

LIST OF LINES FITTED WITH ISELFA HARDWARE 33/500 kV FROM 1971 TO 2006

YEAR	CUSTOMER	VOLTAGE	NAME OF PROJECT	
1971	ENEL	Torino	380 KV	Musignano-Cislago-Bovisio
	ENEL	Torino	380 KV	Vado-Vignole-Borbera
	LINALUX	Charleroi (B)	150 KV	La Croyère-Feluy
	ENEL	Cagliari	150 KV	Palau-Codrongianus
	LINALUX	Charleroi (B)	150 KV	La Croyère-Gand
	SAE	Milano	200/120 KV	Congo-Mar-Ro
1972	ELECTRABEL	Bruxelles (B)	150 KV	Ruien-Gand
	ENEL	Firenze	132 KV	Suviana-Brasimone
	ENEL	Torino	220 KV	Turbigo-Parabiago-Ospiate
	ENEL	Roma	150 KV	Calbordolo-Rocca Priora
	ENEL	Torino	132 KV	Nervi-Recco
1973	ENEL	Venezia	380 KV	Suviana-Calenzano
	ENEL	Torino	380 KV	Branching off from S: Rocco at Porto Flero Line to Caorso Station
	ENEL	Torino	132 KV	Venaus-Oulx
	TRACTION	Bruxelles (B)	150 KV	Rodenhuize-Bruges
	TRACTION	Bruxelles (B)	150 KV	Buecht-Evijndrecht
1974	CESP	S. Paulo (BR)	460 KV	Ilha Solteira-Bauru-Embu-Guago
	ENEL	Torino	380 KV	Magliano-Piovasco
	ENEL	Torino	132 KV	Gravellona-Verbania
	ENEL	Torino	132 KV	Galliate-Cassalto
	ENEL	Cagliari	220 KV	Taloro-Ottana
1975	CESP	S. Paulo (BR)	460 KV	Capivara-Assis-Bauru
	ENEL	Venezia	380 KV	La Casa Rossa-Calenzano Station of Poggio to Caiano-Calenzano Nord Calenzano-Suvereto Line
	ENEL	Napoli	380/220/150 KV	Melilli Line
	ENEL	Torino	132 KV	Magliano-Alpi
	1976	ENEL	Napoli	380 KV
ENEL		Torino	380 KV	Vada-Cassanova to Magliano Alpi Station
ENEL		Torino	380 KV	Piastra-MaglianoPiovasco Piastra-Magliano 2nd Tern
ENEL		Napoli	220 KV	S. Ninfa-Palermo
SAE		Milano	220 KV	Zuara-Kammash (LYBIA)
TRACTION		Bruxelles (B)	150 KV	Geel-Oevel



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1977	SAE	Milano	400 KV	Planta Centro-La Arenosa La Arenosa-La Horqueta for CADAPE (VENEZUELA)
	SAE	Milano	330 KV	T.L for NEPA (NIGERIA) Consulting Eng: Motor Columbus
	ENEL ENEL	Torino	380/132 KV 1000 KV	Travagliato Line Experimental Line
1978	SAE	Milano	400 KV	Planta centro-Cabudabe for CADAPE (VENEZUELA)
	ENEL	Roma	150 KV	Alanno-Villa S. Maria
	ENEL	Napoli	150 KV	Galatina-Corpignano
	ELETROSUL	Florianapolis	500 kv	Salto Santiago System Consulting Eng.: Merz & McLellan
1979	SADELM	Milano	400 KV	Busher Project NTP/L2 (IRAN) Consulting Eng: Gilbert Commonwealth
	SEN	Milano	220 KV	Treviglio-Brescia Ovest
	ENEL	Torino	380 KV	Musignano-Cislago
	PPC	Athens (GR)	400 KV	Tension Assemblies
	SVECA	Caracas (VC)	400 KV	Planta centro-La Arenosa- La Horqueta St. Teresa-Diego de Lozada for CADAPE (VENEZUELA)
	CADAPE	Caracas (VC)	230 kv	S.to Domingo - Las Marochas
	MAGRINI GALILEO	Bergamo	230 KV	Assemblies for Columbia Station
	ENEL	Napoli	150 KV	Connection to Celusia Station
	SAE	Milano	400 KV	Busher Project NTP/L1 (IRAN) Consulting Eng. Gilbert Commonwealth
	ENEL	Venezia	380 KV	Suvereto-Calenzano
	SAE	Milano	380 KV	Jeddah-Makkah (SAUDI ARABIA) Consulting International
	SAE	Milano	330 KV	Transmission Line for NEPA (NIGERIA)
	SADELM	Milano	161 KV	Contract K9 (GHANA) Cons. Eng.: The Shawiningan Engineering Co.
	TIBB	Milano	110 KV	Transmission Line (VIETNAM)
INTERNATIONAL CONTRACTING	Mechelen (B)	150 KV	Rabat-Boionegoro (INDONESIA)	
SAE	Milano	132 KV	Substation SOE, Contract HT 3 (IRAQ)	



