



SUSTAINABLE SOLUTIONS FOR ENERGY & UTILITY

## GROUP OVERVIEW

AlHejailan Group of Companies founded in 1980, has become one of the leading providers of the professional services in the kingdom of Saudi Arabia.

The group having commenced its operation as an engineering and contracting firm, gradually evolved with the economy into different areas of specializations such as industry, Ventures and services. Al Hejailan has been providing these services through innovative, talented and dedicated teams of experienced professionals.

The Group's primary business interests now encompass a variety of capabilities, which include engineering services, construction management, industry, trading, logistics support and telecommunications.

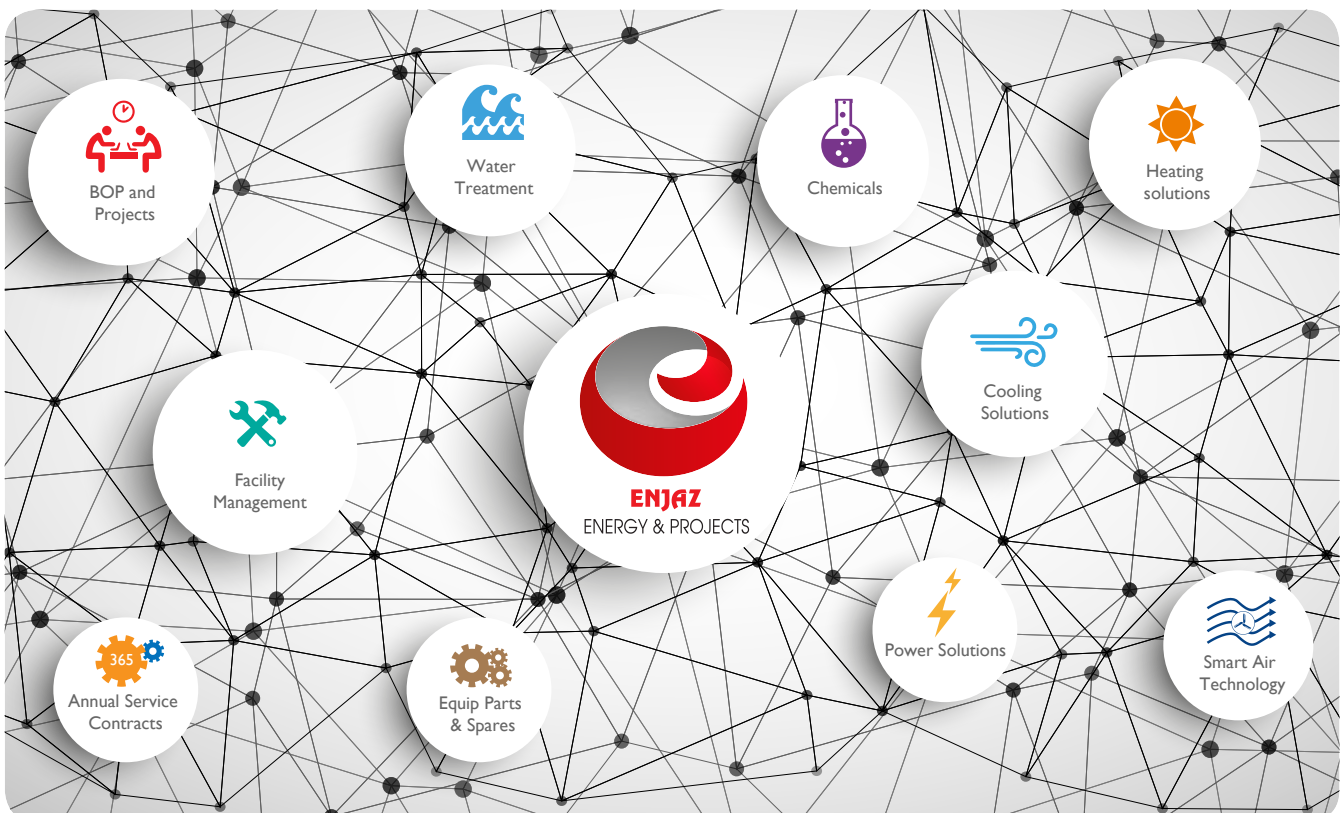
## Group Companies

Industry	  
Engineering	
Telecom	   
Services	   

ENHANCING SUSTAINABLE  
GROWTH IN SAUDI  
ARABIA THRU INTEGRATED  
SOLUTIONS IN ENERGY  
AND UTILITY.

