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Since 2017, this publication has been the first and only directory in Jordan that includes detailed profiles of companies, project fact sheets and comprehensive listings of EWE companies and organizations. Thousands of print copies of this publication continue to be distributed free of charge, at local and international events, through professional associations and directly delivered to decision makers. It is also available online at JordanEWE.com and as a downloadable PDF. You may follow us on all social media channels (Facebook, Instagram and LinkedIn).

It has been a difficult couple of years filled with challenges for companies, but as we enter 2022, there is renewed business activity and optimism to boost the EWE sector. Perhaps one of the indicators is that this edition has a record number of 53 participating companies.

MediaScope is always proud to serve this sector and we hope that you benefit from Who’s Who in Jordan’s EWE 2022.

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Other Who’s Who Publications by MediaScope

Zeid Nasser
MediaScope

• Al Faris Renewable Energy and Energy Solutions
• Al-Manhal Renewable Energy Company (MRE)
• Alynedeh Est. for Electricity & Renewable Energy Services
• ALTAYSEEER Co.
• Associated TransTech Contracting (ASTRACO)
• Be Solar for Renewable Energy Solutions
• BS Solar
• Control Solar Est
• Consolidated Energy & Economic Engineering (C3E)
• ETA-max Energy & Environmental Solutions
• First Balasameh Corporation for Control Systems (FB GROUP)
• Green Electron
• Green Environment for Renewable Energy (GreenVico)
• HAWANA Energy
• IDHAL for Solar Energy Solutions
• Jordan Terra Watt Renewable Energy Company L.L.C.
• International Technical Construction & Storage Co. FZ (XLLIL)-ITCC
• Izzat Marji Group (IMG)
• Jordan Tractor and Equipment Co.
• Jordan Wind Project Company PSC (JWPC)
• Kawar Energy PSC
• MANTEQ Engineering
• Millennium Energy Industries (MEI)
• Mustakbal clean tech (MCT)
• Nashwan for Energy Solutions
• NUR Solar Systems
• Olivia Energy
• Philadelphia Solar (PS)
• PanMed Energy
• Pivot Jordan
• Trust Energy Solutions
• WIOSUN for Renewable Energy Ltd.
• Yellow Door Energy

Environmental & Water Services
• BDO Jordan (Samman & Co)
• Engicon

Accreditation & Licensing Services
• Adva Therm
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Consulting & Total Solutions Providers
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• Arabtech Jordanah Group
• Elite Energy & Engineering (EEE)
• Royal Scientific Society (RSS)

Energy Technology Providers
• Al Masoudia Electrical Industries Co. Ltd. (MASEICO)
• Arar & Abdullah Trading Co.
• GEM (Green Energy Market)
• Generators for Solar Energy
• SPECTRO Electrical Equipment Co.
• Solarity

EWE Investment
• Catalyst Investment Management
• Kingdom for Energy Investments (PSC)

Conventional Energy Services
• Jordan Oil Terminals Company (JOTC)
• Jordan Petroleum Products Marketing Company

Supporting Services
• Algebra Intelligence
• Lafarge Concrete Jordan

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About the Ministry of Energy and Mineral Resources

The Ministry of Energy and Mineral Resources was established in 1984 and entrusted with administering and organizing the energy sector in a way that achieves the national objectives.

In light of the restructuring process, the responsibilities of the ministry were amended to include the comprehensive planning process of the energy and mineral resource sector, and setting the general plans and ensuring their implementation in a way that achieves the general objectives of the sector; the most important of which is providing energy, in its various forms, for the development process and organizing its affairs; in addition to the optimum utilization of natural resources complying with international best practices.

Vision: Achieving a secure sustainable supply of energy and optimal utilization of natural resources.

Mission: Setting and developing the appropriate policies and legislations to achieve a secure sustainable supply of energy and that the optimum utilization of natural resources complies with international best practices.

Core Values: Teamwork Spirit, Knowledge Dissemination and Use, Integrity and Transparency, Excellence and Entrepreneurship, Loyalty and Affiliation.

Natural Gas Directorate:
Through the Natural Gas Directorate, the Ministry of Energy and Mineral Resources is seeking to achieve the strategic goal of increasing the contribution of natural gas in the total energy mix. This will be achieved through the development of local sources of natural gas; expanding the use of natural gas in power generation and industries; and securing additional sources of natural gas to the Kingdom. To achieve this strategic goal, the Natural Gas Directorate follows up and manages gas projects and programs across the Kingdom.

Oil Shale in Jordan:
Jordan has more than 70 billion tons of sub-surface proven reserves of oil shale, which is more than 7 billion ton-oil-equivalent. The national strategy for the energy sector has included Oil Shale as an alternative energy source to contribute about 12% of the energy mix in the Kingdom in 2025.

The Government has adopted a Commercial Legal Framework and an Environmental Legal Framework within the contracts with the investing companies to govern and control oil shale exploitation projects with the help of the relevant international consultancy firms. A national exploration program has been scheduled and implemented to investigate new potential areas for investment throughout the Kingdom for new exploitation projects, for both the deep seated resource and the surface resource to produce both oil and electricity.

The Government is currently adopting a three-track approach to handle Oil Shale resource exploitation which includes In Situ for the deep Oil Shale to produce oil, Surface Retorting for the mined Oil Shale to produce oil, and Direct Burning of Oil Shale for Electricity Generation.

Renewable Energy:
Jordan has been exploring opportunities to develop renewable and energy-efficient sources of power in order to reduce the country’s reliance on imported fossil fuels and to reduce Jordan’s greenhouse gas emissions. Jordan targets the share of renewable energy in the country’s generated electricity to be 20% by 2020.

In terms of installed capacity, the “Jordan 2025” plan targets an increase in the share of renewable energy in Jordan’s installed electrical capacity from 1.5% in 2014 to 25% by 2025. As a result, the government has established various policy and regulatory frameworks to support renewable energy generation in the Kingdom.

In 2012, the Renewable Energy and Energy Efficiency Law was passed. Pursuant to this law, investors may identify and propose potential electricity production projects including wind, solar and waste-to-energy projects, to the Ministry of Energy and Mineral Resources for consideration. In addition to the various large-scale power projects underway in the Kingdom, the government supports small-scale renewable electricity generation projects and permits the sale of surplus electricity generated at a fixed tariff. As a result of this, Jordan now has more than 730 MW of installed wind and power projects (including small scale projects). These projects produce more than 7% of the total consumed electricity in Jordan. The total current contracted capacity is around 1736 MW. The total installed capacity by 2021 is expected to reach 20%. ■
Jordan Renewable Energy and Energy Efficiency Fund (JREEEF)

Jordan Renewable Energy and Energy Efficiency Fund (JREEEF) was created in 2012 by the EE and RE Law No.13/2012. The Fund is established, according to the By-Law No. 49/2015, as an entity under the Ministry of Energy and Mineral Resources (MEMR). The basic purpose of JREEEF is to provide the necessary funding for the deployment of renewable energy sources and the rationalization of energy consumption, including small renewable energy facilities. It supports any program and the financial mechanisms allowing RE and EE users and investors to access financing from banks, local and international financial institutions.

The main JREEEF objectives are to support government in reducing the financial burden on consumers and the national economy, resulting from energy imports and subsidies to the energy sector. In addition, the fund aims to promote the development of a domestic industry as well as to open up new markets. A set of financial and technical support products have been developed including revolving credit, grants, loan guarantees, technical support and equity financing.

JREEEF focuses on funding decentralized renewable energy systems and has programs covering the following sectors:

- Household programs: Solar Water Heater (SWH), LED energy saving lamps, Solar PV systems.
- Small and Medium Enterprises (SME’s): Includes EE activities for the industrial sector for small and medium factories, and tourism sector for 4 stars hotels.
- Schools program: King Abdullah’s initiative for heating schools, implementing energy efficiency and renewable energy actions.
- Public and governmental institutions: Conducting the energy audits in governmental buildings, Solar PV systems for Public CBO’s and implementing solar PV systems for municipalities and health centers.
- Worship places: Installation of solar PV systems for worship places including mosques and churches.
- Agriculture sector: Implementing solar PV systems for small farms.
- Awareness and capacity building programs.

In order to implement these programs, JREEEF in collaboration with several development partners, pursues a number of funding mechanisms including financing programs developed with the support of the Central Bank in cooperation with commercial banks and Jordanian companies. The fund also provides loan guarantee services on behalf of these institutions, to guarantee loans and to provide the necessary financing for enterprise projects and factories at a zero interest rate.

JinkoSolar Suntank Storage provides increased safety and control of Electricity bill for your home

JinkoSolar has always been known for its top-tier solar panels – now, they’re expanding their influence in the energy storage space. In 2020 PV Expo Japan, the company launched their first residential storage solution branded as Suntank storage system which is sized for day-to-day use at your home and is primarily designed to be paired with a solar panel system. When your solar panels produce more electricity than you can use in your home, you can store the excess electricity in the battery system instead of sending it back into the grid. Later, when your panels aren’t producing enough electricity to meet your home’s needs, you can use the stored energy in your battery instead of having to buy it from your utility company.

There are key things to know about the JinkoSolar Suntank system. Among the most important advantages of this system is increased safety thanks to its Lithium Ferrous Phosphate (LFP) battery compared to the traditional Lithium-Ion NMC technology used in many batteries, as safety is so critical to evaluate the storage system for power generation facility. The stability of LFP chemistry and additional internal auto detecting and self-protection mechanism makes this storage system much safer.

In addition, JinkoSolar’s Suntank system made for home use also features compact size of the battery (power and capacity), enhanced depth of discharge, and roundtrip efficiency, longer life and improved reliability.

The Suntank home storage system comes in three sizes of usable capacity, all with the same power rating. You can get a Suntank system in capacities of 6 kWh or 9 kWh or 12kWh with a power rating of 5.9 kW, which is capable of powering more, bigger appliances (i.e., your HVAC system of 200V) or many appliances at once. Suntank with a higher usable capacity can store more total energy and thus can run your appliances for longer periods of time without needing to recharge.

It is backed by a 15-year, or 12,000 cycles throughput, product and performance warranties that cover the equipment in the case of faulty parts or defects, as well as the actual performance of the battery. This means that your battery is guaranteed to be able to store at least 70 percent of its initial capacity by the end of 15 years or cycling your battery 12,000 times.

The Suntank storage system is specialized to guarantee operation for down to 30°C. With IP65 rating, the existing enclosure is optimized for extreme climate and environments, ideal for mounting in external areas.

