

# BEST IN CLASS ELECTROMECHANICAL SOLUTION



Engineering,  
Construction & Services

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# We act with Integrity in all of our interactions

## **Vision:**

Our vision is to continue our growth in our fields of activities with our known of understanding of quality, safety and success over the year.

## **Mission:**

Our main goal is to satisfying and fulfilling desires of exclusive customers, and executing contracting assignments with a high level of technology, quality, uniqueness and perfect timing.

Believing in the principle of 'progress with customers and contribute to community', **ADAN Company** will continue with using of technology innovations to become a best Engineering, Construction & Services Company.

# *Customer Service*



## 1. Forward

We **ADAN Company**, successful business begins with developing a personalized relationship with our Clients. Our top priority is working one to one with each Client in order to help him to achieve his goals. It begins with listening. We believe that there is no better investment than the time we spend getting to know our clientele.

With a throughout understanding of commercial and technical requirements we can develop services that Client fit your goals. And it works both ways. By sharing our knowledge and experience with you, we empower your decision making. Working with our various subsidiaries and affiliates in the Company and in many instances with our main clients, we can marshal a wealth of electricity, Electro mechanical and Construction business intelligence.

Our goals, as local company in Kurdistan region and Iraq are include the establishment of entrepreneurial and market-leading companies, the enhancement of the conglomerate value as a whole and the contribution to the economies and societies we work in.

## 2. Introduction and History

The following words will introduce **ADAN Company** in brief:

### 2.1. Name, Home land and location:

- **Name:**  
ADAN Company for Engineering and Construction of Electro-mechanical Projects.
- **Home land and location:**  
Erbil/ Kurdistan region/ Iraq
- **Branches:**
  - 1-Erbil
  - 2-Sulaimanya
  - 3-Dohuk
  - 4-Turky representative

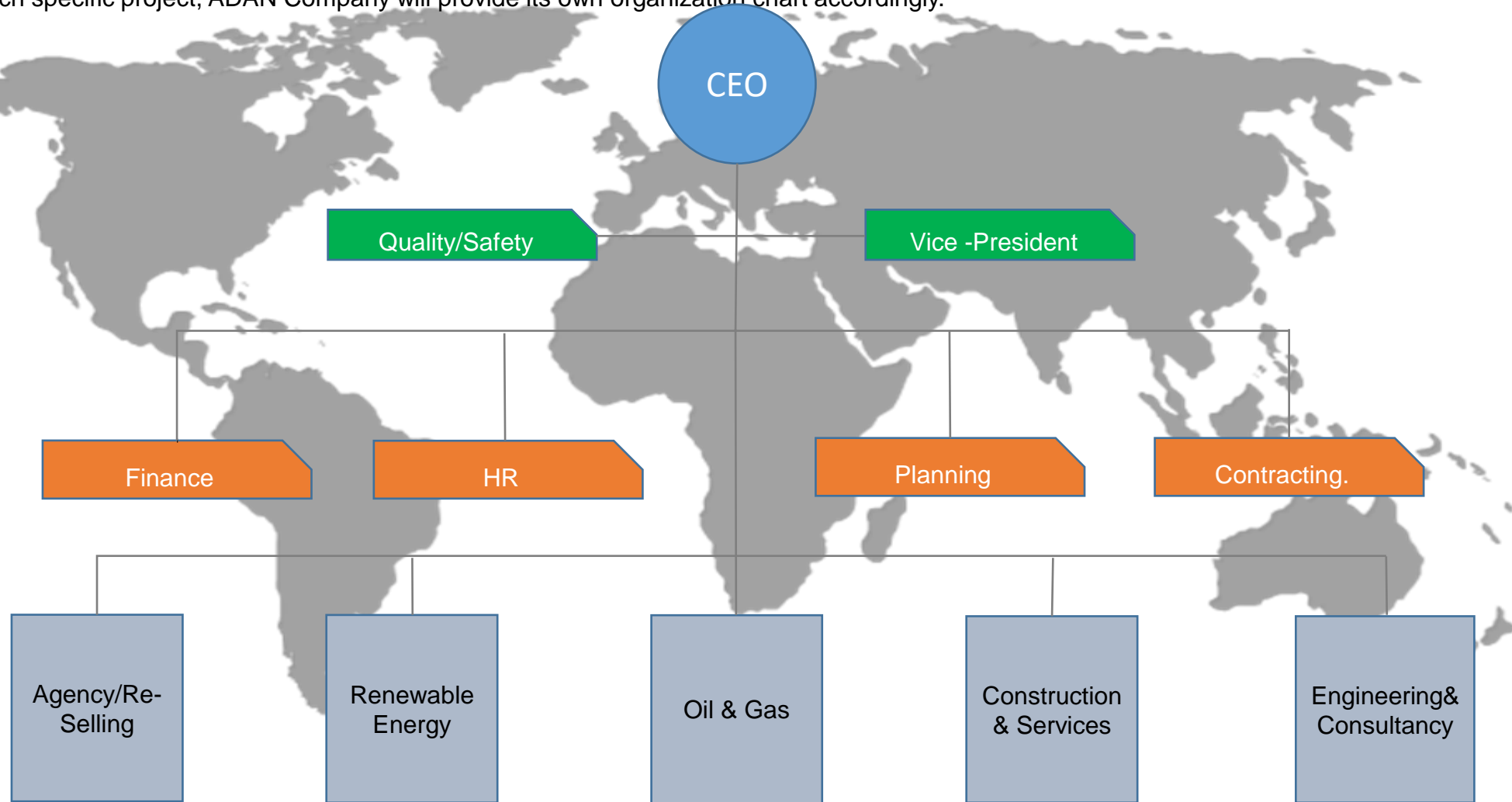






## 2.2. Organization Chart:

The following chart is introducing **ADAN Company** organization in general.  
For each specific project, ADAN Company will provide its own organization chart accordingly.



