	2000-2002
Comisión Federal de Electricidad (CFE)	Manuel Moreno Torres - Juile d.c. twin bundle conductors OHTL  Consortium with Techint & ABB Mexico) – SAE Share 46%	400	2002-2004
<b>U.S.A.</b>			
V.E.P.CO.	SC 3 bundles conductor TL. Supply of towers (3,500 t).	500/230	1979-1980
SEMINOLE EL. CORP.	TL Supply of towers (2,100 t).	230	1980-1981
V.E.P.CO.	SC 3 bundles conductor TL guyed towers. Supply of towers (5,000 t).	500	1981-1982
C.P.L.	SC 3 bundles conductor TL. Supply of towers (9,500 t).	500	1981-1982
SAN DIEGO CA.	SC 2 bundles conductor TL. Supply of towers (7,000 t).	500	1982-1983
C.P.L.	SC TL Supply of towers (1,500 t).	500	1984-1985

## References Latin America

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Argentina</b>			
	Salto Grande Interconnection Argentina – Uruguay Supply of towers (25,000t)	500	1978-1979
AYEE	Rosario-General Rodriguez Supply of towers (2,500t)	500	1979-1980
SOINCO S.A.C.I.	220 kV T/L Agua del Toro – Gran Mendoza Supply of towers (1,800 t)	220	1981
HIDRONOR	500 kV T/L Norpatagonica S.A. Supply of towers (2,700 t)	500	1982
HIDRONOR	500 kV T/L Norpatagonica S.A. Supply of towers (2,800 t)	500	1983
HIDRONOR	Alicura-Abasto TL Supply of towers (2,300 t).	500	1983-1984
TEYMA	500 kV Rio III – El Bracio	500	1984
A.Y.E.E.	Rosario-General Rodriguez TL Supply of towers (2,500 t).	500	1989-1990
<b>Colombia</b>			
I.S.A.	S. Carlos-Sabana Larga TL Supply of towers (11,000 t).	500	1979-1980
E.E.E.B.	La Mesa Torca TL Supply of towers (2,000 t).	230	1981
I.S.A.	S. Carlos-Bogota TL Supply of towers (3,300 t).	230	1981-1982
ICEL	Popayan-Yumbo TL Supply of towers (2,000 t).	230	1983
ICEL	Popayan-Betania TL Supply of towers (2,700 t).	230	1984
C.V.C.	Pasto-Tumaco TL Engineering, supply and erection.	220	1991-1993

## References Latin America

<b>Country / Client</b> <i>Pays / Client</i>	<b>Description and Scope of work</b> <i>Description et but du travail</i>	<b>Voltage</b> <i>Tension</i> kV	<b>Period</b> <i>Période</i>
<b>Guatemala</b> INDE	Pueblo Viejo-Quixal TL. Supply of towers (3,500 t).	230	1980-1981
<b>St. Lucia</b> <b>Island</b> S.L.E.S.	Transmission system development project (equipped with optical shieldwire)	66	1988-1989
<b>Venezuela</b> EDELCA	SC Guru-Regional Central TL Supply of towers (9,000 t).	800	1980-1983

## References Middle East

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Iran</b>			
TAVANIR	Karun OHTL Project	400	1974-1977
TAVANIR	Arak – Rudeshur TL	400	1977-1980
K.W.P.A.	SC TL in Khuzestan area..	230/132	1977-1980
TAVANIR	Bandar Abbas-Sirjan SC 3 bundles conductor TL.	400	1977-1982
TAVANIR	Esfahan-Yazd SC 3 bundles conductor TL.	400	1980-1982
TAVANIR	Ahwaz-Kazerun SC TL. Engineering, supply and erection (two parallel lines).	400	1981-1983
TAVANIR	Sirjan-Yazd SC 3 bundles conductor TL. Engineering, supply and erection.	400	1982-1983
TAVANIR	Shiraz-Fasa-Sirjan SC 3 bundles conductor TL. Supply of towers (11,000 t) and other materials.	400	1983-1984
K.R.E.C.O.	SC TL.	132	1984-1986
K.R.E.C.O.	SC TL	132	1987-1989
K.R.E.C.O.	Gheshm island crossing. Engineering, supply, civil works and erection.	230	1989-1993
<b>Iraq</b>			
S.O.E.	Supergrid Project	400	1976-1978
S.O.E.	Contract T/40	132	1978
S.O.E.	Contract HT7/76	132	1979-1980
S.O.E.	Supergrid Project – Sect. 2.2	400	1979-1981
S.O.E.	SC/DC, twin conductor TL.	132	1979-1981
S.O.E.	Supergrid Project – Sect. 3.2 SC, twin conductor TL.	400	1981-1985
S.O.E.	Rural electrification SC network.	33	1982-1984