**Enjaz Energy and Projects** part of Al Hejailan group, provides energy utility and environment solutions to Industries and commercial establishments. Enjaz has positioned itself to become a single point solution provider for creating, managing & maintaining energy efficient and environment friendly energy plants or standalone equipment. Enjaz provides complete offerings to the end user from the ‘concept to commissioning’ and services beyond, on operation & maintenance and even manning the plants and machinery.

## INTERGRATED SOLUTIONS



# COOLING SOLUTIONS

Eco-friendly Cooling Solutions

## Absorption Systems

We offer Vapour absorption cooling & heating solutions by cost effective and environment friendly alternative to conventional electricity driven compression chillers. It offers expert solutions in Process Chilling & Air Conditioning for industrial as well as commercial applications. Unlike electrical chillers, these solutions are powered by a variety of heat sources like steam, hot water, liquid/gaseous fuels, exhaust gas and uses water as a refrigerant.

THESE SOLUTIONS ARE UTILIZED FOR COOLING & HEATING SOLUTION IN MORE THAN 50 INDUSTRIAL SEGMENTS

### Steam Fired

Range : 50 - 3,500 NTR  
Steam pressure : 0 - 30 Kg/cm2g

### Hot Water Fired

Range : 100 - 3,500 NTR  
Hot water temperature : 70 - 200°C  
Also available in the 10-80 NTR range for microturbines and diesel generators.

### Direct Fired

Range : 40 - 1,500 NTR  
Fuel : HFO, Natural Gas, SKO, Biogas and other liquid or gaseous fuels. The above systems are ideal for any process and comfortcooling.

### Multi-Energy

Range : 40 - 3,500 NTR  
Heat source : Steam, hot water, exhaust or direct firing of liquid/ gaseous fuels or a combination  
Application : Ideal for waste heat recovery from engine/ turbine exhaust and coolant-Cogeneration and tri-generation

### Heat Pump

Range : 500 KW - 40 MW  
Heat source : Steam/ hot water/ exhaust/ fuels/ geo-thermal or a combination  
Applications : District heating, process heating and feed water application for boilers

### Hybrid Chillers

Range : 25 to 500 NTR  
Heat Source : Electricity + heat in any form  
Application : Negative chilling below zero degree upto – 40°C

### Chiller Heater

Range : Cooling (100 to 350 TR), heating (250 KW to 9 MW)  
Heat Source : Steam/hot water/ fuel and exhaust  
Application : Simultaneous/ Either for cooling & heating requirements

### Solar Chiller

Range : 20 TR to 200 TR  
Heat Source : Solar energy  
Application : Air conditioning/ process cooling

Steam Driven Absorption Chillers

Hot Water Driven Absorption Chillers



# COOLING SOLUTIONS (Continued)

## Cooling Towers Smart Air Technology Solutions

We offer High Quality Cooling solutions for Commercial and Industrial segments..

- Wet Cooling (evaporative & closed loop)
- Comfort Cooling & Industrial

### DRY COOLING

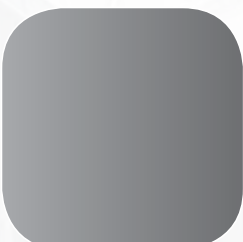
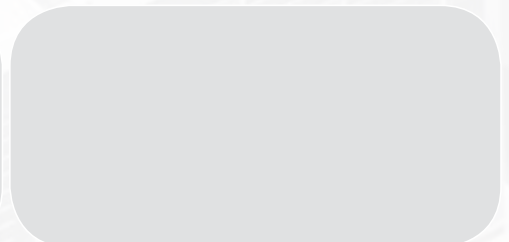
- Air Cooled Condenser's
- Air Cooled Heat Exchanger

