

PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
Black Hills Generation, Inc., Gillette, Wyoming Wygen 2 Power Plant	Gillette, Wyoming	1 x 90 MW	Coal	Engineering services for the complete power station including basic & detail design, specification, bid evaluation, vendor drawing review and issue of construction drawings.
Hanwha Engineering & Construction Co., Korea Marafiq STG Units 5 & 6	Yanbu, Saudi Arabia	2 x 250 MW	Oil	Engineering services for the complete power station including basic & detail design, specification, bid evaluation, vendor drawing review and issue of construction drawings.
Emerson Process Management, Pittsburgh PA (Controls Upgrade for Ataka Power Plant)	Ataka Suez, Egypt	2 x 150 MW 2 x 300 MW	Oil	Engineering services for replacement of existing control system with DCS. Preparation of instrument specifications, DCS I10 database, wiring drawings, cable tray layouts, cable schedules, site data collection and site supervision.
Saudi Electricity Company – Western Region, Shoaiba Thermal Power Plant Stage II: Phase I and Phase II	Saudi Arabia	6x400 MW	Oil	Engineering services including review of vendor design and drawings, witnessing of shop inspection, supervision of construction, testing and commissioning and warranty period services.
Saudi Electricity Company – Western Region, Shoaiba Thermal Power Plant Stage III	Saudi Arabia	3x400 MW	Oil	Engineering services including review of vendor design and drawings, witnessing of shop inspection, supervision of construction, testing and commissioning and warranty period services.
Babcock & Wilcox Barberton, Ohio USA (EPC) Wygen 1 – Unit 3 Power Plant of Black Hills Generation Inc.	Gillette, Wyoming	1 x 90 MW	Coal	Engineering services for the complete power station including basic & detail design, specification, bid evaluation, vendor drawing review and issue of construction drawings.
Vietnam and Gas Group, Vietnam (PETROVIETNAM) Long Phu 1 Thermal Power Plant Project	Long Phu, Vietnam	2x660 MW (Super Critical)	Coal	Site investigation work, technical design for Power Plant and Jetty, total cost estimation, and preparation of EPC ITB document.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
Babcock & Wilcox Barberton, Ohio USA	Saba, Pakistan	1 x 125 MW	Oil	Engineering services for the complete power station including basic & detail design, specification, evaluation, vendor drawing review and issue of construction drawings.
Saudi Electricity Company, Eastern Region, Saudi Arabia	Qurayyah, Saudi Arabia	2 x 625 MW	Oil	Design and engineering of interconnection of CWP discharge pipes including site survey, preparation of design basis report and preparation of tender documents.
Saline Water Conversion Corporation (SWCC), Saudi Arabia Shoaiba Phase 1 and Shuqaiq Thermal Power Plant retrofit	Shoiaba, Saudi Arabia	5 boilers 400 TPH each	Crude/ HFO	Engineering services including review of vendor design and drawings, and supervision of site construction, testing and commissioning for retrofit of electrostatic precipitator and other work for burning heavy fuel oil.
	Shuqaiq, Saudi Arabia	3 boilers 400 TPH each	Crude/ HFO	
Daelim Engineering Company, Ltd., Seoul Korea (EPC for IPP) Sibolga Thermal Power Station using fluidized bed boiler	Sibolga, Indonesia	2 x 100 MW	Coal	Engineering services including calculations, specifications, system design descriptions, pressure surge analysis, piping dynamic analysis, basic design of intake and effluent disposal. Scope also included preparation of performance test procedures and start-up and commissioning procedures for the plant. Also deputed engineering personnel to Daelim office in Korea for advisory services.
Daelim Engineering Company, Ltd., Seoul Korea (EPC for IPP) Amurang Thermal Power Station using fluidized bed boiler	Amurang, Indonesia	2 x 55 MW	Coal	Engineering services including calculations, specifications, system design descriptions, pressure surge analysis, piping dynamic analysis, basic design of intake and effluent disposal. Included preparation of performance test procedures and start-up and commissioning procedures for the plant. Deputed engineering personnel to Daelim office in Korea for advisory services.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
ABB Susa Inc. New Jersey, USA Ayoun Moussa TPS	Egypt	2 x 325 MW	Oil	Detail design of multi flue concrete stack with brick flue, annular pressurizing system, lighting, lightning protection and grounding for the constructor.