## 2.3. History

**ADAN Company** for Engineering & Construction of Electromechanical Projects is a private sector enterprise, established in 2005 as a **Work Shop**. We started our activities in the industrial Factories and seller for the electrical equipment with providing the electrical and Mechanical parts according to our customer's requirements in Erbil, Dohuk and sulaimanyah Governorates, our activities were and since 2005 had been grown into a diversified electricity business player. **ADAN Company** formal establishing with KRG/Iraq license was in 2008. Within its first decade of operation, **ADAN Company** was able to enlarge its Install and Test offering to switchgears, package substations, and control and protection systems. In parallel, **ADAN Company** expanded in to engineering and construction activities with the realization of complex HV, MV and LV projects. Throughout the years **ADAN Company** expanded its activities to cover the construction of Power Plants, Electrical Substations, Distribution systems, Communication systems, and all types of Electromechanical works. The expansion covered Trading, shopping centers, Engineering and Consultancy and agencies. Now, **ADAN Company** ranks among the larger business enterprises in Kurdistan (Iraq) Region. It is associated with number of foreign and domestic leading firms and acting as commercial agent for several international companies. It is equipped with highly qualified staff, professionally specialized in different fields and has wide and long history of experience in their fields of competence.

**ADAN Company** running its activities through its branches which are deals in different activities and in different locations. **ADAN Company** is looking forward for reliable committed partners sharing with its future business opportunities in Iraq and Kurdistan Region.





### 3. Assets:

**ADAN Company's** asset has grown steadily since inception.

#### 3.1. Our Team:

**ADAN Company** employs technically skilled individuals and has the capacity to mobilize more than 120 Persons for contracting projects.

The highly skilled engineers of the Company are recognized for their commitment to client minded and product-fit approach which encompasses innovation, responsiveness and flexibility.

**ADAN Company** has created a technically challenging and family-oriented working environment that encourages multiple career-building paths and offers a flexible benefits package to recruit and retain a valuable team of skilled workers and technicians. The ability to demand innovation and change is a basic requirement for every level within the company. New initiatives may arise from anywhere in the company, as opposed to belonging exclusively to the top management.

A characteristic of the Company lies in its ability to rapidly gather engineering, purchasing and resources and closely co-ordinate their efforts to ensure a quick turn-around thereby reducing costs, lead time and maintaining the promised delivery commitment.

A particular attention is given to Test and Commission personnel who are continuously trained to ensure the application of the highest standards of Substation Test and Commission in our Project fields.

In-house training and empowerment programs are carried at regular interval and ad-hoc in case of the introduction of new Development processes.

In parallel, all our professionals boost a solid industry expertise acquired through their exposure to in-house or suppliers and industrial partners training.





### 3.2. Machinery & Test equipment:

**ADAN company** utilizes and maintains the latest manufacturing technology and equipment available today.

The machines are continuously upgraded and renewed to be in line with the most advanced standards and norms applicable in the industry.

The latest renewal was started in 2014 and is still under process with the acquisition of a number of machines each rated as top in its category.

In parallel, the company is equipped with a set of industry-approved machines to run in-house tests on electrical performance.

**All ADAN Company's** Equipment has consistent state-of-the- testing environments. The company continually invests to maintain and upgrade its leading edge manufacturing and testing facilities in line with its objective of providing higher efficiency and quality.

**ADAN Company** uses the latest computerized techniques for design, and testing. ADAN has developed specialized Equipment and ways for testing Substation equipment to Decrease cost impact.

Since accurate testing is crucial to providing quality products, **ADAN Company** is fully equipped with high precision class and calibrated testing instruments. All routine tests are performed according to IEC standards. A large number of Special Test can be performed (partial discharge, capacitance, , etc.). Test reports are generated automatically by data acquisition and compared with the designed parameters. Testing is made in accordance with IEC Standard.

Our machines are continuously upgraded and renewed to be in line with the most advanced standards and norms applicable in the Site test.



## 4. Sustainability

### 4.1. Health, Safety and Environment:

**ADAN Company** gives extra impetus to the implementation of solutions to eliminate health and safety risks. For this purpose, Implementation plans have been drawn up to moderate the physical workload of each employee and his exposure to risk. On a permanent base, focus groups are being held with employees and technicians about the execution of the various implementation safety plans and strategies.

The general guidelines for health and safety points out that:

- All persons employed and technicians by the company should receive adequate health and safety training. In addition, employees receive adequate instructions and supervision to enable them to undertake their work in a safe manner.
- All plants and equipment are suitable for their intended purpose and are maintained in a safe condition at all times.
- All persons working on site, whether or not employees of the company, are adequately notified of all known hazards and protective measures.
- Risk assessments are conducted regularly and actions taken to reduce the risk to a reasonable level.
- Individual members of staff, who have any concern regarding their own safety, or that of a third party, are responsible for reporting the matter to their manager without delay.





## 4.2 Quality Assurance:

**ADAN Company** is committed to meet or exceed the highest quality and performance electrical standards across its range of services.

The Company has a complete Quality Management System (QMS), which complies with; one of the major objectives of the Group is to foster improvement in all aspects of its business.

**ADAN Company** strives to improve the satisfaction of its Client by maintaining on-going initiatives to improve the quality and reliability of products and the operating effectiveness of the Installation and Testing equipment and processes.

The Company promotes and manages continual improvement in quality, service and value.