## References Middle East

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
S.O.E.	Mosul Dam-Mosul SC, twin conductor TL (equipped with optical shieldwire)	400	1984-1986
SNAM PROGETTI for S.C.O.P.	DC TL for Iraq-Saudi Arabia pipeline.	132	1985-1986
S.O.E.	Tasluja-New Sulaimaniya TL..	132	1987-1989
G.E.G.T.E.	Haditha-Al Qaim TL Replacement of the conductor and the shielwire.	400	1988-1989
<b>Kuwait</b>			
M.E.W.	TL Supply of towers. (22,000 t).	300/132	1985-1986
<b>Pakistan</b>			
W.A.P.D.A.	SC 3 bundles conductor Lyallpur-Guddu TL. Supply of towers (10,500 t).	500	1978-1979
W.A.P.D.A.	SC 3 bundles conductor Guddu-Jamshoro-Karachi TL. Supply of towers (8,500 t).	500	1980-1981
<b>Saudi Arabia</b>			
S.C.E.CO. WEST	Jeddah-Makkah DC Quad. Cond. TL.	380	1979-1981
S.C.E.CO. WEST	Jeddah-Makkah DC Twin. Cond. TL.	110	1979-1981
ELECTRICITY CORPORATION	Shubra Electrification project.	ML/LV	1980
ELECTRICITY CORPORATION	Qaseem Rural Electrification project.	132	1981-1983
ELECTRICITY CORPORATION	Hail electrification project.	132	1981-1984

## References Middle East

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
ELECTRICITY CORPORATION	Jawf electrification project (with substations).	132	1982-1984
ELECTRICITY CORPORATION	Qaseem Extension Phase III..	132	1983-1985
S.C.E.CO. CENTRAL	Al Quwayiyah electrification project (equipped with optical shieldwire)	132	1983-1985
S.C.E.CO. CENTRAL	AL Kharj electrification project (equipped with optical shieldwire)	380	1983-1985
S.C.E.CO. WEST	Makkah Ring TL.	380	1985-1986
S.C.E.CO. EAST	Shedgun-Ghunan TL, SC quad Bundle Faras-Qurrayyah TL, SC quad Bundle Shedgun-Qurrayyah TL, DC quad Bundle Ghunan-Dhahran TL, DC twin Bundle	380/230	1987-1989
S.C.E.CO. WEST	Rabigh-Makkah d.c. four bundle conductors TL	380	1988-1990
S.C.E.CO. CENTRAL	S/S 9009 – Riyadh d.c. four bundle conductors	380	1995-1997
SST for EPCON	380 kV d.c. four bundle conductors TL connecting Yanpet petrochemical plant to the National Grid.	380	1998-1999
ELECTRICITY CORPORATION	380 kV Hail-Qassim d.c. four bundle conductors TL.	380	1998-2000
<b>Turkey</b> T.E.K.	Goksun-Temelli s.c. three bindle conductors TL. (Contract in consortium with Cegelec and five local Companies)	380	1991-1993



## References Middle East

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<b>U.A.E.</b>			
<b>Abu Dhabi</b> WATER AND ELECTRICITY DEPT.	Bulk power transfer to the Isle of Abu Dhabi.	220	1985-1986
A.D.C.O. ADNOC	Bhuasa-Habshan TL.	132	1985-1986
WATER AND ELECTRICITY DEPT.	Zakher-Al Wagon TL.	220	1987-1989
WATER AND ELECTRICITY DEPT.	Al Taweelah Interconnection and power supply Al Ain	400 220	1990-1993
A.D.C.O.	Sahil-Asab-Shah TL. . Buhasa-Habshan stringing of one circuit (50km.).	132	1992-1994
A.D.C.O.	Bab-Asab 132 kV Transmission line.	132	1997-1999
SNAM- PROGETTI	N. 2 33 kV TL and underground power cables & OPGW for the new gas treatment plant in Asab.	33	1998-1999
<b>Yemen (P.D.R.)</b>			
PUBLIC CO. for ELECTRIC POWER	Hishwa-Abyan TL (with substation).	132 33	1987-1988

