

**PARTIAL LIST OF THERMAL POWER PLANTS
ENGINEERING/PROJECT MANAGEMENT**

CLIENT	LOCATION	CAPACITY	TYPE OF FUEL	SCOPE OF SERVICES
PJSC "PM" Russia (EPC) Contractor Long Phu 1 Thermal Power Project	Long Phu, Vietnam	2 x 600 MW *(Supercritical)	Coal	Engineering Services for the complete power plant including basic and 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 275 MW	Oil	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	Yanbu Saudi Arabia	3 x 275 MW	Oil	Engineering review services for Mechanical and I&C works for the complete power station for basic engineering work.
Vietnam Oil and Gas Group, Vietnam (PETROVIETNAM) Song Hau 1 Thermal Power Plant Project	Song Hau Vietnam	2 x 600 MW* (Supercritical)	Coal	Site investigation work, technical design for power plant and Jetty, total cost estimation and preparation of EPC ITB document.
Vietnam Oil and Gas Group, Vietnam (PETROVIETNAM) Long Phu 1 Thermal Power Plant Project	Long Phu Vietnam	2 x 600 MW* (Supercritical)	Coal	Site investigation work, technical design for power plant and Jetty, total cost estimation and preparation of EPC ITB document.
Black Hills Generation, Inc. Gillette, Wyoming Wygen 3, Unit 5 Power Plant	Gillette Wyoming U.S.A.	1 x 110 MW	Coal	Engineering services for the complete civil works including basic & detail design, specification, bid evaluation, vendor drawing review and issue of construction drawings.
Black Hills Generation, Inc. Gillette, Wyoming Wygen 2, Unit 4 Power Plant	Gillette, Wyoming, U.S.A.	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.
Emerson Process Management, Pittsburgh, PA	Ataka, Suez, Egypt	2 x 150 MW 2 x 400 MW	Oil	Engineering services for replacement of existing control system with DCS. Preparation of instrument I specifications, DCS 110 database, wiring drawings, cable tray layouts, cable schedules, site data collection and site supervision..



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Saudi Electricity Company – Western Region, Shoaiba Thermal Power Plant Stage II: Phase I and Phase II and Stage III	Saudi Arabia	9 x 400 MW	Oil	Engineering services including review of vendor design and drawings, witnessing of shop inspection, supervision of construction, testing and commissioning of the expansion of the plant by adding 3 units of 350 MW each oil fired steam power generating units.
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.
Daelim Engineering Company, Ltd., Seoul, Korea (EPC for IPP) Sibolga Thermal Power Station using fluidized bed boiler.	Thermal Power 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.
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 tender documents.
ABB Sousa 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.



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Saline Water Conversion Corp (SWCC) Saudi Arabia Shoaiba Phase I and Shuqaiq Thermal Power Plant retrofit	Shoaiba, Saudi Arabia Shuqaiq, Saudi Arabia	5 boilers 400 TPH each 3 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.
Saudi Consolidated Electricity Company Eastern Region Qurayyah Power Plant Phase II Units 3 &4	Qurayyah, Saudi Arabia	2 x 615 MW	Oil/Gas	Pre-contract engineering including technical audit of vendor design drawing & documents, construction supervision, vendor shop, inspection and supervision of start-up 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 Corp (SWCC) 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 and 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 1m 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.



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Saline Water Conversion Corp (SWCC) Al-Jubail II Power/Desalination Complex	Jubail, Saudi Arabia	10 x 137 MW Total 1370 MW	Natural Gas Oil/Crude	Study, design, engineering, procurement, inspection, supervision, start-up, commissioning & initial operation.
Saline Water Conversion Corp (SWCC) Tabuk Power/Desalination Complex	Tabuk, Saudi Arabia	300 MW/40 MGC	Oil/Crude	Study, design, engineering, procurement, inspection, supervision, start-up, commissioning & initial operation.
Delmarva Power & Light Company, Edgemoor Plant, Units 3, 4 & 5	Edgemoor, 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 and 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 & 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
Saline Water Conversion Corp (SWCC) Al-Jubail III Power/Desalination Complex	Jubail, Saudi Arabia	2 x 65 MW	Natural Gas Oil/Crude	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning & initial operation.