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YEAR	CUSTOMER	VOLTAGE	NAME OF PROJECT	
1979	GIE	Milano	90 KV	Taabo-Dimbokro (IVORY COAST)
	ENEL	Torino	380 KV	Station of Sermide
	SONELGAZ	Algeri (ALG.)	11 KV	Assemblies (ALGERIA)
	ABENGOA	Caracas (VC)	230 KV	Assemblies (VENEZUELA)
1980	SAE	Milano	33/11 KV	Assemblies (IRAQ)
	GIE	Milano	230 KV	Kalayaan Project (PHILIPPINES)
	ENEL	Torino	132 KV	Vignola-Borbera-Ovada
	ENEL	Torino	380 KV	Ostiglia-Martignone
	ENEL	Napoli	380 KV	Montalto di Castro-Valmontone
	ENEL	Napoli	380 KV	S. Lucia Aurelia
	UNERG	Namur (B)	70 KV	Clermont-Couvin
	TRACTION	Bruxelles (B)	70 KV	Schelles-Langerbrugge
1981	SAE	Milano	132 KV	Assemblies (ETHIOPIA)
	SAE	Milano	33 KV	Assemblies (IRAQ)
	ENEL	Napoli	380 KV	Gioia Tauro-Coriolo II
	SIETTE	Firenze	330 KV	Sapele-Benin II (NIGERIA)
1982	CMF	Livorno	230 KV	West Interconnection for TAVANIR (IRAN)
	SAE	Milano	33 KV	Assemblies (IRAQ)
	SAE	Milano	66 KV	Assemblies (LYBIA)
	SAE	Milano	132 KV	Qaseem Region (SAUDI ARABIA)
	CMF	Livorno	132 KV	Los Brasilien-Momotombo (NICARAGUA)
	ENEL	Napoli	220 KV	Caracoli-Partinico
1983	SAE	Milano	400 KV	Sirjan-Yazd (IRAN)
	SAE	Milano	400 KV	Shirez-Fasa-Sirjan (IRAN)
	SAE	Milano	500 KV	Bandung-Cirebon-Ungaran (INDONESIA)
	SAE	Milano	132 KV	Consulting Eng.: Merz & McLellan
	SAELMI	Milano	220 KV	Qaseem Region (SAUDI ARABIA)
	ENEL	Venezia	380 KV	Iringa-Dodoma (TANZANIA)
	ENEL	Venezia	380 KV	Marignone-Acciaiole
1984	ENEL	Torino	380 KV	Dugale-Nave
	SAE	Milano	132 KV	Rajsanjan-Amar (IRAN)
	SAE	Milano	132 KV	Pabedana-Sirch and Baft-Shahmara (IRAN)
	SAE	Milano	63 KV	Konarak-Chabahar (IRAN)
	SAE	Milano	220 KV	Mufindi-Mbeya (TANZANIA)