### FILTRATION

- Side stream
- Full Stream
- Basin sweeping System

We deliver smartly engineered custom designed HVAC equipment and air handling solutions for all industrial, institutional and commercial applications

- Chilled Beam (fan LESS Coil Units)
- Air column units
- Explosion proof AHU's and FCU's
- Custom built AHU's and FCU's
- High efficiency vane axial AHU's
- Water treatment plant explosion proof AHU's



# HEATING SOLUTIONS

Heat for process and power needs of industry

Our offering includes packaged boilers, thermal oil heaters, heat recovery boilers and hot water generators as well as Large Boilers and Boilers for Power Utilities. It caters to the process heating needs & Power requirements of the widest possible range of industries.

## Steam Boilers

up to 40 TPH capacity, up to 66 ata/ bar pressure and 485°C temperature. Fired on oil, gas,

## Thermal Oil Heaters

up to 25 Gcal/h capacity, up to 380°C temperature, for indirect heating with thermal oil in liquid and vapour phase as heating medium. Fired on oil, gas,

## Direct Fired

Range : 40 - 1,500 NTR

Fuel : HFO, Natural Gas, SKO, Biogas and other liquid or gaseous fuels. The above systems are ideal for any process and comfort cooling.

## Hot Water Generators

up to 17 Gcal/h Capacity and 200°C temperature, with fuel as oil, gas, solid fuel (fossil and biomass)

Hot / Superheated water Heaters type. Capacity from 15MW to 80MW with Hot Water Outlet temperatures up to 260 Deg.c. and a total operating pressure up to 65 Bar.

High pressure Boilers for Process and Power Industry up to 200 TPH capacity, pressure up to 75 bar on oil and gas firing. Higher pressures available on demand

## Multi Tubular Horizontal Heaters

Capacity from 15MW to 40 MW with working temperatures up to 390 Deg.C. in both liquid and Vapor phases.

## Heat Recovery System

on gas/ oil engine, turbine exhaust

## Waste Heat Recovery Boilers

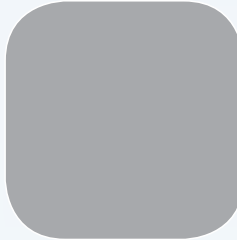
on sponge iron exhaust flue gasses

## Solar Thermal

heating that can be integrated with existing heating system for temperature up to 210°C, with hot water or steam as heating medium



# POWER SOLUTIONS



## Complete Turnkey Power Solutions

We offer Single Point Total Turnkey Power Solutions for Captive & Independent Power Plants. These turnkey solutions not only mean Pure Power Production based on Liquid or Gaseous Fuels. We specialize in complete Co generation, Tri generations and Heat Recovery Solutions tailor made to client's requirement using site available fuels.

### Turnkey Power plants Turbine based as well as Genset based

- Guaranteed availability and plant performance
- O&M services

### Complete BOP for power plants

- Electro, Mechanical installation for medium size capacity utility power plants

### Extensive experience in providing turnkey solutions for gas fired power plants

- Engineering combined cycle power plants
- Setting up oil/gas based tri-generation/ co-generation powerplants for commercial and industrial requirements
- Supplying HRSG downstream of upto Frame 9FA and equivalent machines, and associated auxiliaries

### Waste heat recovery based power in cement and iron & steel industries

- 4 /5 /6 stage pre-heater design for generation of power from waste heat in cement manufacturing process.
- Multiple power plants generating power from the waste heat of sponge iron kilns

### Integrated Sustainable Solutions for Green Power

- Possible equity participation and arrangement of finance. Ensures growth of client organizations through reduced fixed cost of operations and de-risking of business from price fluctuations and fuel availability
- Optimum configuration for power plants based on renewable energy
- Gas Gensets 10-10000 KWe
- Diesel Gensets – 10 -5000 KWe
- Diesel Rotary UPS systems (DRUPS) 1000 – 3000KVA
- Containerized Gas and Diesel Gensets with Waste recovery systems
- HFO & Dual Fuel Gensets 2000 – 10000Kwe
- HT substations 100 MVA -3000 KVA

