

## References

### Air Cooled Condenser

Project	MW	Customer	Scope	Place
WANGJIALING	2 x 50 MW	Shouhang	Design and Engineering	Wangjialing, China
DANANHU	2 x 310 MW	Shouhang	Design and Engineering	Hami, China
ESFAHAN II	1 x 480 MW	MAPNA Group	Design and Engineering	Esfahan, Iran
ABADAN	2 x 480 MW	MAPNA Group	Design and Engineering	Abadan, Iran
QINGTONGXIA	2 x 330 MW	Shouhang	Design and Engineering	Qingtongxia, China
LIUPANSHAN	2 x 330 MW	Shouhang	Design and Engineering	Guyuan, China
HENG DONG	1 x 55 MW	Shouhang	Design and Engineering	Yulin, China
NINGDONG	2 x 330 MW	Shouhang	Design and Engineering	Lingwu, China
LINFENHEXI	2 x 330 MW	Shouhang	Design and Engineering	Linfen Hexi, China
ZHUNNENG	2 x 330 MW	Shouhang	Design and Engineering	Zhunneng, China
BINCHANG	2 x 220 MW	Shouhang	Design and Engineering	Chenggnau, China
KEYOUZHONG	1 x 330 MW	Shouhang	Design and Engineering	Tongliao, China
DIAOBINGSHAN	2 x 300 MW	Shouhang	Design and Engineering	Liaoning, China
JINNENG	2 x 330 MW	Shouhang	Design and Engineering	Huarunjineng, China
YUNGANG	2 x 330 MW	Guodian	Design and Engineering	Datong, China
HUAYUE	2 x 60 MW	Shouhang	Design and Engineering	Beijiacao, China
DATONG 3	2 x 660 MW	Guodian	Design and Engineering	Datong, China
NANZHUANG	2 x 135 MW	Shouhang	Design and Engineering	Yangquan, China
DONGSHENG	2 x 330 MW	Guodian	Design and Engineering	Chaijialiang, China
KNAPSACK Biomass Plant	2 x 25 MW	AE&E Inova GmbH	Design and Engineering	Knapsack, Germany
SONNE Biomass Plant	2 x 25 MW	AE&E Inova GmbH	Design and Engineering	Sonne, Germany
HUAIAN	2 x 330 MW	Guodian	Design and Engineering	Huai'An, China
WUSITAI	2 x 300 MW	Harbin Air Conditioning	Design and Engineering	Wusitai, China
XILINHAOTE	2 x 300 MW	Harbin Air Conditioning	Design and Engineering	Xilinhaote, China
ZHUNGER	2 x 300 MW	Harbin Air Conditioning	Design and Engineering	Zhunge'er, China
ZUOQUAN	2 x 50 MW	Harbin Air Conditioning	Design and Engineering	Zuoquan, China
WULASHAN	2 x 300 MW	Harbin Air Conditioning	Design and Engineering	Wulashan, China
Steam Power Plant	800 MW		Concept-Design for ACC	Germany

### Owners Engineering

Project	MW	Customer	Scope	Place
LA ZARZA	400 MW	EGL Energiegesellschaft	Cold end performance optimization	La Zarza, Spain
LA ZARZA	400 MW	EGL Energiegesellschaft	CCPP life time performance prediction	La Zarza, Spain
KVA Thun		AVAG KVA AG	Problem analysis feedwater system	Thun, Switzerland
KVA Hagenholz		ERZ Zürich	Plant upgrade analysis and engineering	Zürich, Switzerland