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Western Farmers Electric Cooperative Mooreland Station Unit 3	Anadarko, Oklahoma, USA	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.
Egyptian Electricity Authority (WECO) Cairo, West Power Station Unit 1-4	Cairo, Egypt	3 x 90 MW 1 x 90 MW Total 360 MW		Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Electric Generating Authority of Thailand, NM, Bangkok TPS Unit 1 and 2	North Bangkok, Thailand	2 x 77 MW	Oil.Lignite	Design, engineering, construction supervision, start-up, commissioning and initial operation.
Electric Generating Authority of Thailand, NM, Bangkok TPS Unit 3	North Bangkok, Thailand	1 x 87.5 MW Total 242 MW (Units 1, 2 & 3)	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and initial operation.
Karachi Electric Supply Corporation, Ltd. Korangi TPS Units 1 & 2	Korangi, Pakistan	3 x 75 MW	Gas	Design, engineering, procurement, construction supervision, start-up, commissioning and follow up consultation.
Kennecott Cooper Corporation, Magno Central Power Station Unit 4	Magna, Utah USA	1 x 75 MW	Coal	Design, engineering, procurement, construction supervision, start-up and commissioning.
Jordan Electricity Authority Hussein, TPS Unit 4-6	Zerqa, Jordan	3 x 66 MW	Oil	Design, engineering, procurement, construction supervision, start-up and commissioning
Jordan Electricity Authority Hussein, TPS Unit 7	Zerqa, Jordan	1 x 66 MW	Oil	Design, engineering, procurement, construction supervision, start-up and commissioning



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Corporacion Electrica La Costa Atlantico Barranquilla TPS Unit 3	Barranquilla, Colombia	1 x 66 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning, initial operation 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.
Water and Power Development Authority Multan TPS, Units 3 & 4	Multan, Pakistan	2 x 65 MW	Gas	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Empresa Nacional De Luz y Fuerza, Somoza TPS Units 1-2	Puerto Somoza, Nicaragua	2 x 53 MW Total; 106 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		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.
C.A. Electricidad de Caracas, Tocoa Plant	Arrecifes, Venezuela	2 x 40 MW	Oil	Design, engineering, procurement, construction supervision, start-up and commissioning.
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.



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Jordan Electricity Authority Hussein, TPS Units 1-2	Zerqa, Jordan	1 x 33 MW	Oil	Design, engineering, procurement, inspection, and construction supervision,
Societa Termo-Electrica, Sicilliana Palermo 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 Kim TPS Units 1-4	Kin, Okinawa	4 x 32 MW Total 88 MW	Oil	Design, engineering, procurement, construction supervision, start-up, commissioning and follow up consultation
Lignite Authority Krabi TPS, Units 1-2	Krabi, Thailand	2 x 20 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Empresa Nacional De Luz y Fuerza, Managua TPS Units 1-2	Managua, Nicaragua	2 x 16.5 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Corporacion Venezolana De Fomento, Puerto La Cruz Plant, Units 1-2	Puerta La Cruz, Venezuela	2 x 16.5 MW	Coal	Design, engineering, procurement, construction supervision, start-up and commissioning.
City of Dover McKee Run Station New Municipal TPS Units 1-2	Dover, Delaware, USA	2 x 16.5 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Borough of Lansdale Municipal Power Plant	Lansdale, Pennsylvania USA	1 x 15.62 MW	Coal	Design and engineering.
La Electricidad de Maracay, La Cabrera Power Plant, Unit 3	La Cabrera, Venezuela	1 x 15 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Corporacion Venezolana De Fomento, Lobatera Plant, Units 1-2	Lobatera, Venezuela	2 x 12.65 MW	Coal/Oil	Design, engineering, procurement, inspection, construction supervision, start-up and commissioning.
Sebring Utilities Commission, Sebring TPS, Unit 1	Sebring, Florida USA	1 X 12.65 mw	Coal/Oil	Design, engineering, procurement, inspection and construction supervision.



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Florida Power Corporation Bayboro Station Extension	Florida, USA	1 x 12.5 MW	Oil	Design, engineering, procurement, inspection and construction supervision.
Virgin Islands Water & Power Authority, St. Croix Power Station, Unit 10	St. Croix, Virgin Islands	1 x 10 MW	Oil	Design, engineering, procurement, inspection construction supervision, start-up, commissioning and follow up consultation.
La Electricidad de Maracay La Cabrera Power Plant, Units 1-2	La Cabrera, Venezuela	2 x 7.5 MW	Oil	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow up consultation.
Water & Power Authority Quetta TPS, Units 1-2	Quetta, Pakistan	2 x 7.5 MW	Coal	Design, engineering, procurement, inspection, construction supervision, start-up, commissioning and follow consultation.
Kawasaki Heavy Industries, Japan	Mindanao, Philippines	2 z 116 MW	Coal	Detail engineering for civil, mechanical & electrical works including specifications, bid evaluation, vendor drawing review & issue of construction drawings.
Public Establishment for Electricity (PEE) Syria/Forney International, Dallas	Mehardah, Syria	2 x 150 MW 2 x 165 MW	Oil/Gas	Conversion for oil firing to oil and gas firing, design, engineering, procurement, construction drawings, review of vendor drawings, and supervision of construction and commissioning.