## References Far East

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>China (P.R.)</b> BECHTEL POWER Corp. USA End user: GUANGDONG GENERAL POWER CO.	Shajiao-Jiangmen s.c. quad bundle conductors TL, including Pearl River Overhead Crossing, d.c. twin bundle KT/ACSR conductors (crossing span 2.500 m).  Engineering, Procurement and Supervision to Construction	500	1986-1988
EAST CHINA EL. POWER ADMINISTR.	Shanghai TL Supply of towers (3,500 t).	500	1987-1988
EAST CHINA EL. POWER ADMINISTR.	Yang Tse River Overhead Crossing, d.c. quad bundle conductors (crossing span 1.820 m)  Engineering, Procurement and Supervision to Construction	500	1987-1988
<b>Indonesia</b> P.L.N.	Bandung-Cirebon-Ungaran s.c. quad bundle conductors TL	500	1982-1985
P.L.N./B.B.C.	Ungaran-Krian s.c. quad bundle conductor TL. Design & Supply of Towers (9,500 t)	500	1985-1986
P.L.N./B.B.C.	Cirata-Saguling d.c. quad bundle conductors TL Design & Supply of towers (2,000 t)	500	1986-1987
P.L.N./B.B.C.	Sagulin-Bandung and Cibinong-Bekasi, s.c. quad bundle conductors TL Design & Supply of Towers (5,000 t)	500	1986-1987
P.L.N./B.B.C.	Central Java TL. Supply of towers (1,500 t)	150	1988-1989
P.L.N./B.B.C.	North Sumatra TL. Supply of towers (8,000 t)	150	1989-1990

## References Far East

<b>Country / Client Pays / Client</b>	<b>Description and Scope of work Description et but du travail</b>	<b>Voltage Tension kV</b>	<b>Period Période</b>
<b>Malaysia</b>			
N.E.B. Kuala Lumpur Malaysia	Sungei Dua – Alor Star TL	132	1973-1976
MRCB-PNB (for TNB)	Bukit Tarek-Ayer Tawar d.c. quad bundle conductors TL  In consortium with Zelleco and ABB Malaysia	500	1995-1998
<b>Philippines</b>			
N.P.C.	Luzon Electrification Project. Design & Supply of Towers (1,800 T)	230	1979-1980
N.P.C.	Tayabas-Dasmarinas d.c. quad bundle conductors TL	500	1994-1997
N.P.C.	Leyte-Luzon HVDC TL. Bipolar, three bundle conductors, plus 36 Km of 20 kV electrode lines	+/- 350	1994-1998
N.P.C.	Northwestern Luzon Project: Engineering, supply and erection of: 500 kV Labrador-San Manuel TL and 500 kV San Manuel-San Josè TL (equipped with OPGW) 230 kV Sual Labrador TL	500 230	1996-1998

## References Far East

<b>Country / Client <i>Pays / Client</i></b>	<b>Description and Scope of work <i>Description et but du travail</i></b>	<b>Voltage <i>Tension</i> kV</b>	<b>Period <i>Période</i></b>
<b>Thailand</b>			
EGAT	Prachuap-Khiri Khan-Surat Thani TL.	230	1988-1990
EGAT	South Bangkok-Bangkok Noi TL.	230	1990-1991
EGAT	Lat Phrao-Bang Kapi - On Nuch TL.	230	1990-1992
EGAT	South Bangkok-Bang Phli TL and South Bangkok-Bangkok Noi modification.	230	1991-1993
EGAT	Sai Noi-Nong Chock TL. Partial engineering and supply, complete erection. 500 kV double circuit, quad. bundle conductors.	500	1994-1998
EGAT	The Greater Bangkok area Project. 500 kV double circuit quad. bundle conductors.	500	1998-2000
EGAT	Ban Pong 2 – Sai Noi d.c. quad bundle OHTL	230	2001 - 2002