



AL-TAREEQ

General Construction Ltd.

(AGC) Capabilities



www.al-tareeq.com



An aerial photograph of a two-lane asphalt road cutting through a dense, lush green forest. The road is the central horizontal element, with white dashed lines marking the lanes. The surrounding trees are vibrant green, with some areas appearing slightly more yellowish-green, possibly due to sunlight or the type of trees. The overall composition is clean and minimalist, emphasizing the contrast between the man-made road and the natural environment.

AL-TAREEQ
The road to smart industry

AL-TAREEQ

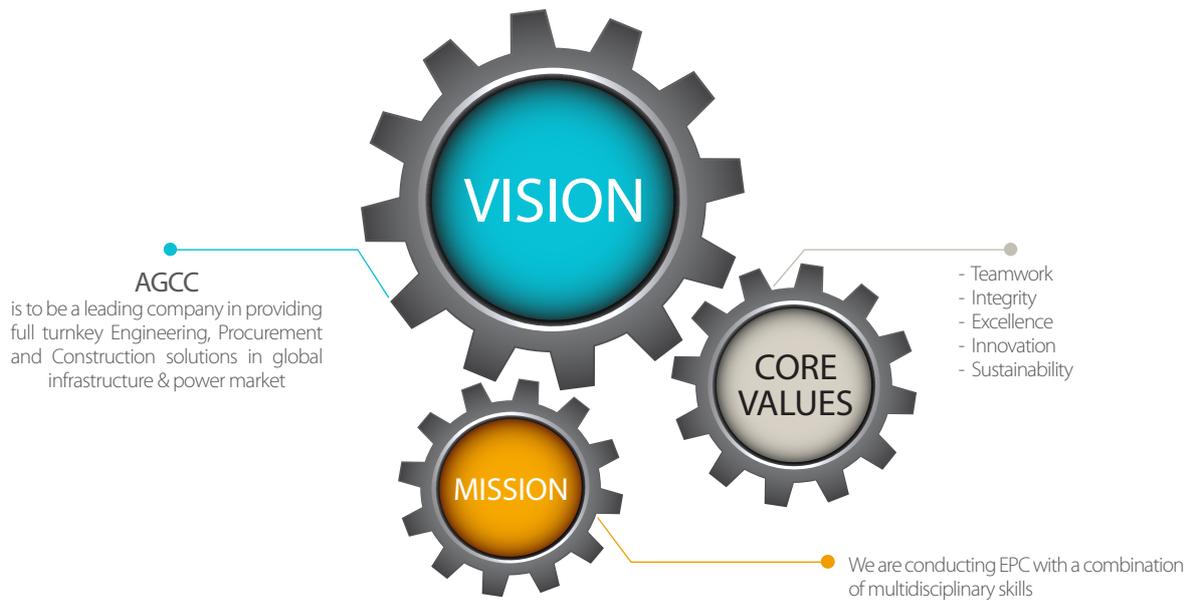
GENERAL CONSTRUCTION LTD. (AGC)

AGC was founded in 1989, is a total construction company that aims to be a global Engineering, Procurement and Construction company with consistent passion and a pioneering spirit.

After ISIS war, now AGC is committed to take its important responsibilities to make infrastructures of government and private investment into the fertile life space through the specialized construction services of infrastructure and power projects.

We have now developed into a leading multi-disciplinary infrastructure company, providing full range of engineering, procurement and construction services for a variety of public and private sectors demands such as Road & Highway, Transportation, Bridge, Tunnel, Water Resources, Water Supply and Treatment, Wastewater Treatment, Railway, Port and Airport, Renewable Energy and Power Plants, Power Transmission and Distribution Lines & etc. With the continued support of our customers, we are ready to take the next step forward onto new challenges to achieve its dream of a global EPC Infrastructure Company.





TEAMWORK

We believe in our team as the backbone of our organization. We train and empower our staff to communicate and support each other to achieve excellence in everything we do.

Together we deliver extraordinary experiences and service to our guest and customers. We aim for balance and harmony among our team members where no one is over-burdened and no one is over-powering.

EXCELLENCE

We are committed to always delivering excellence in everything we do, through our sincerity and personal attention to each individual. We provide world-class services and experiences, which form the foundation of our success.

INNOVATION

We are natural innovators and our continuous search for new ideas, better solutions and more

efficient ways keeps our organization vibrant and full of energy. We empower our team to think as leaders and act as leaders to innovate and grow in some small ways every day.

