

Major Construction Management Projects and Services Currently underway

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Country	Project	Main Features		Services Provided				Period	
		Type of plant							
ANGOLA	Biopio	gas turbine	28,5 MW	A	D E	H		1994	1999
BANGLA DESH	Fenchuganj	gas fired cogenerative plant	3x12 MW	A	E	H L		1961	1964
BRASIL	Igarapè	oil fired than converted to coal	125 MW	A B C D E F G H	L			1973	1980
BRASIL	Presidente Medici	oil fired	2x160 MW		D E F G H	L		1975	1980
BRASIL	Lacerda III	oil fired	2x125 MW	B	D E F G H	L		1978	1980
BRASIL	Lacerda IV	oil fired	1x335 MW	A B	D E F G H	L		1981	1983
BRAZIL	Transmission and substation system of Macapa	138 kV, 110 km+69 kV, 15 km+35 kV, 35 km+13,8 kV, 150 km+ three substations,95 MVA	225 MW		B C D E F G H	P		1965	1978
BRASIL	Passo Fundo	Hydroelectric Power Plant			C D E F G H	L		1968	1972
BRASIL PARAGUAY	Transmision system of Itaipù	550 kV d.c., 68 km + 18/550 kV substations, 14427 MVA +550/230/66 kV, 1175 MVA			C D E F G H	L P		1980	1988
BRASIL PARAGUAY	Control system of Itaipù generation and transmission systems	SCADA system for three 550 kV substations, transform substation and 13300 MW power plant			B C D E F G H	L P		1985	1992
BRASIL PARAGUAY	Itaipù	hydroelectric project reservoir concrete buttress dam 18 units (each) energy yearly production	12600MW 29000 Mm3 h=196 m 700 MW 75000 GWh		C D E F G H	L P		1970	1997
COLOMBIA	Substations of Tolima	175 MVA			D E F	H L P		1968	1974
COLOMBIA	Rio Prado	Multipurpose Hydroelectric Project	55 MW		E F G H	L		1969	1973
DJIBOUTI	Ali Sabieh	Water supply system	30 km	B	D F	H L		1988	1992
DOMINICAN REPUBLIC	Rio Blanco	Hydroelectric project	25 MW		D F G H	L		1985	1994
EGYPT	Damietta	combined cycle	3x430 MW	B C D	F H			1990	1993
ECUADOR	Daule Peripa	Hydroelectric Plant	210 MW		G H	L P		1996	1999
EL SALVADOR	Ahuachapan I, II and III	geothermal single pressure	2x30+1x35 MW	A B C D E F G H	L			1971	1981
ETHIOPIA	Gilgel Gibe	Hydroelectric project	180 MW		C D E F G H			1995	2002
GEORGIA	Khrami II and Lajanuri	Rehabilitation of Hydro projects	110+115 MW		D E	H L M		1997	2003

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		Type of plant		A	B	C	D	E	F	G	H	L	M	P	V	Z		
HONDURAS	Transmission and substation system of Fourth Power Project	138 kV, 397 km+69 kV, 80 km+fifteen substations,346 MVA			B		D	E	F	G	H	L		P			1971	1975
HONDURAS	Transmission system for Honduras-Nicaragua interconnection	220/138 kV, 150 km+two substations,170 MVA		A	B	C	D	E	F	G	H	L		P			1972	1977
INDONESIA	Darajat	geothermal	55 MW						F	G	H	L		V			1992	1996
INDONESIA	Distribution system of Ujung - Pandang	Transmission lines, 18 km+distribution lines, 306 km+substation, 59 MVA + 75000 users		A			D	E	F	G	H	L	M				1985	1988
INDONESIA	Transmission & Distribution of North Sumatera	Transmission lines, 228 km+distribution lines, 810 km+ five substations 150/20 kV, 23 MVA + 50000 users		A			E	F		H	L						1988	1992
INDONESIA	Rural electrification, INDECEL project	20/0,4 kV pole mounted SS+ 20 kV line, 80 km + 50000 users					C	D	E	F	G	H	L				1990	1993
INDONESIA	Substation of Darajat	Step-up, double bus bars, 70 MVA								H	L			V			1992	1994
INDONESIA	Trasmission and substations of South Sumatera	150 kV, 122 km+five substations		A			E	F		H	L						1995	1998
INDONESIA	Rural electrification, second project, three tap substations	30 MVA					D	E		G	H			P			1996	2000
INDONESIA	Transmission project of Greater South Sumatra	275 kV lines, 68 km+150 kV lines, 116 km		A			E	F		H	L						1997	2000
INDONESIA	Lombok	Groundwater Irrigation development	1700 ha								H						1988	1992
INDONESIA	Java and Sulawesi	Groundwater Irrigation development	4750 ha				D	E		H				P			1988	1991
INDONESIA	Bali Province	Irrigation development	40000 ha	A			D	E		H							1995	2001
IRAN	Substation of Dez plant; rehabilitation project	230 kV, 12 feeders								H	L	M		V			1992	1992
IRAN	Karkeh	Hydroelectric projects					D	E		H							1997	1999
ITALY	Cassano d'Adda	oil fired	1x75 MW				D	E	F	G	H	L					1958	1963
ITALY	Porto Empedocle	oil fired	2x75 MW				D	E	F	G	H	L					1959	1965
ITALY	Ponti sul Mincio	oil fired	1x80 MW				D	E	F	G	H	L					1964	1967
ITALY	Salionze	oil fired	1x80 MW		B	C	D	E	F	G		L					1964	1967
ITALY	Milano	Exhibition Center	63000 m2								H						1995	1998