LIST OF LINES FITTED WITH ISELF A HARDWARE 33/500 KV FROM 1971 TO 2006

YEAR	CUSTOMER	VOLTAGE	NAME OF PROJECT
1985	MAGRINI GALILEO Bergamo	245 KV	Assemblies for WAPDA (PAKISTAN)
	SAE Milano	380 KV	Jeddah-Makkah (SAUDI ARABIA)
	SAE Milano	400 KV	Supergrid Proj. Earthwire assemblies (IRAQ)
	ENEL Torino	380 KV	Passo Piccolo S. Bernardo-Rondissone
	SAE Milano	132 KV	Ipsa-Project (IRAQ)
	BBC Mannheim (D)	500 KV	East Java Project (INDONESIA)
1986	SAE Milano	33/132 KV	Hiswa-Abyan (SOUTH YEMEN)
	SAE Milano	-----	Equipments for Stays (CHINA)
	BBC Mannheim (D)	500 KV	West Java Project (INDONESIA)
	SIME Milano	380 KV	Montalto di Castro-Alviano
	IZZI E SARACINI Roma	380 KV	Alviano-Leonessa
1987	SAE Milano	230 KV	Assemblies for SCECO EAST
	ENEL Napoli	380 KV	Completement of H.V. Lines
	SAE Milano	63 KV	Assemblies (ETHIOPIA)
	SAE Milano	132 KV	Power Interconnection Line (ABU DHABI)
	SAE Milano	132 KV	Mwanza-Musoma and Shinyanga-Musoma (TANZANIA)
1988	BBC Mannheim (D)	500 KV	West Java Project, Phase 2 (INDONESIA)
	BBC Mannheim (D)	500 KV	Fittings for substation (THAILAND)
	COMEI Milano	-----	Various Fittings for T.L (CUBA)
	ENEL Venezia	380 KV	Connection to Mantignone-Rubiera-Forli
	SAE SADELMI Milano	380 KV	Rabigh-Makkah (SAUDI ARABIA)
	SAE SADELMI Milano	66 KV	S.Lucia Electricity services (CARIBS)
1989	SAE SADELMI Milano	380 KV	Sandrigo-Udine - Part 1 & 2 (for ENEL)
	IMPRESA FRATE Treviso	380 KV	Sandrigo-Udine - Part 3 (for ENEL)
	ENEL Venezia	1000 KV	Experimental Span at Suvereto (n. 8 conductors)
	SAE SADELMI Milano	132 KV	Papua New Guinea T.L.
	SAE SADELMI Milano	66 KV	St. Lucia Transmission System (CARIBS)

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YEAR	CUSTOMER		VOLTAGE	NAME OF PROJECT
1990	ABB SCHALTANLAGEN	Mannheim (D)	110 KV	S/S SUDAN
	SAE SADELM I	Milano	66 KV	PERU
	ABB SCHALTANLAGEN	Mannheim (D)	500 KV	Equip. for S/S THAILAND
	ABB LEITUNGSBAU	Mannheim (D)	500 KV	GRESIK / INDONESIA (4 conductors)
	SIEMENS	Erlangen (D)	230/115 KV	S/E Las Marochas II (VENEZUELA)
1991	SAE SADELM I	Milano	230 KV	THAILAND
	SAE SADELM I	Milano	380 KV	ENEL Ciserano Line
	ABB LEITUNGSBAU	Mannheim (D)	500 KV	Paiton-Krian (INDONESIA) (4 conductors)
	ALCATEL ITALIA	Milano	380 KV	Fiume Santo-Selargius
	ALCATEL ITALIA	Milano	380 KV	Ferrara-Forli
1992	ABB LEITUNGSBAU	Mannheim (D)	500 KV	Paiton Krian (INDONESIA)
1993	ABB SAE SADELM I	Milano	500 KV	Cirata Cibatu (INDONESIA)
	Public Power Corporation	Athens (Greece)	400 KV	Overhead Wires
1994	ENEL	Venezia	380 KV	Caorso S. Damaso
	SIME	Milano	220 KV	for ENEL T.L
	ENEL	Napoli	220/132 KV	Open Order various Lines
	ABB SAE SADELM I	Milano	500 KV	Thailand
1995	ALCATEL ITALIA	Milano	380 KV	Rondissone lot A (for ENEL)
	ABB SAE SADELM I	Milano	380 KV	Rondissone lot B (for ENEL)
	ABB SAE SADELM I	Milano	350 KV	for N.P.C. PHILIPPINES Direct Current Line LEYTE-LUZON with electrode Line
1996	ENEL	Torino	132 KV	Various lines for Piemonte (Italy)
	TURBOTECNICA SpA	Firenze	132 KV	Taranto (Italy)
	GRUPO APYCSA	Mexico	400 KV	Project HERCULES Line - Mexico
	MITAS SA	Ankara (Turkey)	380 KV	Project H-128 TURKEY - TEAS
	TECHINT S.A de C.V.	Mexico	230 KV	TICUL and SONORA Lines - Mexico
	ENEL	Roma	380 KV	Various Lines for Lazio (Italy)
	ABB SAE SADELM I	Milano	132/66 KV	SIERRA LEONE
	AEG T&D	Frankfurt (D)	220/66 KV	PARAGUAY