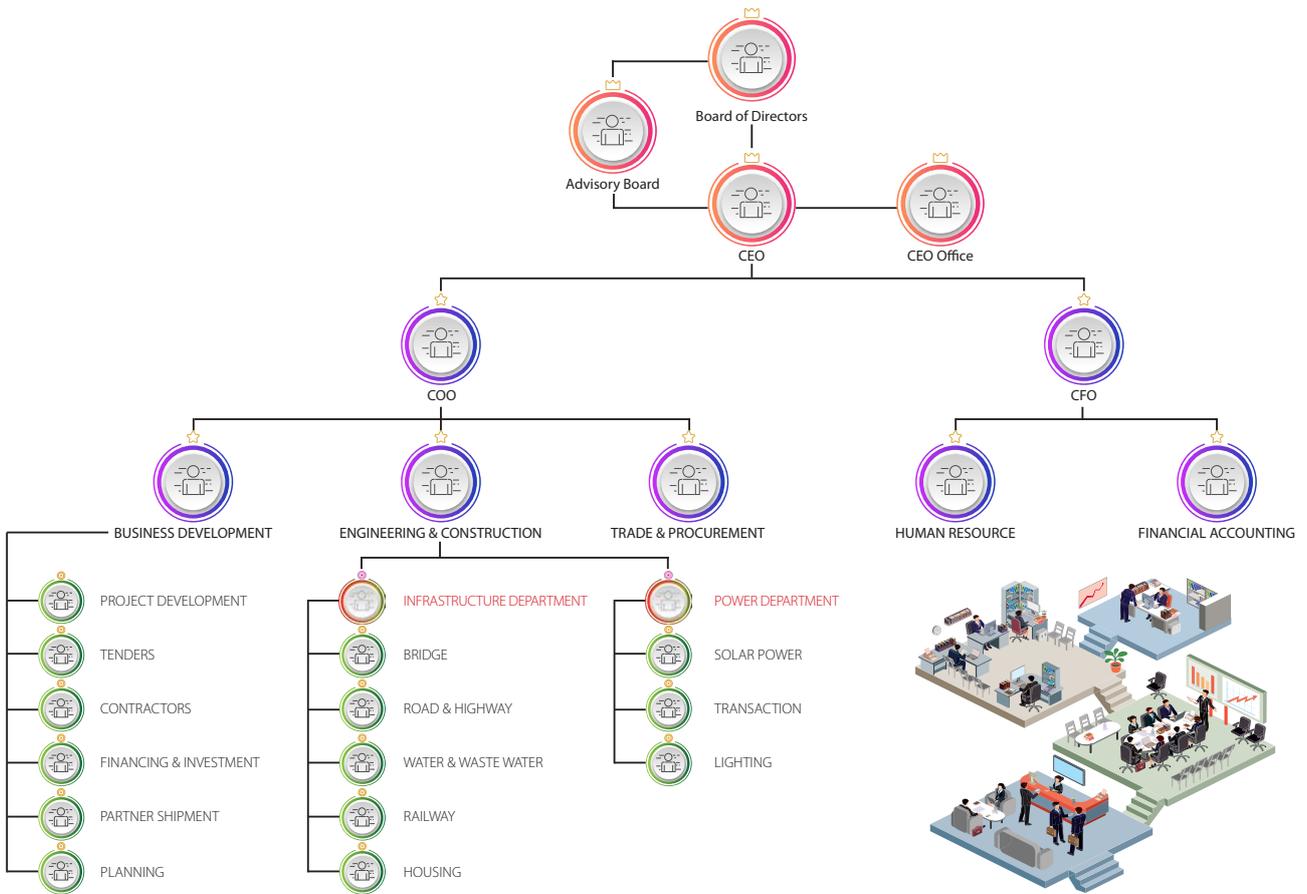
INTEGRITY

We are committed to conducting our business dealings with our team, business partners, customers and other stakeholders with the utmost honesty, professionalism, and fairness. We believe in solving challenges in a compassionate way that respects the well-being of all involved parties and embodies true Bhutanese values.

SUSTAINABILITY

We are committed to our business being an enduring entity in regards to our economic viability, providing secure employment for our team, reducing and mitigating our environmental impacts, and ensuring the conservation and enhancement of our culture and communities.

