

**PARTIAL PROJECTS COMPLETED BY MTMM IN SAUDI ARABIA
WITHIN THE LAST 5 -8 YEARS**

Project	Client	Description
Shoaiba Power and Desalination Project: Phase II, Saudi Arabia	Saline Water Conversion Corporation	Engineering Consultancy, Material Inspection and Site Supervision of a Power and Desalination Plant 100,000,000 Imperial Gallons per Day (100 MIGD) to Supply Water to Jeddah and Makkah Al Mukaramah including EHV 380/110kV Switchgear, Transformers, Reactors, EHV Power Transmission with an associated SCADA system to transmit power from Shoaiba to Makkah Al-Mukaramah and to increase the pumping capacity to 40 MIGD of water from Shoaiba to Makkah al Mukaramah through the existing pipe lines. It also includes a large warehouse for spare parts.
Ash Shuqayq Steam Power Plant	Electricity Corporation	Study, Design Reports, Site Investigations and Preparation of Tender Documents (specifications) for a 1000 MW HFO Power Station, EHV (380/110kV) GIS Substation, Transformers, Reactors, SCADA System and 380KV Power Transmission System and its Interconnection with the existing Power Grid.
Rabigh Steam Power Plant	SCECO – West	Evaluation of Tenders and Preparation of Final Evaluation Report for Proposals Submitted for (4x50 Gas Turbines & 4 Heat Recovery Boilers) i.e. approximately 2 x 370 MW Combined Cycle Power Plant, Water Treatment Plant and All Other Ancillary/Auxiliary Equipment.
Yanbu Independent Water & Power Project	Suez Energy International S.A / MARAFIQ	Technical Advisor and Owner's Engineer's Services
Saline Water Conversion Corporation Rehabilitation, Saudi Arabia	Saline Water Conversion Corporation (SWCC)	Inspect and assess condition of six power and water stations in Saudi Arabia together with 31 associated pumping stations and report on necessary remedial works.

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Shoaba Independent Power & Water Project	Al-Jomaih Holding	Provision of Project Development and Owner's Engineer including Bid Submission, Post Bid Submission and Financial Modeling Services
Al – Khomra Diesel Power Plant For Al – Khomra MF Broadcasting Station, Jeddah, Saudi Arabia	Ministry of Culture & Information (MoCI)	Design Basis Study, Preparation of Tender Documents, Tendering, Evaluation of Bidders, Design Review and Project Management for the 3.8MW , 13.8kV Switchgear, Control Center and other Auxiliary Systems and Buildings.
Yamama Saudi Cement Company – New Gas Turbine Power Plant	Yamama Saudi Cement Co.	Engineering Consultancy Services: Feasibility , Preparation of Tender Documents, Tendering, Adjudication & Contract Award for a 80MW Power Plant, 13.8 kV Switchgear and auxiliary systems & buildings
10,000 m3/day Desalination Plant at Al Amoudi Beach, North Abhur, Saudi Arabia	Mohamed OA Al Amoudi General Merchant & Contracting	Preparation of Feasibility Study Report, Preliminary Project Design, Preparation of Tender Specifications, Prequalification of Bidders, Tender Evaluation and adjudication, Preparation of Contract Documents and Award of Contract. Scope of works comprised of 10,000 m3/day desalination plant, 3x2.8 MW Diesel Power Plant and Auxiliary Systems and Buildings.
Makkah-Jeddah Transmission	Electricity Corporation	Detailed Design and Specifications for Makkah-Jeddah 380KV double circuit transmission system components.
Shuqaiq IWPP Technical Advisor, Saudi Arabia	Powertek	Provide technical advisory services to the client during the bid process for the Shuqaiq IWPP.
Ras A Zour Framework, Ras Azzor, Saudi Arabia	Alkhorayef Commercial Co (Ltd)	Identify potential consortium partners.

