

Major Thermal Projects and Services Currently Underway

A=Basic studies, Technical Advise	F=Detailed Design or Review of Design	M=Refurbishment, Repowering
B=Preliminary Design, Master Plan	G=Worshop testing, Expediting	P=Procurement
C=Feasibility study	H=Construction Supervision, Management	V=Environment studies
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Country	Project	Main Features		Services Provided	Period
		Type of plant	(MW)		
ALGERIA	Mers El Hadjadj civil works	gas and oil fired	3x168	F	1977 1978
ANGOLA	Biopio	gas turbine	28,5	A D E H	1994 1999
ARGENTINA	Copahue	geothermal non condensing	1X50	B C D	1980 1980
BANGLA DESH	Fenchuganj	gas/oil fired cogenerative plant	3x12	A E H L	1961 1964
BRASIL	Lacerda II	oil fired	2x66	F	1970 1973
BRASIL	Charqueadas	coal fired	1x72	A	1969 1970
BRASIL	CESP	coal/oil fired	4x320	A B C	1975 1976
BRASIL	ELETROSUL	coal fired	4x330	A B	1972 1977
BRASIL	Alegrete	conversion to coal	2x32	A C I	1970 1971
BRASIL	Sao Paulo	waste to energy	3x40	A C D	
BRASIL	Curitiba	waste to energy	3x20	A C	
BRASIL	Sao Paulo	combined production of energy and ethanol with bagasse	1x160	B C	
BRASIL	Tubarao	coal gasification		A B C D E F	
BRASIL	Carioba	conversion to methanol	2x15	A B D I	
BRASIL	Igarapè	oil fired than converted to coal	125	A B C D E F G H L	1973 1980
BRASIL	Presidente Medici	coal fired	2x160	D E F G H L	1975 1980
BRASIL	Lacerda III	coal fired	2x125	B D E F G H L	1978 1980
BRASIL	Lacerda IV	coal fired	1x335	A B D E F G H L	1981 1983
CHAD	N'Djamena	diesel unit	4x6,5	B C	1976 1976
CHILE	Bocamina	coal fired	1x125	A F	1969 1972
CHILE	El Tatio	geothermal single pressure	1x15	A B C	1974 1975
CHINA	Yangbajing	geothermal single pressure/ non condensing	1x10	A B C	1983 1985
COLOMBIA	Barrancabermeja	gas and oil fired	2x12	B D	1962 1963
COLOMBIA	Barranquilla	gas and oil fired	1x33	B C	1962 1964
COSTARICA	Miravalles	geothermal single pressure	2x55	C D E	1983 1989
CSI	Increase efficiency of thermal plants	various plants		A B	1998 1998

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DOMINICAN REPUBLIC	Yayas Costanza	geothermal field		A B	1983 1984
EGYPT	Damietta	combined cycle	3x430	B C D F I	1990 1993
EL SALVADOR	Ahuachapan I, II and III	geothermal single pressure	2x30+1x35	A B C D E F G H L	1971 1981
EL SALVADOR	Berlin	geothermal single pressure	1x55	B C	1980 1981
ETIOPIA	Langano	geothermal single, back p.	2x15+2x3,5	B C	1982 1986
GUATEMALA	Moyuta	geothermal field		A B	1975 1977
GUATEMALA	Zunil	geothermal single pressure	1x15	B C	1980 1982
INDONESIA	Gunung-Salak	geothermal single pressure	2x55	B C D E	1985 1988
INDONESIA	Gresik	cogeneration	3x7,5	D E F	
INDONESIA	Steam price policy	geothermal		A	1991 1992
INDONESIA	Kotamabagu	geothermal field		A B	1981 1982
INDONESIA	Darajat	geothermal	55	F G H L V	1992 1996
INDONESIA	Private geothermal and CC plants	geothermal+combined cycle		A D E	1995 1996
INDONESIA	IPPs of geothermal power	geothermal		A	2000 2001
IRAN	Pareh Sar CCGT	combined cycle	900	F	2002
IRAQ	Al Anbar	gas and oil fired	4x300	D E	1986
ITALY	Fusina	combined cycle	140	A C D E	1989 1993
ITALY	Cassano d'Adda 1	revamping to combined cycle	1x105	A B D E F	1995 1998
ITALY	Cassano d'Adda 2	revamping to combined cycle	1x450	A C D E	1996 1999
ITALY	Cairo Montenotte	combined cycle	800	A B	2000 2001
ITALY	Filago	combined cycle	800	A B	2000 2001
ITALY	Pavia	gas turbine+district heating	21	A B C	1982 1986
ITALY	Vicenza	gas turbine+ diesel units+ district heating	7+2x4	A B C D E	1982 1986
ITALY	Cassano d'Adda	oil fired	1x75	D E F G H L	1958 1963
ITALY	Porto Empedocle	oil/gas/coal fired	2x75	D E F G H L	1959 1965
ITALY	Ponti sul Mincio	oil/gas/coal fired	1x80	D E F G H L	1964 1967