ORGANIZATION CHART



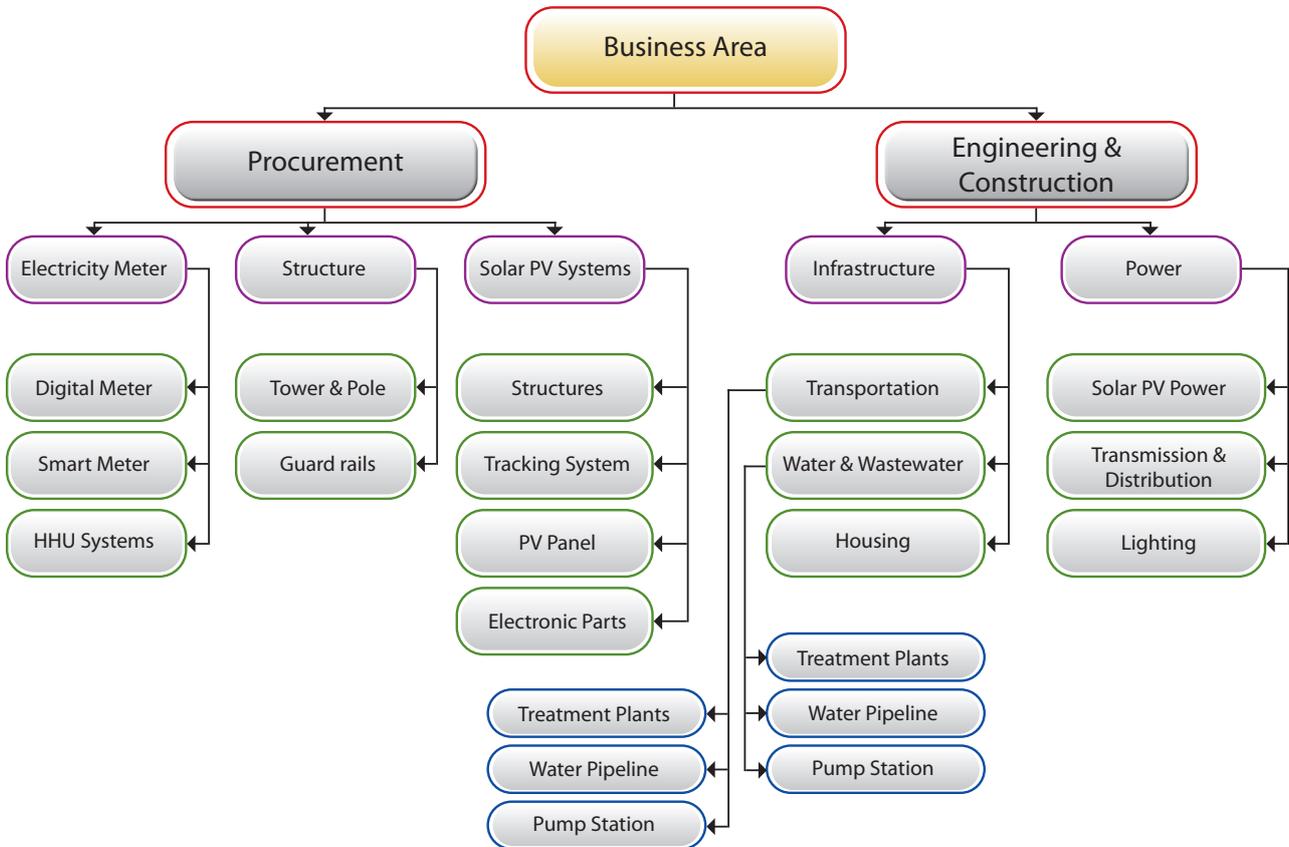
MEMBERSHIPS

- Iraqi Chamber of Commerce - Baghdad / 1st Grade in General Construction
- Kurdistan Chamber of Commerce - Erbil / 1st Grade in General Construction
- Iraqi Contractors Union - Erbil
- Kurdistan Contractors Union - Erbil
- Iraqi Businessmen Union of businessmen - Iraq
- Iraqi Businessmen Union Kurdistan Region Center - KRG
- International Union of Businessmen Iraq

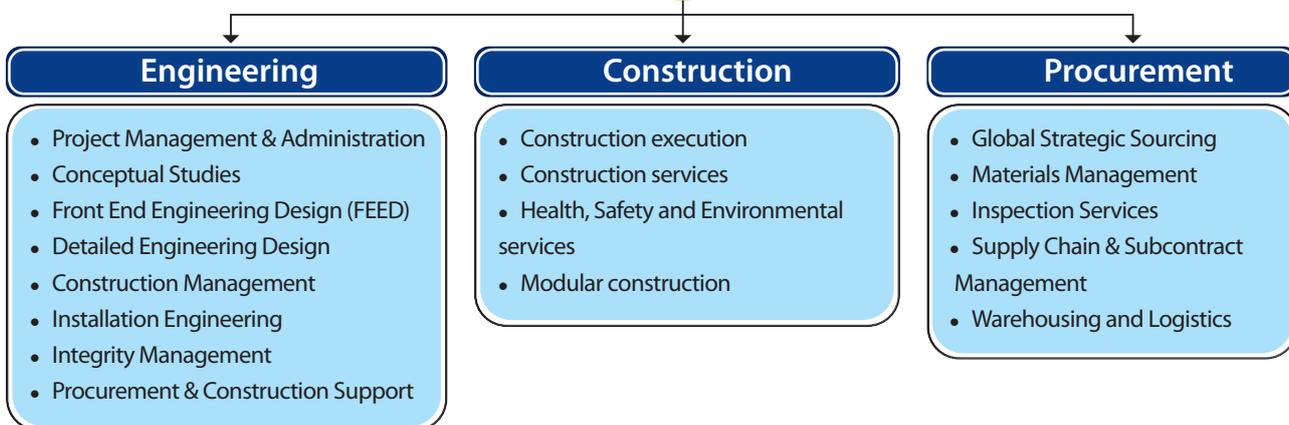
CERTIFICATIONS

- Certification of the company's registry by the Ministry of Finance and Economy, Kurdistan Regional Government (KRG) - letter no. 658 dated 03.03.2005
- Certification of the classification as the first grade Al-Tareeq Company according to permission no. 1478 dated 03.03.2005 from Ministerial Council, Kurdistan Regional Government (KRG)
- Certification of the company's registry by the Ministry of Finance and Economy, Iraq - letter no. 111 dated 1983

BUSINESS AREA & SCOPE OF SERVICES



SCOPE OF SERVICES





Engineering & Construction

- Transportation
- Water & Wastewater
- Housing
- Solar PV power
- Transmission & Distribution
- Lighting

INFRASTRUCTURE

We are engaging in infrastructures projects in territory of Republic of Iraq. Our progress is founded on the basis of ethics management and respect for the mankind and environment, which is our way of evolving into a reliable global company.

AGC has been contributing to the expansion of the nation's infrastructure by successfully completing a number of road, railway, port and leisure facilities projects based on our superior technology and experiences accumulated over many years.

AGC will soon develop into a global construction and engineering company by diversifying our product and service offerings in markets we are already established in and by entering new overseas markets in the Middle East and CIS countries in the near future.

By actively discovering domestic and international SOC development and overseas resource development projects, AGC is building competencies as a composite developer capable of handling all fields of the construction industry from project planning to design, construction and facility operation.

ENGINEERING & CONSTRUCTION

INFRASTRUCTURE | TRANSPORTATION

Roads, bridges, and railways are the base for a nation's development and prosperity. If there are abundance of roads life becomes convenient and if the roads are wide, the future becomes closer. AGC has contributed to the balanced national development by executing various public and private civil engineering and SOC projects.

AGC provides outstanding multi-disciplinary services and will continually develop its technology and concentrate on building the Iraq's best roads, bridges, and railways.