# WATER & WASTE MANAGEMENT

Solutions for conserving nature's valuable water resource

## Turnkey Installations and Standard Products

We provide end-to-end solutions in water treatment, wastewater treatment, and effluent recycle and zero liquid discharge solutions. The innovative solutions benefit industry, commercial, defense and hospitality establishments.

## Water Treatment Solutions

Water softeners and de-mineralisers for removal of dissolved ions

- Sea water desalination and reverse osmosis plants for brackish water

## Wastewater Treatment Solutions

- Industrial effluent treatment, recycle & Zero Liquid Discharge for industry
- Membrane separation systems for recycling
- Sequential batch reactors (SBR) for sewage/ effluent treatment
- Up flow anaerobic sludge blanket (UASB) reactor; anaerobic filters, anaerobic
- Fluidized aerobic bio reactor (FAB) for wastewater treatment
- Electro dialysis reversal system (EDR)
- Colour removal system for textile industry effluents
- Treatment of high COD and coke oven effluent, and reduction of heavy metals, Cyanide, Fluoride

## Standard Plants/ Products

- Containerized water and wastewater treatment and recycle system
- Compact modular and standard industrial Reverse Osmosis systems
- Bio filter: Low-flow sewage treatment plant (STP)
- Terminator: Colour removal system
- Bioenergen: Biodegradable waste to energy plant
- Incinerator to dispose solid waste

# CHEMICALS

Chemicals for boosting performance

Using water of bad quality leads to scaling and fouling in boilers, cooling towers, chillers, RO plants and other equipment. The result is lower efficiency and high energy consumption. We offer a spectrum of water treatment chemicals for a variety of applications

## Ion Exchange Resins

Tulsion brand of Ion exchange resins with product basket of more than 400 products, offers solutions in applications ranging from water and waste water treatment to highly specialized applications in the food, biotech, metal recovery, high purity water, heavy metal removal, catalysts and chemical processing and the nuclear industry segments.

## Water and Fuel Treatment Chemicals

Our comprehensive fuel and water treatment products and services encompass polyelectrolytes, and chemicals to treat reverse osmosis membrane, boiler water and cooling water. It also offers sugar process chemicals, fireside and fuel additives and innovative monitoring techniques for industrial and infrastructure segment.

## Oil Field Chemicals

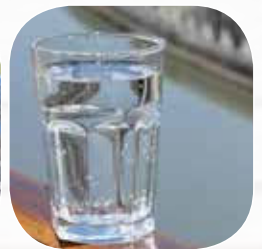
Pour point depressants, primary recovery chemicals—demulsifiers, de-oilers, on line gas line corrosion and scale inhibitors, secondary/ water injection chemicals – coagulants, flocculants, biocides, scale and corrosion inhibitors are the Specialty upstream oil field chemicals for smooth crude oil production and transportation.

## Anti Scalants

Antiscalant and Foulants for single and multiple effect spray film evaporators  
Antiscalant and Foulants for multiple stage Flash Distillation Plants

## Membrane Solutions

A comprehensive range of products and support for smooth operations of membrane systems  
Membrane Cleaners  
Microbiological Control Agents





## PROJECTS & SERVICES



### Reliable Support for Maximum Value

We have dedicated Projects & service team to address core energy and utility businesses to take care of Balance of Plant for all utility plants, spares, parts, preventive and breakdown maintenance services. We also support its clients with specialized requirement on Project Installation and implementation, not limiting to our product supply.

The array of specialized services from Enjaz offers support on critical areas—audits of Steam and energy followed by suitable modifications to optimise the use of resources; energy rentals of equipment and O&M of power and Utility installations that help clients focus on their core businesses.

Our service teams are at work improving efficiencies and extending longevity of critical equipment at industries.