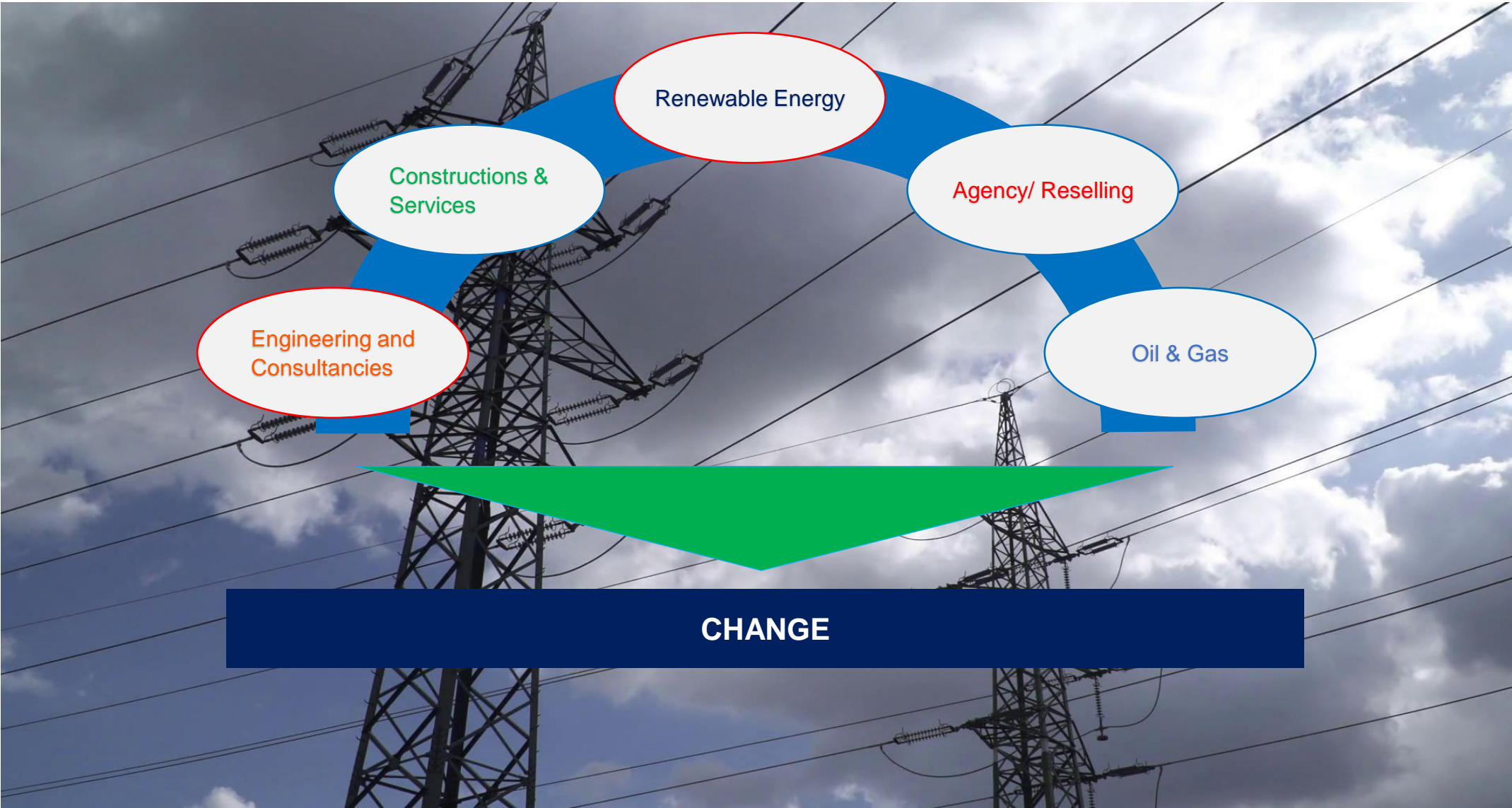
Improvement projects touch on various areas such as external customer, corporate, supplier, safety and regulatory requirements. Continuous improvement is measured against goals and objectives.

The spirit behind any quality initiative is to cost effectively achieve the basic tenet of the **ADAN company** Quality Policy that is, delivery of defect free products and services, on time. Any such initiative is always directed to keep up with the state of “zero defects”. Technology is used throughout to achieve accurate order processing, efficient work.

The Company can answer all application questions, and their customer-minded engineering staffs are ready to work closely with customers and provide timely and satisfactory resolutions to all technical issues.



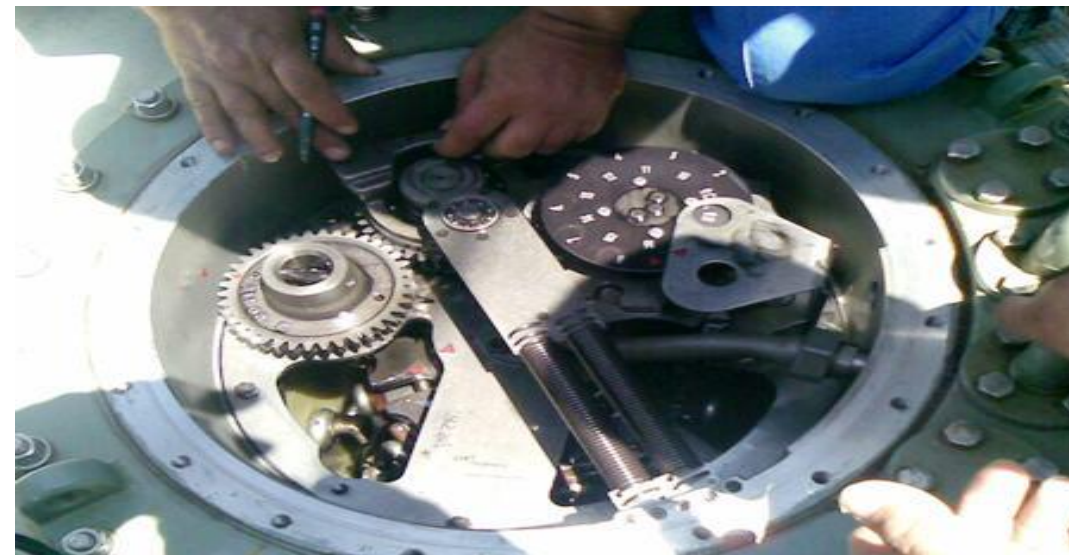
5. Field of Activities:





## A. Engineering and Consulting:

Design, Design Review and Development, Field Design, Technical Specifications, Bill of Quantities(BOQ), Onsite Testing and Commissioning, Engineering Calculation, Planning and Coordination, Value Engineering, Project Managements, Contract Management, Installation, Testing and Commissioning



Our 'Performance Improvements' team provides multi-disciplined engineering skills to help our clients achieve and maintain “Operational Excellence”.

The key drivers for our work tend to be maximizing client revenues, reducing emissions and reducing operating costs whilst operating the plant safely. We provide products, engineering support and training in all areas of our business.