Egyptian Electricity Authority, Cairo, Egypt/ Daelim Industrial Company, Korea	El Kureimat, Egypt	2 x 600 MW	Oil/Gas	Detail design and engineering for the complete civil package including CW piping, turbine building, various plant and non-plant buildings, foundations, trenches, yard piping, etc.
Public Establishment for Electricity (PEE) Syria/Forney International Dallas	Mehardeh, Syria	2 x 150 MW 2 x 165 MW	Oil/Gas	Conversion from oil firing to oil and gas firing, design, engineering, procurement, construction drawings, review of vendor drawings, and supervision of construction, commissioning.
Saudi Consolidated Electricity Company Eastern Region Qurayyah Power Plant Phase II Units 3 and 4	Qurayyah, Saudi Arabia	2 x 625 MW	Oil/Gas	Post-contract engineering including technical audit of vendor design drawing & documents, construction supervision, vendor shop inspection and supervision of startup and commissioning.
National Thermal Power Corporation, Singrauli TPS	Singrauli, India	2 x 500 MW	Coal	Study, design, engineering, procurement, review of vendor drawing and preparation of overall O&M manual.
Maharashtra State Electricity Board Chandrapur TPS	Chandrapur, India	2 x 500 MW 2 x 210 MW Total 1400 MW	Coal	Study, design, engineering, procurement, inspection, construction supervision, start-up, commissioning & initial operation.
Saline Water Conversion Corporation Medina-Yanbu Power/Desalination Plant	Medina-Yanbu, Saudi Arabia	2 x 81 MW back pressure	Oil/Gas	Post contract engineering including vendor drawing review, shop inspection, construction supervision, start-up, commissioning and warranty period services.
Atlantic Electric Company, Unit 3 B. L. England Station	Beesley Point, New Jersey, USA	160 MW	Coal	Plant rehabilitation work including engineering, preparation of construction drawings, specification and acceptance testing services for replacement of boiler feed pumps.
Atlantic Electric Company, Unit 1, 2 and 3	Beesley Point, New Jersey, USA	150 MW & 160 MW Units	Coal	Plant rehabilitation work including design and engineering for replacement of the existing soot wash sump pumps including piping, valves, controls, interlocks, power supply, etc.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
Saline Water Conversion Corporation, Al-Jubail II Power/Desalination Complex	Jubail, Saudi Arabia	10 x 137 MW Total 1375 MW	Natural Gas Oil/Crude	Study, design, engineering, procurement, inspection, supervision, start-up, commissioning, and initial operation.
Saline Water Conversion Corporation, Tabuk Power/Desalination Complex	Tabuk, Saudi Arabia	300 MW/40 MGD	Oil/Crude	Study, design, engineering, procurement, inspection, construction, supervision, start-up, commissioning, and initial operation.
Delmarva Power & Light Company, Edge Moore Plant Units 3, 4 and 5	Edge Moore, Delaware, USA	150 MW	Coal	Plant rehabilitation work including design, engineering, procurement specifications, construction drawings and technical assistance during construction for: <ul style="list-style-type: none"> - Addition of lube & seal oil filtration system - Addition of a new cooling water heat exchanger for Unit 4 - New filter & control for fly ash silo.
Korea Electric Company Yongnam TPS Units 1-2	Ulsan, Korea	2 x 220 MW Total 440 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning & initial operation.
Delmarva Power & Light Company, Indian River Plant Units 1, 2 and 3	Indian River, Delaware, USA	2 x 89 MW 1 x 160 MW	Coal	Plant rehabilitation work including design, engineering, procurement specifications, construction drawings and technical assistance during construction for: <ul style="list-style-type: none"> - Replacement of feedwater heaters - Improvement of steam heating and condensate return system.
West Bengal State Electricity Board Bandel TPS Unit 1-5	Bandel, India	4 x 90 MW 1 x 210 MW Total 570 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning & initial operation.
Western Farmers Electric Cooperative Mooreland Station Unit 3	Anadarko, Oklahoma U.S.A.	1 x 150 MW	Gas	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Karachi Electric Supply Corporation Ltd., Korangi TPS Unit 4	Korangi, Pakistan	1 x 125 MW	Gas/Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
West Bengal State Electricity Board Santaldih TPS Units 1-4	Purulia, India	4 x 120 MW Total 480 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Secretariate of Industries SOE, Tripoli West TPS	Tripoli, Libya	2 z 120 MW Total 240 MW	Oil	Design and engineering
Bihar State Electricity Board Barauni TPS Units 1-7	Birauni, India	2 z 110 MW 3 x 55 MW 3 x 55 MW Total 430 MW	Coal/Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Uttar Pradesh State Electricity Board, Patratu TPS	Patratu, India	2 x 110 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Egyptian Electricity Authority (WECCO) Cairo West Power Station Units 1-4	Cairo, Egypt	3 x 90 MW 1 x 90 MW Total 360 MW	Oil	Design, engineering, construction supervision, start-up, commissioning and initial operation.