## Plant Systems

Project	MW	Customer	Scope	Place
IMANTA RIGA	75 MW	Turbomach SA	Concept design	Riga, Lettland
TOCOPILLA	400 MW	Alstom (Schweiz) AG	Technical project management	Tocopilla, Chile
TERMOBAHIA	200 MW	Alstom (Schweiz) AG	Technical project management	Mataripe, Brasil
TALLAWARRA	400 MW	Alstom (Schweiz) AG	Technical project lead plant systems	Tallawarra, Australia
AGHADA	430 MW	Alstom (Schweiz) AG	Technical project lead plant systems	Midleton, Ireland
MALAGA	400 MW	Alstom (Schweiz) AG	Technical project lead plant systems	Malaga, Spain
SOTO4	400 MW	Alstom (Schweiz) AG	Technical project lead plant systems	Soto de Ribera, Spain
LANGAGE	800 MW	Alstom (Schweiz) AG	Technical project lead plant systems	Plymouth, UK
Reference		ABB	Modularization and cost reduction	Baden, Switzerland
Development		ABB	Analysis and design gas boosting	Baden, Switzerland
Reference Plant	400 MW	Alstom (Schweiz) AG	Performance prediction CCPP with ACC	Baden, Switzerland
DOHA GT	250 MW	Creative Power Solutions	Engineering of power plant systems	Doha, Kuwait

## Turbo Machinery Systems

GISSI	150 MW	Alstom (Schweiz) AG	System safety analysis (ISO 61508/11)	Gissi, Italy
LANGAGE	300 MW	Alstom (Schweiz) AG	System safety analysis (ISO 61508/11)	Plymouth, UK
Container GenSets	< 4 MW	GE Energy Jenbacher	Modularization and cost reduction	Jenbach, Austria
Functional Module	< 100 km3/h	MAN Turbo AG	Modularization and cost reduction	Düsseldorf, Germany
ASSALOUYEH	750 MW	MAPNA Turbine (TUGA)	Engineering of auxiliary systems	Assalouyeh, Iran
New GT Aux. Systems	272 MW	Siemens AG	Basic and detail design of new standard	Mulheim, Germany
New GT Aux. Systems	163 MW	Siemens AG	Basic and detail design of new standard	Mulheim, Germany
New GT Aux. Systems	265 MW	Alstom (Schweiz) AG	Concept design of new standard	Baden, Switzerland
Single Lift Aux. Module	75 MW	Siemens AG	Basic and detail design of new standard	Mulheim, Germany
Re-Cooler Standarization	55 - 265 MW	Alstom (Schweiz) AG	Modularization and cost reduction	Baden, Switzerland
Various		Man Turbo Systems	Design and Project Engineering	Düsseldorf, Germany
TUNG HSIAO 4/5	570 MW	Alstom (Schweiz) AG	Heavy oil to LNG fuel system conversion	Tung Hsiao, Taiwan
Reference Plant	125 MW	Japan Gas Turbines	Design fuel and Water Control Systems	Tokyo, Japan
SON REUS	55 MW	Alstom Power AG	Design Single Lift Auxiliaries System	Mallorca, Spain
Various		Pratt & Whitney Canada	Design and Project Engineering	Quebec, Canada
Various		GE Packaged Power	Design and project engineering	Oslo, Norway
Various		HITACHI Power Systems	Design and project engineering	Tokyo, Japan
Various		Stewart & Stevenson Power	Design and project engineering	Houston, TX, USA
COMOS <sup>2</sup>		Sulzer Burckhardt AG	Modularization and cost reduction	Winterthur, Switzerland
Development		PALL Switzerland AG	Market and performance analysis	Basel, Switzerland
Various		KELAG AG	Design and project engineering	Basel, Switzerland
Various		KELAG AG	Design and project engineering	Baden, Switzerland
Various		KELAG AG	Design and project engineering	Basel, Switzerland