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TETRA Communications System, Saudi Arabia	Saudi Consulting Services	Saudi Consolidated Electricity Company (SCECO) is to replace existing analogue mobile system with a terrestrial trunked radio (TETRA) system the latest in digital technology. Involves preliminary design, propagation modelling, preparation of tender documentation and cost estimating. Also to advise during site selection and surveys.
Riyadh TV Implementation	Ministry of Information	Consultancy Services for Implementation and Monitoring Phase III, design review and recommendation for acceptance, the witnessing of key factory acceptance tests, installation and build monitoring, regular progress reporting, review commissioning procedures and monitoring of the commissioning and hand-over phases.
Jazan Super Power Project, Saudi Arabia	Ministry of Information	Development of super power radio transmitter at Jazan Southern Red Sea Coast. Commission to be carried out in three phases covering civil, electrical mechanical, broadcast/communications, building services and fire design, specification and tender adjudication.
Dhahran Academy Communications System, Saudi Arabia	Consulting & Design Engineering	Define user requirement, undertake design and produce technical specification for a campus-wide communications network comprising voice, video and data services.
Aromatic Plant, Yanbu, Saudi Arabia	Born Heaters Ltd	Commissioned to carry out the design/layout for the revised process steam pipework system. This includes the stress analysis of critical piping, pipe support types and locations. Also included a design check of vendor vessel design data.
Riyadh Water Master Plan: Stage II, Saudi Arabia	Thames Water Property Division / Ministry of Water & Electricity (MoWE)	Preparation of a 20 year master plan for water supply. Involved analysis of water demand, projection of future demands, water re-use, transmission, storage reservoirs, pumping and distribution. This follows on from the previous Wastewater master plan.

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Riyadh Wastewater Master Plan, Saudi Arabia	Thames Water International (TWI) / Ministry of Water & Electricity (MoWE)	To assess the existing sewerage and sewage treatment systems against existing and planned city development. To develop plans to extend the sewerage and sewage treatment city wide with special consideration to the reuse of effluent.
Core Venture 1, Saudi Arabia	Joint Exxonmobil and BP Amoco	To assist Core Venture 1 with their negotiations towards the construction and setting to work of two 2000 MW and 150 Mgal/d power and water stations, part of the natural gas initiative in Saudi Arabia. Provided technical and financial advice to the client.
Jazan: Phase III, Ministry of Information (MOI), Saudi Arabia	Ministry of Information, Saudi Arabia	Work involved the construction of a high power medium wave broadcasting station. Provided consultancy services to Award of Contract. Role involved communications, civil, power generation and mechanical and electrical input.
DUBAL Rectifier Transformer Strategy Report, Saudi Arabia	DUBAL	Review condition of existing RT's and recommend replacement strategy with costs.
900 MW Independent Power Project, Saudi Arabia	Sumitomo	Study for possible IPP development for the client as a potential developer.
100 MIGD Study for BP AMOCO, Saudi Arabia	British Petroleum	Technical input to BP for general proposal for 1 500 MW, 100 MIGD Power/Water plant on Red Sea coast of Saudi Arabia.
Shoaiba & Assir Dust Abatement Project, Saudi Arabia	Saline Water Convention Corporation (SWCC)	Production of technical specification for the modification of boiler plants to enable heavy fuel oil to be fired instead of the present crude oil. Specifications include dust abatement equipment and handling plant.

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Al Buhairat City In Abhur, Jeddah Seaside (Population=20,000)	Al Afandi Est.	Study, Preparation of Tender Documents, Adjudication of Tenders, Recommendation Report, Preparation of Contract, Detailed Design Review, Material Inspection and Project Management.
Abha Sewage Treatment Plant Extension – Secondary & Tertiary Treatment	Directorate of Water & Sewage Department (WSD) – Assir Region	Project Management
Hail Compost Plant	SADACA Environmental Group	Investigate the Critical Factors in the Composting Process including Control of Input Material; Control of Moisture, Temperature and Oxygen; Efficiency of Plant Operation and Maintenance; Quality Control of End-Product. Provide Recommendations for the improvement of the Compost Plant.
Dammam Compost Plant	SADACA Environmental Group	Investigate Performance of the Plant.
Project No. 92P0122 Group I Project	Saudi ARAMCO	Upgrade Power Capacity - Riyadh Refinery Fuel Bulk Plant Preparation of ITB Packages for Various Modifications
Project No. 92P0123 Group I Project	Saudi ARAMCO	Cathodic Protection, Riyadh Bulk Plant - Preparation of ITB Package for Various Modification to Refinery at Riyadh Bulk plant.
Project No. 92P0137 Group I Project	Saudi ARAMCO	Preparation of ITB Package for Various Modification of Electrical Transformer at Sulayyil Bulk Plant.