▲ Road of Als in Hemrin field
Salahadin Governorate
Construction



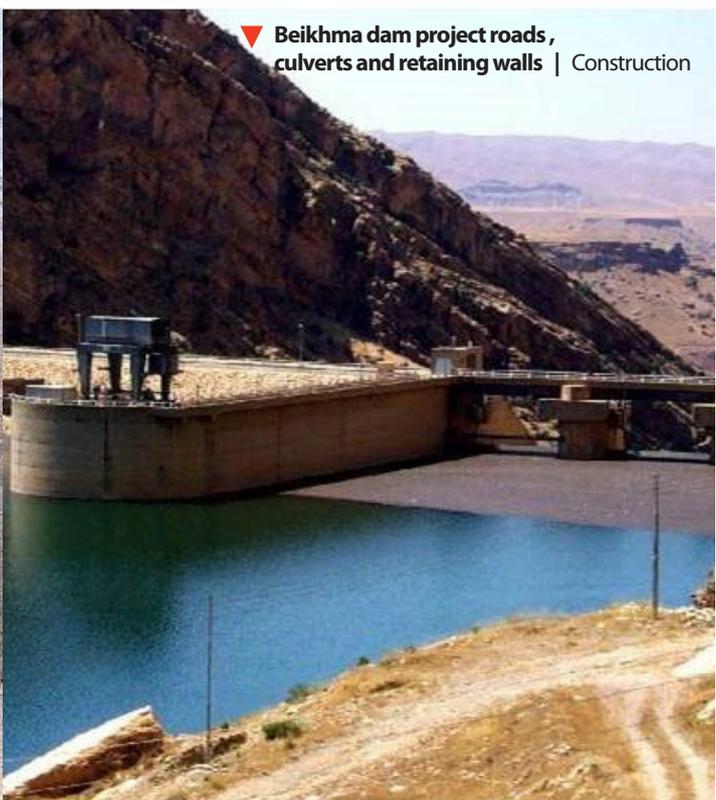
▲ Baghdad-Kwt main road | Re-design & Construction



▲ Baghdad- Hilla main road-both | Re-design & Construction



▼ Road of Nakhiela Hamrin field
Salahadin Governorate
Construction



▼ Beikhma dam project roads,
culverts and retaining walls | Construction



Water treatment, transmission, pumping, distribution is a whole process that improves the quality of water and transmits to the end user for drinking, industrial water supply, irrigation, river flow maintenance, water recreation or many other uses, including being safely returned to the environment. After water usage, the Wastewater collection network and treatment process are essential to improve public health and preserve public water.

AGC has executive experience in developing of water and wastewater systems. Our experts provide a full range of services including engineering, construction, procurement and O&M.



◀ Installation of water collection compact unit for university of Tikrit
Design & Construction

Extension of water pipe network in Anbar Province | Construction ▶



◀ Waste water treatment plant of Rashida - Baghdad
Design & Construction

Extension of oil pipe & connecting with deep wells located Khabaz field | Construction ▶



◀ Extension of water network to Tikrit University
Design & Construction

INFRASTRUCTURE | HOUSING



AGC has established reputation for providing practical and independent services in housing projects of all kind and sizes for both public and private sector clients from engineering to procurement and construction on various aspects of project.

◀ **800 houses in Erbil** | Redesign & Construction



▼ **700 houses in Erbil** | Redesign & Construction



▲ **Factory for sandwich panel in southern industrial area**
Installation & Construction

POWER

Power Plant is a facility to generate electricity from fossil fuels, or renewable energy sources such as solar, wind, hydro, and geothermal.

The generated electricity is transmitted through power transmission system. Power transmission is the movement of energy from its place of generation to a location where it is applied to perform useful work.

Power transmission is usually performed with overhead lines as this is the most economical way to do so. Underground transmission by high-voltage cables is chosen in crowded urban areas and in high-voltage direct-current (HVDC) submarine connections.

AGC power division provides our customers with the highest technical services through whole process from consulting to construction and maintenance in solar PV power systems, transmission and distribution, and lighting systems.



No greenhouse gas emissions are released into the atmosphere when you use solar panels to generate electricity and because the sun provides more energy than we'll ever need, electricity from solar power is a very important energy source in the move to clean energy production.

Why AGC propose you to use solar energy?

- Solar power is good for the environment
- Solar electricity makes your home go Off-the-Grid
- Solar power can use underutilized land
- Solar power causes less electricity loss
- Solar power improves grid security
- Solar power creates jobs and economic growth in the Iraq
- Solar power is the free source of energy





AGC provides customers with a total solution as starting from feasibility studies of solar projects to engineering, technology, procurement and project management, construction and commissioning. It will be enable customers to generate stable revenue by:

- **High Efficiency:** We guarantee the highest output through using high efficiency products for solar PV equipment
- **Follow-up Management:** We establishes round-the-clock service support system to minimize problems for customer satisfaction with before sales and after-sales services
- **Stable Construction:** We guarantees high output based on the construction of high efficiency power plants for plant operators
- **Technology Support:** Our experts provide knowhow on mass production technology of high efficiency solar modules and offer education on photovoltaic power plants management

through one to one technology training support with customer's technicians.

