



An Introduction Of Madyar Global Energy And Water Treatment Co.



Representing Creative Technologies In Utilities

○ About MGET Co.

Madyar Global Energy and Water Treatment company (MGET Co.) has been active in Iran since 2016 as a subsidiary of Makki Global Engineering and Trading GmbH (MGET GmbH) registered in Germany, and in order to provide sustainable development services for customers in the Middle East. *Madyar Global Energy and Water Treatment company (MGET Co.)* was officially registered in Iran in the year 2020. The company was founded by Ali Makki, one of the renowned figures in energy and industrial utility sectors. MGET Co. is a pioneer utility company representing creative technologies in utility sectors and intends to render services for procurement and engineering of infrastructure projects in industrial utility fields such as water desalination package in power plants, as well as oil and gas.

In addition to offering a broad spectrum of services including engineering, consulting, procurement, R&D and Finance, MGET Co. provides solutions for utilities in industrial and municipal sector and is committed to aid industries to move forward to rapid sustainable development. Green energy, Chemical Processing, Refining, Food & Beverage, Microelectronics, Metals & Mining, Pharma & Life Sciences, Power, Pulp and Paper, Upstream Oil & Gas; are just among some of industrial sectors to which MGET Co. provides its services.

With the industry leading project team and experienced staff, state-of-the-art yet cost effective technologies and methods, creative solutions, powerful logistics and globally financial credit, MGET Co. has proven to be able to provide the best services to its customers.



○ Key Management Personnel

Ali Makki

CEO of MGET GmbH
(Germany)

Founder of MGET Co.
(IRAN)

Ali Makki has more than 23 years of experiences in the water and wastewater treatment as well as industrial utility sectors. He has held technical and senior management positions in most aspects of the industrial utility fields including R&D Engineer, Field Service Engineer, Engineering Procurement, Engineering Manager, Member of board and CEO. He has a track record of working on more than 30 projects for most utility plants built in the Middle East.

He was a member of the board and engineering manager of KEEC (Kherad Energy and Environmental Company), an Iranian leading EPC contractor company in the industrial utility sectors, from 1999 to 2017. During his time with KEEC, he coordinated several projects in different industrial utility sectors such as Semnan, Shahrood, Shahid Rajaiee, Ghaen, Iranshar, Dalahoo, Fajr2 and Shazand power plants, south pars gas field phase 1,13,14,15 and 16,22 and 24, Isfahan, Tehran, Abadan Refinery, Kermanshah Polymer Plant, and Razi Petrochemical Plant. In addition, Ali was also responsible as a head of mechanical equipment procurement.

Ali incorporated Madyar Global Energy and Water Treatment Company (MGET Co.) in Iran in the field of industrial utility technology in 2020. He is also CEO of Makki Global Engineering and Trading GmbH in the Germany. The business line of MGET Co. activities include Water and Wastewater System, Steam System, Fuel System, Firefighting System, Cooling System, Small Power Plant, Renewable Energy, Food and Beverage, Commercial and Municipal, and Micro and Macro Tunneling.

○ MGET Co. Main Clients

Tana Qatar LLC

Fields of Activities: Provide Technical Services & Tunnel Excavation Engineering in Qatar



Mapna Boiler

Fields of Activities: Repair & Maintenance Management, Technical and Engineering Supports, Overhaul, Rehabilitation and Repowering for both boiler and its auxiliary Equipment.



Tana Energy

Fields of Activities: Power & Energy, Water & Wastewater Industries, Tunneling, Oil, Gas & Petrochemicals, Transportation & Civil Works

Mapna MD3

Fields of Activities: EPC Contractor for supplying electricity, steam and drinking water making use of the equipment manufactured by Mapna Group

Zolal Iran

Fields of Activities: EPC Contractor, Engineering, Procurement, Consultation



PAT (Pacific Aqua Technology)

Fields of Activities: Manufacturer and System Integrator of water and wastewater treatment equipment in California

MTS

(Micro tunneling system)

Fields of Activities: offers a wide rang of trenchless pipe jacking technologies in Germany



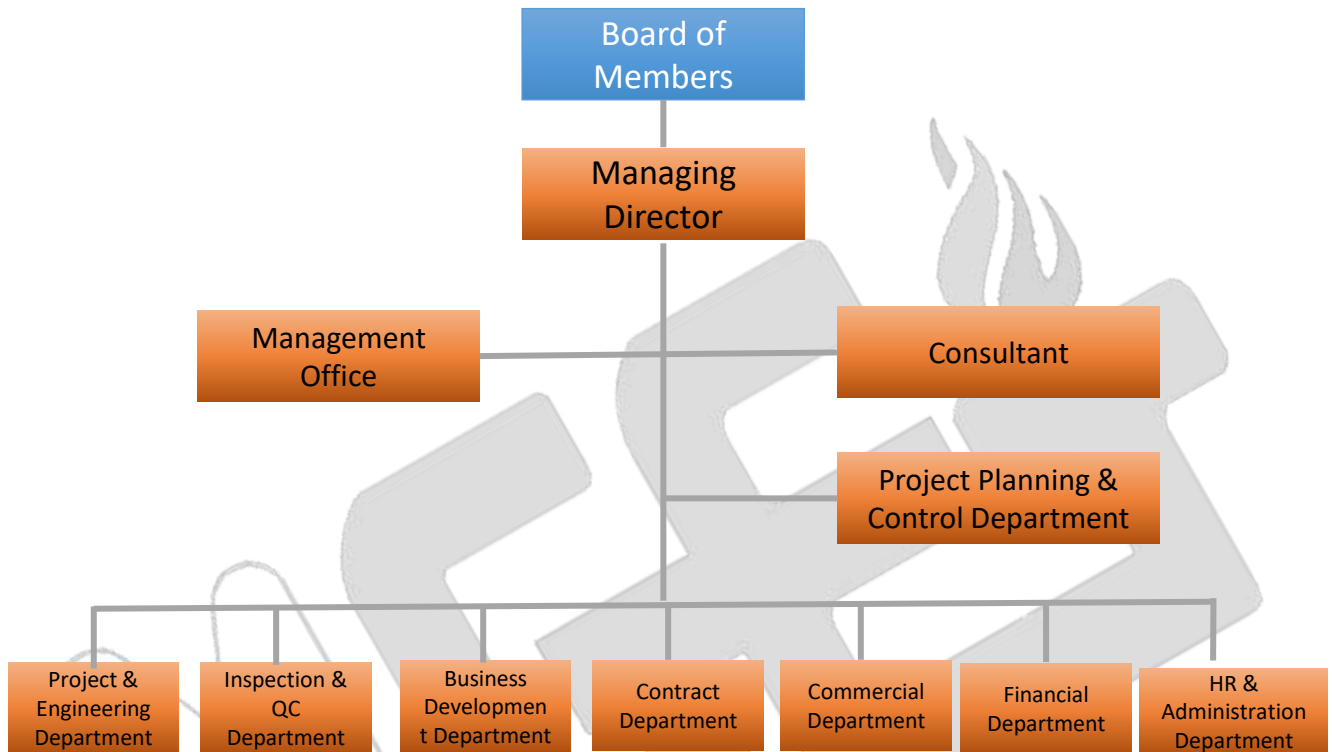
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Fields of Activities: Residential and commercial construction in the state of QATAR

○ MGET Co. Main Partners



○ Structure Of MGET Co.