Installing JinkoSolar’s solar-plus-storage system at your home is a great way to take control of your electricity bill, it’s a worthwhile investment.
About the Energy and Minerals Regulatory Commission (EMRC)

Energy and Minerals Regulatory Commission (EMRC) is a governmental body that possesses a legal personality with financial and administrative autonomy. It may, in such a capacity, acquire movable properties necessary to achieve its goals, and to perform all legal acts, including entering into contracts. It further has the right to litigate, whereby the Civil Attorney General acts on its behalf in legal proceedings. EMRC is considered the legal successor of the Electricity Regulatory Commission (ERC), the Jordan Nuclear Regulatory Commission (JNRC) and the Natural Resources Authority (NRA) in relation to its regulatory tasks pursuant to law No. (17) of the year 2014 on Restructuring of Governmental Institutions and Organizations.

The Chairman of the Board of Commissioners/CEO represents it before third parties. It consists of the Board and the Executive Body. The commission shall be related to the Prime Minister.

EMRC aims at achieving the following:
- Regulating the sector on the basis of balance between the interests of the consumers, licensees, investors and any other relevant parties.
- Attending to the interest of electricity consumers, provided the compliance thereof with the conditions on provision of service as issued by the licensees and approved by EMRC.
- Maintaining an active structure for the sector and developing the same in a manner that contributes to and promotes its economic feasibility enhancing the efficiency thereof.
- Ensuring security of supply, sustainable, durable and of high quality services.
- Ensuring the compliance of enterprises operating in the sector with the standards of environmental protection instructions, laws and the general safety conditions applicable in the Kingdom pursuant to the legislations in effect.
- Ensuring that the conditions and requirements of general safety, radiation protection, and nuclear safety and security are in place.
- Working on protecting the environment and human health and property from the risks of contamination and exposure to ionized radiations.
- Ensuring the provision of necessary services by the licensees to consumers in an adequate manner.

EMRC Duties:
In achieving the goals thereof, EMRC assumes the duties and powers hereunder:

- Granting permits and licenses to persons operating in the sector.
- Verifying the compliance of permittees and licensees with the application of the provisions of the laws, regulations and issued related instructions.
- Monitoring the permittees and licensees with a view to ensure the compliance thereof with the provisions of the laws and the permits and licenses granted thereto, for which purpose it may make inspections to any entity or any other body.
- Determining the electric tariffs, subscription fees, service charges, deposits and cost of service connection with the electric transmission and distribution systems.
- Determining the fees, service charges, deposits and any other costs related to the sector.
- Participating in developing the technical standard specifications related to the sector appliances and facilities in consultation with other stakeholders in order to issue the same by Jordan Standards and Metrology Organization.
- Participating with relevant parties in setting the requirements for implementing the environmental conditions to be available in entities and facilities of the sector in accordance with the legislation in effect.
- Building an integrated information system in the sector.
- Regulating the relationships between Jordanian entities and institutions concerned with radiation protection and nuclear safety on the one hand, and between them and the international, regional, Arab and local organizations and institutions on the other hand.
- Applying comprehensive nuclear safeguards and creating an inventory system to control all nuclear materials subject to such safeguards.

The commission is responsible for regulating and monitoring the energy sector, natural resources, minerals, radio and nuclear work in the Kingdom including petroleum, petroleum products, oil shale, coal, natural gas, liquefied natural gas, biofuels, generation, transmission, distribution and supply of electricity, renewable energy, radiation protection, safety and nuclear security.
Ministries and Governmental Organizations

About the Ministry of Water and Irrigation

The water sector in Jordan is considered to be one of the vital and important sectors. It deals with the reality that Jordan is the country which represents the most critical water case worldwide. Taking into consideration the great importance of water and how it is linked to social security, political and economic, Jordanian government cabinets have paid the greatest of attention towards water issues seeing as Jordan is known to be one of the poorest countries worldwide in water supply. As such, there has been a focus and concentrated attention on the water sector since His Majesty Abdullah II Bin Al Hussein ascended to the throne of the Hashemite Kingdom of Jordan.

Over the past years the Ministry of Water and Irrigation, including its water authority and the Jordan Valley Authority, have taken large strides towards dealing with this reality, and have prepared for several scenarios through strategies to address growing water demand; especially after the Syrian refugee crisis, which raised the demand for water by more than 21%. As a result, the National Water Strategy of 2016-2025, along with the accompanying policies and the investment program have been implemented to cope with this increase in demand and are in line with the Jordan 2025 document (Jordan Vision).

Water Security is one of the most important aspects of this strategy, aiming to achieve sustainability of water sources, improving the efficiency and the level of water, and sanitation services for customers to reach 80% by 2025; while focusing on expansion in the use of treated water to substitute freshwater for drinking purposes.

Accordingly, the ministry seeks to provide new sources of fresh water, to exceed 187 million cubic meters, as well as implementing the water supply strategy for the northern governorates till the year 2028. This occurs in line with bringing forward the project of supplying the water of Wadi Araba, to secure 30 million cubic meters annually by the year 2019 at a cost of 125 Million dollars. In addition, there is the project of the Aqaba-Amman National Conveyance project (AAWDC Project), to enhance the kingdom’s national water security by producing potable water through desalination at the Gulf of Aqaba and transferring 300 MCM/Year of additional water to all of the country area.

The ministry is strengthening the principle of integrated water resources management to achieve sustainable development goals for the water sector (SDGs). The management of the water sector is working to reduce gas emissions resulting from global warming and to increase the competencies of plants specialized in the Wastewater treatment plants up to 32 plants, operated by the latest mechanical experiences through several strategies covering the center, north and south governorates.

In addition, expanding the number of stations and increasing the proportion of sewerage users from about 63% to 80%, thus providing greater quantities of pure drinking water through the increase of the quantities of recycled water used from about 190 million cubic meters; with a total of 240 million cubic meters in 2025 which results in increasing the irrigated plots in a number of areas achieving economic development as well as progress in the lifestyles of large segments of people side-by-side with the expansion of dams storages and raising storage capacity to reach 400 million cubic meters through effective policies of water harvesting and expanding reliance on alternative energy, whereby the ministry is obliged to reduce energy consumption by 15% and to increase the share of renewable energy in the water sector by about 10% through the use of solar energy to save more than 40 million dinars annually. That’s not all, as the ministry also works on developing the Wadi Araba area into an attractive area for tourism, industry and investment.

The water investment capitalizes on areas of improvement according to the government Water Strategy; to encourage efficient use of natural resources, augment water supply, expand wastewater treatment and minimize water losses.

The current five prospective investment opportunities:
1. Aqaba-Amman National Conveyance project (AAWDC Project).
2. As Samra Treatment Plant (3rd phase /2nd expansion): To expand the capacity of the plant by an additional treatment capacity of 100,000 CM per day and to establish a solar power plant with 10 MW capacity.
3. Non-Revenue Water (NRW) Reduction: To reduce physical and commercial water losses in Amman.
4. Hisban brackish water desalination 10-15 MCM/Year: the project aims to augment water sources by 10-15 million cubic meters per year (through drilling of 10 wells) and to develop solar energy to provide about 15Mw.
5. Al Gahabawi Wastewater Septic Tank Facility Project: The project aims to construct a new septic 25-tank facility to replace and relocate an existing facility currently co-located at Ain Ghazal. The capacity will be 25,000 cubic meter per day and will be located at Al Ghabawi.

In the same context, and with a view to reduce water losses to about 30% in 2025, the ministry has implemented a large number of water projects, which include the construction of new pumping stations, distribution networks and subsectors of the National Water Carrier system that all lead to water empowerment to face challenges, developments and growing needs with lifting the cost recovery rate of operation and maintenance to 100 % in 2021; as well as the proportion of the total cost recovery to 74% and the reduction of governmental subsidy for the water sector.
About the Ministry of Environment

The Jordanian Ministry of Environment is constantly seeking to protect the environment and to improve its components in a sustainable manner. Accordingly, the Ministry exerted efforts in maintaining the Jordanian environment in full collaboration with all the partners and the active entities in the environmental sector and in other cross-cutting sectors.

The Ministry of Environment’s strategy (2020-2022) has been developed in a time where Jordan is witnessing various interior and exterior changes and challenges, especially the COVID-19 pandemic. This effort has also been conducted in response to the instructions of His Majesty King Abdullah II bin Al-Hussein in prioritizing the environment and granting it special care to ensure the development of the legislative frameworks; providing specialized skilled personnel and activating partnerships to protect the environment.

The Ministry’s vision is to be “a pioneering ministry in preserving environmental components toward sustainable development”. The Ministry’s mission is to “protect the environment, preserve vital ecological systems through setting and enforcing legislative frameworks, prepare strategies and policies, disseminate environmental culture and transition toward a green economy through a supportive institutional structure. The ultimate goal is to achieve sustainable development and reduce pollution and the negative effects of climate change while pursuing a participatory approach”.

Its mandate is that the Ministry is the competent authority in the protection of the environment in the Kingdom. Official and civil entities shall implement the legislations, instructions and decisions issued by the Ministry.

Strategic Objectives:
1- Protect and sustainably use ecosystem services.
2- Prevention of pollution and to address its adverse impacts.
3- Address climate change.
4- Transition towards a Green Economy.
5- Disseminate environmental culture and promote sound environmental behavior.
6- Develop institutional performance and promote a culture of excellence, innovation and gender mainstreaming.

Challenges:
• The increase in pollution levels due to the incremental growth in various sectors such as the transportation sector, the energy sector and the industrial sector; and the lack of commitment towards environmental standards.
• The degradation of ecosystems and the increasing desertification due to urbanization at the expense of farmlands, and violating forest lands and reserves. Finally, the absence of water resource management systems.
• The weak level of environmental awareness and environmental education within the local communities and the economic sectors.

Main Projects:
• Rehabilitation of Ecosystems in the Badia 2011-2020, which aims to rehabilitate pastures, water resources and wildlife in the Badia, which was damaged by the Gulf War in 1990/91 because of the overgrazing resulting from the resorting of a large number of refugees with their sheep to the Jordanian desert.
• Improvement of Green Infrastructure in Jordan through Labor-Intensive Measures (cash for work) (2017-2022) through jobs, the upgrading and further development of a Green Infrastructure.
• Improving Living Conditions in Poverty-Stricken Areas of Amman (2017-2021) which aims for participatory design of Green Infrastructure in Amman.
• Reduction and elimination of POPs, which aims to reduce and eliminate pops and other chemical releases through implementation of environmentally sound management of E-waste and medical waste.
• Supporting Effective Governance for NDC Review and Implementation, NDC (2018-2020) which aims to contribute to achieving the NDC mitigation targets and low-emission development.
• National forestry project (2020-2030).
• Increase readiness to facilitate financing for climate change and green growth projects.
• Introduce an electronic tracking system for wastewater transport vehicles, engine oils and hazardous waste.