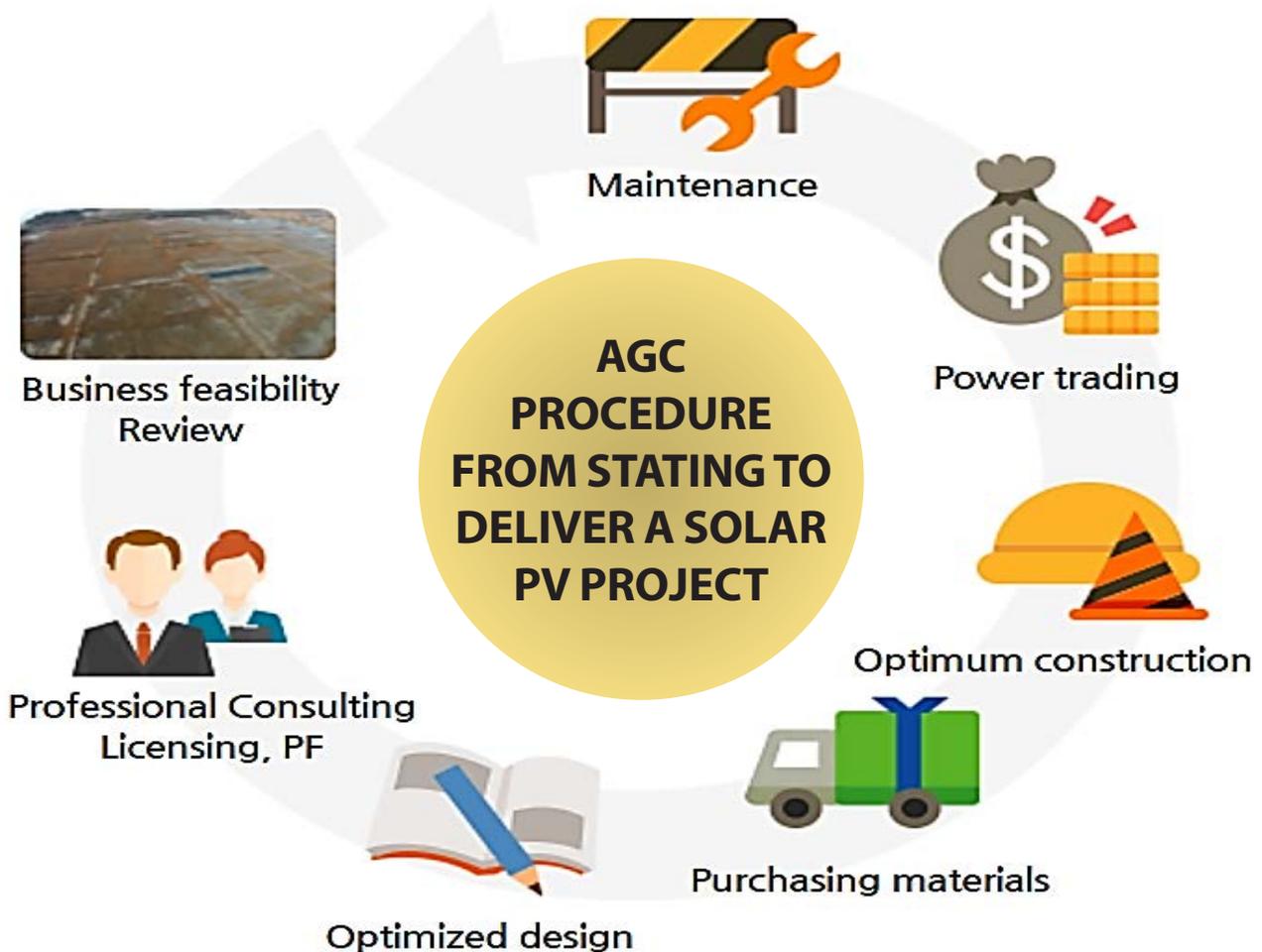
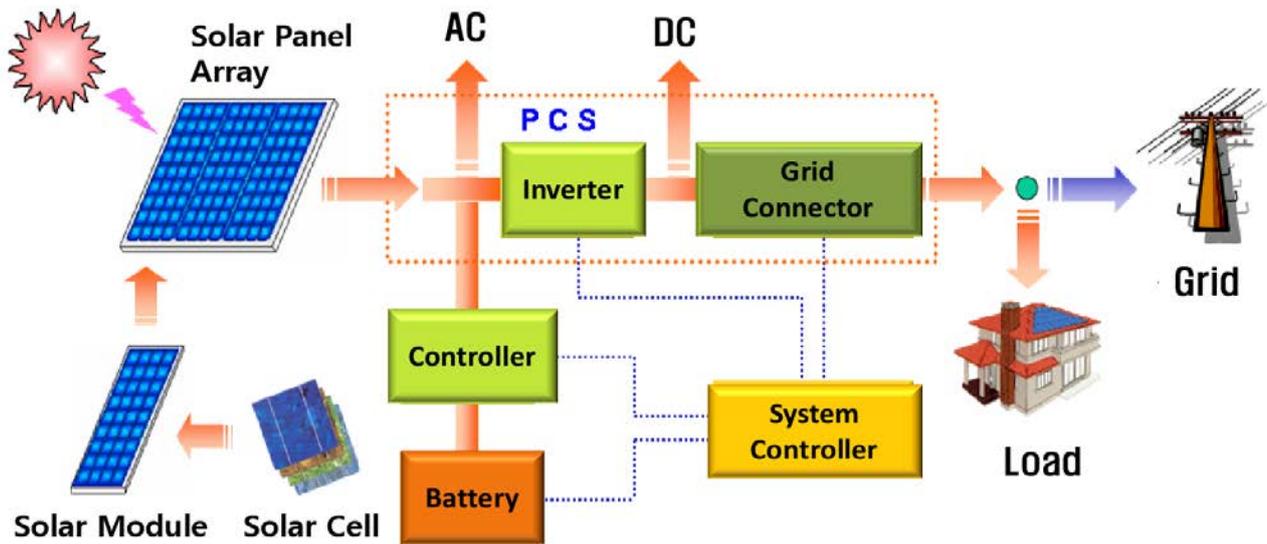
AGC provides EPC services for two types of PV systems capacities:

COMMERCIAL PV POWER

Business owners, finance officers, facilities managers, sustainability experts and energy engineers continue to choose Hannah Solar for their needs. Whether it's for a specific IRR, a corporate clean energy goal, a modern architectural look or a way to save on your electricity expenses, we've got you covered. We will help you find all the tax incentives and utility programs that help your project economics. Our state experts know the existing regulations and policies that define solar project parameters and thus, we will never "oversell" or create solar arrays that are economical in one location but not in yours.