○ MGET Co. Mission

- ✓ *To provide creative solutions and technologies for industrial utility sectors in order to establish sustainable development in the light of highest standards of customer service, optimal energy consumption, applying green energy and environmental care.*

○ MGET Co. Main Area of Activity



MGET Solutions

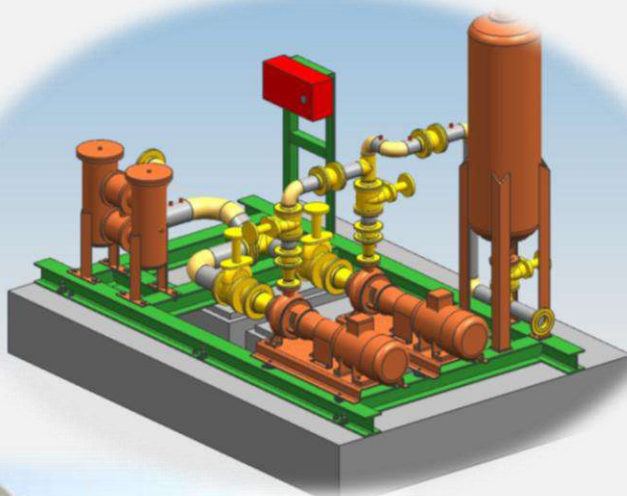
- ✓ ION exchange demineralized system.
- ✓ Electro De-Ionization (EDI) system.
- ✓ Reverse Osmosis (RO) membrane system.
- ✓ Chemical Dosing system & packages
- ✓ Ultra Filtration (UF), Micro Filtration (MF), Self Cleaning, Sand & Dual media filters
- ✓ AOC/Oily waste water treatment (API, DAF, CPI, IGF)
- ✓ Biological waste water treatment (EAAS, MBR, MMBR, SBR, ABR, UAFB, UABR, ...)
- ✓ Chemical waste treatment (Neutralization, Regeneration, Air oxidation)
- ✓ Disinfection (UV, Ozonation, Chlorination) & oxidation (AOP)
- ✓ Sludge treating (Dewatering, Screening, Sedimentation & Separation)
- ✓ Sanitary & Sewage waste treatment
- ✓ Surface water/irrigation system
- ✓ Desalination (RO, HERO, MED, MSF, EDR)
- ✓ AUX Boiler & HRSG (Hear Recovery stream boiler) system
- ✓ Commissioning & Operation supervision



Fuel System

MGET Solutions

- ✓ Storage tank (Fixed roof & Floating roof)
- ✓ Lube oil package
- ✓ Unloading bay
- ✓ Unloading pump house
- ✓ Forwarding pump house
- ✓ Main gas reducing station
- ✓ Secondary gas reducing station (60 psi)
- ✓ Odorizer package (injection & bypass type)
- ✓ Natural gas scrubber & filters & separation
- ✓ Fuel oil and Natural Gas transferring
- ✓ Loading/unloading Arms.
- ✓ Commissioning & operation supervision



Fire Fighting System

MGET Solutions

- ✓ FM/UL Firefighting Electrical, Diesel & Jockey Pumps
- ✓ Hydrants, Post Valve, Monitors, Landing Valve
- ✓ Fire Base Box & base Reel
- ✓ Foam Bladder Tank, Foam Dosing System, Foam Chamber, Foam Power
- ✓ Deluge Valve, Water Spray Nozzle System
- ✓ Fire Station Equipment, Fire Torch
- ✓ Class A, B, C Extinguisher
- ✓ Firefighting Network (Cooling, Foam, Hydrant)
- ✓ Automatic Co2 Extinguisher System
- ✓ Fire Alarm & Detection System (Addressable & Conventional)
- ✓ Commissioning, Operation & Supervision



MGET Solutions

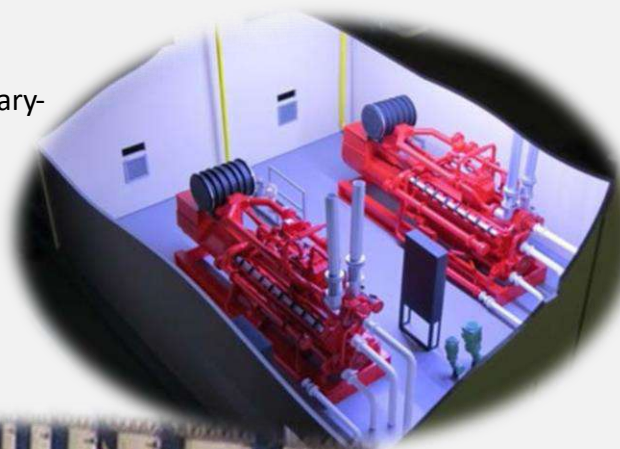
- ✓ Air Cooled Heat Exchanger (Air Cooler)
- ✓ Air Cooled Condensers (ACC)
- ✓ Water Circulating Plant
- ✓ Fabricated/Concrete Cooling Tower
- ✓ Direct (Open Circuit), Indirect (Closed Circuit), Once true Cooling System
- ✓ Side Stream Filters (Sand Filter, Self-Cleaning Filter)
- ✓ Chemical Dosing System
- ✓ Commissioning, Operation & Supervision



Small Power Plant

MGET Solutions

- ✓ Reciprocating engine (Fuel or Gas) 10 Kw up to 10 Mw
combined heat and power(CHP)
- ✓ Incineration Plant (Burn pile, Burn barrel, Moving
grate, Fixed grate. Rotary-Kilns, Fluidized bed)
- ✓ Waste receipt and handling initialization
- ✓ Combustion system (Pusher furnaces, Grates, Rotary-
Kilns, Fluidized bed)
- ✓ Heat recovery system
- ✓ Air pollution control system
- ✓ Commissioning & operation supervision



MGET Solutions

- ✓ Photovoltaic systems
- ✓ Concentrated Solar Power
- ✓ Solar Water Heating
- ✓ Wind Farms/Wind Turbines
- ✓ Small Scale Wind Power
- ✓ Geothermal Dry steam/ Flash
Steam/ Binary Cycle Power Station



MGET Solutions

- ✓ Plant Engineering and Installation
- ✓ Lines Installation
- ✓ Utility Requirements & Consumption
- ✓ Felling Packing Lines
- ✓ PET Recycling
- ✓ Maintenance Concept