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Project No. 92P0225 Group I Project	Saudi ARAMCO	Preparation of ITB Package to Modify Warning Siren System
Project No. 92P0240 Group I Project	Saudi ARAMCO	Preparation of ITB Package to Replace One Turbine Drive with Electric Motor – Riyadh Refinery.
Project No. 92P0249/250 Group I Project	Saudi ARAMCO	Preparation of ITB Package to Upgrade to Siren/Alarm and Internal Broadcasting System at Jeddah Refinery.
Relief and Emergency Isolation Valves – Rabigh Refinery	Saudi ARAMCO	Provide client with Detail Engineering Design, Procurement Assistance and preparation of Construction Bid Package for Emergency Isolation Valves and Relief Valve Isolation and Spares.
Process Fired Heater Safety Upgrades Jeddah & Yanbu Refineries	Saudi ARAMCO	Upgrade the existing Process Fired Heaters to conform to current client’s Engineering Specifications and practices & prepare detailed design in accordance w/ client’s requirements. To provide process depressuring systems, positive control of hydrocarbon streams to the heaters during light off & test facilities for critical valves.
Boiler Management and Fired Heater ESD System Rabigh Refinery	Saudi ARAMCO	Provide Detailed Design for the Burner Management System (BMS) and Fired Heater ESD System in accordance with applicable Saudi Aramco Engineering Standards and procedures.

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Replacement Desalination Units at Jeddah Refinery	Saudi ARAMCO	Detailed Design Engineering Services to prepare project proposal and preliminary design for the installation of a new Multiple-Effect Distillation (MED) unit with thermal vapour compression, upon the site of a retired MSF unit, at the Jeddah Oil Refinery
As –Built of Key Drawings For Distribution Operations	Saudi ARAMCO	Preparing, updating and revising/redrawing As-Built Key Drawings in accordance w/ Saudi Aramco Drafting Standards. This covers the locations of Yanbu Bulk Plant, Yanbu Air Fueling Unit, Tabuk Air Fueling Unit and Khamis Mushayat Air Fueling Unit.
Upgrading of Fire Fighting and Safety Facilities Yanbu Bulk Plant	Saudi ARAMCO	Provides Saudi Aramco with detailed design engineering services to prepare Construction Bid Packages and Detailed Design Packages for the upgrading of Fire Fighting and Safety Facilities.
Boiler Management and Fired Heater ESD System Rabigh Refinery	Saudi ARAMCO	Provides Saudi Aramco a Project Scope Definition (PSD) package for the Burner Management System (BMS) and Fired Heater ESD System at the Rabigh Refinery. Provide preliminary design to conform in accordance with applicable Saudi Aramco Engineering Standards and procedures. This PSD Package shall be sufficient to define the work and support the preparation of an ER quality estimate.
Fire and Gas Detection and Alarm Systems – Rabigh Refinery	Saudi ARAMCO	Provides Project Scope Definition (PSD) Package for the Fire & Gas Detection and Alarm Systems at the Rabigh Refinery and provide preliminary design to conform in accordance with applicable Aramco Engineering Standards and procedures. The package shall be sufficient to define the work & support the preparation of an ER Estimate.