Residential PV Power

AGC has been installing residential systems for homeowners since 2019. Our staff is friendly and knowledgeable and will work with you to design a solar array that works within your budget while also providing the greatest economic impact. Every home is different, and your solar array will be a custom designed solution installed by the best in the business.



AGC INSTALLATION PROCESS OF SOLAR PV PLANTS



Preparation



Civil Work



Drain Work



Foundation Work



Fence



Ground Structure



Assembly Module



Install Structure



Gear-Box



Wiring Work



Grounding



Connecting Module



Electrical Room



A first half



Inverter



Grid connection



Monitoring System

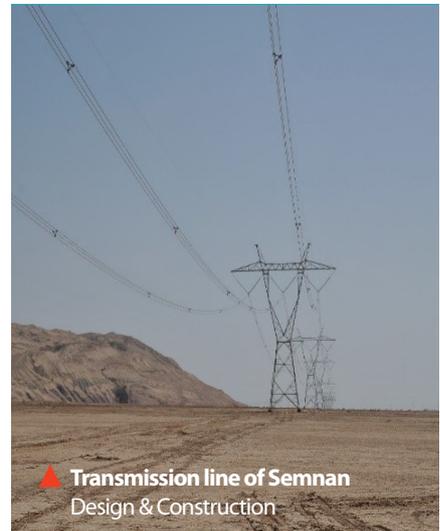
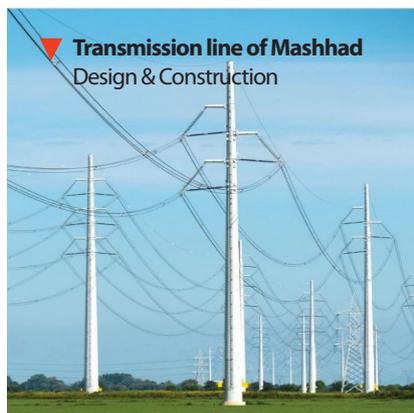
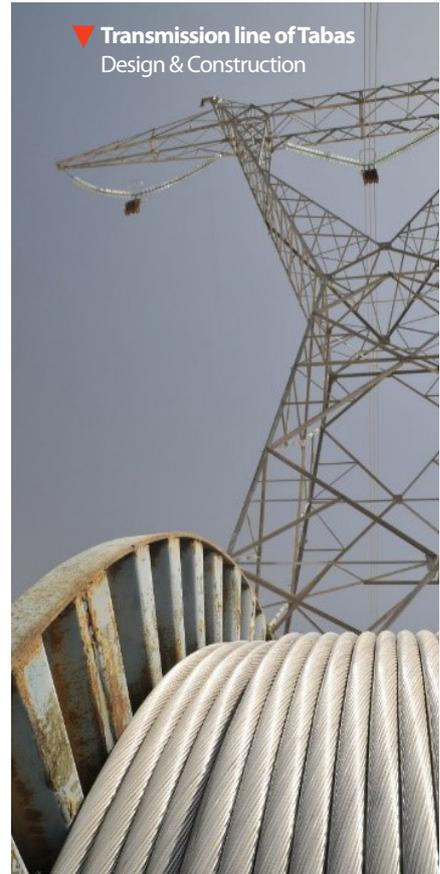


Completion



POWER | TRANSMISSION & DISTRIBUTION

AGC design and engineering team specializes in electrical distribution posts and telecommunication towers, including distribution of high power grid over 400 KV using the latest technology and equipment.



AGC is capable to design and construct pole and lighting systems with the optimized energy consumption and costs. The integration of the pole and LED lights capability makes AGC as a unique energy saving solution provider in Iraq for street, tunnel and stadium lighting.



POWER | LIGHTING TOWER

AGC is capable to design and construct light for the massive open areas in and out of city. The body holds the structure 12, 8, 6 dimension from steel grade ST37, ST52 & ...

It has been designed in telescopically from the altitudes of the poles are between 9m and 30m.