Environment and Climate Change and transition towards a green economy:
Jordan is affected more intensely by this phenomenon rather than contributing to it, as is the case in many developing countries. The negative effects of global warming on Jordan include an increase in temperature; expansion in areas affected by drought; loss of some natural ecosystems; migration and habitat degradation; deforestation; a rise in the incidences of forest fires; fluctuation of rainfall; recurring heat waves; a decrease in the amount of water available (groundwater and surface) as a result of the decline in water flows, which in turn impacts food security.

Jordan’s greenhouse gas emissions total approximately 28.7 million tons per year, or 0.06% of global emissions. The annual amount of CO2 emissions per capita amounted to approximately 4.41 tons at the end of 2016 and this figure is expected to rise to 5.59 tons by 2030.

In 2016, Jordan submitted its Nationally Determined Contributions (NDCs) to the United Nations Framework Convention on Climate Change (UNFCCC) secretariat. The NDC document stipulates a reduction of emissions of 14% by 2030, of which 1.5% are unconditional contributions to the availability of funding at a cost of USD 0.5 billion, while 12.5% are contingent upon the availability of funding totaling USD 5.2 billion. To accelerate the implementation of its NDC, the Government of Jordan (GoJ) unveiled its NDC Action Plan in April 2019.

Jordan has been taking solid action to support green growth transformation. In 2017, the Cabinet approved the National Green Growth Plan, which established green growth as a top national priority. Jordan’s green growth vision – economic growth which is environmentally sustainable and socially inclusive – puts a strong emphasis on the importance of building resilience. This is needed for Jordan’s economy to be able to absorb external shocks such as the negative consequences of COVID-19, and the ability to restore itself and continue growing.

The Green Growth National Action Plan 2021-2025 has been launched recently for the main six sectors (energy, waste, water, transport, agriculture and tourism). The development of this plan lies at the heart of the continuous efforts and ambitions to support environmental and climate action in Jordan, while also achieving sustainable economic growth objectives and the green recovery of COVID-19 pandemic.
The Jordan Environment Fund (JEF)

The Jordan Environment Fund (JEF), was established in 2009 under the provisions of the Environment Protection Law of the Ministry of Environment, with a mandate to help Jordan advance its national goals for environmental protection and sustainable development. JEF is governed by its own bylaw (No. 18 for the year 2018) through its Board of Directors, which comprises of representatives from the public and private sector. The Fund’s mandate includes:

a. Support activities that contribute to environmental protection and conservation, and development of environmentally friendly practices.
b. Initiatives that promote resource efficiency, to contribute to sustainable development.
c. Contribute to raising environmental awareness, including use of cleaner production technology.
d. Focus on priority national sectors and provide support to enable fulfillment of environmental requirements.
e. Promote cooperation and knowledge transfer with national, regional and international entities with similar mandates to coordinate activities in support of environmental protection.

JEF works with beneficiaries from the public, private and NGO sectors, with the objective of achieving tangible impact on Jordan’s environment and society, including youth, women and vulnerable communities. JEF also seeks to attract climate and environmental finance to Jordan. JEF is strategically placed to serve as an implementation arm for the Ministry of Environment in delivering key environmental strategies and plans, including:

• Sustainable Development Goals (SDGs), (in particular environmental SDGs 4, 6, 7, 9, 11, 12, 13,14,15 and 17).
• Rio Conventions, among other key environmental conventions and agreements.
• Nationally Determined Contributions under the Paris Agreement (both Climate Change Adaptation and Mitigation sectors) and related action plans (e.g. NDC Action Plan, National Adaptation Plan).
• The National Green Growth Plan (including the six priority sectors of waste, energy, water, transport, tourism, agriculture).
• Sustainable Consumption and Production Action Plan.

Selected Achievements:
JEF has supported a number of projects to date on a grant-financing basis, in diverse sectors and locations across Jordan, including:

• Deployment of drone technology to enable the Rangers (environmental police) to better monitor and address forest violations, as well as respond to fire hazards.
• Installation of GPS tracking systems on hazardous wastewater transportation tankers in order to track violators and take corrective measures.
• Awareness projects on waste management and recycling in cooperation with local NGOs and local organizations (including the Children’s Museum, Jordan Environment Society, Mafraq Association, and South Association in Maan).
• Annual, nation-wide anti-littering awareness campaigns (including distribution of 1000 bins in forests across the Kingdom, school plays, videos, dedicated Facebook page, social media messages...etc.).
• Tree-planting, and sustainable forest rehabilitation schemes in cooperation with key stakeholders (public, private and NGOs).
• Development of the first interactive gaming app to raise awareness of youth (ages 6-15) about waste reduction and recycling (EcoChamp).
• Supporting the publication of Jordan’s ‘Red List’ volumes in collaboration with the Royal Botanic Garden which detail Jordan’s endangered plant species.
• Translation of the first course on climate change to the Arabic language, available online through UNITAR, in collaboration with EDAMA.
EDAMA Association for Energy, Water & Environment

EDAMA in Arabic means sustainability. EDAMA Association is a Jordanian NGO established in 2009 in response to Jordan’s energy, environment, and water security needs. As a Business Association, EDAMA cultivates an environment where innovative solutions for energy and water independence and environmental conservation emerge.

Advancing Jordan’s movement towards a green economy and sustainable development is an ambitious and priority goal. To be achieved, robust knowledge hubs, multi-stakeholder dialogue avenues, and private sector mobilization are required. EDAMA’s niche is in providing a platform agile and inclusive enough to involve many public, private, NGO, research and innovation sector representatives. These key players together discuss and shape the future development of the energy, water and environment (EWE) sectors in Jordan.

The four main pillars of the association’s work:
- Advocacy and research
- Business development
- Education and capacity development
- Communication and networking

EDAMA - A Diverse and Unique Community:
EDAMA’s membership base is unique in its diversified services and sectors. It includes energy service providers, consulting firms, banks, telecoms and industrial companies. As members come from across the EWE sectors’ value chain, EDAMA can leverage its expertise to make a difference at the service provider and end consumer levels alike. To join EDAMA’s community, contact EDAMA at members@edama.jo

EDAMA hosts the only power breakfast networking events of the sector, bringing together the most important key players to discuss topics-of-the-hour and the most recent updates. The association facilitates access to a network of key figures and organizations in Jordan and around the world. It promotes significant discussions with top experts of the sector. Previous power breakfast events have tackled such issues as financing energy, technical solutions, urban planning and many others.

EDAMA’s Capacity Building department aims to bridge the skills and competencies gap in the energy, waste and environment sectors by providing the highest quality of capacity building and development programs offered to members and non-members. EDAMA’s mission is to host and provide quality educational courses and professional development opportunities relating to the energy, water, and environment (EWE) sectors in Jordan. For more info on the courses and activities provided by EDAMA, you can contact EDAMA at training@edama.jo

EDAMA Members:
- AES
- Abour Energy
- Adenium Energy Capital
- Al Jidara
- Al Maawared Brokerage
- AlCazar Energy
- Al Sharif Zu’bi Advocates and Legal Consultants
- Amman Asia Electric Power Company
- Arab Bank PLC
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- Arabtech Jardaneh - Water and Environment
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- Atwan & Partners Attorneys and Legal Consultants
- Ayla Oasis for Development
- Bank Al Eithad
- Bank of Jordan
- Cairo Amman Bank
- Capital Bank
- Catalyst Investment Management Co.
- Central Electricity Generating Company
- City of Lights (E-RES)
- Clean Energy Concepts
- Consolidated Contractors Co
- E2E Integrated solution
- Eco Engineering and Energy Solutions
- EcoConsult
- Electricity Distribution CO
- Ernst & Young
- European Banking for Reconstruction & Development
- European Investment Bank
- Fine Hygienic Holding
- Firas Balasmeh Corporation for Control Systems
- Fujieij Wind Power Company
- Housing Bank Trade and Finance
- HT-SOLAR-HT-SAAE
- Ideal Solar Energy Co. Ltd. / HANANIA Energy
- Iribid District Electricity CO
- Izzat Marji Group
- Jordan Bromine
- Jordan Kuwait Bank
- Jordan Modern Oil & Fuel Services (Manaseer Oil & Gas)
- Jordan National Shipping Lines Company
- Jordan Oil Shale CO.
- Jordan Petroleum refinery
- Jordan wind Project Company
- Jordanian Egyptian FAJR
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- Lafarge Cement - Jordan
- Martifer Solar
- Masdar - Mubadala Company
- Mitsubishi Corporation
- Modern Arabia for Solar Energy PSC
- Musteh Law
- Mustakbal clean tech
- Near East Group
- Orange- Jordan Telecommunication Company
- PanMed Energy
- Price Water House coopers (PWC)
- Saed Karajah & Partners LLP
- Sager Drones
- Samra power Supply Co.
- Sanad Law Group in Association with Eversheds
- Satec Solar
- Second Energy
- Sham Maan Power Generation
- Shamsuna Power Co.
- Spectrum International Investment
- T.Gargour Holding
- Tamkeen Leasing Co.
- Total Jordan
- TUV Austria
- Umniyah Telecom
- United Pioneering Business
- Wathba Investment
- Wiosun for Renewable Energy
- Yellow Door Energy Limited - Jordan
- Zain Telecom - Jordan Mobile Telephone Services
- Zhejiang Jinko Solar
About Jordan’s Clean Energy Sector

Jordan’s clean energy sector is witnessing “great momentum” and has attracted world-renowned companies with decades of experience to invest in projects in the Kingdom. Jordan ranks second in the region for creating a favorable environment for renewable energy and energy efficiency investments according to AFEX report, surpassed only by Morocco in renewables and a thriving Tunisia in energy efficiency. The main accomplishments of Jordan include the implementation of a subsidy removal plan, eliminating all subsidies for oil products; the adoption of the country’s first National Energy Efficiency Action Plan (NEEAP); the tendering and implementation of large scale Renewable Energy projects, the implementation of net-metering and wheeling schemes, and the formulation of minimum energy performance standards for household appliances.

There are four tracks for renewable projects in Jordan. The first one is the Direct Proposal Schemes carried out under rounds of competitive bidding through MEMR. The second is the Competitive Bidding Process, the third is the EPC Turn-Key projects, and the last is Small-Scale Renewable Energy Schemes (net metering and wheeling).

Jordan is placing heavy emphasis on solar and wind power projects. About 2,400 Megawatts of wind and solar projects are expected to be developed in Jordan until 2021; 732MW Megawatts are currently operational already weighting 7% of the overall energy consumed in the country. In addition to the project development opportunities announced by the Government of Jordan for centralized power generation, a huge window of opportunity to generate distributed electricity for individual, commercial or industrial use exists under the net-metering and/or the wheeling schemes. Jordan leads the MENA region in net-metering and wheeling.