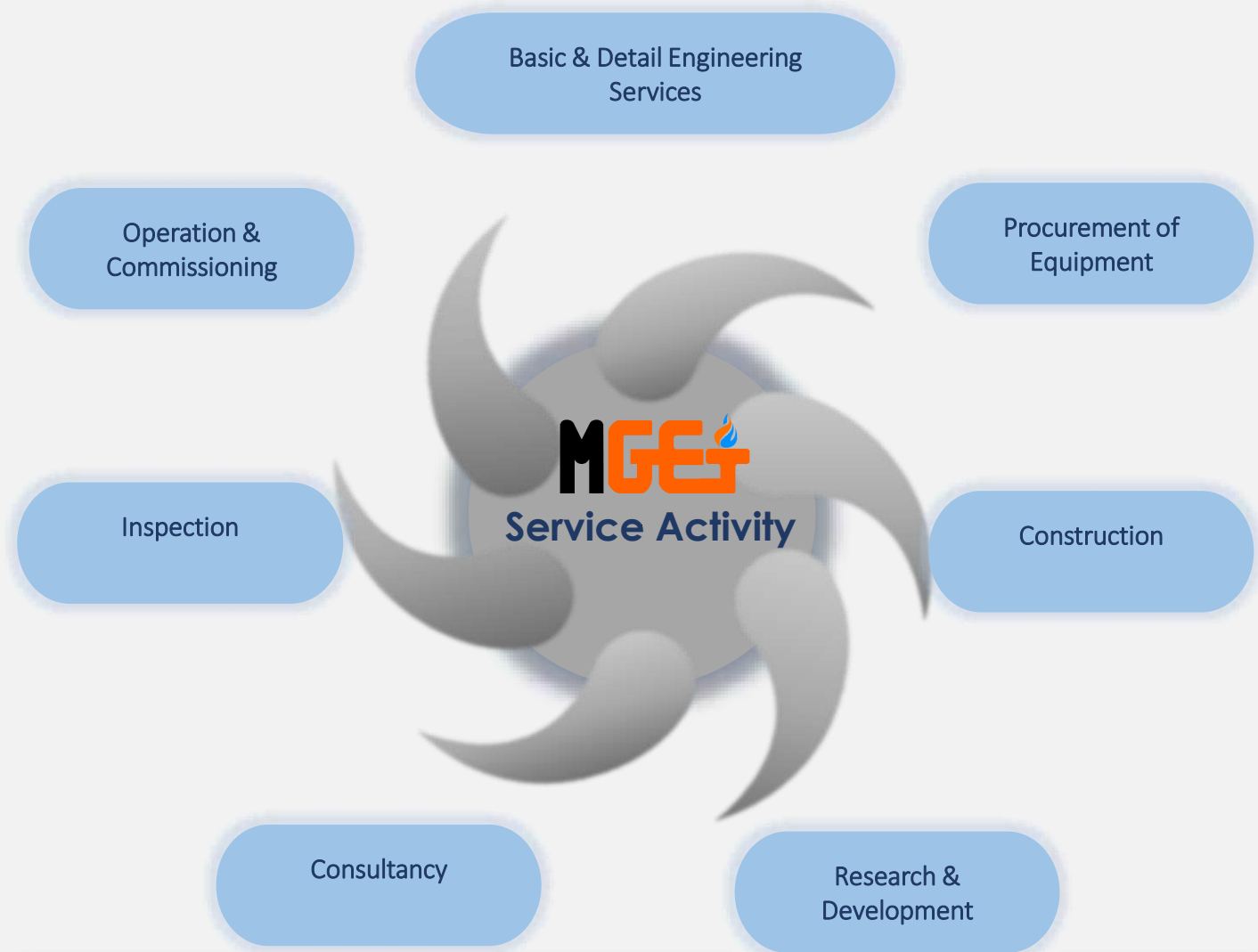


MGET Solutions

- ✓ Residential HVAC
- ✓ Industrial HVAC (on-show/off-show)
- ✓ Building Management System (BMS)
- ✓ Lighting & Lightning & Small Power Distribution
- ✓ Refrigeration & Antifreezing System (Heat Tracing)
- ✓ Cleaning Machines (Scrubber, Water Jet, Vacuum, Swiper)
- ✓ Automatic Carwash (Tunnel Type, Roll-over Type)