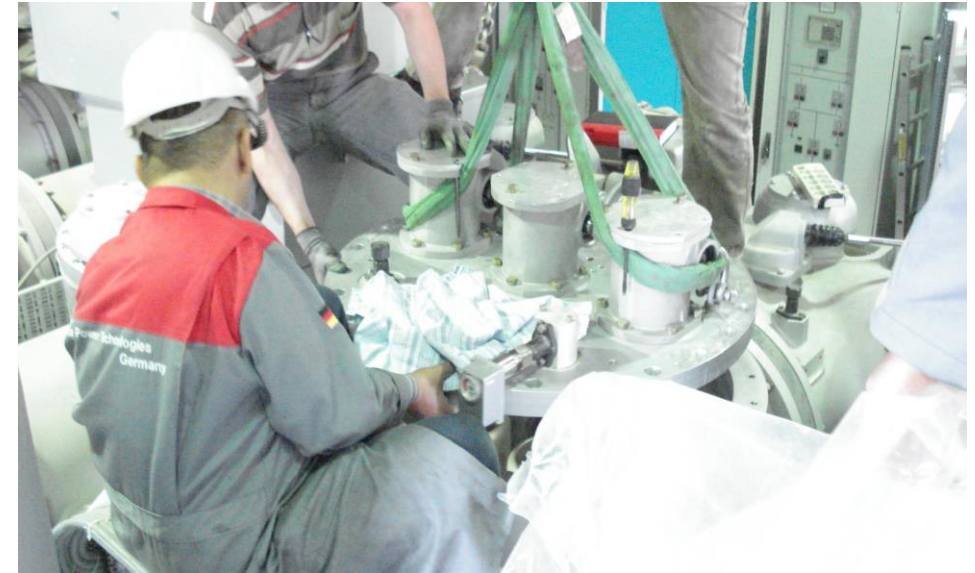
Our long experiences knowledge and local delivery results in successful project execution.

In addition to the technical consultancy, **ADAN Company** is providing management consulting services to the same business sectors.

## B. Construction and Services:

The Contracting & Construction Division is characterized by a light structure including committed managers capable of Working in highest quality standard at the lowest cost.

**ADAN Company** has successfully carried on and implementing a number of projects consisting of industrial solutions, LV and MV networks, cable pulling, and VHV and HV substations. And Test with Commissioning of Electrical Substation.



The activities of the company in this area are carried on a standalone basis or in venture with its renowned Supplier such as ABB, Siemens, and Alstom -Areva. Contract responsibilities including:

- Engineering (electrical);
- Appraisal and re-engineering when required;
- Project Management;- Design and Managing of control/protection/telecommunication and LV systems;
- Installation, testing and commissioning;
- Training of customer staff.
- Complete servicing, operation and maintenance;
- Independent consultancies/engineering assignments.



Each projects designed to fulfil specified requirements with long term high performance operating economy with the emphasis on high quality engineering.

Current and recent major projects are located in Dahuk, Sulaimanya and Erbil Cities in Kurdistan region, **ADAN Company** qualification and experience in the area of contracting is clearly demonstrated by its capacity to smoothly complete several projects where efficiency, quality and cost-saving have been put in evidence and under the supervision of Consultants engineers.



The engineers of the Company are skilled and experienced in using proven project management systems and technologies.

They are equally professional and effective working on a remote site or in a high technological environment. Working under extreme hectic conditions, the contracting department has successfully carried on and delivered many turnkeys projects including HV and MV substations up to 132kV and latest Project up to 400 kV in Erbil khormala Power Plant”, and mobiles substations up to 132kV.

**ADAN Company** is fully capable company in the design, engineering and servicing of complete integrated power distribution systems: local equipment rooms, modular substations and powerhouses, medium voltage switchgear, High Voltage Switchgears, intelligent low voltage switchgear (LV switchgear and Intelligent Motor Control Centers) and integrated protection and control systems by cooperation with **Skema** , **SIEMENS** & **SCHNEIDER Electric** which they are all are a leader manufacturers in this field.

**ADAN Company** Services field also including the periodic Maintenance, Testing and Inspections services with high performance and high qualified staff for Power systems, Substations, Gas Power plants, Engine Power Plants, Factories.....etc.



We are as **ADAN Company**, dedicated to delivering all aspects of our **services** in a safe and most efficient manner.

We guarantee health, safety, security and environmental compliance, proactively protecting your safety, reputation and business through a strong corporate culture of health, safety, security and environmental (HSE) practices.



## C. Oil & Gas:

The electrical system shall be designed economically for continuous and reliable services.

**ADAN Company** is committed to provide effective Solutions to meet clients requirement and ensure quality on site Job execution to maximize client returns in the domain of:

design, engineering and servicing of complete integrated power distribution systems: local equipment rooms, modular substations and powerhouses, medium voltage switchgear, intelligent low voltage switchgear (LV switchgear and Intelligent Motor Control Centers) and integrated protection and control systems by cooperation with **Skema** which is one of the leader manufacturers in this field for more than 45 years.



All times, the design should including Capacity of required Power supply, Distribution network, Electrical system in hazardous area, Relay selection, Circuit breaker selection, motor starting, Short circuit calculation, Load flow ...etc.

**ADAN Company** is a leading full service construction and specialty contractor that serves the electric power line, Pipe line communications, oilfield electrical services and industrial markets.

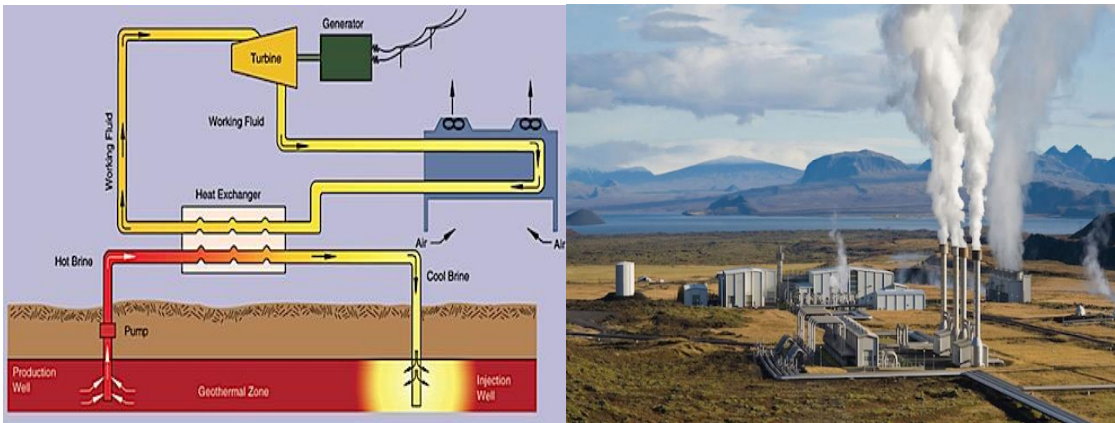
## D. Renewable Energy:

We are as **ADAN Company**, believing that the Solar, Wind Power , Bio mass and Geothermal power are our field of experience to serve humanity from the global warming reducing.