Jordan is progressing remarkably on sector enablers such as clean energy financing, training and certification as well as licensing and accreditation of service providers. The global, regional and local energy sector development carries tremendous opportunities for the private sector to innovate and grow. Understanding the diverse energy demand and consumption within various economic sectors opens the door for new and customized solutions. Eco-cities, energy storage, smart grids, green infrastructure, smart transportation, hybrid systems and green buildings are only a few of many untapped opportunities.

On another end, understanding the impact of energy on other significant sectors such as water, industry, tourism, agriculture, as well as its contribution to CO2 reduction holds huge potential for energy efficiency and renewable energy applications and for attracting additional financing for energy projects. Thus, companies would need to expand their research and development activities to come up with innovative and localized solutions for the increasing energy demand.

It would not be possible for the country to achieve its clean energy objectives, and thus more energy security, without developing a cluster of energy services companies that has the credibility and the ability to implement clean energy projects. Achieving this would require a market-based voluntary accreditation system that would boost the sector’s capabilities and quality of services. EDAMA Association is proud to be a founding member of the Coalition of Energy Service Associations (CESA), which is leading the development and implementation of the first private-sector driven voluntary accreditation framework that enables energy service providers to improve their performance and increase their competitiveness in a fast-growing market.

For more on Jordan’s clean technology sector development efforts, request a copy of EDAMA’s first Clean Tech sector report. Please contact EDAMA on info@edama.jo

Arab Renewable Energy Commission - AREC

AREC is the commission representing all stakeholders involved in Renewable Energy in the Arab World. It operates under the council of the Arab Economic Unit of the League of Arab States, as a non-profit organization founded in 2011 in Amman (Jordan) and recognized by Royal Decree. AREC is chaired by His Excellency Mr. Aziz Rabah, Minister of Environment and Sustainable Development of Morocco and it consists of 16 Arab countries as founders.

Arab countries are facing many challenges in adopting Renewable Energy (RE) and Energy Efficiency (EE) in their energy policies. Low awareness from the consumer side is also impeding civil society drivers to move faster to greener sources. Therefore, despite the energy map target of 10%-20% of the total energy demand from RE by 2020, the potential and benefits of RE are still not well recognized.

The Arab Renewable Energy Commission (AREC) intends to work towards facilitating and promoting the culture of RE and EE to support the development and use of RE in all aspects of life.

AREC mission:
To encourage the use of clean renewable energy in the Arab World by disseminating awareness and motivating investments due to its positive revenue on all Arab countries. AREC aims to promote meaningful ways for expanding the use of alternative energy sources rather than the use of non-renewable, and therefore it encourages activities and investments to develop the use of alternative sources, including conferences in all Arab areas aiming at bringing together the largest number of Arab States and their companies.

AREC activities:
1. Advise on renewable energy and various projects.
2. Training programs in the areas of green energy.
3. Establishment of a network with foreign companies and institutes working in the field of renewable energy.
4. The establishment of conferences, symposia and workshops in different regions.
5. Multilateral assistance in attracting investment to the region, in order to develop and expand the use of renewable energy.

AREC recurrent activities:
• Arab Renewable Energy Week.
• Arab Renewable Energy Forum.
• Green Generation and Green School Awards.

For more information, contact Eng. Mohammed Al Taani, General Secretary, at email address mnqtaani@gmail.com or phone number +962-7-77418782.
ReNewable Energy Establishments Society (REES)

REES was established in 2014 within the purview of the Ministry of Environment to provide an umbrella for renewable energy services and energy management companies, with the purpose of defending their interests and improving the renewable energy and energy management market. Membership of REES has reached more than 45 companies as of September 2021.

REES works closely with governmental ministries and regulators, as well as electricity distribution companies to better serve consumers and service providers. REES actively participated in establishing the Coalition of Energy Services Associations “CESA” and is one of its three member associations. REES conducts regular meetings with top officials of the Ministry of Energy and Mineral Resources (MEMR) and Energy and Minerals Regulatory Commission (EMRC), including meetings with the Minister of MEMR and the head of EMRC. These meetings and other collaborative efforts with different government agencies are to settle the sector and to resolve any standing issues.

On February 21, 2019, REES held the “Renewable Energy in Jordan: Present and Future” forum. The forum was under the patronage of her Excellency the Minister of MEMR. It addressed the two main issues of energy burden on the national economy and the future of energy services companies in the ever-evolving energy market. The forum issued a list of recommendations, aiming at improving the state of renewable energy and energy efficiency services in the Kingdom. These recommendations were discussed at the highest ranks of the government and by chambers of industry and commerce. REES forum for the year 2020 was planned on March 26 but was put on hold because of the COVID-19 pandemic. With the full opening of the private sectors and meeting halls by mid-2021, REES is now arranging for its next forum in early 2022.

In 2020, REES started the establishment of an “Association of Energy Engineers (AEE)” energy chapter. The new AEE energy chapter held several preparatory workshops in the field of renewable energy and energy efficiency since the beginning of the year. In June 2021, AEE granted REES a chapter status. The plan for the chapter is to offer an assortment of popular training courses usually conducted by AEE such as CEM®, CRM®, REP®, CEA®, EEP®, and others.

For more information, you can contact REES at 079-9417727 or at CEO@REES-JO.com

REES Members:
- Abou El-Enein Energy and Engineering Services
- Al Masar Engineering For HVAC Solutions
- Al-Hussam For Renewable Energy Solutions
- Al-Manhal Renewable Energy
- Al-Masar Switchgear Company
- Al-Maysara Electrical Industries Co. MASEICO
- Altayseer for Trade and Industrial Inv. Ltd.
- Arab Technical Group (ATG).
- Arab Towers Contracting Company (ATCCO).
- Arslan Engineering Systems (AES),
- Attaqa Ashameleh for Electric Equipment Co.
- Bayt alebdab for renewable energy
- Bililih Electrical Materials Co.
- BS Solar
- Eco Engineering and Energy Solutions (ECOSOL).
- Edama Solar.
- Electric Technology Experts Co.
- ETA-max Energy & Environmental Solutions
- Gazania Solar Systems.
- Generators for Solar Energy
- Glory for logistics Services and Energy
- Ideal Solar Energy Co. Ltd.
- IDHAL for Solar Energy Solutions Est.
- Izzat Marji Group (IMG).
- Jet Contracting.
- JUSODR for Renewable Energy
- Kingdom SUN for Solar Energy
- Madhoun Electronics and Trade.
- Mazen Dajani & Co.
- Meroun Green Solutions Co.
- Muhammad Tayseer Al-Qudah & Partners Co
- Mustakbal clean tech.
- Pivot Jordan
- Shamsjo for alternative energy solutions
- SIERA for Renewable Energy Services
- Sima Industries for Renewable Energy W.L.L.
- SMA
- Solar Suppliers Co.
- Spitak Trading Company.
- Technical Methods for Energy Systems
- The Contractor for Energy
- Total for Contracting & Electromechanical
- Tracking Solar Systems
- Wiosun for Renewable Energy Ltd.

Associations & Organizations

The Jordan Environmental Union

The Jordan Environmental Union, or JEU, is a coalition of 10 of Jordan’s largest and longest running environmental NGOs who specialize in issues ranging from managing Jordan’s nature reservations, promoting food sovereignty and alternative transportation methods in Jordan’s municipalities, towns and villages to combating desertification.

JEU Mission and Vision:
Environmental citizenship is a key tool to achieve societal development good governance. JEU’s vision is to become a leading advocate for environmental sustainability that can be a conduit for economic and social development, as well as stakeholder engagement and transparent dialogue.

Its mission is to create resourceful coordination and cooperation mechanisms among member NGOs to achieve effective engagement and participation in solving national environmental challenges and issues.

JEU members are building their current capabilities in science-based research of environmental issues facing Jordan. In order to promote environmental sustainability policies, JEU believes that science backed research is key to fostering meaningful dialogue and change.

JEU Values and Goals:
JEU believes in advocating for change and building alliances and networks of understanding between decision-making bodies, regulatory institutions, fellow NGOs and public entities. Its goals include:
- Creating new environmental governance mechanisms and improving existing environmental governance processes in a manner that ensures the institutionalization of stakeholder involvement in environmental decision-making processes.
- Developing a legal mechanism that permits third sector organizations to have a public input on proposed laws, regulations, and rules pertaining to environmental matters, as well as mandating government agencies to respond publicly to all input from all sources.
- Acting to protect the environmental rights of all people in Jordan, including the protection of land, water, and air and safeguarding the ecosystems and their life support services.
- Establishing the legitimacy and credibility of environmental NGOs.

JEU Strategic Direction:
In order to achieve its goals and the overarching mission of effective stakeholder engagement and environmental citizenship, JEU focuses on the following strategies:
- Building networks and alliances with NGOs to build capabilities, and formulate environmental development strategies that can be used for policy formulation.
- Forging partnerships with national and international public and private entities to promote local development projects.
- Legislation, regulation, and litigation measures backed by scientific research.


Board Members (2019-2022): Omar Al Shoshan (MIRRA), Omar Tahboub (JGBC), Raouf Dabbas (JOFOE), Ismail Attya (ECESS), Mohammad Al Awaidah (DECS).
Jordan Green Building Council (Jordan GBC)

While buildings and human activities provide countless benefits to society, they also have significant environmental and health impacts; consuming various natural resources and producing undesirable carbon emissions.

Did you know that the building and construction sector alone is responsible for 39% of all carbon emissions worldwide? With the Jordanian population growing at an increasing pace over the past years, according to the World Population Review statistics the population is expected to peak at 14.15 million people in 2080, the demand for buildings is getting bigger, calling for an immediate and urgent action towards implementing the green practices in buildings and construction.

Amidst the increase of urban areas, negative impacts must be reduced or eliminated by the building’s design, construction or operation, and to create positive impacts on the climate, communities’ resilience in addition to preserving precious natural resources and improving people’s quality of life. To address such pressing issues, the Jordan Green Building Council (Jordan GBC), a non-profit and non-governmental organization and member-based association, took on its shoulders the responsibility of advocating for the adoption of green building practices and green built environment actions. With the asset of being part of a global network of more than 70 Green Building Councils, under the umbrella of the World GBC, the councils aim to transform the built environment and its relevant markets towards sustainable development to contribute to lowering carbon emissions by 2030, and its elimination by 2050. In addition to the preservation of natural resources by creating a circular economic model that benefits health and wellbeing, and fosters sustainable economic growth and development.