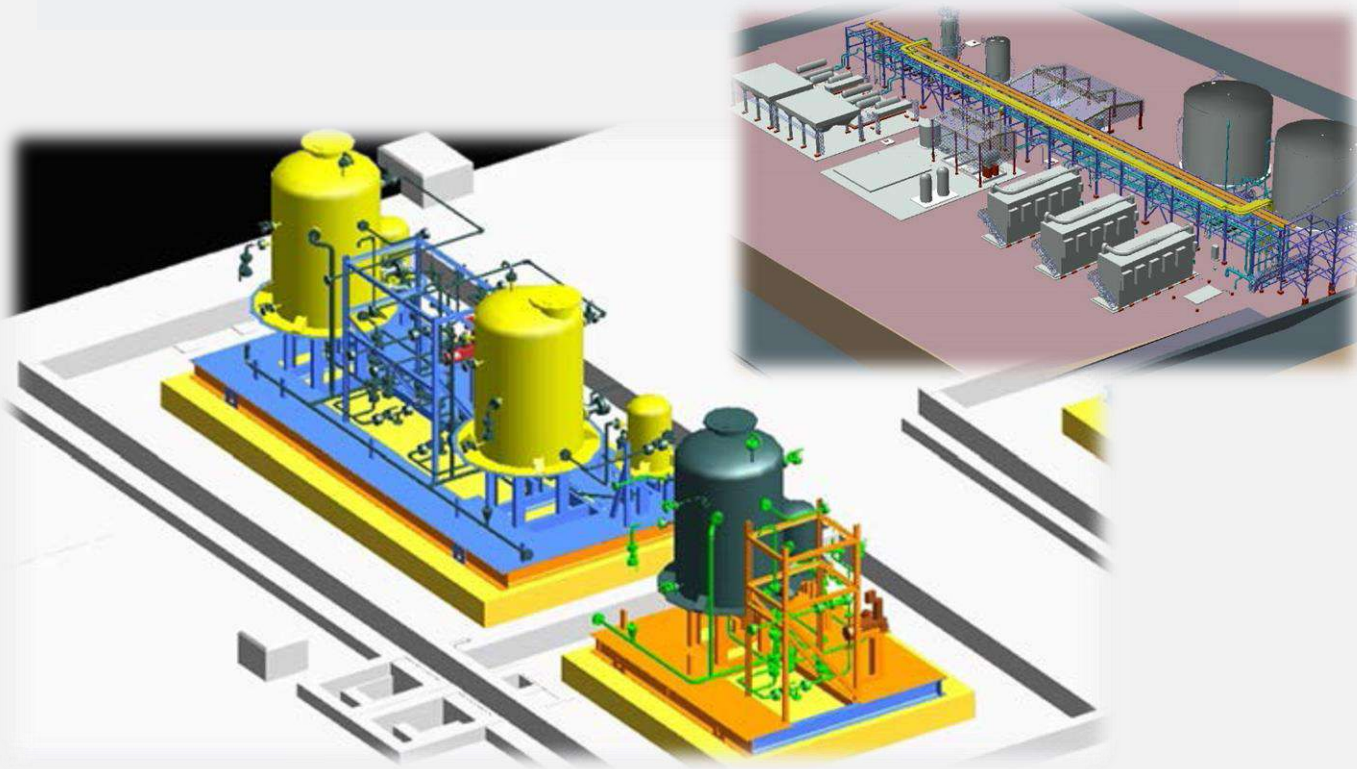


○ MGET Co. Main Service Activity



Design & Engineering

- Process, Mechanical, Piping, Instrument & Electrical basic engineering.
- Civil design guide and Basic & Detail civil engineering.
- P&ID, PFD, Design criteria, line & Valve sizing, Hydraulic calculation.
- Piping 3D model, Stress analysis for critical lines, Isometric drawing.
- Pressure vessel, Heat exchanger, Storage tank, Calculating & drawing.
- Local stress calculation, Finite element analysis for elements and fluids.
- Process, Mechanical, Piping, Instrument & Electrical Detail engineering
- Submit all datasheet, technical specification ,technical lists and description.
- Tender document and Technical clarification letters (TCL).
- Inspection Test Plan(ITP),Welding documents(WPS,PQR,..) , Inspection procedures.
- Procurement engineering and Technical bid evaluation (TBE).
- Mark up and As-built document.
- Instruction , Commissioning , Operation and Maintenance manual.



Procurement

- Pumps, Compressors, Blowers, Mixers and all other Rotary Machines
- Heat Exchangers, Vessels, Tanks, Ejectors, Static Mixes and all other Fixed Machines
- Special Equipment Same as DAF, API, IGF, CPI, HBR, UF, Ro, ...
- Fan, Gearbox, Packing, Heat Exchanger, For Cooling Systems
- Skid Mounted Packages (Chemical dosing, Fuel oil, Water & Waste water)
- Fire Fighting & Alarm Equipment and Devices
- Valves, Fitting, Pipe, Support, Expansion Joint and Piping Special Items
- Instrument and Control Devices
- Electrical & Control Equipment and Panel
- Formulated Chemical
- Supply Small Power Plant (CHP, Solar, wind)
- Industrial and Commercial HVAC Equipment
- Cleaning Machine and Carwash
- Spare Part and Special Tools
- Bulk Material for Mechanical & Electrical



03

Construction

- Construction Management
- Field Engineering
- Site Supervision



04

Consultancy

- Conceptual Design for Tenders
- Preparing Tender Documents
- Full Engineering Design of Utilities
- Feasibility Study of Projects
- BOO and BOT Financial Plan
- Super Vision Services
- Value Engineering
- Environment Impact Assessment
- Management Consultancy
- Expansion Consultancy

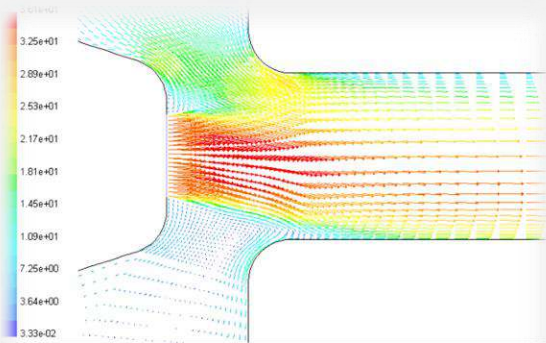


○ MGET Co. Main Service Activity

05

Research And Development

- Pilot Construction
- Custom Made Equipment
- Plant Optimization
- Advisory Services
- Contribution with Universities
- Revamp and Optimization



06

Operation And Commission

- Pre-Commissioning
- Commissioning & Startup
- Owner Training
- Technical Assistance



07

Inspection

- Goods Inspection
- Package Inspection
- Super Vision of Test
- HSE (Health, Safety, Environment)



○ **MGET Co. Projects (Completed)**



Supply of band screen and bar screen of 150,000 m³/day sea water intake

EPC contractor for 3000 m³/day desalination plant (RO system) of Choebdeh City, (Abadan)

EPC contractor for 3000 m³/day desalination plant (RO system) of Basaidu & Torgan zone, Qeshm Island

MADINAT MAWATER(BARWA MOTOR CITY) STP, Qatar

Micro Tunneling Machine Qatar Sewage System

MBR Plant For A Municipality In North East USA

Supply of instrument, PSV and ESD valve for Qeshm power plant project for MAPNA MD3

Isfahan Industrial Waste Water & Sanitary and Reuse System

Yazd Alloy Steel industrial waste treatment plant and reuse water system engineering services

Sirjan steel complex waste water treatment plant system engineering services

Shadegan steel complex water and waste water system engineering services.

Capacity: 150,000 m³/day sea water intake

Location: Lian, Bushehr

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- Operators Training

Client: Mapna Boiler

Contractor: MGET Co.

Commencement: 2021

Status : Completed

Project description:

The project includes supplying equipment of Band / Bar Screens related to the Lian desalination plant located in Bushehr with capacity of 150,000 cubic meters of seawater intake per day. The project is ordered by Mapna Boiler Company. MGET Co is the contractor of this project and responsible for supplying two set of Bar Screen and two set of Band Screen machines. The machines are supplied from ESLI company the Turkey brand and MGET Co is also responsible for supervising the installation and commissioning of the purchased machines.

Cable Operated Bar Screen:

Cable screen are used to hold solids in all kinds of treatment plants. It is suitable for wide and depth channels in accordance with operation. It is preferred in deep channels for the protection of the equipment and increase the efficiency of the system. Allows the coarse or fine screen to be cleaned with time or level adjustment. The scraper bucket, which is moved with one or more ropes according to the size of the system, provides cleaning of the grid through the stripping the solids held on the surface of the screen. The solids material collected by the bucket is transported to the top of the system and automatically discharged to the waste collection container.



Travelling Band Screen:

Band screens are the most efficient means of removing suspended solids for primary wastewater applications for raw water intake and cooling water treatment. The fully automatic operation requires minimal operator intervention resulting in reduced operating costs

Project Name: BWRO (2*1500 m³/day Brackish Water RO System)
Desalination Plant For Choebdeh City (Abadan)



Capacity: 3000 m³/day

Location: Choebdeh,
Abadan City, Khuzestan
Province, Iran

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Tana Energy
Management Co.

Contractor: MGET

Commencement: 2020

Status: Completed

Project description:

BWRO desalination plant for National Iranian Water & Wastewater Company in KHUZESTAN province of IRAN is established by TANA Energy Co. MGET is TANA Energy Co. Contractor in this plant.

3000 m³/day permeate water with feed water in EC range of 1500 μ S/cm to 25000 μ S/cm is produced.

The feed water for this plant is taken from an open channel which is extracted from Bahmanshir River and is entered to reverse osmosis system after pretreatment.