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1997	ABB SAE SADELMI	Milano	33/66 KV	MOZAMBICO
	Public Power Corporation	Athens (Greece)	400 KV	Reinforced section
	ABB ENERGIEANLAGENBA	Mannheim (D)	150 KV	PT INCO INDONESIA
	TECHINT S.A DE C.V	Mexico	400 kV	HERCULES Project Mexico
1998	CAMARGO CORREA	Brasil	525 kV	Salto Caxias - Salto Santiago COPEL - Brasil
	TECHINT S.A DE C.V	Mexico	400 kV	Tula-Queretaro-Salamanca Mexico
	TECHINT S.A DE C.V	Mexico	400-230-115 kV	EL-HABAL Project - Mexico
	ABB SISTEMAS S.A DE C.V	Mexico	230-400 kV	MERIDA Line
	SCECO WEST	Arabia Saudita	380 KV	Expansion of Line
	ENEL SIN VENEZIA	Venice	380 kV	Raccordo di VILVALLE
1999	NAZIR & Co. Ltd	London U.K	220 KV	LYBIA GECOL OHTL Project
	COMMISSIONING Italia Spa	Milan	115 KV	EL SALVADOR
	ABB SISTEMAS	Mexico	230/400 KV	Merida and Valladolid Tcul Lines
	PPC	Athens - Greece	400 KV	Overhead Line fittings
	TECHINT	Mexico	230 KV	CFE - EI - Habal
	2000	WAPDA	Pakistan	500 KV
ABB CALOR EMAG SHALTANLAGEN AG		Germany	500 KV	GHAZI BAROTHA (PAKISTAN)
2001	ENELPOWER DO BRASIL	Brasil	500 kV	SERRA DE MESA GOVERNADOR - MANGABEIRA (Brasil)
	ABB T&D SAE	Italy	400 kV	EL ADJAR - JENDOUBA (Algeria)
	ALUSA SCHAHIN	Brasil	500 kV	CAMPOS NOVOS - BLUMENAU (Brasil)
	EAC Electricity Authority of Cyprus	Cyprus	132 kV	Varios fittings for Cyprus

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2002	T.E.R.NA Gruppo ENEL Direz. ROMA	Italy	132-220-380 kV	Varius Fittings
	ABB Utilities GmbH	Germany	500 kV	Indonesia New Klaten - Rawalo Baru-New Tasikmalaya
	TECHINT S.A de C.v.	Mexico	400 KV	LT 506 Saltillo - Cañiada
	ATSCO	Tunisi	220/66 kV	Gecol - Lybia
	ABB SOLUTIONS	Mexico	400 KV	409 Pidiregas Manuel Moreno Torres
	ENELPOWER	Milan	400 kV	Algeria - 4 lot Hassi Ameur-Bourdim
	AMSA-COBRA	Mexico		Manuel Moreno Torres Red Asociada (2^ etapa) Manuel Moreno Torres Juile
2003	ATSCO	Tunisi	220/66 kV	Gecol - Lybia
2004	TECHINT S.A de C.v.	Mexico	230-400 kV	Mexico LT 609 NOR. (CENTROS COMUNES) LT Louisiana - La Higuera LT Pueblo Nuevo - Lousiana LT Mazatlam II - Tepic II
	TERNA Spa - Gruppo ENEL	Italy	132 - 220 - 380 k	High Tension Line
2005	ELECTROMONTAJ S.A.	Romania	220 KV	CYPRUS
2006	P.P.C.	Greece	400 KV	