## Operater Training

### Combined Cycle Power Plants

Project	MW	Customer	Place
E-Learning Modules		Alstom (Schweiz) AG	Baden, Switzerland
TALLAWARA	400 MW	Alstom (Schweiz) AG	Tallawarra, Australia
NHON TRACH	400 MW	Alstom (Schweiz) AG	Nhon Trach, Vietnam
HAI FU	1000 MW	Alstom (Schweiz) AG	Hai Fu, Taiwan
CHIBA MILL	400 MW	Alstom (Schweiz) AG	Chiba Mill, Japan
BOWIN	400 MW	Alstom (Schweiz) AG	Bowin, Thailand
TERMOBAHIA	200 MW	Alstom (Schweiz) AG	Termobahia, Brasilia
CASTEJON	400 MW	Alstom (Schweiz) AG	Castejon, Spain
SON REUS	300 MW	Alstom (Schweiz) AG	Son Reus, Spain
SAN ROQUE	400 MW	Alstom (Schweiz) AG	San Roque, Spain
BESOS	400 MW	ABB	Besòs, Spain
API ENERGIA	230 MW	ABB	Falconara, Italy
HAZIRA	165 MW	ABB	Hazira, India
LA PALOMA	1000 MW	ABB	La Paloma, USA (California)
MONTERREY III	500 MW	ABB	Monterrey, Mexico
BLACKSTONE	500 MW	ABB	Blackstone, USA
BELLINGHAM	500 MW	ABB	Bellingham, USA
BOWIN	400 MW	ABB	Bowin, Thailand
RINGSEND	400 MW	ABB	Dublin, Ireland
HAYS COUNTY	1000 MW	ABB	Texas, USA
LAKE ROAD	1000 MW	ABB	Connecticut, USA
BAYSIDE	250 MW	ABB	Saint John, NB, Canada
ROSARITO	250 MW	ABB	Rosarito, Mexico
HERMOSILLO	250 MW	ABB	Hermosillo, Mexico
SHOREHAM	400 MW	ABB	Shoreham, UK
SENOCO	400 MW	ABB	Singapore, Singapore
PELICAN POINT	450 MW	ABB	Pelican Point, Australia
CORYTON	800 MW	ABB	Coryton, UK
MILFORD	500 MW	ABB	Milford, Connecticut, USA
ISLAND COGEN	250 MW	ABB	Island Cogen BC, Canada
TOCOPILLA	400 MW	ABB	Tocopilla, Chile
MONTERREY I	750 MW	ABB	Monterrey, Mexico
MIDLOTHIAN	1500 MW	ABB	Midlothian, Texas
ENFIELD	400 MW	ABB	Enfield, UK

### Gas Turbine Power Plants

BAKU	55 MW	ABB	Baku, Azerbaijan
TERMORIO	750 MW	Alstom (Schweiz) AG	Termorio, Brasilia
RAS ABU FONTAS	1000 MW	Alstom (Schweiz) AG	Ras Abu Fontas, Qatar
GECOL	165 MW	Alstom (Schweiz) AG	Gecol, Libya
SON REUS	200 MW	Alstom (Schweiz) AG	Son Reus, Spain
TUNG HSIAO	75 MW	ABB	Tung Hsiao, Taiwan
RUWAIS	165 MW	ABB	Ruwais, Ruwais Emirates

Metro Platform Screen Doors

Project	MW	Customer	Place
MTRC Hong Kong		Kaba Gilgen AG	Hong Kong, China
MTRC Subway		KABA Gilgen	Kaoshiung, Taiwan
JFK Airport		KABA Gilgen	New York, USA
MTRC Hong Kong		KABA Gilgen	Hong Kong, China
MTRC Hong Kong		Kaba Gilgen AG	Hong Kong, China

Power Plant Simulation Training

MONTERREY III	500 MW	ABB	Monterrey III, Mexico
API ENERGIA	230 MW	Alstom (Schweiz) AG	Falconara, Italy

Power Plant Technology

ALBA	1000 MW	Alstom (Schweiz) AG	Alba, Bahrain
BANG BO	400 MW	Alstom (Schweiz) AG	Bang Bo, Thailand
AL HIDD	500 MW	Alstom (Schweiz) AG	Al Hidd, Bahrain
COCKBURN	250 MW	Alstom (Schweiz) AG	Cockburn, Australia
VALLE DE MEXICO	120 MW	Alstom (Schweiz) AG	Valle de Mexico, Mexico

Power Plant Technology

Basic Training Course		Alstom (Schweiz) AG	Baden, Switzerland
Basic Training Course		ABB	Tohoku, Japan
Basic Training Course		ABB	Falconara, Italy
Basic Training Course		ABB	Karlovac, Croatia