

MACCHITM

STEAM & POWER GENERATION

A DIVISION OF SOFINTER S.p.a.



REFERENCE LIST

Operation Headquarters:

Largo Buffoni, 3 - 21013 Gallarate (Va) - Italy

Tel. +39 0331 738111 Fax +39 0331 738377 E-mail macchi@macchiboiler.it Web site www.macchiboiler.it

JULY 2007

MACCHITM

STEAM & POWER GENERATION

A DIVISION OF SOFINTER S.p.a.

FIRED BOILERS

“TITAN M” Model

“MVF” Model

“MRD” Model

HEAT RECOVERY STEAM GENERATORS

PROCESS - WASTE HEAT BOILER

FOSSIL FIRED BOILER

BOILER REVAMPING, LIFE EXTENSION, UPRATING & UPGRADING

FUEL CONVERSION

LIFE ASSESSMENT

TRAINING

TURN KEY

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
SIDEM FRANCE	GECOL LYBIA	DERNA / SOUSSA / ZAWIA LYBIA	8	126	30	sat	Gas / Oil	Desalination Plant	2009
ARABIAN BEMCO CONTRACTING SAUDI ARABIA	SAUDI ARAMCO SAUDI ARABIA	JUAYMAH SAUDI ARABIA	1	252	58	394	Gas	Gas Plant	2009
SNAMPROGETTI ITALY	SAUDI ARAMCO SAUDI ARABIA	KHURAI SAUDI ARABIA	3	140	15	185	Natural Gas Sour Gas	Water Injection Facilities / Utilities	2008
DAELIM Ind. Co. S. KOREA	DAELIM Ind. Co. S. KOREA	AL JUBAIL SAUDI ARABIA	3	176	54	415	Gas	Aromatic Plant	2008
CHIYODA - TECHNIP JOINT VENTURE	EXXON MOBIL MIDDLE EAST Ltd. QATAR	RAS LAFFAN QATAR	2	240	56	384	Gas	Gas Plant	2008
EDISON S.p.A. ITALY	EDISON S.p.A. ITALY	SETTIMO TORINESE (TO) ITALY	1	60	30	236	Gas	Cogeneration Plant	2008
SIPCHEM SAUDI ARABIA	SIPCHEM SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	200	60	405	Gas	Ethylene Plant	2008
SIDEM FRANCE	MINISTRY OF ENERGY&WATER BAHRAIN	NUHARRAQ ISLAND BAHRAIN	3	257	21	sat	Gas	Desalination Plant	2007
LINDE AG GERMANY	TASNEE PETROCHEMICALS Co. SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	210	75	490	Gas / Oil	Ethylene Plant	2007
CHIYODA - TECHNIP JOINT VENTURE	QATAR LIQUEFIED GAS Co. Ltd. (QATARGAS) QATAR	RAS LAFFAN QATAR	6	264	79	440	Gas	Gas Plant	2008

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
CHIYODA - TECHNIP JOINT VENTURE	RAS LAFFAN LNG Co. (RASGAS) QATAR	RAS LAFFAN QATAR	3	240	56	384	Gas	Gas Plant	2007
TECHNIP FRANCE	RAS LAFFAN OLEFIN Co. QATAR	RAS LAFFAN QATAR	3	110	53	293	Gas	Ethylene Plant	2007
EASTERN PETROCHEMICAL Co. (SHARQ) SAUDI ARABIA	EASTERN PETROCHEMICAL Co. (SHARQ) SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	4	115	53	310	Gas	Utilities & Offsite Plant	2007
JGC / KBR JOINT VENTURE	BP BERAU Ltd. INDONESIA	TANGGUH INDONESIA	3	176	51	400	Gas / Oil	Gas Plant	2007
EQUATE PETROCHEMICAL Co. KUWAIT	EQUATE PETROCHEMICAL Co. KUWAIT	SHUAIBA KUWAIT	3	198	68	390	Gas / Oil	Aromatics	2007
SNAMPROGETTI S.p.A. ITALY	ABU DHABI GAS INDUSTRIES Ltd. (GASCO) U.A.E.	RUWAIS U.A.E.	5	143	38	355	Gas	NGL Plant	2007
GS / OIEC JOINT VENTURE	POGC IRAN	ASSALUYEH IRAN	6	160	54	274	Gas	Gas Field Development	2006
CHIYODA - TECHNIP JOINT VENTURE	QATAR LIQUEFIED GAS Co. QATAR	RAS LAFFAN QATAR	6	264	79	440	Gas	Gas Plant	2006

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
GS ENGINEERING & CONSTRUCTION Corp. KOREA	QINGDAO LIDONG CHEMICAL Co. CHINA	QINGDAO CHINA	2	180	42	390	Gas / Oil	Aromatics	2006
ENIP ALGERIA	ENIP ALGERIA	SKIKDA ALGERIA	1	123	53	450	Gas / Oil	Ethylene Plant	2006
CHIYODA Corp. JAPAN	RAS LAFFAN LNG Co. (RASGAS) QATAR	RAS LAFFAN QATAR	2	159	25	240	Gas	Gas Plant	2006
KHPC / PCC IRAN	KHORASAN NATIONAL PETROCHEMICAL PETROCHEMICAL Ind. IRAN	KHORASAN IRAN	1	84	45	448	Gas	Petrochemical	2005
UHDE GMBH GERMANY	SAUDI ARABIAN FERTILISER Co. (SAFCO) SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	150	67	435	Gas	Fertilizer	2005
TECHNIP ITALY	ORYX GTL Ltd. QATAR	RAS LAFFAN QATAR	3	160	78	294	Gas	GTL Plant	2004
CHIYODA Corp. JAPAN	SIPC SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	85	61	405	Gas	Petrochemical	2004
BASF-YPC Co. Ltd. CHINA	BASF-YPC Co. Ltd. CHINA	NANJING CHINA	2	170	55	390	Gas	Petrochemical	2003