If we are going to reverse the effect of climate change then we need to begin using renewable energy sources to heat our homes, light our offices, power our machines, and drive our cars.

A renewable energy is one which is replenished naturally and constantly such as sunlight, wind, tidal power, biomass, and thermal energy. There are some good reasons for moving towards more sustainable and green energy sources including:

- 1- Counteracting the effects of climate change and reducing our reliance on fossil fuels such as coal and oil.
- 2- Decreasing reliance on other countries for energy needs, in other words creating energy security.
- 3- Finding cheaper and cleaner ways of providing electricity and heating our homes.



**ADAN Company** has established Renewable department to fill the need of Iraq's increasing energy necessity, we established this department with the aim of increasing the usage of renewable energy with our expert staff, contributing to protecting the environment, and getting rid of the external dependence on energy.

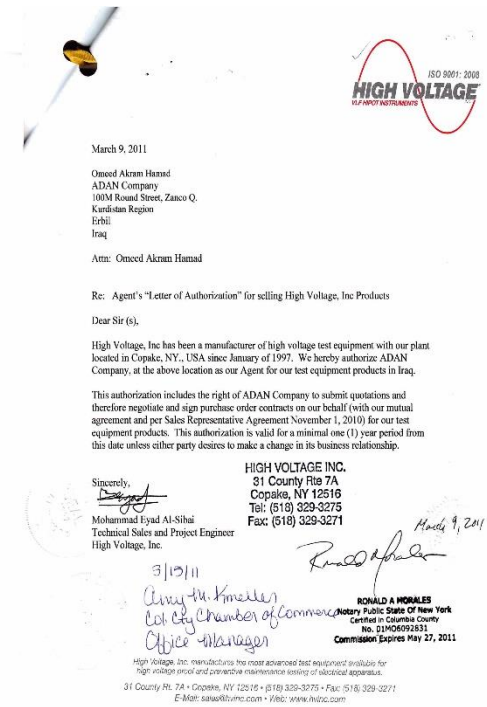
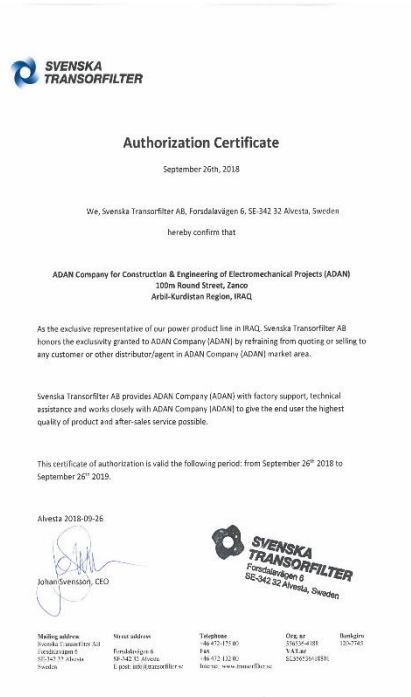
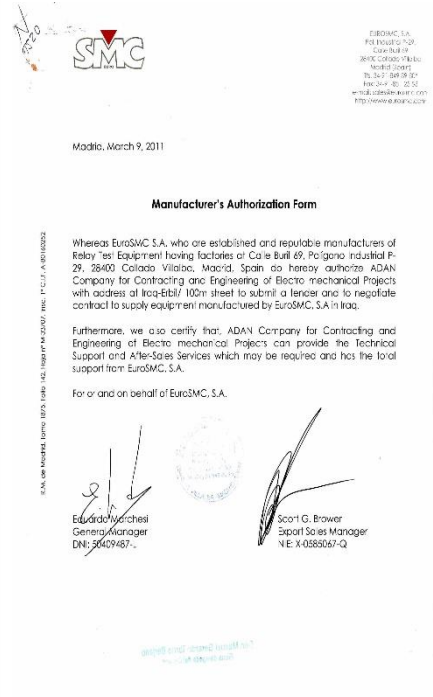
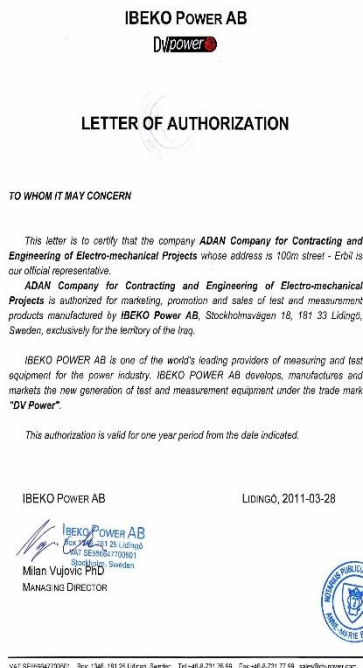
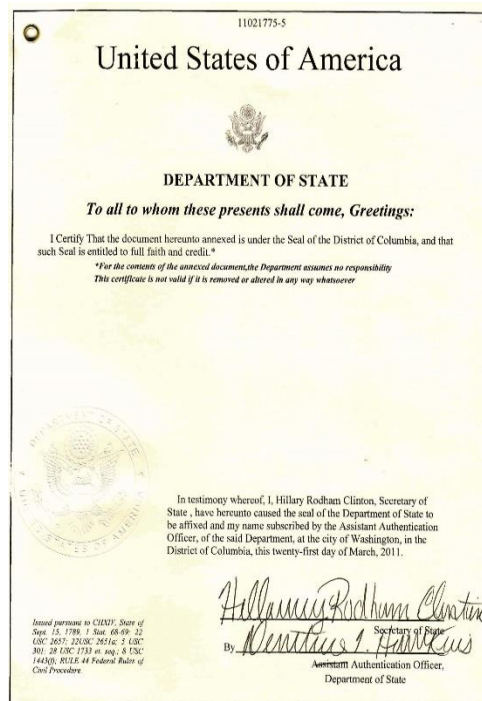
ADAN Company team, we are proud of serving in the field of energy as well as contributing positively to the economy of the country.