The Jordan GBC aims to drive such change by providing internationally certified training programs, and generating sustainable project and business opportunities for its members to be a part of. Furthermore, the Jordan GBC provides a powerful, collaborative platform of active members and partners on a local, regional and international level; who share interests and encounter similar challenges and opportunities in the green buildings sector. This platform enables networking opportunities, maximizes business, exchanges knowledge, and generates new ideas to achieve results faster and more effectively, allowing members to be at the forefront of a global network of more than 70 Green Building Councils, under the umbrella of the World GBC, the councils aim to transform the built environment and its relevant markets towards sustainable development to contribute to lowering carbon emissions by 2030, and its elimination by 2050. In addition to the preservation of natural resources by creating a circular economic model that benefits health and wellbeing, and fosters sustainable economic growth and development.

Vision: A Healthy, Sustainable, and Resource-Efficient built environment that is accessible and affordable to all.

Mission: Driving the built environment and its relevant sectors towards de-carbonization and supporting climate resilience.

Core Value: The right to live, work and study in healthy and sustainable buildings with a low carbon impact through positive public/private and civil society cooperation. Jordan GBC strives for innovation, partnerships, integrity, and transparency.

How Jordan GBC makes a difference:
- Technical: Jordan GBC has a pool of world class experts, which leverages extensive in-depth technical knowledge of the sector.
- Continuity in Engagement: Jordan GBC has a very well-established network of contacts, and is a trusted institution for stakeholders across Jordan.
- Creating collaboration: Jordan GBC is a well-recognized organization and known for its effective role in joint-projects and collaboration with different local, regional and international entities.
- Cutting-edge capabilities: Through its pillars, Jordan GBC has managed to develop, implement and lead different activities, studies and projects related to the green built environment and its aspects, varying from technical projects, policy projects, to community-engagement projects, contributing to environmental, economic, and social goals.

For more information, contact Jordan GBC at Tel: +962-79-7210054 or info@jordangbc.org, www.jordangbc.org

Corporate Members

- Platinum Members:
  - Aramex International
  - BDO Jordan
  - Dar Al-Handasah Consultants
  - Majid Al Futtaim Holding
  - The Housing Bank for Trade and Finance
  - Qatrana Cement Company
  - Lafarge Concrete Jordan
- Gold Members:
  - Arab Technical Group Co.
  - Amaryllis Engineering Consultants
  - Laswi and Zalloum Law firm
- Silver Members:
  - Adaa Sustainable Development Consultants
  - Arab Technical Construction Co.
  - Creator for Certifications Services (TÜV)
  - Eco Engineering and Energy Solutions (ECO SOL)
  - Eyal Industrial Ltd.
  - Ata Rabab
  - Hanania Solar Systems
  - Inside Out Design
  - Izzat Marji Group
  - Jordan Land Magazine
  - Jordan Sipes Paints Co.
  - Jawahart Al Durr Al Manthoor
  - MINERVA for Engineering Studies and Consulting Ltd
  - Moka’ab Construction Company
  - Mostaqbal Engineering and Environmental Consultants
  - NeriTech Control Systems
  - Ruq Al Handasa
  - Sadda Business Solutions
  - SAMI M.A.HJAB CONT. EST.
  - Seyam Architects
  - Sterling BIM
  - Petra Engineering Industrial Co.
  - Tesla Import Export /Momentum
  - The Contractor for Energy
  - Wajh Contracting Company
- Universities:
  - Applied Science Private University

Universities:
The Friedrich-Ebert-Stiftung (FES) Climate and Energy Project in Jordan brings together government representatives with civil society organizations and provides policy recommendations based on research. Battling against climate change and promoting a socially just energy transition are at the core of this project. With its partner organizations and environmental activists, FES promotes the concept of climate justice. FES trains its partners – civil society organisations – in climate diplomacy and takes them to climate summits as well as world climate negotiations. FES supports research and policy advising in the energy and climate change sector and works on local solutions for adaptation and energy efficiency on the ground. FES is striving to enable the attainment of climate justice, by preparation, inclusion, and cooperation in the region.

In Jordan, FES advocates for an energy transition into renewable energy, challenging the fossil fuel driven economies of many of the MENA countries and encouraging the exploration of the enormous economic potential of solar and wind energy with a daily average of nine hours of sun. Not only businesses and investors should benefit from the energy transition, but also citizens, households and municipalities. Thus, FES searches for solutions for a just transition in the energy sector, ensuring both the protection of the planet and the people.

Examples of partners in Jordan are the Jordan Green Building Council, EDAMA, JREEEF, CSBE, the Royal Scientific Society (RSS) and the Ministries of Energy and Environment, among others. In cooperation with its partners, FES produces policy papers and organises discussion events to inform and give recommendations to decision makers on a just energy transition, climate justice and social and sustainable cities.

Friedrich-Ebert-Stiftung (FES) is the oldest political foundation in Germany with a rich tradition in social democracy dating back to its founding in 1925. The FES office in Amman was established in 1986, while the project on Energy and Climate in Jordan was introduced in 2013. FES shares the core values of social democracy – freedom, justice and solidarity. As a non-profit institution, FES organizes its work autonomously and independently.

The Royal Scientific Society (RSS) is an independent non-governmental, not-for-profit multidisciplinary science institution established by Royal Charter. Founded in 1970 as a national organization to actively advise and support the development of Jordan with sound technical and policy advice, and consultations.

Founded from the great heart and generous spirit of His Majesty the Late King Hussein and HRH Prince Hassan, RSS aims to be the knowledge leader for science and technology, locally and regionally. Recognised internationally for his dedication to humanitarian causes, HRH Prince Hassan is currently Chairman of the organisation and HRH Princess Sumaya bint El Hassan serves as the President. HRH Princess Sumaya is recognised for her work promoting scientific endeavour and development at a local and international level.

2020 to 2021 marks the 50th anniversary of the institution and provides an opportunity for RSS to build upon its heritage and experience and to plan for the next 50 years and beyond. The organisation will work to continue to build resilience and to power progress in Jordan through advancements in science and technology.

As a national beacon for science, the RSS campus headquarters are located in Amman but the laboratories, collaborative initiatives and much of the testing and research activity stretches far beyond the capital city; with activities in every governorate of Jordan. The RSS campus has an area of 340,000 sqm and is supported by more than 500 scientists, researchers, and supporting staff and is recognised as a local, regional and international research hub.

The RSS undertakes specialised and accredited testing, research work with local industries and universities, provides technical advice for the private and public sectors, and works in partnership with regional and international organisations. Amongst the wide-ranging scientific work carried out at the RSS is helping to improve the environment of the Earth and the people of the world, working to build a sustainable and just energy future. The organisation promotes and invests in science for humanity, and support for Jordan and its people is at the core of its purpose.

Since its inception as a national and independent organisation, the prime objectives of the RSS have been to protect human health and safety, to safeguard the environment, and to contribute to sustainable economic development.

The RSS operates through five key Pillars that support its commitment to development for Jordan and the region. The pillars include Research for Development; Technologies for Sustainable Development; Office of the President: Partnerships for Development; Knowledge for Development; and Operations and Organisational Development. The RSS understands that real and sustainable development comes about through multi and interdisciplinary research, consultation and knowledge creation. Each one of the RSS Pillars aids development through its unique functions and through its collaboration with other parts of the RSS organization.

The RSS Technologies for Sustainable Development pillar brings extensive experience in energy, water and environment through two important centres – The National Energy Research Centre and The Water and Environment Centre.
About WADI for Sustainable Ecosystems Development

WADI for Sustainable Ecosystems Development is a national NGO established in 2018, under the umbrella of the Jordan Ministry of Environment. WADI is working to promote best practices for aquifer recharge, healthy ecosystems and the production of healthy, high-quality native plants while actively engaging the local communities to ensure its activities’ long-term sustainability.

The vision of WADI is “healthy watersheds managed by resilient communities”. In order to achieve this vision, WADI has set its mission to “restore forests and rangelands for climate resilience, community livelihoods, and long-term water security”. WADI is proud to have Her Highness Sharifa Zein bint Nasser as the Honorary Chairperson. WADI is overseen by seven accomplished board members who are passionate about WADI’s vision and continue to provide advice and supervisory support to WADI.

90% of Jordan’s land is arid and threatened by desertification, Jordan is the world’s second most water poor country, and Jordan consumes its groundwater twice as quickly as it can be recharged. The core competencies are forests and rangeland restoration, set up of nurseries to produce high-quality seedlings used in rangelands and forests restoration, training, local community engagement and awareness, and gender and youth integration in activities.

The achievements of WADI since its inception include 38 long-term job opportunities created; 1,890 seasonal jobs created; six partner nurseries with total production of 571,800 seedlings; 75% survival rate across 2 reference sites; 1,160 school children and community members participated in awareness sessions; and 14,300 rangeland hectares restored with native seedlings across Jordan.

WADI has strong partnerships. Different partners include the donors USFS/IP and U.S. State Department. Mitsubishi Corporation, Critical Ecosystems Partnership Fund (CEPF), World Food Program (WFP). The partners include the Ministry of Agriculture (MoA), Greater Amman Municipality (GAM), The Hashemite Fund for the Development of Jordan Badia (HF), International Center for Agricultural Research in the Dry Areas (ICARDA), and Royal Botanic Garden (RBG).

WADI works in the Hashemite Kingdom of Jordan in the six governorates at Majjdiyya in Amman, Azraq in Zarqa, Sabha in Mafraq, Tal Al Rumman in Balqa, Nijdhe and Nahleh in Jerash, Wadi Rum in Aqaba Special Economic Zone Authority.
Al Faris Renewable Energy and Energy Solutions

Facts
Establishment Year: 2019
Number of Staff: 54

Services
• Design and implementation
• Supply, inspection and operation of renewable energy systems
• Economic feasibility studies
• Obtaining permits and approvals for projects
• Operation and maintenance of photovoltaic plants

The company's vision is to aim to be a leading company in the field of energy in Jordan and the Middle East and to reach the highest level of energy companies, by maintaining the good position it has acquired and seeking success, progress and advancement by adhering to quality and safety standards.

Services offered by Al Faris Renewable Energy and Energy Solutions include design and implementation of projects under engineering supervision; supply, inspection and operation of renewable energy systems; economic feasibility studies; obtaining permits and approvals for projects; operation and maintenance of photovoltaic plants.

Al Faris Renewable Energy and Energy Solutions company was established in 2019, as a company specializing in the field of renewable energy systems and in the fields of energy rationalization and consumption, in addition to providing energy-saving device products for integrated solutions in the field of energy.