REFERENCE LIST

FIRE BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
STC ATEL S.p.A. ITALY	NOVEL ITALY	NOVARA ITALY	1	122	51	420	Gas	Cogeneration	2003
SNAMPROGETTI ITALY	SAUDI ARAMCO SAUDI ARABIA	QATIF SAUDI ARABIA	2	120	12	199	Gas	Refinery	2003
AGIP IRAN B.V. IRAN	ENI AGIP PETROPARS JOINT VENTURE	ASSALUYEH IRAN	6	160	54	274	Gas	Gas Field Development	2003
TECHNIP ITALY	PETROVIETNAM VIETNAM	PHU MY VIETNAM	1	140	50	380	Gas	Fertilizer	2003
KRUPP UHDE GERMANY	QATAR FERTILISER Co. QATAR	MESAIEED QATAR	2	120	60	425	Gas	Fertilizer	2003
KAWASAKI HEAVY Ind. (KHI) JAPAN	CHINA NATIONAL OFFSHORE OIL Corp. CHINA	HAINAN CHINA	1	60	59	389	Gas	Fertilizer	2002
CHIYODA Corp. JAPAN	RAS LAFFAN LNG Co. (RASGAS) QATAR	RAS LAFFAN QATAR	3	159	25	240	Gas	Gas Plant	2004
ENI / AGIP ITALY	ENI / AGIP ITALY	VAL D'AGRI (PO) ITALY	2	75	38	300	Gas	Refinery	2002
MINISTRY OF OIL IRAQ	MINISTRY OF OIL IRAQ	KIRKUK IRAQ	4	176	55	410	Gas	Refinery	2004

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
TRACTEBEL BELGIUM	ELYO FRANCE	ARLES FRANCE	1	83	55	405	Gas	Cogeneration Paper mill	2002
TECHNIP ITALY	BP AMOCO CHINA	ZHUHAI CHINA	2	77	98	sat	Gas	PTA Plant	2001
TECHNIP ITALY	QATAR LIQUEFIED GAS Co. Ltd. (QATARGAS) QATAR	MESAIEED QATAR	1	160	17	210	Gas	Sulphur Rec. Unit	2001
KELLOGG BROWN & ROOT (KBR) USA	QATAR CHEMICAL Co. Ltd. (Q-CHEM) QATAR	MESAIEED QATAR	3	105	53	371	Gas	Olefin Complex	2001
RENO DE MEDICI ITALY	RENO DE MEDICI ITALY	S. GIUSTINA (BL) ITALY	1	70	75	485	Gas / Oil	Paper mill	2001
MOBIL NORTH SEA Ltd. SCOTLAND	MOBIL NORTH SEA Ltd. SCOTLAND	PETERHEAD SCOTLAND	1	55	21	229	Gas	Gas Plant	2001
ABB L. / JGC CONSORTIUM	SHELL CHEMICALS / BASF JOINT VENTURE	JURONG ISLAND (SERAYA) SINGAPORE	1	115	35	350	Light Oil Gas	SMPO Plant	2001
LG ENG. & CONSTR. Corp. KOREA	NATIONAL OIL DISTRIBUTION Co. (NODCO) QATAR	MESAIEED QATAR	1	60	20	sat	Oil / Gas	Oil Refinery	2000
TOYO ENG. Corp. JAPAN	PUPUK ISKANDAR MUDA INDONESIA	NORT ACEH INDONESIA	1	120	53	390	Gas	Fertilizer	2000

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
BECHTEL / SNAMPROGETTI JOINT VENTURE	KARACHAGANAK OIL KAZAKISTAN	KARACHAGANAK KAZAKISTAN	4	115	53	400	Gas	Petrochemical Plant	2000
HELLENIC PETROLEUM CONSORTIUM	HELLENIC PETROLEUM S.A. GREECE	ATHENS GREECE	1	60	54	410	Oil	Petrochemical Plant	2000
TECHNIP / BECHTEL CONSORTIUM	ABU DHABI NATIONAL OIL Co. (ADNOC) U.A.E.	ABU DHABI U.A.E.	2	130	54	400	Gas	Gas Development	1999
TOYO ENG. Corp. JAPAN	SIDI KERIR PETROCHEMICALS Co. (SIDPEC) EGYPT	ALEXANDRIA EGYPT	2	50	52	395	Gas	Ethylene Plant	1998
JGC Corp. JAPAN	PARCO PAKISTAN	MULTAN CITY PAKISTAN	3	65	52	390	Oil / Gas	Oil Refinery	1999
DAELIM Ind. Co. S. KOREA	PETRONAS GAS MALAYSIA	TERENGGANU MALAYSIA	3	100	45	410	Gas	Gas Development	1998
CHIYODA Corp. JAPAN	LUBEREF SAUDI ARABIA	YANBU SAUDI ARABIA	3	84	32	371	Tar Gas	Lube Base Oil Plant	1996
ANSALDO ENERGIA / FOCHI ITALY	MINISTRY OF ENERGY & WATER U.A.E.	MIRFA - ABU DHABI U.A.E.	2	220	16	220	Oil Gas	Desalination Plant	1995

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
SIEMENS AG GERMANY	KHORASAN NATIONAL PETROCHEMICAL Ind. IRAN	BOJNURD IRAN	3	84	45	448	Diesel Oil Gas	Cogeneration Power Plant	1994
FOCHI ITALY	AEM TORINO ITALY	MONCALIERI 8TO) ITALY	3	86	12	sat	Oil	District Heating	1993
FIAT ENGINEERING ITALY	FIAT ENGINEERING ITALY	MELFI (PZ) ITALY	2	130	30	sat	Heavy Oil / Gas	District Heating	1993
CHIYODA Corp. JAPAN	KAFCO BANGLADESH	CHITTAGONG BANGLADESH	2	85	126	513	Gas	Fertilizer	1992
ITALIMPIANTI ITALY	SITRA DESALINATION PLANT BAHRAIN	AL HIDD BAHRAIN	1	165	20	215	Gas / Diesel oil	Desalination Plant	1983
KRUPP UHDE GERMANY	MARSA EL BREGA REF. LIBYA	MARSA EL BREGA LIBYA	2	100	46	400	Oil / Gas	Refinery	1983
STADTWERKE GERMANY	BREMA MUNICIPALITY GERMANY	HASTEDT GERMANY	2	100	22	310	Oil / Gas	District Heating	1982
TECHNIPETROL ITALY	SCOP (MINISTRY OF OIL) IRAQ	KIRKUK IRAQ	4	176	55	410	Gas Light Oil	Refinery	1982
AEG - KANIS GERMANY	WARRI II REF. NIGERIA	WARRI NIGERIA	1	95	50	400	Heavy Oil Gas	Refinery	1981