The address of accurate solar power plant investments and the environmental solutions, ADAN Company is executing turnkey solar power plant projects, developing customized solutions for each project. increasing quality of service continuously to achieve an innovative and creative results.



## E. Agency / Re-selling:

**ADAN Company**, has been authorized by more than one Global Manufacturers and Companies for re-selling their equipment in the fields of Power System Test equipment, Oil filtration Plants and SF6 equipment.



## 6. Experience References:

### 6.1. Sample of some Experience reference letters for completion of work:



To: Whom it may concern

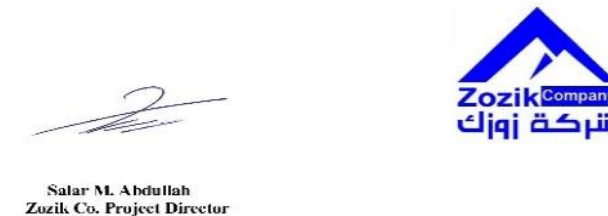
Subject: Work Completion Certificate

We hereby as ZOZIK Company for electromechanical construction – Confirm that ADAN Company for Contracting & Engineering of Electromechanical Projects has worked under Supervision of our company as a Subcontractor in Erection, Testing & Commissioning, through IDSS Erbil & Dohuk Project in KRG of Iraq as follows:

- Erection, Testing & Commissioning of 3 x 63/50/40MVA, 132/33/11KV AIS New Erbil Substation
- Erection, Testing & Commissioning of 3 x 63/50/40MVA, 132/33/11KV AIS West Erbil Substation.
- Erection, Testing & Commissioning of 1 x 63/50/25MVA, 132/33/11KV GIS bay of Salahaddin Substation.

ADAN Company is full of interest in his work and work very hard without consideration of limited work time.

Yours Sincerely





**Bekhma Company**  
FOR  
Construction Contracts,  
General Trade & Investment



**شركة بيخمة**  
مقاولات تشييد - تجارة عامة - استثمار

## Recommendation letter

### To whom it may concern

We hereby as BEKHMA COMPANY for - Construction Contracts, General Trade & Investment - confirm that ADAN Company has worked with our company in Installation, Testing and Commissioning on SIEMENS & IPT equipments, through Erbil Substations Stage 3 project in North of Iraq as follows:

- 132/33/11kV EAST ERBIL S/S.
- 132/33/11kV Extension ERBIL PARK S/S.
- 33/11kV DARATOO S/S.
- 33/11kV QUSHTAPA S/S.
- 33/11kV GIRDAJAL S/S.
- 33/11kV BARZAN S/S.
- 33/11kV BADAWA S/S.
- 33/11kV KORI S/S.

#### Executing the following duties:

- ❖ Power transformers. (132/33/11kV), (33/11kV).
- ❖ Instrument transformer. (High Voltage & Medium voltage).
- ❖ High Voltage Circuit Breaker (Outdoor & Indoor).
- ❖ Current and Voltage circuit.
- ❖ Line Disconnecting Earthing switch & line Isolator switch.
- ❖ Power cables 33 kV, 11kV & Control cables.
- ❖ Protection relays (Over Current Relay, Earth Fault Relay, Differential Relay, Under/Over Voltage Relays, Under Frequency Relay, and Directional over Current & Earth Fault, Synchronization Relay, Circuit Breaker Failure and Distance Protection Relay).
- ❖ Substation computerized system (SCS).
- ❖ Starting up the energizing of substations & connecting with power network.
- ❖ Executing training course to customer operator including the Operation & Maintenance of the substations.
- ❖ Following up all changes and alterations in erection drawings with Supplier Company.

ADAN Company is full of interest in his work and work very hard without consideration of limited work time.

*[Signature]*  
Stage Majed S Sewdin  
General Manager  
Bekhma Co.

Website: [www.the-landgroup.com](http://www.the-landgroup.com) E-mail: [electricaldept@the-landgroup.com](mailto:electricaldept@the-landgroup.com) k-nashan@the-landgroup.com  
Mob: 00964 750 4452815 office: 00964-066-2511122  
Address: Erbil-Iraq 60 street - Francois Meteran Intersection

**KAR**  
For General Contracting, Engineering  
Consultancy and Electrical, Mechanical Contracting Ltd.



**كار**  
للمقاولات العامة والاستشارات الهندسية  
والمقاولات الكهربائية والميكانيكية / المحدودة

Ref. 9

Date: 3/3/2014

## Work Completion Certificate

We hereby as KAR group of Construction and Engineering, certify that ADAN Company for Contracting & Engineering of Electromechanical Projects was our subcontractor in Khurmala Power Plant, Units 11, 12 and 21 for Testing, Glanding and wiring terminations for LV cables and Control cables / Erbil in Kurdistan Region of Iraq -2013.

ADAN Company is full of interest in his work and work very hard without consideration of limited work time.

*[Signature]*  
Faris Naoum  
Project Manager



Khanzad, Dist. 328, Erbil- Kurdistan Region - Iraq Tel: 00964662244083 Website: [www.kar-k.com](http://www.kar-k.com)  
Hay AlWahda, Dist. 904, Baghdad- Iraq Tel: 0096417190060 Website: [www.kar-k.com](http://www.kar-k.com)



**شركة جلاله للمقاولات العامة والنقل - المحدودة**  
Galala General Contracting & Transportation Co. Ltd.

Ref: 523

Date: 14/04/2013

To: Whom it may concern

Subject: Work completion Certificate

We as GALALA General Contracting & Transportation Co. Ltd, certify that ADAN Company for Contracting & Engineering of Electromechanical Projects was our subcontractor for Erection, Testing & Commissioning under contract No.( ENRP/Q-0040/01 for KRG-MOE) / Erbil & Dohuk - Stage 2 Substations (132/33/11KV & 33/11KV) in Kurdistan Region of Iraq -2006.