Al-Manhal Renewable Energy Company (MRE)

Facts
Establishment Year: 2014
Number of Staff: 30

Services
• Renewable Energy Systems design & Implementation
• UPS Systems design and implementation
• Power Generator Sets design and implementation
• Data Centre design, implementation and operation
• Energy Audit, Energy Efficiency and Energy Management
• Energy Monitoring
• O&M Services

Projects
Armed Forces, Governmental, Banks, Telecommunications, Hospitals, Private sectors.

Al-Manhal Renewable Energy Company (MRE) has been a division of Al-Manhal Data Protection and Support (MDPS-1990) with over 31 years of experience. MRE became an independent company in 2014, MRE is an engineering company specialized in power protection systems like UPS & Generators, Renewable Energy Systems like Solar, Wind and Biogas systems, and is equipped with defined capabilities for Energy Audit and Energy Consultancy.

MRE is fully equipped to meet all customer requirements and provides integrated services that will facilitate a qualitative leap into the field of energy. The company is privileged to have an exceptional staff who are experts in their fields. MRE has adopted the mission of providing the utmost protection of data and equipment from critical energy problems for both organizations and for individuals. The task is to offer the best-quality solutions, services and products to all.

MRE is proud of being a leading Jordanian company that provides energy solutions, specializing in the design, supply and installation of electrical protection systems (e.g. UPS and Generators), power-outage blocker devices and renewable energy systems. MRE’s market primarily consists of power protection consumers. It is made up of people who are not only looking for communication and network equipment protection, but also crucial information about power supply interruption.

Recently, MRE has endeavored to provide renewable energy systems to customers who are looking for eco-friendly solutions. The company strives to resolve the most critical issue facing all power consumers which is the electrical bill. This means bringing the electrical bill to zero by providing a tailored renewable energy generator that suits each and every power consumer needs.
Alryadeh Est. for Electricity & Renewable Energy Services

**Facts**
- Establishment Year: 2018
- Number of Staff: 20

**Services**
- Photovoltaics installation and implementation
- LED lighting
- PV structure supplier
- PV accessories supplier
- Electricity materials supplier

**Projects**
- TKM furniture - 100 kWp
- Al-Redwan furniture - 85 kWp
- Habiba hypermarket - 30 kWp
- Habiba stores - 25 kWp
- Mosques
- Residential projects

Alryadeh’s partners with leading and distinguished renewable energy companies to implement projects across the Kingdom. Alryadeh’s role in such projects includes carrying out electrical and mechanical work.

Projects were implemented with companies through electrical or mechanical works, or both.

Iron steel are designed through engineering programs, in accordance with the international code and according to wind speeds; with installations performed by technicians and supervision engineers.

What distinguishes Alryadeh is the wide range of its offered services. The company supplies its partners with all the materials they need for a safe and successful renewable energy installation, such as electricity cables, electrical circuit breakers, circuit breaker panels, and PVC, all at a competitive price.

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Amman, Jordan

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ALTAYSEER Co.

**Facts**
- Establishment Year: 1978
- Number of Staff: 100+

**Services**
- Renewable Energy (Turnkey Solutions)
- Mechanical Engineering and Plumbing Solutions
- Solar Thermal Systems, Gas Boilers and Underfloor Heating (Engineering Design, Supply and O&M)
- Kitchen, Sanitary Ware and Bathroom Accessories

**Projects**
- Abdali Mall (Wheeling)
- Abdali Mall (Net Metering)
- Mooneh Trading Co. (Redesign & Maintenance)
- Future For Plastic Industries (Net Metering)
- Khalil Al-Rahman Society (Net Metering)
- Aram Heavy Equipment (Net Metering)
- Fahs Eltin Roastery (Wheeling)
- Eshraq Educational Schools (Net Metering)
- Al-Halabat School (Net Metering)
- Al-Faisaliah Health Center (Net Metering)
- Sami Al-Shamaleh Mosque (Net Metering)

ALTAYSEER Co. was established in 1978 as a leader in the Mechanical and Plumbing manufacturing sector. Since then, it has been specialized in manufacturing steel panel radiators and plastic pipes used for sanitary plumbing and heating system networks.

ALTAYSEER Co. is also the sole agent and distributor of several well-known international and European brands in the fields of Sanitary, Gas Boilers, Heating Systems and Solar Thermal.

Along with the mechanical engineering and manufacturing sector, ALTAYSEER Co. initiated a Renewable Energy department in 2016 that is specialized in the Engineering, Procurement, Construction (EPC) and Operation and Maintenance (O&M) of photovoltaic projects for residential, commercial, industrial, health and hotels sectors.

Since the establishment of its renewable energy department, ALTAYSEER Co. has proven itself as one of Jordan’s most reliable solar companies, with focus on quality, integrity, safety, and deep staff expertise. The renewable energy team consists of engineers, electricians, and technicians that are certified by the American Association of Energy Engineers (AEE) and by the Jordanian Engineering Association (JEA).

Up until now, ALTAYSEER Co. has executed more than 5 megawatts of solar projects including systems with sun tracking capabilities (Single-Axis Trackers).

In addition to providing renewable turnkey engineering solutions, ALTAYSEER Co. is the authorized distributor of SMA Inverters (On-grid and Off-grid), Trina Solar and TopCable.

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Developers & EPC Contractors

Key Staff

Mo’men Drou
Projects Manager

Developers & EPC Contractors

Key Staff

Naser Alkaraki
General Manager

Majd Alkaraki
Technical Manager & Head of PV Department

Qusai Alkaraki
Sales Manager

Partners

Selected Projects

Partners

Selected Projects
ASTRACO was founded in 1986 as an Electro-Mechanical and Instrumentation works contractor for the Jordan market and expanded in the MENA region. The scope of activities cover Industrial, Power Generation, Infrastructure, Specialized Building Services and Renewable Energy projects. Its extensive growth and development in many sectors has led to a high level of experience, competence and efficiency resulting in an impressive number of successes.

ASTRACO employs more than thirty engineers of various specialties and maintains a core of more than four hundred highly qualified supervisors and technicians.

The company has grown to become one of the foremost engineering and contracting firms in Jordan. ASTRACO yearly turnover is around USD 20 million.

One of the unique features of ASTRACO is its ERP projects planning and scheduling methodology which is fully integrated with the company resources management and financial systems.

ASTRACO maintains a strong Quality Control department and assigns a QA/QC manager for each project. ASTRACO has ISO 9001 certification and exercises strict quality control procedures governed by continuous internal audits.

The company recognizes that high standards of Health, Safety and Welfare are an integral element of efficient business management objectives and contribute to the operational efficiency and profitability of the company. ASTRACO’s management considers HSE and profitability of the company. ASTRACO has maintained excellent partnerships with international “EPC” contractors including Technip–France, Doosan Heavy Industries and Construction Co. (South Korea), Hanwha Engineering and Construction Co. (South Korea), SNC Lavalin (Canada), JBP Overseas Ltd., Lotte Engineering and Construction Company, OHL Industrial–Spain and METKA (Greece). ASTRACO has a very high standing with local and international developers and investors including SunEdison (USA), Nuqul Group–Jordan, AES (USA), ZARA Holding (Jordan), Central Electricity Generating Co. (Jordan), Samra Electric Power Generation Company, First Solar–USA, ALCAZAR Energy (UAE), Yellow Door Energy.

ASTRACO has developed a fabrication workshop covering an area of (1,000 m²) and an open yard (8,000 m²) equipped with necessary equipment for fabrication of tanks, stacks, silos, piping spools, platforms and supports...etc.

ASTRACO maintains a quality system at its workshop to ensure that the items fabricated meet clients’ requirements. A dedicated Quality Engineer and Inspectors are available during all stages of fabrication to fulfill these requirements.

ASTRACO has associate and sister companies which are Twilight Light Metal Industries and ASTGULF (KSA). Twilight Light Metal Industries is wholly owned by ASTRACO and provides valuable support for the company projects. The company specializes in the manufacturing and fabrication of engineered products.

ASTGULF was established in Saudi Arabia as an expansion to ASTRACO’s portfolio in response to the recent development in renewable energy technology and the international change in legislation. A collaboration has been formed between ASTRACO and strategic partners establishing ASTGULF as a promising business venture to enrich their achievements by contributing to the national vision of Saudi Arabia 2030 and in the neighboring countries.
Be Solar for Renewable Energy Solutions

Be Solar for Renewable Energy Solutions was established in Amman, Jordan in 2013, by a group of entrepreneurs with combined experience covering solar energy project development, marketing and branding, project management supply chain and logistics, and after-sales services.

Be Solar aims to provide clients across Jordan with customized PV solutions to meet each of their energy needs at the specific location’s topography. The turnkey solutions offered by Be Solar present a one-stop-shop for its clients, with the main focus on the system yield rather than size or profit.

To reach its objectives, Be Solar’s key success factors are providing high quality systems designed specifically for the clients’ need; development of a continuous monitoring strategy to assure the performance with all clients; and establishment of strong supplier partnerships to mutually benefit from the experience.

Be Solar is one of Jordan’s thriving renewable energy solution providers, offering years of accumulated experience with its European solar manufacturing partners in solar energy development, project management and consultancy in energy efficiency solutions.

The Be Solar core value is to deliver to the community economical solutions to optimize their energy spending through highly efficient photovoltaic solutions. Be Solar stands for glo-cal principles, global in its products, designs, and services, and local in tailoring those to Jordanian needs. By powerfully combining international standard specializations and designs, Be Solar turns solar projects into reality.

Be Solar prides itself in that it does not have one solution fixed for all projects. Its designs, which are done in coordination with international partners, are tailor made for each project depending on its size, needs, and location, to name a few.

Be Solar designs focus on yield whereby it optimizes the designs to guarantee that clients are investing in a solution that would be long term beneficial for their usage, taking into consideration site location, shading, space, and connectivity, among all other elements. With its unique expertise, Be Solar has distinguished itself through its offering of Building-Integrated PV (BIPV) solutions, hybrid solar-diesel systems and PV solutions with energy storages serving all sectors in the field.

Be Solar is committed to deliver the highest quality projects by building on its existing partnerships with some of the foremost international players, coupled with its after sales support, maintenance, and continuous monitoring, in order to help its clients achieve the best outcomes of the installed systems.

Be Solar has teamed up with the European leading PV suppliers as the authorized agent for each of Avancis, SolarLog, and Multi-Contact, and has successfully delivered many state of the art projects with them, which were featured in their global newsletters.