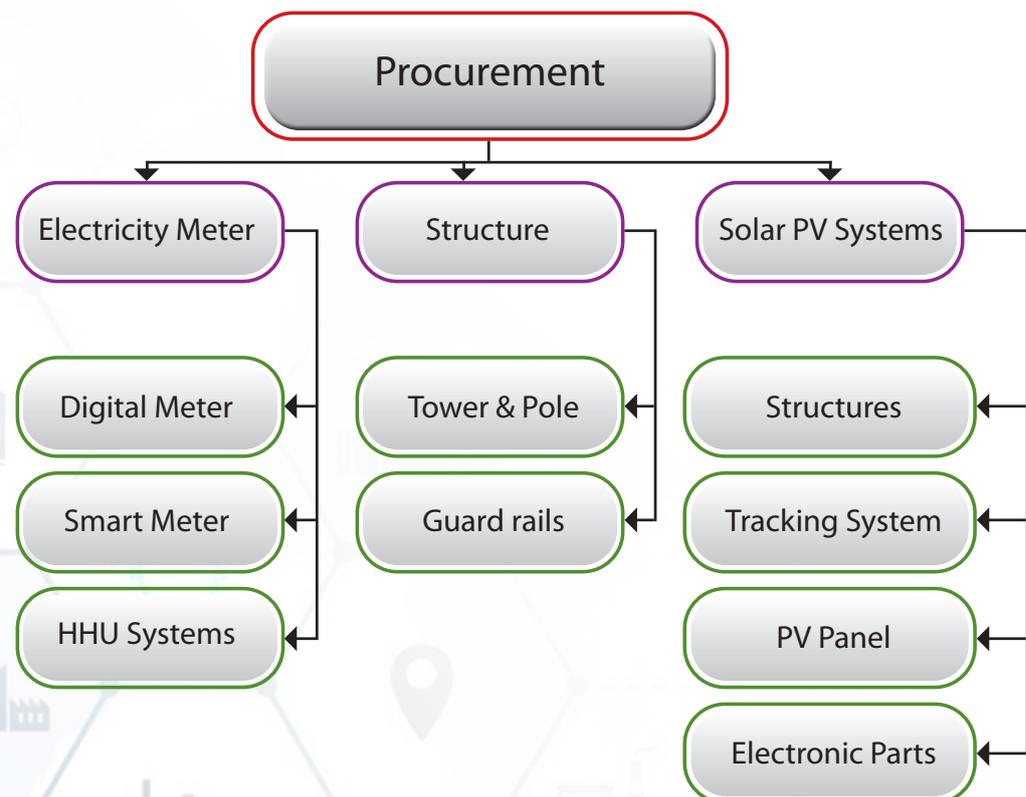
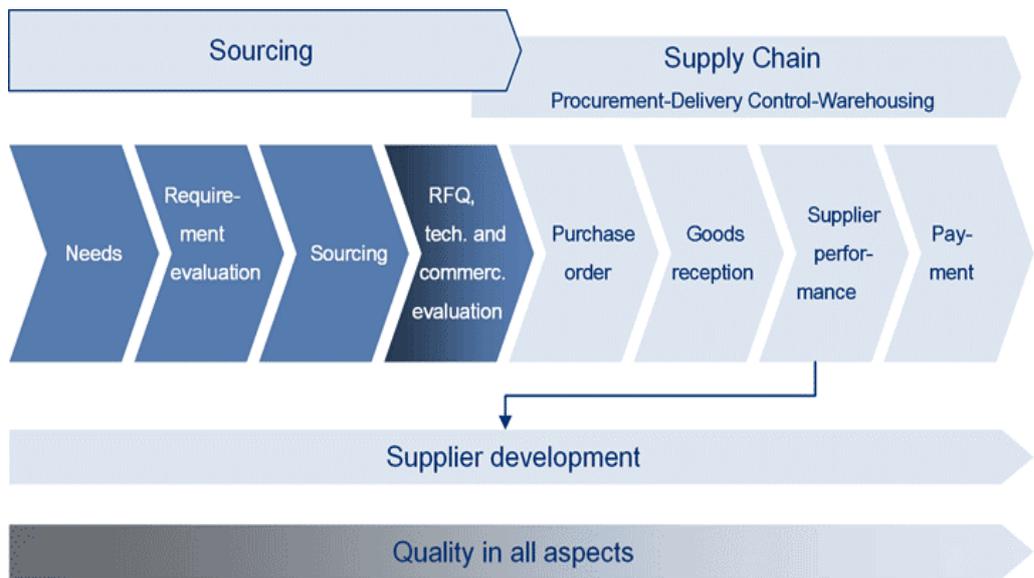
Procurement

- Solar PV Systems
- Structure
- Electricity meters

PROCUREMENT

AGC is capable to produce and coordinate purchasing materials and equipment and requirements of power, oil and steel industrial projects in both public and private sectors. Procuring structures for PV systems, transmission and distribution towers and poles, lighting towers and poles, substation structures, guardrails and signs, are a part of AGC capabilities.

A generic example for our procurement services in a typical public tender is illustrated below:



AGC is an Iraqi domestic leader in structure and tracking solution for utility, commercial and residential solar PV energy systems. AGC innovations in solar structure and tracking continue to provide the lowest production cost through reliable, durable and robust system. AGC procures two types of solar structures: Fixed Type, and Single & Dual Axis Tracker.

Fixed Type

Fixed type was established through the process including simplifying structure, convenience of constructing and installing, and minimizing welded areas which satisfied international construction standards. ASA continues to improve its technology for new structure, new method of construction and reliable products that will minimize the after service costs.

Single & Dual Axis Tracker

A tracker uses real-time tracking and controls to ensure the maximum angles of module presentation. It is designed for easy assembly with higher corrosion resistance steel (Magnesium Alloy Coating Steel). Single Axis Tracker produces optimal efficiency of the solar PV. Compared to the Fixed type, this has up to 30% more of a generating efficiency. Dual-Axis Tracker produces the maximum efficiency of the solar PV regardless of the weather or temperature condition.