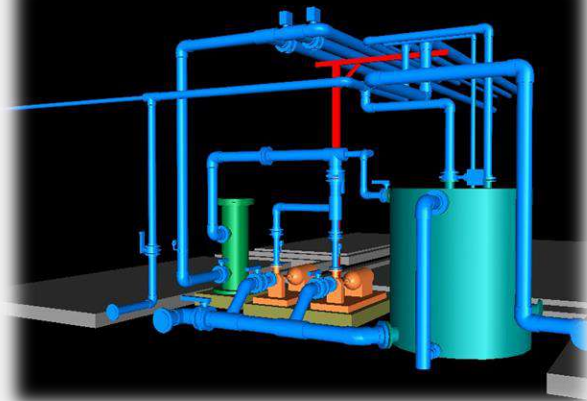
Reverse Osmosis Plant consists of following main process equipment:

- Cartridge filters
- High pressure pumps
- RO Blocks
- Dosing Packages
- CIP & Flushing package

Highlight:

The most challengeable part of this plant is as following:

- Existence of significant levels of Bacteria, coliform and overall biological microorganisms in Feed water
- Wideness of feed water EC range
- Operation of RO system and pretreatment due to water analysis



Project Name: SWRO (1*3000 m³/day Sea Water RO System)
Desalination Plant For Qeshm Island



Capacity: 3000 m³/day

Location: Torgan zone,
Qeshm Island, Hormozgan
Province, Iran

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- RO Skid Installation
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Tana Energy
Management Co.

Contractor: MGET

Commencement: 2021

Status: Completed

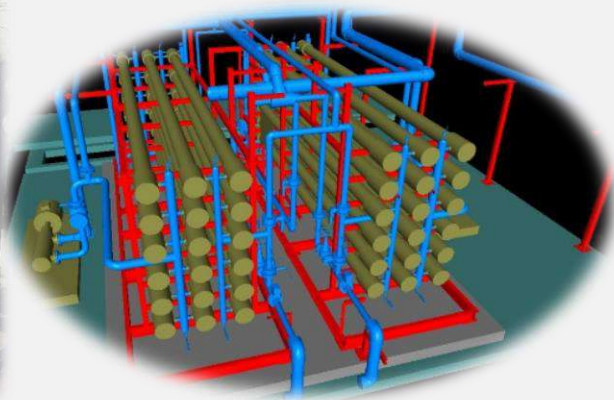
Project description:

SWRO desalination plant for National Iranian Water & Wastewater Company in Hormozgan province of IRAN is established by TANA Energy Co. MGET is TANA Energy Co. Contractor in this plant. 3000 m³/day permeate water with feed water in TDS range of 35000-42300 ppm is produced.

The raw sea water to be supplied from Persian Gulf Sea, and after pretreatment is pumped to RO/ re-mineralization system.

Water Treatment Plant consists of following main process equipment:

- Well water pumps
- Dual Media filters and backwash system
- Raw water storage
- RO feed pumps
- Cartridge filters
- High pressure pumps
- RO Blocks
- Dosing Packages
- CIP & Flushing package



Project Name: SWRO (1*3000 m3/day Sea Water RO System)
Desalination Plant For Qeshm Island



Capacity: 3000 m3/day

Location: Basaidu zone,
Qeshm Island, Hormozgan
Province, Iran

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- RO Skid Installation
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Tana Energy
Management Co.

Contractor: MGET

Commencement: 2021

Status: Completed

Project description:

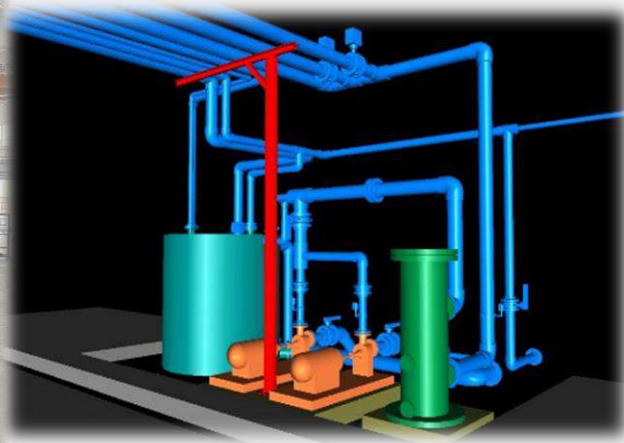
SWRO desalination plant for National Iranian Water & Wastewater Company in Hormozgan province of IRAN is established by TANA Energy Co. MGET is TANA Energy Co. Contractor in this plant.

3000 m3/day permeate water with feed water in TDS range of 35000-42300 ppm is produced.

The raw sea water to be supplied from Persian Gulf Sea, and after pretreatment is pumped to RO/ re-mineralization system.

Water Treatment Plant consists of following main process equipment:

- Well water pumps
- Dual Media filters and backwash system
- Raw water storage
- RO feed pumps
- Cartridge filters
- High pressure pumps
- RO Blocks
- Dosing Packages
- CIP & Flushing package



Capacity: 740 m³/day

Location: Rawdat Rashed road, UMM GARN, Qatar

Key Project Features:

- Concept & Basic Design
- Detail Design

Client: Tana Energy Management Co.

Contractor: MGET

Commencement: 2020

Status: Completed

Project description:

STP plant for Madinat Mawater is established by Tana Energy Management Co. MGET is engineering joint venture with TANA in this project.

740 m³/day domestic wastewater is treated with MBBR package which is sewage treatment process using Bio Film Carriers in which the organic digestive microorganisms get attached to specially designed plastic media. The Bio Media become carriers that build floating bed in the waste water.

Collected wastewater from network are routed to inlet pump station and then to transfer to STP. Effluent of this package after filtration is used for irrigation purposes.

Waste Water Treatment Plant consists of following main process equipment:

- Inlet pump station
- Screening unit
- Grit removal unit
- Equalization unit
- MBBR units
- Clarifiers
- Disinfection unit
- Aerobic digester
- Sludge drying units



Highlight:

The most challengeable part of this plant is as following:

- Variations in the influent concentration and abrupt changes in organic and hydraulic load, PH, temperature and toxicity



Location: Doha , Qatar

Key Project Features:

- Procurement Engineering
- Equipment Supply
- Installation Supervision

Client: Tunneling Professional company

Contractor: Tana Trading, Contracting and Technology

Commencement: 2019

Status: Completed

Project description:

Excavation and installation of 3.4 km RC or HDPE pipe of sewage system for Doha, Qatar ordered by Tunneling Professional Co. to Tana Trading, Contracting and Technology company . MGET was Tana Trading, Contracting and Technology company Contractor to select and supply Micro tunneling system for ID 2400 with upsize kit 3000 with drive length 400 m

The machine is supplied from MTS Microtunneling system GmbH the German brand in this plant.