REFERENCE LIST

FIRED BOILER - "TITAN M" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
FOSTER WHEELER ITALY	MARSA EL BREGA REF. LIBYA	MARSA EL BREGA LIBYA	2	126	46	400	Heavy Oil	Refinery	1979
UGINE KUHLMANN FRANCE	ELF ATOCHEM FRANCE	FOS-SUR-MER FRANCE	2	110	30	300	Oil Hydrogen	Chemical Plant	1979
TECHNIPETROL ITALY	MONTEDISON ITALY	PRIOLO GARGALLO (SR) ITALY	2	110	90	480	Heavy Oil	Cogeneration Power Plant	1979
ANSALDO ITALY	NISIC IRAN	MOOBARAKEH ESHAFAN	5	200	60	460	Oil Gas	Refinery	1978
SOC. MINERARIA & METALLURGIA ITALY	SOC. MINERARIA & METALLURGIA ITALY	CROTONE (KR) ITALY	1	90	90	500	Heavy Oil	Cogeneration Power Plant	1975
SIACE ITALY	SIACE ITALY	FIUMEFREDDO ITALY	1	120	52	410	Heavy Oil	Cogeneration Power Plant	1975
COMING ITALY	GAETA INDUSTRIA PETROLI ITALY	GAETA (LT) ITALY	1	100	52	450	Heavy Oil	Cogeneration Power Plant	1974
SAROM ITALY	SAROM ITALY	RAVENNA (RA) ITALY	1	88	62	470	Heavy Oil	Cogeneration Power Plant	1974

REFERENCE LIST

FIRED BOILER - "MVF" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
LINDE IMPIANTI ITALIA S.p.A. ITALY	ABU DHABI POLYMERS Co. Ltd. (BOROUGE) U.A.E.	RUWAIS U.A.E.	3	297	87	460	Oil / Gas	Ethylene Plant	2009
SNAMPROGETTI ITALY	ARAMCO SAUDI ARABIA	KHURSANIYAH SAUDI ARABIA	3	305	59	380	Gas	Gas Plant	2007
JGC Corp. JAPAN	DOLPHIN ENERGY U.A.E.	RAS LAFFAN QATAR	4	246	54	410	Gas	Gas Plant	2005
AGIP KCO UK	AGIP KCO KAZAKISTAN	KASHAGAN KAZAKISTAN	3	385	44	400	Gas	Refinery	2005
SNAMPROGETTI ITALY	AGIP LIBYA	MELLITAH LIBYA	4	363	42	355	Gas	Gas Plant	2004
SNAMPROGETTI / TECHINT CONSORTIUM ITALY	PROFERTIL ARGENTINA	BAHIA BLANCA ARGENTINA	1	180	46	390	Gas	Fertilizer Plant	1999
TOYO ENGINEERING Corp. JAPAN	KERTIH AROMATIC MALAYSIA	TERENGGANU MALAYSIA	3	140	45	400	Oil / Gas	Aromatic Plant	1999
SUNKYONG ENG. & CONSTR. KOREA	KNPC KUWAIT	MINA AL AHMADI KUWAIT	1	182	63	438	Oil / Gas	Oil Refinery	1998

REFERENCE LIST

FIRED BOILER - "MVF" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
SABIC SAUDI ARABIA	AIFC PTA SAUDI ARABIA	YANBU SAUDI ARABIA	4	308	41	400	Oil / Gas	Aromatic Plant	1997
SNAMPROGETTI ITALY	NIOC IRAN	BANDAR ABBAS IRAN	2	145	45	380	Heavy Oil Gas	MTBE Plant	1994
ASM ITALY	ASM ITALY	BRESCIA ITALY	1	145	22	sat	Light Oil Heavy Oil Gas	District Heating	1993
SNAMPROGETTI ITALY	IBN ZHR SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	149	43	435	Gas	MTBE Plant	1992
FIAT AUTO ITALY	FIAT AUTO ITALY	POMIGLIANO ITALY	2	110	16	sat	Oil / Gas	District Heating	1991
RADICI CHIMICA ITALY	RADICI CHIMICA ITALY	NOVARA ITALY	1	80	35	390	Oil / Gas	Chemical Plant	1990

REFERENCE LIST

FIRED BOILER - "MRD" MODEL

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
SAUDI KAYAN PETROCHEMICAL Co. SAUDI ARABIA	SAUDI KAYAN PETROCHEMICAL Co. SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	2	385	62	400	Crude Oil	Petrochemical Plant	2009
EASTERN PETROCHEMICAL Co. (SHARQ) SAUDI ARABIA	EASTERN PETROCHEMICAL Co. (SHARQ) SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	3	165	128	510	Oil / Gas	Ethylene Plant	2008
SABIC SAUDI ARABIA	SABIC SAUDI ARABIA	YANBU SAUDI ARABIA	5	165	120	510	Oil / Gas	Utilities & Offsite Plant	2007
ABB LUMMUS GLOBAL THE NETHERLANDS	AL JUBAIL PETROCHEMICAL Co. SAUDI ARABIA	AL JUBAIL SAUDI ARABIA	3	70	120	510	Oil / Gas	Ethylene Plant	2002
SNAMPROGETTI ITALY	FAUJI FERT. Co. Ltd. PAKISTAN	GOT MACHHI PAKISTAN	1	132	130	515	Gas	Fertiliser Plant	1992
FIAT AUTO ITALY	FIAT AUTO ITALY	ATESSA ITALY	2	60	106	518	Oil / Gas	Cogen Plant	1992
SNAMPROGETTI ITALY	GULF PETROCHEMICAL BAHRAIN	BAHRAIN	2	88	136	510	Oil / Gas	Ammonia Methanol Complex	1988
ASM ITALY	ASM ITALY	BRESCIA ITALY	1	253	129	513	Pulver. Coal Oil Gas	District Heating	1987
SNAMPROGETTI ITALY	INDOGULF INDIA	JADIGSPUR INDIA	2	110	130	515	Oil / Gas	Fertiliser Plant	1984