Selected Projects

- Islamic Education College
- Jubeiha, Middle East University
- Tiyyet Um AlI, AFICO offices
- Plaza Mall, Shnaneh Complex
- JUHOD Tender-Phase I, Al Fayha Mosque-Amman
- Al Fayha Mosque-Madaba
- Grand Husseini Mosque- Amman
- Al Fayha Mosque-Madaba
- Grand Husseini Mosque-Amman
- Kayali Complex, Al Bayan School
- Al Bujr Complex, Basma Complex, Al Nadi Gas Station
- Al Yarmouk Gas Station, Al Muhajereen Gas Station

Key Staff

Eng. Nisreen Buqaei
General Manager

Eng. Hamzeh Buqaei
Technical Consultant

Eng. Omar Buqaei
Project Manager
BS Solar

**Facts**
- Establishment Year: 2018
- Number of Staff: 12

**Services**
- Supplying, Installation
- Operation & maintenance
- Off-grid system
- Hybrid system
- Pumping system
- Monitoring system

BS Solar is a leading company in the off-grid field in areas that are not served by the electricity companies; such as AlBadia regions, Wadi Rum and Jerash where it is delivering electricity to by using batteries and PV panels.

The company’s mission is to provide electricity to consumers with high quality brands and special services of installation and operation. BS Solar ensures the supply of products from the top manufacturers of PV modules and inverters in the world including Longi Solar, Jinko, ABB, Fronius and SMA.

Best Suggestion for renewable technologies takes extra steps to ensure that every job is completed to a higher standard.

**Key Staff**
- Asem Altaweel
  General Manager
- Ebtehal Abu Hassan
  Sales Director / Design Engineer
- Ahmad Hammad
  Electrical Project Engineer

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- asem@bs-solar.com
- www.bs-solar.com

Selected Projects
- Off grid – Maryam Farm
- Off grid – Aram park
- Alshattel – Commercial Mail

Control Solar Est

**Facts**
- Establishment Year: 2012
- Total Projects Capacity: 30 MWp

**Services**
- PV Plants Supplying, Installation and Designing
- PV Plants Testing & Commissioning
- PV Plants Operation, Maintenance and Monitoring
- PV Plants Financing Solutions

Control Solar Est is a turnkey solar provider offering renewable energy solutions for solar photovoltaic plants.

Control Solar provides feasibility, engineering, permitting, construction, commissioning and O&M services for industrial, commercial, and government solutions, catering directly to the needs of the clients and the characteristics of the facilities.

With experience in a variety of deal structures, Control Solar helps clients understand each available renewable energy option. Clients understand each available renewable energy option and are armed with the information necessary to make the right choice.

Control Solar offers Project Development, Engineering, Procurement, Construction, Operations, Maintenance and Financing Solutions for any size project - from utility scale solar farms to small commercial retailers.

The mission of Control Solar is to make a difference by developing cost efficient alternatives to traditional energy sources, without long-term dependence on government subsidies.

The end-to-end approach by Control Solar makes it highly efficient allowing the company to be the most competitive solar developer in the industry.

Control Solar provides complete solar energy systems and installations for Utility, Government and Commercial purposes.

**Key Staff**
- Mohammad Odeh
  General Manager
- Mohammad Alhayek
  Project Manager
- Anas Jaradeh
  Project Engineer

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Selected Projects
- Al-Rashid Hospital 1.1 Mwp
- Ibn Rushed Academy 250 Kwp
- NARC - 500 Kwp

Partners
- REC
- Dena
- His
- Siemens
- ABB

Certifications
- Grade (A) EMRC License in Supply, Installation, Operation, Maintenance & Inspection of Renewable Energy Systems.
C3E is a limited liability company specialized in providing economic energy and engineering solutions to residential, commercial, governmental and industrial sectors. It was founded in 1991 as an electromechanical company.

Today, C3E consists of highly experienced individuals with diverse engineering backgrounds. This has modeled the company into a unique entity.

The team at C3E are the experts in providing solutions for managing your energy efficiently and providing solutions to save energy, by using the latest technologies in energy saving equipment and renewable energy systems.

The solutions provided will not only rationalize the energy utilization, but will also cut down on the consumption of electrical power.

These products and technologies, available under one umbrella with C3E, contribute towards environmental preservation by cutting down on energy, electricity consumption, and resulting in a better and cleaner environment.

C3E activities include providing LED intelligent lighting systems and fixtures with latest control application, LED lighting systems with energy saving lighting solutions, occupancy and daylight sensors.

C3E provides under the energy solution umbrella the variable frequency devices, voltage optimizer, solar thermal systems, HVAC and pumps system energy savings solutions, insulation, no cost / low-cost solutions and other contributing solutions which are available subject to site conditions.

In renewable energy, C3E has executed a total of more than 12-MWp PV Solar projects.

C3E also provides i-WIND which is an integrated intelligent solar and wind combination with battery operated as one renewable energy system. The i-WIND vertical wind turbines and mixed (solar and wind) storage system family is manufactured in the EU. Wind technology will also be available soon to public institutions, private properties and industrial premises, which will become the future in Jordan, especially for locations with limited space. It will also provide the generation and voltage of 24/7.

C3E executed many governmental, private and rural PV Solar projects (house holder application) which enhanced the relation between the residential sector, private sector and the governmental sector throughout Jordan’s’ governorates in Amman, Madaba, Jerash, Ajloun and Irbid.

A series of services are provided by C3E to evaluate, develop and manage energy supply in several forms. These services have been fulfilled to several entities and sectors in Jordan and MENA. This includes the analysis of needed energy, technical and economic feasibility of interventions linked to energy saving and increasing operational efficiency. The definition of the financial structure of the project, the realization of intervention for the energetic realization, the management of the service supply have also been addressed in such procedures.

C3E will always be your energy solutions partner.
ETA-max Energy & Environmental Solutions was established in 2011 with a vision to transform the society towards a more efficient, sustainable, and environment-friendly life style.

ETA-max is a regional leader in the development of turn-key solar photovoltaic systems which provide safe, reliable, maintenance-free and environment-friendly sources of power with a typical life cycle of 25 years.

Since establishment, ETA-max has worked hard to earn the trust of the local market and has been able to provide its services to an impressive and diverse list of clients.

With more than 50 MW of installed capacity and multiple projects under construction, ETA-max is among the top-tier renewable energy EPCs in Jordan.

Recently, ETA-max has earned the ISO 9001:2015 which proves the high level of management and project handling operations at the company.

Today, after more than ten interesting years of hard work and dedication, ETA-max is in the right position to offer its hard-gained experience to contribute to the development of emerging solar markets in the region.

In addition to its core business model as an EPC for solar PV systems, ETA-max has a well-established reputation in providing energy auditing and energy management solutions; and in designing and conducting tailored capacity building programs in energy management and renewable energy.

The company has a successful track record in this regard with clients in the Kingdom of Saudi Arabia, United Arab Emirates, Kuwait, Oman and in its home country Jordan.

ETA-max brings its experience, expertise, creativity and commitment not only to achieve its clients’ goals, but to exceed their expectations through self-set standards of professional services. ETA-max always aims at and sustains genuine partnerships with its clients, associates and colleagues to open the door for expanded opportunities for better services and continuous development.

**Facts**
- Establishment Year: 2011
- Number of Staff: 40 Total
- Installed Capacity: 50 MW

**Services**
- Engineering
- Procurement
- Construction
- Operation & Maintenance
- Energy Auditing
- Energy Management (ISO:50001)
- Training

**Projects**
- University of Jordan (UoJ) – 13.6 MWp
- Jordanian Ice Soda & Pepsi Co. (JICE) – 1.8 MWp
- Fresh Fruits – 1.7 MWp
- Razi – 1 MWp
- Cowater – 1 MWp
- Royal Academy of Culinary Arts – 251 kWp
- 400+ Residential, Commercial, Government & Industrial Projects

**Eta-max in Numbers**

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www.eta-max.com

**Awards**
- 2016 Best Innovative Energy Project ME Region
- Accredited for PV Projects 0 - 125 kWP
- Accredited for PV Projects 200 kWp – 2.5 MWp

**Selected Projects**
- University of Jordan - 11,400.48 kWp
- University of Jordan - 11,400.48 kWp
- Royal Academy of Culinary Arts - 226.81 kWp
- Fresh Fruit Company - 1658.67 kWp
- 400+ Residential, Commercial, Government & Industrial Projects

**Certificates**
- 7 Certified Energy Managers (CEM)
- 3 Certified Energy Auditors (CEA)
- 3 Energy Efficiency Practitioners (EEP)
- 3 Renewable Energy Professionals (REP)
- 1 Business Energy Professional (BEP)
- 1 Certified Measurement & Verification Professional (CMVP)
- 1 Certified Carbon Reduction Manager (CRM)
- 1 LEED Green Associate

**Key Staff**
Prof. Mohammad Dado
CEO
Eng. Rabea Sawaqed
Technical Manager
Eng. Osama Al-Masri
Operations Manager
Eng. Jameel Darwesh
Sales & Design Manager
**Firas Balasme Corporation for Control Systems “FB GROUP”**

**Facts**
- Establishment Year: 2010
- Number of Staff: 25

**Services**
- Pre-Engineering
- Design
- Integration
- Upgrade / Modification for Existing Systems:
- Supplying, Installation, commissioning, testing
- Operation and Maintenance
- Training
- Auditing

**Business Lines**
- Renewable Energy Solutions.
- Hydrometric, Environmental Solutions.
- Process & Instrumentations Solutions.
- Education & Training Solutions.
- Installation, Maintenance & Rehabilitation Works.
- Power & Energy Solutions.
- Automation & Control Solutions.

**FB GROUP** entered the Renewable Energy Sector in 2013, and is now considered to be one of the top 5 sector leaders in Jordan; capable of executing EPC, O&M as well as BOT contracts. Its track record is around 13 MW installed and operated iconic projects, in addition to taking part of developing IPP/PPA projects with the total capacity of 235 MW.

FB GROUP designs, develops and delivers innovative renewable energy solutions that produce an optimum system, ensuring quality and cost effective services to its valuable clients. FB GROUP has also expanded its reach to the whole MENA region, especially KSA, Lebanon, Iraq, Libya and United Arab Emirates.

The vision of FB GROUP is to successfully advance renewable energy into the Jordanian market, working with developers to make the process commercially viable for all concerned.

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- www.fbgroup.com.jo

**Selected Projects**
- 1.077 MWp Civil Defense Directorate
- 2.11 MWp German Jordanian University
- 44 MWp The Hashemite University

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**Green Electron**

**Facts**
- Establishment Year: 2016
- (2019 in Palestine)
- Number of Staff: 11

**Services**
- Turnkey PV Projects
- Solar Installation solutions.
- Operation and Maintenance
- Projects Supervision
- Feasibility and Environmental Studies.

Green Electron is a Jordanian company specialized in solar photovoltaics energy, that provides an integrated turnkey solution based on customer needs and best application usage. It was established in Jordan in 2016.