We approve that ADAN Company had complete all works in time with high quality and all necessary requirements, GALALA General Contracting & Transportation Co. Ltd and its client were satisfied with ADAN Co. performances and quality of works in this order this certification is issued.



Sarmad Y. Al-Assadi  
Chairman Assistant

Erbil Address: AlA Street  
Tel: 2227773 - 2229119  
Email: [info.erbil@galalagroup.com](mailto:info.erbil@galalagroup.com)

Sulaymaniyah Office: Rugen - Handren Qtr.  
Tel: 3187125  
e-mail: [info.sul@galalagroup.com](mailto:info.sul@galalagroup.com)

Dohuk Office: Askani Qtr.  
Tel: 7606327  
e-mail: [info.dohuk@galalagroup.com](mailto:info.dohuk@galalagroup.com)

## 6.2. Experience References list:

**ADAN** is a professional firm in construction and building of Industrial Sector and Industrial Plants and ensuring delivery of reliable and efficient plant to the clients from Engineering, Procurement, Installation, Testing, Commissioning to Operation including automation system. Construction, Testing and Commissioning.

The key drivers for our work tend to be maximizing client revenues, reducing emissions and reducing operating costs whilst operating the plant safely.

We provide products, engineering support and training in all areas of our business.

Our long experiences, knowledges and local delivery, results in successful project execution.

## 1. 500MW Erbil Gas Power Plant:

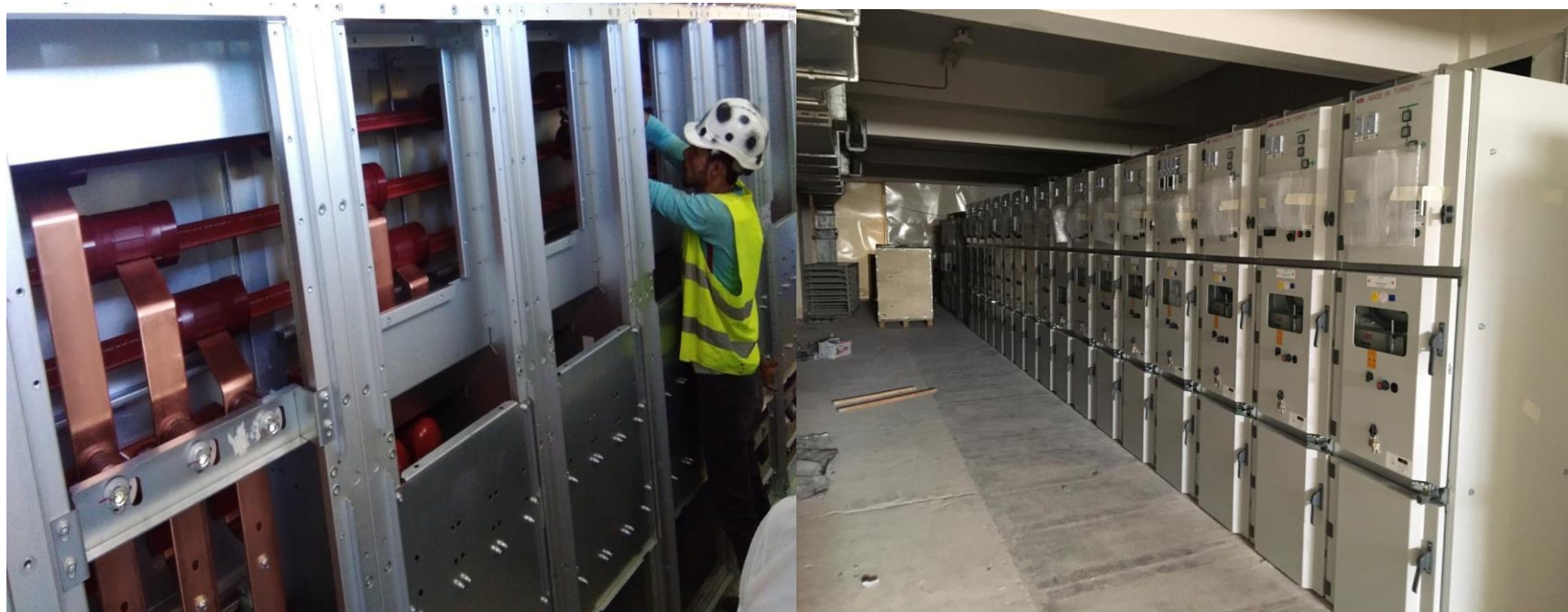
Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- Oil filling and Oil filtration of Service Transformers &amp; Step-up Transformers.</li> <li>- Testing &amp; Commissioning of Generator Circuit Breakers (GCBs), Service Transformers and step-up Transformers.</li> </ul>	Mass Global + Zozik Company	Iraq/KRG	2009





## 2. Supply and Delivery of Equipment:

Project Description	Client/Owner	Country	Year
Supply, Delivery, installation, Testing and commissioning of 11Kv Circuit breakers and SF6 & Vacuum pole breakers for Kurdistan Region, Ministry of Electricity (KRG-MOE) from ABB, TAMCO and Schneider	MoE	Iraq/KRG	2009





### 3. Erection, Testing & Commissioning of Stage3 substations (5 Substations only) in Erbil and Dohuk:

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- East Erbil substation 132/33/11Kv, 3x63/50/25 MVA.</li> <li>- Extension of Erbil Park substation 132/33/11Kv, from 2x63/50/40 MVA to 3x63/50/40 MVA.</li> <li>- 3 x 33/11KV SS extension (Girdachal, Kori and Badawa).</li> </ul>	Bekhma Group/MoE	Iraq/KRG	2009 - 2011



#### 4. Supply and Delivery of Test Equipment:

Project Description	Client/Owner	Country	Year
Supply a lot of Power system Test equipment for KAR Group and all Iraqi regions from our suppliers.	KAR Group	Iraq/KRG	2011