REFERENCE LIST

HEAT RECOVERY STEAM GENERATOR

Client	End user	Location	Type	Qty.	Fluid Heated	Cap. t/h	Press. BarA	Temp. °C	Suppl. Firing	Gas Turbine	G. T. Application	Comm. date
HERA S.p.A. ITALY	HERA S.p.A. ITALY	IMOLA ITALY	N/C	2	HP LP	38 9	61 11	487 230	NO	Rolls Royce RB211T-DLE	Cogeneration Plant	2008
CHIYODA - TECHNIP JOINT VENTURE FRANCE	RAS LAFFAN LIQUIFIED NATURAL GAS Co. Ltd. QATAR	RAS LAFFAN QATAR	N/C	4	HP	220	59	384	YES	GE-FRAME 6B	Gas Plant	2008
DALMINE ITALY	DALMINE ITALY	ITALY	N/C	2	HP LP	56 13	98 13	519 218	NO	Siemens GTX 100	CCPP	2006
JGC Corp. JAPAN	DOLPHIN ENERGY U.A.E.	RAS LAFFAN QATAR	N/C	6	HP	46	53	425	NO	Rolls Royce Trent	Gas Compression	2005
PETRONAS GAS MALAYSIA	PETRONAS GAS MALAYSIA	MALAYSIA	N/C	1	HP	120	65	475	YES	FRAME 6B	CHP Refinery	2005
JGC Corp. JAPAN	SOHAR REFINERY OMAN	OMAN	N/C	2	HP	35	54	390	NO	H 25	CHP Refinery	2005
SNAMPROGETTI TECHNIP J.V.	OMIFCO OMAN	OMAN	N/C	2	HP	116	58	395	YES	FRAME 6B	Fertilizer Plant	2004
EDISON ITALY	SONDEL ITALY	SESTO S. GIOVANNI ITALY	N/C	1	HP LP	43 13	67 10	420 256	NO	LM6000PD	CHP District Heating	2003
NPCC / TECHNIP J.V. U.A.E.	SOROOSH & NOWROOZ IRAN	IRAN	N/C	3	Water	672	21	165	YES	GT 35	CHP Off-shore	2003

REFERENCE LIST

HEAT RECOVERY STEAM GENERATOR

Client	End user	Location	Type	Qty.	Fluid Heated	Cap. t/h	Press. BarA	Temp. °C	Suppl. Firing	Gas Turbine	G. T. Application	Comm. date
IPS TOYO LUXEMBOURG	PETROBRAS REFAP BRAZIL	BRAZIL	N/C	1	HP LP	80 14	78 30	435 270	YES	H 25	CHP Refinery	2003
HIRBODAN IRAN	BANDAR ABBAS REFINERY IRAN	BANDAR ABBAS IRAN	N/C	1	HP	101	56	385	YES	PG6581B	CHP Refinery	2003
TECHNIP FRANCE	SAUDI ARAMCO SAUDI ARABIA	ABQAIQ SAUDI ARABIA	N/C	2	HP	58	44	385	NO	MS5382	CHP NGL Plant	2003
JGC Corp. JAPAN	BAIXADA SANTISTA ENERGIA Ltd. BRAZIL	CUBATAO BRAZIL	N/C	2	HP	383	139	560	YES	GE7241FA	CCPP Power Plant	N.A.
SONDEL ITALY	PIRELLI TYRE Co. TURKEY	IZMIT TURKEY	N/C	1	HP	64	43	440	YES	LM 2500	CHP Tyre Factory	2002
TRACTEBEL BELGIUM	ELYO FRANCE	ARLES FRANCE	N/C	1	HP LP	75 15	55 9	405 170	YES	LM 6000	CHP Paper Mill	2002
ENELPOWER ITALY	NUEVA CENTRAL INDIPENDENCIA ARGENTINA	TUCUMAN ARGENTINA	N/C	1	HP LP	214 52	111 34	528 240	NO	V94-2	CCPP Power Plant	N.A.
COMMISSIONING ITALY	LUCCHINI GROUP ITALY	PIOMBINO ITALY	N/C	2	HP	71	130	513	YES	PGT10B	CCPP Steel Complex	2001
ABB LUMMUS / JGC Corp. CONSORTIUM THE NETHERLANDS	SHELL CHEMICALS / BASF JV SINGAPORE	SINGAPORE	N/C	2	HP	115	35	350	YES	MS5001PA	CHP SMPO Plant	2001