Electric Generating Authority of Thailand, N. Bangkok TPS Unit and 2	North Bangkok, Thailand	2 x 77 MW	Oil/ Lignite	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Electric Generating Authority of Thailand, N. Bangkok TPS Unit 3	North Bangkok, Thailand	1 x 87 MW Total 242MW (Units 1,2 & 3)	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
The Durgapur Projects Ltd., West Bengal Durgapur, TPS Units 3-6	Durgapur, India	3 x 77 MW 1x 100 MW	Coal	Design, engineering, procurement, construction supervision, start-up, commissioning and follow up consultation.
Karachi Electric Supply Corporation Ltd., Korangi TPS Units 1 & 2	Korangi, Pakistan	2 x 75 MW	Gas	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Kennecott Cooper Corporation, Magna Central Power Station Unit 4	Magna, Utah USA	1 x 75 MW	Coal	Design engineering, procurement, inspection, construction supervision, start-up and commissioning.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
Jordan electricity Authority Hussein TPS Unit 4-6	Zerqa, Jordan	3 x 66 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Jordan Electricity Authority Hussein TPS, Unit 7	Zerqa, Jordan	1 x 66 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Corporacion Electrica La Costa Atlantico Barranquilla TPS, Unit 3	Barranquilla, Colombia	1 x 66 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Karachi Electric Supply Corporation, Ltd., "B" Station Extension	Karachi, Pakistan	2 x 33 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning, initial operation and follow up consultation.
Madhya Pradesh Electricity Board Satpura TPS, Units 1-5	Satpura, India	5 x 62.5 MW Total 313 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Water and Power Development Authority Multan TPS Units 3 & 4	Multan, Pakistan	2 x 65 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Gujarat State Electricity Board, Dhuvaran TPS, Units 1-4	Dhuvaran, India	4 x 63.5 MW Total 254 MW	Coal/Oil Natural Gas	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Damodar Valley Corporation, Bokaro TPS, Units 1-4	Bokaro, India	3 x 60 MW 1 x 82.5 MW 263 MW Total Total 320 MW	Coal/Gas	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning, and initial operation.
Empresa Nacional De Luz y Fuerza, Somoza TPS Units 1-2	Puerto Somoza, Nicaragua	2 x 53 MW Total 1056 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Instituto Nacional De Electrificacion, Esquintla TPS, Unit 2	Esquintla, Guatemala	1 x 53 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Florida Power Corporation, Higis Power Station Unit 1	Florida, USA	1 x 44 MW	Oil	Design, engineering, procurement, inspection and construction supervision.



PARTIAL LIST OF THERMAL POWER PLANTS ENGINEERING/PROJECT MANAGEMENT

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
C.A. Electricidad de Caracas, Tocoa Plant	Arrecifes, Venezuela	2 x 40 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Uttar Pradesh State Electricity Board Obra TPS, Units 9-11	Odra, India	3 x 100 MW Total 300 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Jordan Electricity Authority Hussein TPS, Units 1-2	Zerqa, Jordan	2 x 33 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow-up consultation.
Corporacion Venezolana De Fomento, Carenero Plant, Units 1-2	Carenero, Venezuela	2 x 33 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Jordan Electricity Authority, Hussein TPS, Units 1-2	Zerqa, Jordan	1 x 33 MW	Oil	Design, engineering, procurement, inspection and construction supervision.
Uttar Pradesh State Electricity Board, Harduagangaj "B", Units 3-7	Harduagangaj India	1 x 110 MW 4 x 60 MW Total 350 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Societa Termo-Electrica, Sicilliana Palerma Steam Power Plant, Units 1-3	Palermo, Italy	3 x 30 MW Total 90 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Ryukyu Electric Power Corporation, Kin TPS Units 1-4	Kin, Okinawa	4 x 22 MW Total 88 MW	Oil	Design, engineering, procurement, construction supervision, start-up, commissioning, and follow up consultation.
Empresa Nacional De Luz y Fuerza Managua TPS	Managua, Nicaragua	2 z 16.5 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.