#### Projects

- Turnkey project execution including balance of plant for Heating & cooling solutions
- Supply of Various types of Heat exchangers as per Customer requirements

#### Specialised Products and Solutions

- Energy and Steam audits
- O&M of Utility plants, water and wastewater treatment plants
- Retrofit and revamp- boilers, heaters, water treatment plants
- Upgrade solutions—capacity, design, efficiency improvement, fuel conversions, firing system, pressure parts
- System Improvement through automation, technology upgrades & combustion engineering solutions
- Waste heat recovery and emission control
- Condition assessment and remaining life analysis and engineering studies
- Steam Engineering - complete solutions in steam generation, distribution, utilisation and condensate recovery through integrated service. Includes all types of steam line accessories, etc.

#### Operation and Maintenance

- Power plants
- Multi-utilities including boilers, chillers, water and wastewater treatment plants
- Annual maintenance contract Boilers and Chillers and training of staff

#### Energy Audit services

In response to industry needs for cutting down wastages in energy utilization, Enjaz –

- Offers energy audit services in the areas of steam
- Delivers energy savings solutions including partnering in the implementation program.
- Supports clients with piping design and utility consultancy for efficient and cost effective design of the plant utilities and distribution

#### O & M spares to enhance equipment uptime.

- Local stocking of spares in our own facility to ensure timely availability of spares

# ENJAZ IT SOLUTIONS

Enjaz IT solutions is a leading provider of quality information technology, security and telecom services in the kingdom of Saudi Arabia. Our approach to client management is to get to know well the organizations we work with, and develop long-term relationship accordingly. We can help you take a more strategic; business focused approach to how you manage your IT resources, by ensuring that the management and development of your IT department complements your company business requirements, and ensure that you get the best from it. As client-focused company, we thrive on new opportunities, innovative solutions and productive partnerships. We are committed to working with only the best manufacturers and service providers across the EMEA region. Furthermore, we undertake diagnostic projects, design and redesign, and implement high performance availability at all times.

We have been consistently providing innovative, reliable, high-quality services and excellent customer care. Our mission is to improve business processes and do it better than anyone else. We're fulfilling this vision by creating new IT solutions for consumers and businesses and by driving innovation in corporations and industries. We help you increase your productivity and reduce your costs with a more secure, well managed infrastructure. Your managed IT & Security infrastructure can help boost your productivity, lower your cost and complexity and contribute more to the success of your business. With improved security, get optimized IT infrastructure that automatically helps you identify, prevent, and respond to threats. Our team is capable of handling any level of projects on full turnkey basis.

## OUR SOLUTIONS

- RFID Solution
- Virtualization Solution
- VDI Solution (VIRTUAL DESKTOP INFRASTRUCTURE)
- Server Consolidation
- Server & Backup Storages
- ERP Solution (EPICOR)
- Desktops & Laptops
- Biometrics
- Access Control
- Security Management & Solutions
- IP Telephony
- Network Solutions
- Wireless Solutions (Point to Point Wireless / Point to Multi Point Wireless Connectivity Solution)
- CCTV Products
- Fire Alarm System
- UPS
- Public Address System (PAS)
- SMATV
- Gate Barriers
- VSAT Solution (Specially for Remote Areas)
- Vehicle Tracking System
- Temperature monitoring System



## OUR SERVICES

### TECHNICAL SUPPORT SERVICES

- Help Desk Services
- 24\*7 Support
- On Site Support
- Network Operations
- Security services
- Technical Staff Outsourcing

### INFRASTRUCTURAL SERVICES

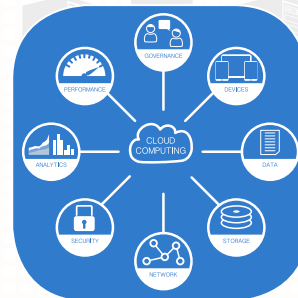
- Analysis and Planning
- Consultancy
- Design
- Implementation and Deployment
- Operations and Management