REFERENCE LIST

HEAT RECOVERY STEAM GENERATOR

Client	End user	Location	Type	Qty.	Fluid Heated	Cap. t/h	Press. BarA	Temp. °C	Suppl. Firing	Gas Turbine	G. T. Application	Comm. date
AIR LIQUIDE FRANCE	AIR LIQUIDE FRANCE	ROUEN FRANCE	N/C	2	HP LP LLP	109 16 5	80 14 11	458 170 sat	YES	LM 6000	Pulp & Paper Industry	2000
TECHNIP / BECHTEL CONSORTIUM FRANCE	ADNOC U.A.E.	ABU DHABI UAE	N/C	1	HP	130	51	400	YES	GE-FRAME6	CHP Gas Processing	1999
FJFC PAKISTAN	FJFC PAKISTAN	BIN QASIM PAKISTAN	N/C	1	HP	110	40	330	YES	MS 5001	CHP Fertilizer	1999
JGC Corp. JAPAN	RASGAS QATAR	RAS LAFFAN QATAR	N/C	1	LP	159.5	17	240	YES	GE-FRAME6	LNG Train 1 & 2	1998
DAELIM KOREA	PETRONAS GAS MALAYSIA	TERENGGANU MALAYSIA	N/C	8	HP	22	45	410	NO	DR61 12MWe	Gas Processing Plant 5 & 6	1997
HITACHI Ltd. JAPAN	HAINAN FUDAO CHEM. Ind. Corp. CHINA	HAINAN CHINA	N/C	1	HP	100	112	513	YES	PGT 10 10MWe	Fertilizer Plant	1995
ENEL ITALY	ENEL ITALY	TRINO VERCELLESE ITALY	N/C	1	HP LP	180 40	56 6	524 278	NO	FIAT TG 50 120 MWe	CCPP Power Plant	1994
CARTIERA S. MARCO ITALY	CARTIERA S. MARCO ITALY	PORCARI ITALY	N/C	1	HP	18	51	350	NO	PGT 10 10MWe	CHP Paper Mill	1993
COGEN Co. ITALY	COGEN Co. ITALY	BOLOGNA ITALY	F/C	1	HP	12	41	400	NO	PGT 5 5MWe	CHP District Heating	1993

REFERENCE LIST

HEAT RECOVERY STEAM GENERATOR

Client	End user	Location	Type	Qty.	Fluid Heated	Cap. t/h	Press. BarA	Temp. °C	Suppl. Firing	Gas Turbine	G. T. Application	Comm. date
TECNOGROUP BECO ITALY	TECNOGROUP BECO ITALY	BIELLA ITALY	N/C	1	HP	7,05	40	400	YES	TYPHON 4MWe	CHP Textile Plant	1993
TECNOGROUP BECO ITALY	TECNOGROUP BECO ITALY	BIELLA ITALY	N/C	1	HP	19	40	400	NO	RLM 1600 12MWe	CHP Textile Plant	1993
SONDEL ITALY	SONDEL ITALY	SESTO S. GIOVANNI ITALY	N/C	1	HP LP	61,5 12,8	70 6,5	500 285	YES	FRAME 6 40MWe	CHP District Heating	1993
EDISON GAS ITALY	CERESTAR ITALY	CASTELMASSA ITALY	N/C	2	HP	72	66	482	YES	LM 2500 22MWe	Agro Industry	1992
TURBOTECNICA ITALY	NAGARJUNA FERT. & PETROCH. Co. INDIA	KAKINADA INDIA	N/C	2	HP	60	44	385	YES	PGT10 10MWe	Fertiliser Plant	1991
FIAT ENGINEERING ITALY	BURGO CARTIERE ITALY	TIMAVO ITALY	F/C	2	HP LP	78 13,5	47 7	380 160	NO	FIAT TG20 40MWe	Pulp & Paper Industry	1991
ITALIMPIANTI ITALY	SITRA DESALINATION Co. BAHRAIN	SITRA BAHRAIN	F/C	1	LP	80	20	215	NO	B. BOVERI 40MWe	CHP Desalination Plant	1984
TURBOTECNICA ITALY	ACEA ITALY	ROMA ITALY	F/C	1	LP	38	18	120	NO	N. PIGNONE 20MWe	CHP District Heating	1982
NUOVO PIGNONE ITALY	AZZAWIYA OIL REFINERY Co. LIBYA	AZZAWIYA LIBYA	F/C	1	LP	54,8	18	235	NO	GE FRAME 5 20MWe	CHP Petro Chemical Plant	1982

REFERENCE LIST

PROCESS - WASTE HEAT BOILER

Client	End User	Location	Type	Qty.	Fluid Heated	Cap. T/h.	Press. BarA	Temp. °C	Suppl. Firing	Process Application	Comm. Date
FBM HUDSON ITALIANA S.p.A. ITALY	SINOPEC ZHONGYUAN OILFIELD Co. CHINA	PUGUANG (SICHUAN PROVINCE) CHINA	N/C	12	HP	79	39	390	NO	Gas Plant	2008
LURGI OIL & GAS GERMANY	NODCO QATAR	MESAIEED QATAR	N/C	1	HP	37	53	420	NO	Oil Refinery	2000
NOYVALLESINA ENG. ITALY	NOYVALLESINA ENG. ITALY	DALMINE ITALY	N/C	2	HP	33	80	430	YES	Municipal Incenerator	2000
FIAT ENG. ITALY	FIAT AUTO ITALY	MELFI ITALY	N/C	2	HP	20	37	350	YES	Municipal & Industrial Incinerator	1998
ITALSOF ITALY	SINOPEC CHINA	SHIJIAZHUANG CHINA	N/C	1	HP	27	38	sat	NO	Caprolactam	1996
THISSEN / LURGI / TECHNIP CONSORTIUM GERMANY	ELF FRANCE	LEUNA GERMANY	N/C	1	HP	42	39	345	NO	FCC	1996
DBA GERMANY	PALMA DE MALLORCA MUNICIPAL WASTE SPAIN	PALMA DE MALLORCA SPAIN	N/C	2	HP	50	40	400	YES	Municipal Incenerator	1994
AERIMPIANTI ITALY	AZ. MUNICIPALE GREVE IN CHIANTI ITALY	GREVE IN CHIANTI ITALY	N/C	1	HP	20,1	51	380	YES	Municipal Incenerator	1991