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Country	Project	Main Features		Services Provided	Period
		Type of plant			
ITALY	Dispatch Center for three municipal electric companies of North Italy	Minisystem load dispatch center controlling 23 peripheral units		B D E H	1984 1988
ITALY	Menta multipurpose project	rosckfill dam water supply	yearly h=90 m 37 Mm3	B D F H L V	1976 1999
ITALY	Braulio	Hydroelectric plant	21 MW	H	1985 1988
ITALY	Dispatch center of AEM Milano power plants in Valtellina	Central station to telecontrol and supervise 39 remote stations		B D E H	1986 1988
ITALY	Dispatch center of Montedison electric system	Dispatch center for generation and transmission system		B D E F G H L	1970 1975
ITALY	Lighting system of Milan; renovation project	8600 lighting points+180 beacons+270 km supply lines+148 km cable trays		A D E F H	1989 1991
JAMAICA	Transmission & Distribution expansion programme	138/69 kV lines, 174 km+four substations, 80 MVA		B D E F G H P	1978 1993
JAMAICA	Transmission Line of Rockfort expansion programme	69 kV lines, 20 km+three 69 kV substations		B D E G H L	1994 1996
LAOS	Nam Ngum	irrigation project	1800 ha	D E H	1990 1994
LAOS	Nam Houm	irrigation project	10000 ha	D E H	1989 1992
NICARAGUA	Momotombo 1, 2	geothermal single pressure	2x35 MW	A B C D E F G H L	1974 1983
NICARAGUA	Transmission and substations: national interconnected system	138/25 kV lines, 461 km + ten substations, 338 MVA		A B C D E G H L	1963 1974
NICARAGUA	Transmission system for Honduras-Nicaragua interconnection	230 kV line, 75 km+ substations 230/138,150 MVA		B D E F H L	1972 1977
NICARAGUA	Distribution system of Managua	138 kV line, 58 km+ 13,8 kV line, 200 km+four substations,230 MVA+42000 new users		B D E F G H L	1972 1977
NICARAGUA	Santa Barbara	hydroelectric plant	54 MW	C D E F G H L	1969 1972
NICARAGUA	Transmission system for interconnection with Costarica	230 kV line, 130 km+ one substation,150 MVA		B D E F G H L	1977 1981
PAKISTAN	Kotri	gas turbine	2x15 MW	D E F G H L	1968 1970
PAKISTAN	Guddu	gas and oil fired	2x110 MW	A E F G H L	1967 1974
PANAMA	Bahia Las Minas	oil fired	2x40+1x75 MW	A B C D E G H L	1970 1976

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PANAMA	S. Francisco	diesel unit	4x6 MW	D E F H	1973 1975
PANAMA	Transmission system of Las Minas Bay	115 kV line, 60 km		B D E F G H L	1966 1973
PARAGUAY	Transmission system of Central Paraguay	220 kV line, 305 km+ three substations, 207 MVA		B D E F G H L	1961 1969
PARAGUAY	Acaray	hydroelectric plant	100 MW	C D E F G H L	1968 1972
PARAGUAY	Distribution system of Asunción	66 kV line, 55 km+ 24/6 kV line, 150 km + five substations, 96 MVA		B D E F G H L	1961 1969
PERU'	Majes	irrigation project conveyance works irrigated land	100 km 3000 ha	H L P	1984 1992
PERU'	Aguada Blanca	dam for irrigation project		C D E F G H L	1968 1970
PERU'	Charcani V	Hydroelectric plant	100 MW	C D E F G H L	1982 1985
PERU'	Mantaro	Hydroelectric plant	500 MW	C D E F G H L	1968 1972
PHILIPPIN ES	Bataan I, II	oil fired	1x75+1x150 MW	B D E F G H L	1963 1976
PHILIPPIN ES	Cebu	coal and oil fired	1x50 MW	D E F G H L	1975 1978
PHILIPPINES	Transmission&Distribution system of Mindanao	138/69 kV lines, 1010 km+ fourteen substations, 745 MVA		D E F G H L P	1972 1977
PHILIPPINES	Kalayaan I	pumped storage plant	300 MW	C D E F G H L	1975 1982
PHILIPPINES	Agus VII	hydroelectric plant	50 MW	D E F G H L	1979 1982
PHILIPPINES	Palawaan II	irrigation project	4500 ha	F H	1992 1995
PHILIPPINES	Malitubog Maridagao	irrigation project conveyance works irrigated land	190 km 13100 ha	C D E H V	1991 1994
PHILIPPINES	Control system of Kalayaan plant and substation	SCADA, storing, computing and operator help functions with PLC units		B C D E F G H L	1975 1982
THAILAND	Krabi 2	lignite fired	1x90 MW	C D E F G H L	1984 1988
THAILAND	Chiew Larn	hydroelectric multipurpose	240 MW	C D E F G H L	1982 1986
URUGUAY	Distribution system of Montevideo and inland	MV lines, 553 km+LV lines 270 km+ MV substations, 30 MVA+340 distribution substations, 34 MVA		A B C D E F G H L	1976 1987
URUGUAY	Dispatch center of UTE	Dispatch center to control national electric system		B D E F H	1977 1987
VIETNAM	Distribution rehabilitation in three cities	HV lines, 50 km+MV transmission lines, 230 km+ MV distribution lines,1200 km+ 115/22 kV substations		A B E H L	1997 2001

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ZAIRE	Transmission system of Western Zaire	220/132/70 kV lines, 790 km+six substations, 645 MVA	B C D E F G H L	1968 1972
ZAIRE	Dispatch center of Kinshasa	Dispatch center to control generating plants and transmission system	B C D E F G H L	1970 1975