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ITALY	Caorso civil works	nuclear	1x840	D E F H	1970 1977
ITALY	Cirene civil works and auxiliaries	nuclear (pilot plant)	40	F G L	1985 1986
ITALY	Salionze	oil fired	1x80	B C D E F G L	1964 1967
ITALY	Marghera	oil fired	1x60	A D	1957 1958
ITALY	Vulcano	geothermal water/energy	1x5,5	B C	1979 1980
ITALY	Ischia	geothermal binary cycle	1	B C	1980 1981
ITALY	Lipari	desalination	1100 m3/d	B D	1966 1967
ITALY	Ustica	desalination	600 m3/d	B D	1966 1967
ITALY	Sulcis	coal water with local coal		A B	1986 1987
ITALY	Mofete	geothermal single pressure	2x50	B C	
ITALY	Latera	geothermal double pres/binary	1x30	A B C F	1988 1989
JORDAN	Aquaba cooling system	oil fired	2x130	F	1984 1985
LYBIA	Sarir	gas turbine+ diesel units	6x50+13x27	C	1980 1981
MEXICO	Cerro Prieto I, II, III	geothermal single&double p.	2x38+4x110	B D E F	1968 1982
MEXICO	Tejamaniles	geothermal condensing	1x55+5x5	A B C D E	1980 1981
MEXICO	Los Azufres	geothermal single pressure	1x55	B C	1977 1979
MOLDOVA	Orhei and Chishinau	rehabilitation and new cogenerative plant		A C	1999 1999
NICARAGUA	Managua	oil fired	60	C	1970 1970
NICARAGUA	Momotombo 1, 2	geothermal single pressure	2x35	A B C D E F G H L	1974 1983
OMAN	Rusail	gas turbine	2x100+1x100	E F	
PAKISTAN	Multan	gas and oil fired	2x65	F	1956 1958
PAKISTAN	Kotri	gas turbine	2x15	D E F G H L	1968 1970
PAKISTAN	renewable energy	solar collectors and photovoltaic	20+30+3 kW	B C D	
PAKISTAN	Guddu	gas and oil fired	2x110	A E F G H L	1967 1974
PAKISTAN	Quetta	coal fired	2x7,5	A B D E	1968 1972
PANAMA	Bahia Las Minas	oil fired	2x40+1x75	A B C D E G H L	1970 1976
PANAMA	S. Francisco	diesel unit	4x6	D E F H	1973 1975

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PERU'	IQUITOS	oil fired	2X10	G	1975 1977
PERU'	Pucallpa	oil fired	2X10	G	1975 1977
PHILIPPIN ES	Bataan I, II	oil fired	1x75+1x150	B D E F G H L	1963 1976
PHILIPPIN ES	Cebu	coal and oil fired	1x50	D E F G H L	1975 1978
PHILIPPIN ES	Manito	geothermal field		B	1978 1979
PHILIPPIN ES	Montelago	geothermal field		B C	1980 1981
PHILIPPIN ES	Daklan	geothermal field		A B C	1975 1981
PHILIPPIN ES	Mindanao	coal and oil fired	1x150	A D	1975 1975
QATAR	Ras Abu Fontas "B" civil works.	gas turbine	3X164	F	1994 1995
SYRIA	Al Nesserien	gas turbine	3x128	A	1995 1996
THAILAND	Krabi 2	lignite fired	1x75	C D E F G H L	1984 1988
TOGO BENIN	Lomè, Kpemè, Cotonou	diesel units	14+12+9	A B	1976 1976
TUNISIA	Sidi Mansour BOP	gas turbine	1x130	B D	1994 1994
TUNISIA	Bir Micherga BOP	gas turbine	2x130	B D	1994 1994
TURKEY	Seytomer civil works	lignite fired	2x150	F I	1970 1972
URUGUAY	Punta Pedregal	combined cycle	250	A C D	1982 1983
URUGUAY	Battle e La Tablada	combined cycle+gas turbine	280+2X120	E I M	2001 2003
YEMEN	Dhamar	geothermal field		A B	1980 1981