REFERENCE LIST

PROCESS - WASTE HEAT BOILER

Client	End User	Location	Type	Qty.	Fluid Heated	Cap. T/h.	Press. BarA	Temp. °C	Suppl. Firing	Process Application	Comm. Date
OSCHATZ GERMANY	PANTOCHIM BELGIUM	LIEGE BELGIUM	N/C	1	HP	89	42	400	NO	Phtalic Anhydride	1990
ITALIMPIANTI ITALY	ITALSIDER ITALY	BAGNOLI ITALY	N/C	2	HP	32,4	43	255	NO	Steel Mill	1984
SNAMPROGETTI ITALY	ERIAG REFINERY GERMANY	INGLOSTADT GERMANY	F/C	1	LP	12,4	22,5	290	NO	Refinery	1981
KTI FRANCE	PCUK FRANCE	PIERRE BENITE FRANCE	N/C	1	HP	26	47	435	NO	Petrochemical Plant	1981
ITALIMPIANTI ITALY	COMPANHIA SIDERURGICA DE TUBARAO BRAZIL	TUBARAO BRAZIL	F/C	5	LP	26	25	sat	NO	Steel Mill	1978
C.T.I.P. ITALY	LIQUICHIMICA BIOS. ITALY	AUGUSTA ITALY	N/C	2	LP	17,5	9	179	NO	Petrochemical Plant	1976

REFERENCE LIST

FOSSIL FIRED BOILER

Client	End User	Location	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Process Application	Comm. Date
ASM ITALY	BRESCIA ITALY	Singledrum Top supp.	1	280	129	513	Pulverized Coal Heavy Oil Natural Gas	Power Gen.	1988
I.P.Z.S. ITALY	FOGGIA ITALY	Bidrum Top supp.	1	99	83	495	Coarse Coal Natural Gas	Power Gen.	1984
MASCHIONI ITALY	CUVIO ITALY	Bidrum Top supp.	1	65	72	465	Coarse Coal Heavy Oil	Power Gen.	1980

REFERENCE LIST

BOILER REVAMPING - LIFE EXTENSION - UPRATING - UPGRADING

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
RENO DE MEDICI ITALY	S. GIUSTINA (BL) ITALY	TOSI VU	1	70	73	340	Oil / Gas	2005	Supply of pressure parts and site replacement
EURALLUMINA ITALY	PORTOSCUSO (CA) ITALY	Breda Boiler n. 3	1	175	80	375	Oil	2005	Material supply and site replacement combustion chamber roof
FERTALGE INDUSTRIE ALGERIA	ARZEW ALGERIA	BABCOCK OMNICAL	2	44	25	350	Gas	2005	Supply of pressure parts and supervision during erection & start-up
KARNAPHULI FERTILIZER Co. Ltd. BANGLADESH	KAFCO BANGLADESH	Macchi Titan M Boiler	1	95	126	513	Gas	2004	Supply of complete superheater in big block
COMMISSIONING ITALY	A.C.C.A.M. BUSTO A. ITALY	INSTEAM GVR Waste to Energy	1	32	47	380	Waste	2004	Superheater complete replacement Waterwall tubes replacement Boiler tubes diagnostic
COMMISSIONING ITALY	A.C.C.A.M. BUSTO A. - ITALY	COMEF GVR Waste to Energy	1	32	49	380	Waste	2004	SH complete replacement Waterwall tubes replacement Boiler tubes diagnostic
TECHNIP ITALY	MIDOR EGYPT	Foster Wheeler Boilers	2	60	82.6	371	Gas	2003	Supply and replacement of No. 2 superheaters
CARBOFIN ENERGIA TRASPORTI ITALY	F.P.S.O. OFFSHORE NAN HAI CHINA	Macchi Titan M Boiler	1	42	33	240	Oil	2003	Boiler complete retubing at jobsite (Singapore)

REFERENCE LIST

BOILER REVAMPING - LIFE EXTENSION - UPRATING - UPGRADING

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
COMPAGNIE TERM. DE BOIS ROUGE REUNION ISLAND	REUNION ISLAND	Stein Industries Boiler	1	90	98	510	Bagasse	2002	Set of primary/secondary superheater coils
EDISON ITALY	C.le MARGHERA LEVANTE - ITALY	Cei / Insteam H.R.S.G.	2	190	41	515	N.A.	2002	Boiler bank revamping
TAMOIL Raff. S.p.A. ITALY	CREMONA ITALY	Macchi Titan M Boiler	1	60	45	450	Oil Gas	2002	Boiler retubing
EDISON ITALY	S. QUIRICO ITALY	Cei / Insteam H.R.S.G.	1	161	75/120	/	N.A.	2001	Modification of BFW line
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda n. 2 & n. 3 Boilers	2	175	80	375	Oil	2001	Supply of materials and site activity for boiler tube replacement (combustion chamber and waterwall)
TOYO ENG. JAPAN	AMERYA EGYPT	Macchi Titan M Boiler	1	50	52	395	Process Gas	2001	Retubing
ENIPOWER ITALY	RAVENNA ITALY	Breda Fired Boiler	1	450	121	538	Oil Gas	2000	Boiler overhauling
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda Radiant Boilers	3	175	80	375	Oil	2000	Study and intervention for boiler UP-RATING

REFERENCE LIST

BOILER REVAMPING - LIFE EXTENSION - UPRATING - UPGRADING

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
ISE / EDISON ITALY	TARANTO ITALY	Babcock & Wilcock Boiler	1	480	167	400	Oil	2000	Supply of special bended tubes for burners throat
THYSSEN / LURGI / TECHNIP CONSORTIUM	LEUNA ITALY	Macchi Flue Gas Cooler	1	42	39	345	N.A.	1999	Renewal of three evaporator bundles
I. S. E. ITALY	TARANTO ITALY	Babcock & Wilcock Boiler	1	480	167	400	Oil	1999	Engineering and supply of cast iron finned tubes for economizer complete replacement
ENICHEM ITALY	RAVENNA ITALY	Thermal Piping System	1 lot	N.A.	49	380	N.A.	1998	Engineering / fabrication / erection of thermal piping system
ACEA ITALY	TOR DI VALLE ITALY	Macchi H.R.S.G.	1	superh. H2O	18	209	Rec. Only	1998	Engineering / fabrication / replacement of complete lower boiler bank
ELF ATOCHEM ITALY	RHO ITALY	Macchi Titan M Boiler	1	30	32,5	300	Gas	1998	Boiler uprating
BINDA ITALY	CREVACUORE ITALY	Macchi Titan M Boiler	1	35	50	450	Oil Gas	1997	Upgrading replacement of SH, DSH, F.D. Fan. Air preheater
FRENE ITALY	RAVENNA ITALY	Breda Boiler No. 4	1	450	121	538	Oil Gas	1997	Replacement of parts of boiler tubes, installation of new SH anchor and sootblowers
RADICI CHIMICA ITALY	NOVARA ITALY	Tosi VU Boiler No. 3	1	45	39	400	Oil Gas	1996	Boiler Revamping: complete replacement of the all boiler tubes with membraned walls (without refractor)
RADICI CHIMICA ITALY	NOVARA ITALY	Tosi VU Boiler No. 3	1	45	33	400	Oil Gas	1995	Supply and replacement of superheater