Highlight:

The most challengeable part of this plant is as following:

- The drive length changed from 400 to 610 m and the calculation should be revised accordingly



Capacity: 1420 m3/day

Location: Rhode Island
State, North East USA

Key Project Features:

- Detail Design
- Procurement Engineering
- Installation Supervision
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Schwing Bioset Co.

Contractor: MGET

Commencement: 2018

Status: Completed

Project description:

MBR plant for Orbit Energy Rhode Island, LLC in Rhode Island state of USA is established by Schwing Bioset Co. MGET is engineering joint venture with PAT in this project.

1420 m3/day nitrified wastewater is treated with MBR package which is a hybrid system to combine a biological process and a membrane filtration. It is combination of biological wastewater treatment process and membrane process of ultrafiltration.

The feed waste water to be supplied from nitrification package, and after MBR package is pumped to effluent channel.

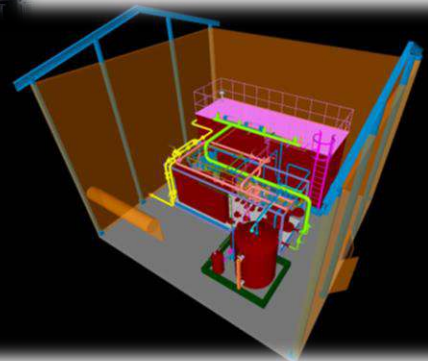
Waste Water Treatment Plant consists of following main process equipment:

- MBR feed tank
- Membrane Tank & MBR Trains
- Membrane DIP Tank & CIP Package
- Vacuum Pump and Backwash Tank
- Recycle and Excess Sludge Pumps
- Blowers
- Dosing Packages

Highlight:

The most challengeable part of this plant is as following:

- Small Footprint of the plant
- Quality of Effluent



Location: Qeshm Island,
Power Plant

Key Project Features:

- Equipment Supply

Client: Mapna MD3

Contractor: MGET

Commencement: 2020

Status: Completed

Project description:

The project includes Supplying of PSV and ESD valve for Qeshm Power Plant project and is ordered by Mapna MD3 Company. MGET Co is the contractor of this project and responsible for supplying PSV and ESD valve.



Capacity:

Oily water: 5600 m3/day

Reuse water: 13500 m3/day

Sanitary: 190 m3/day

Location: Isfahan Refinery,
Isfahan Province, Iran

Key Project Features:

- Engineering Services by
MGET Manager

Client: NEYR PERSE

Contractor: Zolal IRAN

Commencement: 2018

Status: Finished

Project description:

Design of oily wastewater treatment, and sanitary sewage and reuse treatment is done for Isfahan Oil Refinery Company by **Neyr Perse**. MGET manager is engineering MC with Zolal Iran in this project.

The aim is to achieve the environmental standard for disposal and to reuse water in the processing plant and principally as a make up for cooling towers or inlet water for demineralizing unit.

Oily waste water flow to oily wastewater treatment unit with oil content of 1000 ppm which is reduced to 10 ppm after treatment.

Also, oily water from boiler & cooling tower blow down and demi package are combined and flow to reuse treatment unit with oil content of 5-10 ppm in Reuse Treatment Plant.

Domestic sanitary of the refinery plant is routed to sanitary package.

In general Plant consists of following main process equipment:

- Oily Wastewater Treatment unit
 - API
 - Oily Waste DAF
 - Activated Sludge Aeration unit and clarification
 - Sludge Digestion and Dewatering
 - Disinfection unit
 - Sand Filtration
- Reuse unit
 - Reuse DAF
 - Self-cleaning filter
 - UF trains
 - Reverse Osmosis Package
 - Sanitary Package
 - Lift Station
 - Extended Aeration & Clarification
 - Disinfection unit

Highlight: The most challengeable part of this plant is as following:

- Variations in the reuse influent BOD and COD
- Achieving Maximum Recovery of Reuse unit



Project Name: Yazd Alloy Steel Industrial Waste Treatment Plant and Reuse Water System



Capacity: 78120 cubic meters per day

Location: Yazd province, Yazd city, 24 km of steel road

Key Project Features:

- Engineering Services by **MGET Manager**

Client: Yazd Alloy Steel

Contractor: Absun Palayesh

Commencement: 2019

Status: Finished

Project description:

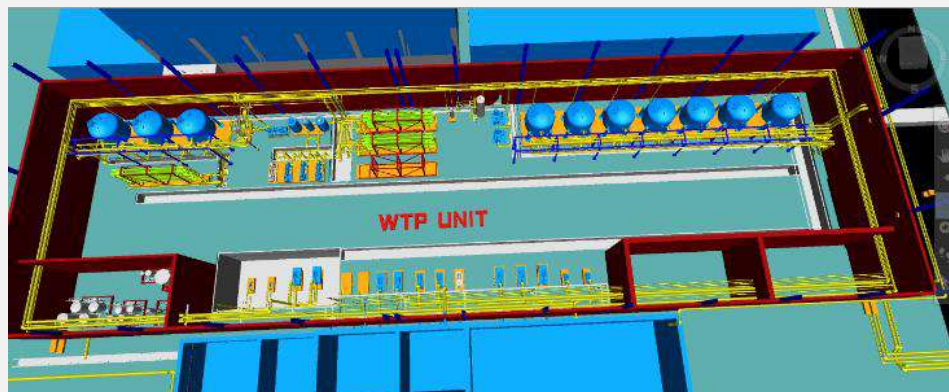
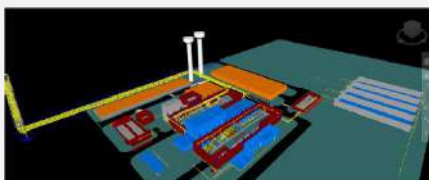
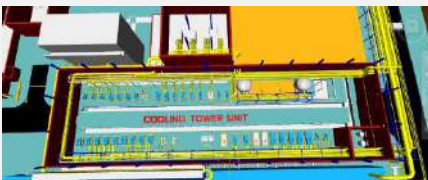
Design, procurement and construction of Water Treatment Plant (WTP) for Iran Alloy Steel Company located in Yazd City (Center of Iran) is done by Absun Palayesh. MGET manager is engineering MC in this project. Raw water flows to water treatment unit with TDS and ferric iron up to 1300 ppm and 0.3 ppm, respectively. Also, industrial wastewater which circulate in contact circuit cooling tower loop returns back to wastewater treatment unit with TSS and oil content of 400 ppm and 15 ppm, respectively. In general, plant consists of following equipment:

- Water treatment unit
 - WTP sand filters
 - RO train
 - CO2 degasser
 - Demineralized column and neutralization
 - Potable water sand filter
 - Elevated water tank
 - Firefighting system
- Reuse unit
 - Equalization tank
 - Reuse Filters
 - RO train
- Cooling water unit
 - Open indirect circuit cooling tower
 - Contact circuit cooling tower
 - Heat exchanger
 - Self-cleaning filter
- Air cooler unit
 - Air cooler
 - Self-cleaning filter
 - Emergency Tower
- Industrial wastewater treatment unit
 - Settling basin
 - Sand filters
 - Thickener
 - Filter press

Highlight:

The most challengeable part of this plant is as following:

- Removal of ferric iron from feed water to RO unit
- Achieving Maximum Recovery of Reuse unit



Capacity: 11470 cubic meters per day (WWTP) and 4500 cubic meters per day (WTP)

Location: Khuzestan province, Shadegan city

Key Project Features:

- Engineering services by **MGET Manager**

Client: Shadegan Steel Complex

Contractor: Absun Palayesh

Commencement: 2019

Status: Finished

Project description:

Design, procurement and construction of Industrial Waste Water Treatment Plant (WTP) of Shadegan Steel Complex located in Shadegan City (South east of Iran) is done by Absun Palayesh. MGET manager is engineering MC in this project.