BLU300C, BLU500C

**5. Erection, Testing & Commissioning of the following substations from stage5 / Erbil:**

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- 3 x 63/50/40MVA, 132/33/11KV AIS New Erbil substation</li> <li>- 3 x 63/50/40MVA, 132/33/11KV AIS West Erbil substation.</li> <li>- 1 x 63/50/25MVA, 132/33/11KV GIS Salahaddin Substation's Extension</li> </ul>	Zozik Company/MoE	Iraq/KRG	2012





## 6. Design, Supply and Delivery:

Project Description	Client/Owner	Country	Year
Design, Supply and Delivery of 2 sets of Motor control Center (MCC) to the CPS Pump Station in Erbil (Oil & Gas Project).	KAR Group	Iraq/KRG	2013



## 7. Design, Supply and Delivery:

Project Description	Client/Owner	Country	Year
Design, Supply and Delivery of 9 set of 12/6.6KV GIS switchgears from Siemens Germany to the CPS Pump Station in Erbil (Oil & Gas Project).	KAR Group	Iraq/KRG	2013





## 8. Laying, Termination and Testing of Cables:

Project Description	Client/Owner	Country	Year
Khurmala Gas PP 1000MW Stage1, LV Cable & Control cables laying Termination and Testing for ( 4 x 165MW) Units.	KAR Group	Iraq/KRG	2013





**9. Erection, Testing & Commissioning of the following substations from stage6 / Dohuk:**

Project Description	Client/Owner	Country	Year
- Erection, Testing and Commissioning of 2 x 63.5MVA-132/33/11KV of North Dohuk Substation in Dohuk Governorate.	Kar Group/MoE	Iraq/KRG	2011 - 2014



**10. Installation, Testing & Commissioning of the following substations from stage6/Erbil:**

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- 2 x 63/50/40MVA, 132/33/11KV AIS Koya substation</li> <li>- 3 x 63/50/40MVA, 132/33/11KV AIS, Qushtapa substation.</li> </ul>	ENERGOINVEST /MoE	Iraq/KRG	2014.





## 11. Erection, Testing & Commissioning of the following substations(Stage 6c) /Erbil:

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- 2 x 31.5 MVA, 33/11KV Hana City Substation.</li> <li>- 2 x 31.5 MVA, 33/11KV Bestana Substation.</li> <li>- 2 x 16 MVA, 33/11KV Girdjotyar Substation.</li> <li>- 2 x 16 MVA, 33/11KV Sherwan Mazin Substation.</li> </ul>	Melec Group- Lebanon/MoE	Iraq/KRG	2014-2015





## 12. Installation, Testing & Commissioning of the following substations / Erbil:

Project Description	Client/Owner	Country	Year
- Installation, Testing and Commissioning of 2 x 125MVA, 132/33/11KV, GIS, Azadi Substation in Erbil	BEST /MoE	Iraq/KRG	2017-2020



### 13. Testing & Commissioning of the following substations /Erbil:

Project Description	Client/Owner	Country	Year
- Testing and Commissioning of 2 x 63.5MVA,132/33/11KV, AIS, Kasnazan Substation in Erbil	BEST /MoE	Iraq/KRG	2020





#### 14. Testing & Commissioning of Unit Power Transformers for Bazyan Power Plant/Sulaymaniyah:

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- Re-calculation, Re-Setting, Configuration, Testing and Commissioning of 4 x 132KV Overhead line (Distance Protection relays &amp; Back up Protection relays).</li> <li>- Oil replacing of Unit Transformers Tap changers and Oil treatment.</li> <li>- Testing and Commissioning for Unit Power Transformers and related Tap-changers including Dynamics Resistance Measurement (DRM).</li> </ul>	Qaiwan Group	Iraq/KRG	2020





**15. Consulting, Technical reviewing, Advising of Materials and equipment selection and Supervision for project of modifications and rehabilitation of Sulaymaniyah 29 MW Diesel Power Plant:**

Project Description	Client/Owner	Country	Year
<p>- Consulting, Technical reviewing, Advising of Materials selection and Supervision for project of modifications and rehabilitation of Sulaymaniyah 29 MW Diesel Power Plant which consisting of 4 x MAN-ES 16V32/40, running on LFO, the responsibility is to complete all required works and to maintain, replace or upgrade and complete all required facilities and systems to guarantee that the plant is working with full functionality by using HFO as a fuel and at the same time controlling NOx and Sox as per the Environmental Authority requirements.</p> <p>-</p>	Hajar Group / Bander Company	Iraq/KRG	2020/2021



## 16. Rehabilitation of Sinjar Cement Plant:

Project Description	Client/Owner	Country	Year
<ul style="list-style-type: none"> <li>- Rehabilitation, Installation, Testing and Commissioning of Electromechanical parts for <b>Sinjar Cement Plant</b> (2 units with <b>6000 Tons</b> daily production capacity).</li> <li>- Installation, Testing and Commissioning of one main station (3 x 34.5MVA, 33/11KV).</li> <li>- Installation, Testing and Commissioning of 7 x Local Substation 11/0.4KV(133 x 11Kv Switchgears).</li> <li>- Installation, Testing and Commissioning of (42) auxiliary Transformers from 50KVA to 3.4KVA.</li> <li>- Installation, Testing and Commissioning of (29) Soft starters, (20) General Distribution Boards, ...etc.</li> <li>- Installation, Testing and Commissioning of a lot of Motors..</li> <li>- Laying, Termination and Testing of more than 120Km MV and LV cables.</li> </ul>	Kar Group	Iraq/KRG	2020-2021



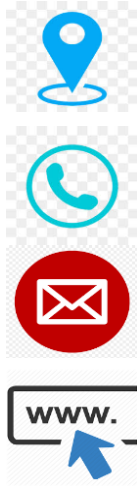




## 17- Installation, Testing and Commissioning of Nishtiman GIS Substation:

Project Description	Client/Owner	Country	Year
- Installation, Testing and Commissioning of 2 x 63/50/40MVA, 132/33/11KV, GIS, Nishtiman Substation in Erbil	Zagros /MoE	Iraq/KRG	2021





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