REFERENCE LIST

BOILER REVAMPING - LIFE EXTENSION - UPRATING - UPGRADING

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
PRAOIL ITALY	GELA ITALY	Breda Radiant Boilers (Items G 200 - G 300)	2	380	100	530	Oil - Gas Pet.Coke	1994	Complete refurbishment
A.S.M. ITALY	BRESCIA ITALY	Breda Bidrum Boiler	1	180	130	515	Oil Gas	1994	"Upgrading", supply of an additional economizer
MEDITERRANEA ITALY	MILAZZO ITALY	Macchi Titan M Boiler	1	142	57	440	Oil	1994	Supply of the new superheater.
A.S.M. ITALY	BRESCIA ITALY	Macchi - FWEC MRD Boiler	1	253	129	513	Oil Gas-Coal	1993	"Uprating" & "Upgrading", supply of an additional economizer and the increase of the thermal efficiency
AGIP OIL Ltd. TRIPOLI - LIBYA	OFF-SHORE	Macchi Titan M Boilers	2	55	33	240	Oil	1993	General revamping
ISAB ITALY	PRIOLO ITALY	F. Tosi (Boiler 1) Bidrum Boiler	1	180	93	485	Oil Gas	1993	Supply of the new HT superheater
ISAB ITALY	PRIOLO ITALY	F. Tosi (Boiler 2) Bidrum Boiler	1	180	93	485	Oil Gas	1992	Supply of the new HT superheater
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda Bidrum Boiler	3	175	50	375	Oil	1990	Complete refurbishment of the pressure parts and the firing system

REFERENCE LIST

BOILER REVAMPING - LIFE EXTENSION - UPRATING - UPGRADING

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
ENICHEM ANIC ITALY	GELA ITALY	Breda Radiant Boiler (Item G 100)	1	380	100	530	Oil - Gas Pet.Coke	1989	General revamping
PERTUSOLA ITALY	CROTONE ITALY	Macchi TITAN M Boiler	1	90	39	500	Oil	1989	Supply of the new superheater
ENICHEM ELASTOMERI ITALY	RAVENNA ITALY	Breda Radiant Boiler	1	280	121	538	Oil Gas	1989	Redesign and supply of the new spray desuperheater and the relevant critical piping
ENICHEM ANIC ITALY	RAVENNA ITALY	Breda Radiant Boiler	1	450	121	538	Oil Gas	1988	"Upgrading", redesign of the attemperator.
ENICHEM ANIC ITALY	PORTO TORRES ITALY	Breda Radiant Boiler	1	300	108	520	Oil-Gas CWM	1987	Supply of the new sootblowers system and various ancillaries
RADICI CHIMICA ITALY	NOVARA ITALY	F. Tosi VU 50 BPW Boiler	1	80	39	390	Oil	1986	Complete refurbishment
ITALKALI ITALY	PALERMO ITALY	F. Tosi Bidrum Boiler	1	30	50	400	Oil Gas	1983	"Upgrading": redesign of the attemperator

REFERENCE LIST

FUEL CONVERSION

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
GIARDINI S.p.A. VIGEVANO - ITALY	VIGEVANO ITALY	Macchi Titan M	1	15	25	240	Oil Gas	2004	Modification of burner to use gas and polluted combustion air
MILAZZO REFINERY ITALY	MILAZZO ITALY	Macchi	1	90	57	440	Oil	1997	Modification of burners for reducing particulate emission
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda	2	175	80	375	Oil	1996	Replacement of the burners and combustion system for reducing particulate emission
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda	1	175	80	375	Oil	1995	Modified of the burners for reducing particulate emission
ENICHEM ANIC ITALY	PORTO TORRES ITALY	Babcock & W (mondrum)	1	300	108	520	Oil Gas	1988	Replacement of the burners for the combined combustion of the Oil - Gas - CWM (mixture H2O - Coal)
MEDITERRANEA ITALY	MILAZZO ITALY	Macchi	1	142	57	440	Oil	1987	Replacement of the burners for the combined combustion of the Oil - Gas
RADICI CHIMICA ITALY	NOVARA ITALY	F. Tosi C. E. VU 50 BPW (bidrum)	1	80	39	390	Oil	1985	Modification of the burners for the addition of Natural Gas
MONTEDISON ITALY	BUSSI ITALY	Macchi (bidrum)	1	40	30	390	Diesel Oil Methane	1984	Addition of the fuel Hydrogen
CELLULOSA CALABRA ITALY	CROTONE ITALY	Mariotti	1	40	35	380	Oil Gas	1984	Replacement of the firing system

REFERENCE LIST

FUEL CONVERSION

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Fuel	Year	Activity
SOC. MINERARIA & METALLURGIA ITALY	CROTONE ITALY	Macchi	1	90	90	500	Oil	1983	Addition of the Natural Gas firing system
ITALKALI ITALY	PALERMO ITALY	F. Tosi (bidrum)	2	30	50	400	Oil Gas	1982	Fuel gas conversion