The aim of the plant is to treat industrial wastewater generates during operation of Direct Reduction Plant (DRP) and Steel Manufacturing Plant (SMP) based on environmental standards and national regulations, and also, to prevent the pollution of the environment. Moreover, the brine water from RO WTP unit flows to this unit in the aim of increasing RO recovery plant.

Wastewater Treatment unit is designed to treat industrial wastewater which is the mixture of blow down and overflow from cooling towers (SMP and Auxiliary plants) and filters backwash water from WTP. The RO unit is designed to desalinate brine water of WTP to produce 185 m3/h desalinated water using RO technology.

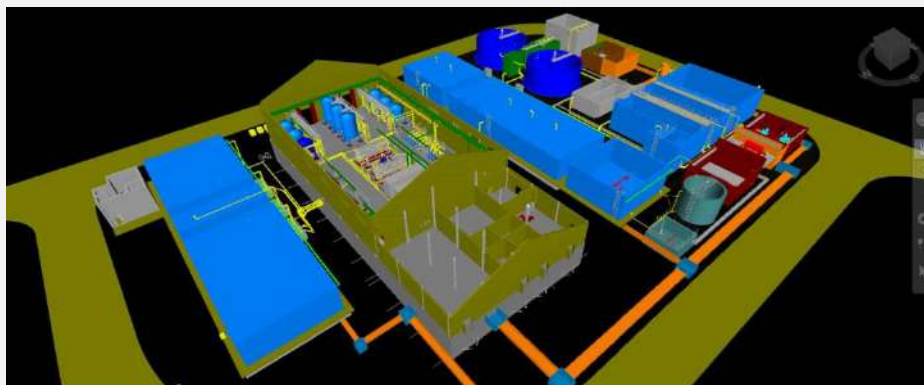
In general, plant consists of following main process equipment:

- Wastewater Treatment unit
 - Lift station
 - Grit Collector
 - Equalization Basin
 - DAF unit
 - Activated Sludge Aeration unit and clarification
 - Sludge Digestion and Dewatering
 - Clear water well storage
 - Sand Filtration
 - Active Carbon Filtration
- RO unit
 - Brine feed supply and storage basin
 - Sand Filtration
 - Reverse osmosis desalination
 - Product pH adjustment and forwarding pumps

Highlight:

The most challengeable part of this plant is as following:

- Variations in the wastewater influent TDS, BOD and COD





- **Lamella Clarifier, Choebdeh Zone , Abadan City**



- **Supply SWRO Package equipment (Membrane & Victaulic Coupling) for Lian (Bushehr) City**



- **BWRO (2*1500 m3/day Brackish Water RO System) Desalination Plant For Sarkhoon City**



- **Supply of SWRO Package Equipments for Kouhestak Plant (Hormozgan)**



- **Engineering services and tender design with Tana Energy Company**



- **HCC Sewage Treatment Plant, Doha Qatar**



Capacity of SWRO Plant: 3000 m³/day

Location: Choebdeh, Abadan City, Khuzestan Province, Iran

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Tana Energy Management Co.

Contractor: MGET

Commencement: 2022

Status: In Process

Project description:

The project includes engineering and supplying equipment's of pre-treatment package for turbidity removal of the Choebdeh desalination plant feed line located in Abadan with capacity of 3,000 cubic meters of water production per day. The project is ordered by Tana Energy Company. MGET Co with the cooperation of Aria Sian Tavan Company are the contractor of this project and they are responsible for engineering design as well as procurement and construction of whole pre-treatment package.



Project Name: Supply SWRO Package equipment (Membrane & Victaulic Coupling) for Lian (Bushehr) City



Capacity: 35,000 m3/day

Location: Lian, Bushehr

Key Project Features:

- Equipment Supply

Client: Mapna Boiler

Contractor: MGET

Commencement: 2021

Status: Victalic Finished

Memberan: In Process

Project description:

The project includes Supplying SWRO Package equipment (Membrane & Victaulic Coupling) for Lian (Bushehr) desalination plant with capacity of 35,000 m3/day. The project is ordered by Mapna Boiler Company. MGET Co is the contractor of this project and responsible for supplying Membrane & Victaulic Coupling of this desalination plant. The SWRO Package equipment's are supplied from ESLI company the Turkey brand.



Capacity: 3000 m³/day

Location: Sarkhoon City,
Khuzestan Province, Iran

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- Start-up & Commissioning
- Operators Training
- Operation & Maintenance Assistance

Client: Tana Energy
Management Co.

Contractor: MGET

Commencement: 2021

Status: In Process

Project description:

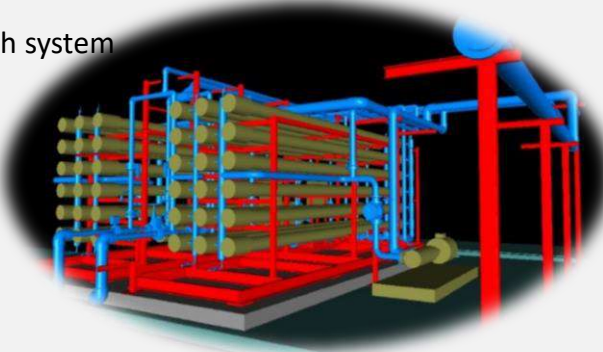
BWRO desalination plant for National Iranian Water & Wastewater Company in KHUZESTAN province of IRAN is established by TANA Energy Co. MGET is TANA Energy Co. Contractor in this plant.

3000 m³/day permeate water with feed water in EC range of 20000 µS/cm to 25000 µS/cm is produced.

Saline brackish water with maximum capacity of 5000 m³/day is taken from four wells by submersible pumps and is entered to reverse osmosis system after filtration by sand filters.