### ELECTRICAL & ELECTRONICS ENGINEERING CONSULTANCY SERVICES

- Business technology consulting
- Network infrastructure design
- Server and workstation management
- Data backup and redundancy
- Server Virtualization
- Support for your systems and people
- Customized Training
- Business Management Consultancy

### TELECOM

- Site acquisition
- Site Preparation
- Optical fiber and FTTH
- Managed Network Services
- In-building Solutions



# ENJAZ MARKETING & CREATIVE SOLUTIONS (EMCS)

Enjaz Marketing and Creative Solutions (EMCS) is a comprehensive, full-service marketing, advertising, and web development company based in Al Khobar, Kingdom of Saudi Arabia. We build brands which are adored, admired and generate loyalty beyond reason

At EMCS, we help our clients identify goals, and then we take responsibility for providing cross-platform tactics to accomplish them. Strategy is the foundation of our approach. It's the lens we use to identify what your brand stands for, to whom it should speak, what it should say and where it should say it.

Creativity is our hallmark. Creativity is the platform through which we achieve resonance and elevate brand conversations. It is the inspiration that connects and engages your audiences and communicates your brand messages. Leveraging our holistic model, we provide solutions for your most critical challenges.



## OUR SERVICES

- Corporate Identity and its Applications
- Corporate Advertisements, Corporate Campaigns
- Concept and Design of Marketing Literature
- Website Design, Development, Programming and Hosting
- Trade Exhibits -Concept, 3D design and Fabrication
- Content Writing-Marketing Literature and Web
- Offset and Digital Printing.
- Corporate Gifts

## WHAT MAKES US DIFFERENT

- We work within budget constraints and meet deadlines
- We forge dynamic and long-term partnerships with clients.
- We deliver results
- We are accountable and committed to making a difference.

## INDUSTRY RELATIONS



### Refinery & Petrochemical

1. Sharq
2. Yanpet
3. Sasref
4. Aramco
5. Chemanol



### Pharmaceuticals

1. PSI
2. BATERJEE PHARMA



### Food & Beverages

1. Atico
2. Delmonte
3. Delmon Products
4. Omar Ali Balsharaf
5. Coca Cola



### Chemical

1. Cheminol
2. Albattal
3. Nalco Chemicals
4. Sachlo
5. Industrial Chemicals



### Metals

1. Al Taysir Aluminum
2. Al Rashid Fasteners
3. Gulf Polyester & Epoxy Powder Coating



### Paper & Packaging

1. Arab Paper
2. Gulf Paper Industries
3. Middle East Paper
4. Obeikan Paper



### Commercial Centres

1. Hyper Panda
2. Al Khaleej Mall
3. Al Mahroos Supermarket



### University & Hospital

1. King Fahd University for Petroleum and Minerals
2. Nwaf Hospital

## TECHNOLOGY PARTNERS



**Thermax Ltd.**  
For Solutions in Cooling, Heating, Power, Water and waste solutions, Chemicals.  
[thermaxindia.com](http://thermaxindia.com)



**Green Power Power International Pvt. Ltd**  
For Single window Turnkey EPC Solutions for Captive & Independent Power Plants.  
[www.gpi.com](http://www.gpi.com)



**Mafna Air Technologies Inc.**  
For Smart Air solutions of HVAC equipment and air handling solutions for all industrial, institutional and commercial applications.  
[mafna.com](http://mafna.com)



**BWA water additives**  
For anti-scalants and antifoulants for Multi stage Flash Distillation Plants and Single and Multi stage Film Evaporators.  
[wateradditives.com](http://wateradditives.com)



**Fawad Group WLL**  
To empower technology through innovation and achieve customer satisfaction to the fullest with superior performance in End User Computing, Virtualization & Data Centre Transformation.  
[fawadgroup.com](http://fawadgroup.com)



**A & M Associates WLL**  
A & M Associates is a full service advertising and marketing consultant founded with a vision to bring out-of-the-box creative and technologically driven solutions to our valued clients.  
[amwil.net](http://amwil.net)