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Refinery Process Fired Heater Safety Upgrade At Jeddah Refinery	Saudi ARAMCO	This project is to upgrade the existing Process Fired Heaters at the Jeddah Refinery to conform to current Saudi Aramco Engineering Specifications and Practices. To provide process depressuring systems, positive control of hydrocarbon streams to the heaters during light off and test facilities for critical valves.
As – Built Key Drawings – Phase IV – Distribution Terminals, Western Region	Saudi ARAMCO	This project provides for preparing, revising/redrawing and updating the As-Built Key Drawings for Western Region Distribution Operation according to Saudi Aramco Drafting standards. This covers Jeddah KAIA and Air Fueling Unit, and Jeddah Bulk Plant distribution terminals.
Replacement of Chillers at Musadia Building, Jeddah	Saudi ARAMCO	This project is to provide Saudi Aramco with design estimate for FCC revamp project at jeddah refinery.
Project No. 331-E	Saudi ARAMCO	Engineering Study For Process Heaters & Boilers For Riyadh Refinery.
Project No. 331-E	Saudi ARAMCO	Engineering Study For Burning LPG – GT1,2,3 & 4
Project No. 93X0127	Saudi ARAMCO / Turner, Mason and Company	Energy Optimization Study Process Heaters & Boilers Riyadh Refinery
Project No. 92S0327	Saudi ARAMCO	Optimization Study For Kingdom Distribution System

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HRH Princess Tarfa Bin Abdul Aziz Mosque in Jeddah	HRH Princess Tarfa Bin Abdul Aziz	Concept Design, Selection of Interior Finishes and Project Management.
Luxury Executive Building Complex in Jeddah	HRH Princess Al-Bandari Bint Sultan Bin Abdul Aziz	Concept Design, Bid Invitation, Evaluation of Tenders and Project Management of Residential Buildings, Playgrounds, Recreation Center, Sports Facilities, Sewage Treatment Plant, Swimming Pools, Landscaping, Standby Power, Security & Fire Fighting System.
Sharbatly Private Palace Complex in Jeddah	Shk. M. Sharbatly	Concept Design, Bid Invitation, Evaluation of Tenders and Project Management of Residential Buildings, Playgrounds, Recreation Center, Sports Facilities, Sewage Treatment Plant, Swimming Pools, Landscaping, Standby Power, Security & Fire Fighting System.
Al Shaia Residential and Shopping Center in Jeddah	Shk. Abdul Aziz Shaia	Design for Upgrade of HVAC Systems, Standby Power Supplies and Fire Fighting Systems and Construction Project Management of Implementation Phase.
Al Turaif Airport – Staff Accomodation	Rajab & Silsilah	Site Survey and Construction Management of the Upgrading.
Al Dakheel Building	Al Hamrani United Co.	Structural Study of existing High rise Building and Construction Management of Reinforcement.
Coriche Towers in Jeddah	Omar L. Alesayi For Trading, Industry & Contracting Co.	Structural Survey and Study of Five (5) Tower Blocks to determine the Structural Integrity of Each Building and Construction Management of Reinforcement.

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Al Hijaz III Shopping Mall in Makkah	Sheikh Ahmed Omar Balubaid	Concept and Design of Pre-Cast Structure for 26,000 sq.m Shopping Mall
Al Sahli Housing Complex in Tabuk	Shk. Hassan Al Sahli	Concept, Design, Contract Evaluation and Award and Project Management of Residential Buildings, Playgrounds, Recreation Center, Swimming Pool, Sewage Treatment Plant, Landscaping, Standby Power, Security and Fire Fighting Systems.
HRH Prince Turki Bin Bandar Palace in Riyadh	HRH Prince Turki Bin Bandar	Concept, Design and Project Management of Staff Accommodation, Shaded Parking Area and Mosque.
M.S Compound	Shk. M. Sharbatly	Engineering Design, Architectural Works and Site Project Management of 80 Villa Compound consisting of Residential Buildings, Playgrounds, Recreation Center, Swimming Pool, Sewage Treatment Plant, Landscaping, Standby Power, Security and Fire Fighting Systems.