STRUCTURE | GUARDRAILS & TRAFFIC SIGNS

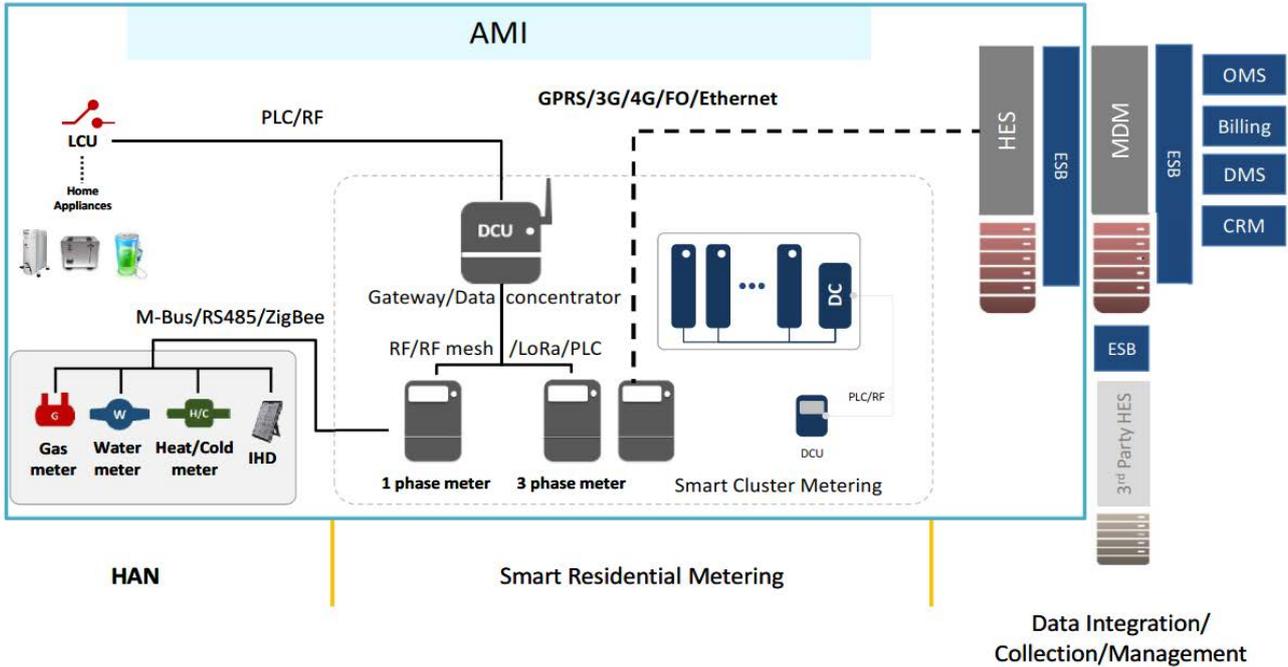
Another product of AGC is the guardrail and its accessories which are used in the highways and inside of the cities and also all the traffic signs which produced base on the latest standard in the world.





ELECTRICITY METERS

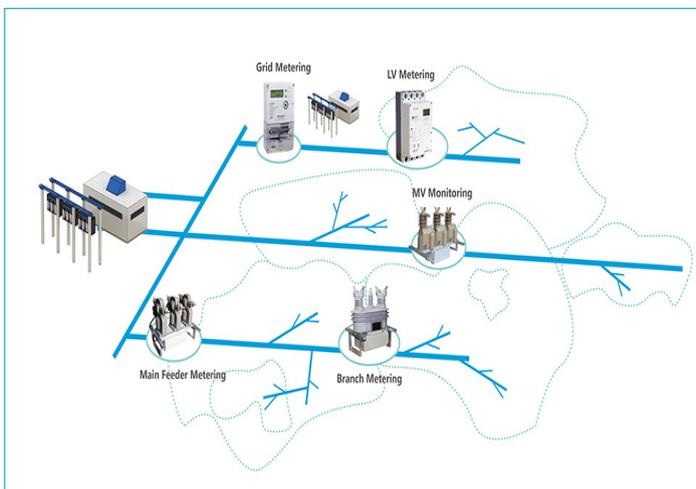
AGC is able to supply Digital Electricity Meters and Smart Meter solutions according to specification and requirements of Ministry of Electricity. AGC is local agent of Hexing Group Company in the field of Digital Meters in Iraq.



Hexing is a multi-national company founded in 1992 with headquarters in China.

Hexing provides a package of solutions including AMI, C&I, Distribution Transformer Monitor and ATC&C losses diagnoses to reduce commercial losses and more efficiently manage the use of energy.

Today more than 80 countries around the globe are utilizing Hexing products and Solutions for a better tomorrow. AGC is supplying PCBA for digital meters as SKD parts to DIYALA factory as main production line for digital meters in Iraq.



SMART SINGLE PHASE METER (HXE 110)

HXE110 as a smart single phase direct connected meter with a modular communication system .The meter is equipped with reliable built-in control relays.

KEY FEATURES:

- | | |
|-------------------------------|-------------------------------|
| 1. Four Quadrants Measurement | 6. Demand Monitoring |
| 2. AMI Ready | 7. Anti-tamper |
| 3. Built-in control relay | 8. Access security management |
| 4. Multiple communications | 9. Interoperability |
| 5. Large data storage | 10. I/O |



SMART METER THREE PHASE METER (HXE310)

Smart three phase direct connected residential meter with modular communication device, designed according to DLMS COSEM open standard protocol.

KEY FEATURES:

- | | |
|-------------------------------|-------------------------------|
| 1. Four Quadrants measurement | 5. Anti-tamper |
| 2. AMI Ready | 6. Access security management |
| 3. Built-in relay control | 7. Interoperability |
| 4. Demand Monitoring | 8. I/O |



PREPAID SINGLE (HXE 110-KP) & THREE PHASE METER (HXE310-KP)

Prepayment residential meter with keypad to provide local and remote reading/writing, credit charging through STS standard and unique plug-play communication module.

KEY FEATURES:

- | | |
|-------------------------------|---------------------------------|
| 1. STS standard | 6. Anti-tamper |
| 2. CTS standard | 7. Load profile |
| 3. Built-in relay control | 8. Local and remote charge |
| 4. Prepaid / Post-paid switch | 9. CIU connection |
| 5. Demand Monitoring | 10. Import & export measurement |



CUSTOMER INTERFACE UNIT (CIU)

CIU EV100 is a new generation of customer interface unit with keypad for credit charging. It communicates with metering unit by MBUS for energy consumption monitoring and credit charging.







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