REFERENCE LIST

LIFE ASSESSMENT

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Year	Activity
CENTRALE TERMIQUE DU SUD ILE MAURICE	MAURITIUS	STEIN INDUSTRIE Coal Fired Boiler	1	125	80	485	2005	Check and diagnostic regarding leakage in the bank tubes
FERTALGE INDUSTRIE ALGERIA	ARZEW ALGERIA	BABCOCK OMNICAL	2	44	25	350	2005	Boiler pressure parts assessment
KAFCO BANGLADESH	CHITTAGONG BANGLADESH	Macchi Titan M Boilers	2	95	126	513	2003	Check and diagnostic of boiler pressure parts & auxiliaries
SNAM - Trasporti Marittimi ITALY	SHIP LNG PALMARIA	Foster Wheeler Boilers (D-MNW-DR)	2	50	52	457	2000	Check and diagnostic of boiler pressure parts
ENIPOWER ITALY	RAVENNA ITALY	Ansaldo H.R.S.G. (BA501)	1	35	137	538	2000	Check and diagnostic of boiler pressure parts
EURALLUMINA ITALY	PORTOSCUSO ITALY	Breda Boilers	2	175	80	375	1999	Life assessment and diagnostic of boilers & auxiliaries
CARTIERE RENO DE MEDICI - ITALY	MARZABOTTO ITALY	Macchi Titan M Boiler (M 440)	1	25	70	465	1998	
CARTIERE SOTTRICI BINDA ITALY	VEDANO OLONA ITALY	Macchi Titan M Boiler (M 460)	1	25	63	470	1995	
PRAOIL ITALY	GELA ITALY	Ansaldo - Breda Boiler (Item G 200)	1	380	124	530	1994	

REFERENCE LIST

LIFE ASSESSMENT

Client	Location	Type of boiler	Qty.	Cap. T/h.	Press. BarA	Temp. °C	Year	Activity
CARTIERE BURGO ITALY	DUINO AURISINA ITALY	Center Boiler	1	120	62	450	1994	
ITALCEMENTI ITALY	VILLA DI SERIO ITALY	F. Tosi Boiler (VU 50)	1	145	95	500	1993	

REFERENCE LIST

TRAINING

Client	Location	Type of boiler	Cap. T/h.	Press. BarA	Fuel	Year	Activity
UHDE GERMANY	SAFCO IV SAUDI ARABIA	No. 2 Macchi Titan M Boilers	150	52,9	Gas	2005	Training for operation & maintenance personnel at jobsite
BASF YPC CHINA	IPS PROJECT NANJING - CHINA	No. 2 Macchi Titan M Boilers	170	41,2	Gas	2004	Training for operation & maintenance personnel at jobsite
SNAMPROGETTI ITALY	MELLITAH LIBYA	No. 4 Macchi MVF Boilers	330	41	Gas	2004	Training for operation & maintenance personnel at Macchi office
TECHNIP ITALY	PHU MY VIETNAM	No. 1 Macchi Titan M Boiler	140	39	Gas	2003	Training for operation & maintenance personnel at Macchi office
I.P.Z.S. ITALY	FOGGIA ITALY	No. 1 Macchi SF Type Boiler	90	80	Coal	2002	Training for operation & maintenance personnel at jobsite
TECHNIP / BECHTEL CONSORTIUM FRANCE	HABSHAN U.A.E.	No. 2 Macchi Titan M Boilers No. 1 Macchi H.R.S.G.	130	54	Gas	2000	Training for operation & maintenance personnel at jobsite Commissioning and boiler start-up
TOYO ENGINEERING JAPAN	KERTIH MALAYSIA	No. 3 Macchi MVF Boilers	140	45	Oil Gas	1999	Training for operation & maintenance personnel at jobsite Commissioning and boiler start-up
SUNKYONG KOREA	MINA AL AHMADI KUWAIT	No. 1 Macchi MVF Boiler	182	63	Oil Gas	1998	Training for operation & maintenance personnel at Macchi office
DAELIM KOREA	TERENGGANU MALAYSIA	No. 3 Macchi Titan M Boilers	100	45	Oil Gas	1997	Training for operation & maintenance personnel at Macchi office

REFERENCE LIST

TRAINING

Client	Location	Type of boiler	Cap. T/h.	Press. BarA	Fuel	Year	Activity
DAELIM KOREA	TERENGGANU MALAYSIA	No. 8 Macchi Waste Heat Boilers	22	45	Rec.only	1997	Training for operation & maintenance personnel at Macchi office
PETROMIN LUBRICATING OIL REFINING (LUBEREF) SAUDI ARABIA	YANBU SAUDI ARABIA	No. 3 Macchi Titan M Boilers with SNCR	84	32	Oil Gas	1996	Training for operation & maintenance personnel at site (Saudi Arabia) Commissioning and boiler start-up
HITACHI Ltd. JAPAN	HAINAN CHINA	No. 1 Macchi H.R.S.G. with supplementary firing (fresh air)	100	112	Gas	1996	Training for operation & maintenance personnel at Macchi office Commissioning and boiler start-up

REFERENCE LIST

TURN KEY

Client	Location	Type of plant	Press. BarA	Year	Scope of supply
ASM ITALY	BRESCIA ITALY	Cogen. for District Heating Coal firing	70 MW	1989	Design - Procurement - Fabrication - Erection - Commissioning (The turbine was existing)
IPZS ITALY	FOGGIA ITALY	Cogeneration plant Coal firing	20 MW	1982	Design - Procurement - Fabrication - Erection - Commissioning (The civil work was performed and the turbine was purchased by client based on technical specification issued by Macchi)
MASCONI ITALY	VARESE ITALY	Cogeneration plant Coal firing	6 MW	1980	Design - Procurement - Fabrication - Erection - Commissioning (The civil work was performed and the turbine was purchased by client based on technical specification issued by Macchi)
SAFTA ITALY	PIACENZA ITALY	Cogeneration plant Oil - Gas firing	3,5 MW	1978	Design - Procurement - Fabrication - Erection - Commissioning