Water Treatment Plant consists of following main process equipment:

- Well water pumps
- Raw water storage
- Sand filters and backwash system
- RO feed pumps
- Cartridge filters
- High pressure pumps
- RO Blocks
- Dosing Packages
- CIP & Flushing package



Highlight:

The most challengeable part of this plant is as following:

- Scarcity of feed water



Project Name: Supply of SWRO Package Equipments for Kouhestak Plant (Hormozgan)



Capacity: 6600 m³/day

Location: Kouhestak, Hormozgan

Key Project Features:

- Equipment Supply

Client: Tana Energy Management

Contractor: MGET

Commencement: 2021

Status: In Process

Project description:

The project includes Supplying Ro Sea Water Package equipment's which are Membranes and R.O Pressure Vessel, 630KW electrical motors, Instruments package, Manual and motor valves and Super duplex pipes and fittings for Kouhestak Sea Water Desalination R.O Plant with capacity of 6,600 m³/day. The project is ordered by Tana Energy management Company. MGET Co is the contractor of this project and responsible for supplying Membrane and R.O Pressure Vessel of this desalination plant.



Location: Tehran

Key Project Features:

- Engineering services
- Technical and Financial Proposals for Tenders

Client: Tana Energy

Contractor: MGET Co.

Commencement: 2021

Status: In process

Project description:

The contract is between Tana Energy Company and MGET Co. in order to provide services in the field of engineering and tender design. The subject of this contract is the provision of technical, engineering and specialized services, including and not limited to preliminary studies, basic design, concept and detailed, submission of engineering documents, expert reports, plans and implementation methods, plans and review of technical and financial proposals for tenders in the areas of interest of Tana Energy Company and also the preparation of technical and financial proposals to participate in tenders under the supervision of the Commercial unit of Tana Energy Company.



Capacity: 15 m³/day

Location: Doha , Qatar

Key Project Features:

- Concept & Basic & Detail Design
- Procurement Engineering
- Equipment Supply
- Installation Supervision
- Start-up & Commissioning
- Operators Training

Client: Hassanesco Ramix
concrete company W.L.L.

Contractor: MGET

Commencement:2020

Status: In Process

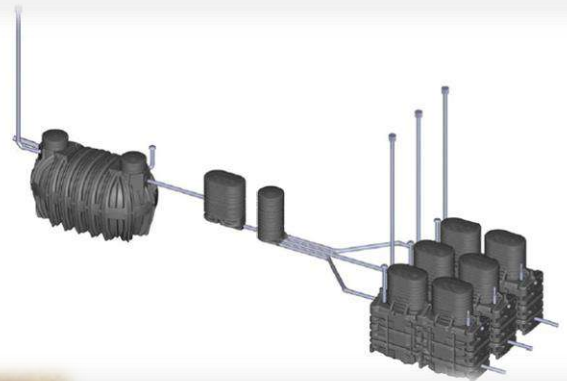
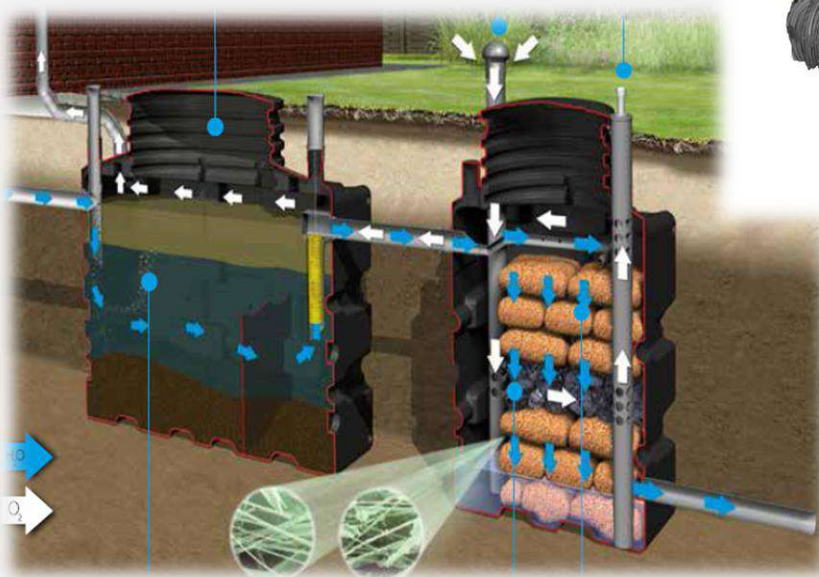
Project description:

Sanitary wastewater treatment package named BIOROCK ordered by Hassanesco Group for a Labor industrial camp in Qatar with capacity of 15 m³/day equivalent of produced wastewater by 100 person per day.

At BIOROCK, the using techniques ensure all of the sewage treatment plants are non-electric, have a low carbon footprint and call for minimum annual maintenance. As the nature runs the operation, it can be saved big bucks not only on maintenance, but electricity too. The Primary Tank clarifies the raw sewage by dividing fats, oils, greases and organic solids. The sewage then passes through an effluent filter, before discharging into the BIOROCK reactor. The Primary Tank clarifies the raw sewage by dividing fats, oils, greases and organic solids. The sewage then passes through an effluent filter, before discharging into the BIOROCK reactor. Depending on the ground type, effluent will be discharged by gravity, or by a pump.

Highlight: The most challengeable part of this plant is as following:

- The area is industrial zone and we need to protect system for inlet of additional oil .



○ Letter Of Recommendation

Date: 07/06/2021

To whom it may concern,

We are writing this letter to you as a recommendation for the services provided by Mr. Ali Makki of MGET GmbH. We have worked with him to assist us with excellent engineering managing for Isfahan Oil Refinery, Oily Waste Water & Sanitary System projects. At no one time have he failed us, and he has always been on time, making him a reliable partner to us. We have had a good experience for the services he has rendered to us and he has proven to be reliable partner.

S.R.yaghoubi

Managing Director



ANDISHEH



فروشگاه آندیشه اولال (تهران - خاور)
مکان: تهران - خیابان ولیعصر - پلاک ۱۰۰
تلفن: ۰۲۱-۸۸۸۸۸۸۸۸
فکس: ۰۲۱-۸۸۸۸۸۸۸۸
وبسایت: www.andisheh.com

Pacific Aqua Technologies
27762 Antonio Parkway,
Suite L5-240
Ladera Ranch, CA, USA
www.Path2o.com



May, 17th, 2021

To Whom It May Concern:

This is a professional recommendation letter for Mr. Ali Makki of MGET. We have worked with the principals of MGET for number of years on numerous projects. We had excellent experience with performance of MGET and they have proven to be reliable partners.

For any questions please contact Babak AghaMohammadi.

Babak AghaMohammadi

VP Operation
Board Member




To: MGET ENGINEERING & TRADING GmbH

Am Dorfgarten 44, 60435 Frankfurt am Main germany

Tel: +49 (0)6995454548, Fax: +49(0)6995411687

Email: info@mgetco.de, www.mgetco.de

Kind Attn.: Mr. Ali Makki

Subject: Satisfaction Letter

Dear Sir,

Hereby we'd like to thank you for the quality of service provided by your company in purchase and supply of mts2400 machine. The level of responsibility you demonstrated on this job was completely in the frame work of project targets. We look forward to continuing our cooperation

Best Wishes

B. Eslahchi
Managing Director





Engineering And Trading

Madyar Global Energy And Water Treatmet Co.

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