Green Electron has expert staff from competent engineers to skilled technicians; executing projects in many solar fields and dealing with most well known PV brands.


Green Electron’s services include Turnkey PV Projects, Solar Installation solutions, Operation and Maintenance, Projects Supervision, Feasibility and Environmental Studies.

The company provides total solutions to the PV industry and construction field from concept to commissioning including basics and detailed engineering, procurement, installation, testing and operation (EPC projects).

Regarding Solar Installation solutions, Green Electron provides complete, best installation solutions from concept to commissioning of small solar to large scale PV power plants for any capacity, either by export to grid or off grid sites; in addition to roof top or mounting structure installations.

The company has valuable experience in executing the installation, operation and maintenance of PV projects including system monitoring, faults troubleshooting, performance reporting and cleaning solutions.

Through Green Electron’s experience in implementing both small and large projects, the company provides Project Supervision services to deliver any project to success with the lowest costs, risks and highest quality.

Feasibility and Environmental Studies are considered one of the most important factors affecting investment decision-making for any project. Green Electron presents its experiences and studies to provide the best feasibility study for the client, to measure the extent of the project’s success.

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**Branches**
- Palestine – Nablus
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  - info@green-electron.net
  - Tel: +970-9-2348566

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**Key Staff**
- Dr. Firas Balasmeh Chief Executive Officer
- Eng. Merissa Crook General Manager
- Eng. Areen Momani Administration & HR Manager

**Partners**
- ABB
- MM

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**Selected Projects**
- 1.077 MWp Civil Defense Directorate
- 2.11 MWp German Jordanian University
- 44 MWp The Hashemite University
**Green Environment for Renewable Energy (GreenViro)**

Green Environment Renewable Energy (GreenViro) was established in 2013 and has successfully provided complete, comprehensive and coordinated services to its customers. It is classified as an “A” company, by the Energy and Minerals Regulatory Commission (EMRC) and is an authorized distributor for GCL modules.

GreenViro focuses on the development of environmentally friendly projects to bring technologies, solutions and services that are clean, green and sustainable to help its customers reduce and effectively control the energy bill in the long term, while reducing carbon emissions. To achieve these goals, GreenViro is collaborating with some of the world’s leading companies and associations with expertise in alternative and renewable sources of energy in solar photovoltaic. The company puts its customers and partners at the center of its attention. GreenViro is committed to comply with international safety, environment and quality standards at all times. Its vision focuses on the generation of electric power in a safe and effective manner.

The GreenViro engineering team consists of highly regarded engineers from the best universities in Jordan and is committed to help you build your solar plant with its designs, workmanship and after sales support. The team performs many tasks including site survey, system design and to handle all permits. To determine the feasibility of your system, a study is carried out to identify system cost, payment options, annual yield for the system, annual savings, ROI, BOT System and BOOT system.

GreenViro is responsible for identifying, analyzing, and managing all technical, economic, and planning aspects of the project implementation including Project Design, Procurement and Installation. GreenViro guarantees a high level of performance for its systems and makes sure that its design specifications match the actual built system.

**Facts**
- Establishment Year: 2013
- Number of Staff: 20

**Services**
- Engineering and Design
- Feasibility Studies
- Project Management
- Operation and Maintenance

**Solutions**
- Residential Power Systems
- Commercial Power Solutions
- Utility Power Solutions
- Off Grid and Pumping

**Projects**
- Zamzam Factory - 110 kWp
- Rainbow Textiles - 112.32 kWp
- H&G Pumping - 200 kWp
- Sameh Mall - Alazraq - 201.63 kWp
- Abd Alqader Qadoora Farms - 210 kWp
- Mr. Abdel-Rauf El-Ejel Company - 210 kWp
- Samah Mall, Alazraq - 201.63 kWp
- HDBG Pumping - 200 kWp
- Rainbow Textiles - 112.32 kWp
- Zamzam Factory - 110 kWp

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**HAWANA Energy**

HAWANA Energy was founded in September, 2021 as a renewable energy service provider in the Jordanian market. Its scope of activities covers rooftop and commercial PV installation, module cleaning services and supply of PV modules and mounting structures.

HAWANA Energy is the local representative of Eging PV, which is a tier 1 PV module manufacturer, and Grace solar which is a leading Chinese mounting structure solution provider. Despite being a newly established entity, HAWANA has successfully delivered more than 40 kWp of PV installations.

HAWANA Energy maintains strong quality, health, safety and environmental procedures on all of its projects. Also, HAWANA’s management considers HSE and Quality as an undertaking and responsibility which is of equal importance to production.

Employees of HAWANA have a duty of care to themselves and others by avoiding hazards, preventing accidents and co-operating with the company by complying with all instructions and recommendations on health, safety, quality and the environment.

**Facts**
- Establishment Year: 2021
- Number of Staff: 5

**Services**
- Rooftop and Commercial PV Installation
- Module Cleaning Services
- Supply of PV Modules
- Mounting Structures

**Projects**
- Ms. Heyam Habash residence - 24 kw
- Ms. Maha Qoussos residence - 12 kw

**Contact**
- Tel: +962-79-5543086
- Amman, Jordan
- hawanaenergy@gmail.com

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**Key Staff**
- Osama Al-Said: CEO
- Mohammad Saliman: Executive Manager
- Khalil Hussein: General Manager

**Partners**
- GCL
- Fronius

**Selected Projects**
- Ms. Heyam Habash residence - 24 kw
- Ms. Maha Qoussos residence - 12 kw
IDHAL for Solar Energy Solutions

Facts
Establishment Year: 2016
Number of Staff: 30 (direct and indirect)
Total projects capacity: 20MW

Projects
- Roof hanger Project, Al-Alamayh Co. (660 KW)
- Royal Scientific Society (RSS) and Jordan Renewable Energy & Energy Efficiency Fund (Schools in South of Jordan in Al-Shobak, AlKarak with total size 430 KW).
- Household single phase small projects (3 MW), Amman.
- SkyLight Hotel, rooftop project (142 KW), Amman.
- Solar pumping system of Umm Alrasas (140 KW), Amman.
- Princess Tагeed own, car park project of (65 KW), Amman.
- Ground Mount Solar Project (60 KW), Um AlRasas.
- AlJawhara Hotel Suites, RoofTop Project (58 KW), Amman.
- Project of ECOPeace [28 KW] Northern Ghor.

IDHAL is an energetic and dynamic youth company located in Amman-Jordan, with a sister company and partner in USA, which specializes in developing and implementing integrated renewable energy business in the Middle East region.

Starting in 2016, and working with large renewable energy providers worldwide, IDHAL works to make solar and wind energy part of people’s lives. IDHAL partners have developed hundreds of projects involving energy efficiency and renewable power for education, governmental and business customers all around earth.

IDHAL’s vision is to ensure that renewable energy is the leading contributor to sustainable development in the Middle East. It’s mission is to shape the regulatory environment to promote the growing market opportunity for renewable energy in the Middle East.

The strategy of IDHAL aims at profitable growth, by providing advanced technologies and lifestyle solutions to its customers

IDHAL social responsibility involvements and memberships include the National Center for Human Resources Development (NCHRD), and board memberships of the Technical Committee for the sector of electricity and the Renewable Energy Establishment Society and Energy Management (REES). IDHAL is also working with universities, during the next 3 years, to keep pace with the labor market needs and to find solutions to the obstacles facing the workforce in the sector.

Key Staff
Mohanad Ajarmih
General Manager
Rasha Abu Alghanam
Product and Sales Manager
Eng. Ala’a Almaghribi
Business Development Manager

Certifications
EMRC: Class A

Partners

Selected Projects

IDHAL for Solar Energy Solutions

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Jordan Tera Watt Renewable Energy Company L.L.C.

Facts
Establishment Year: 2020

Services
- Solar Energy Solutions
- Wind Energy
- Geothermal Energy
- Hydro Energy
- Supply renewable energy generation equipment and devices.

Key Staff
Eng. Saleh Al-Atiyat
Chairman of Board of Directors

Associations
- Member and executive arm of the Arab Renewable Energy Commission (AREC).

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Businesses trust Jordan Watt as their long-term solar energy partner.

The company’s proven process and experienced team allow customers to implement solar seamlessly, leading to reduced energy costs and a more sustainable future.

Jordan Watt is an environmentally friendly company seeking to provide renewable energy alternatives through an elite experience in the field of renewable energy.

The company excels and specializes in solar PV systems and energy management projects. Jordan Watt’s partners are among the leading global companies in the development and management of renewable energy solutions in Europe and the Middle East region.

The main goal of Jordan Watt is to preserve the environment, by generating clean and sustainable energy in order to ensure a “green future” for all humanity. The company bears the responsibility to raise societal awareness in the field of renewable energy, especially directing families and employers regarding the necessity of reducing energy depletion to work with Jordan Watt, hand in hand, as friends of the environment.

Eng. Saleh Al-Atiyat
Chairman of Board of Directors
International Technical Construction & Storage Co. FZ (W.L.L.) - ITCC

Facts
Establishment Year: 1985
Number of Staff: 12
Total Projects: $10,000,000 USD

Products & Services
- Piping Systems
- Process Equipment
- Material and Special Alloys
- Rotating and Reciprocating Equipment
- Measurement, Testing & Safety
- Building and Construction Materials
- Oilfield and Drilling
- Material Handling
- Railway Systems
- Electrical and Instrumentation Solutions
- Power and Telecom Solutions
- Renewable Energy Products
- Maintenance and Spare Parts
- Multi-Disciplinary Supplies
- Corrosion and surface Protection

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International Technical Construction & Storage Co. FZ (W.L.L.) - ITCC is a procurement service provider specialized in the supply of engineering products and services required by the Oil and Gas, Petrochemical, Chemical, Water, Power and Renewable Energy industries in Jordan and neighboring countries. The company’s offerings are tailored procurement solutions that incorporate engineering, project management, on-site services, and maintenance support to suit the client requirements.

ITCC was established in 1985 as a family business with an objective of becoming a leading provider of engineering and turnkey procurement solutions in Jordan and the Middle East. Since then, the company has taken major strides in this direction. Its name, “ITCC” has become recognized for the quality and reliability of its services across different industry segments.

To provide its customers with solutions and services that contribute to their success, ITCC is committed to leverage its core capabilities which include its technical and engineering expertise across various industries, its global sourcing network, and its experience in Contracts Management with world class clients. It is the combination of those three capabilities which makes ITCC solutions unique and value-adding to its clients.

Over the years, ITCC has built a portfolio of principles, who are specialized manufacturers and service providers. On their behalf, ITCC markets and promotes their products, provides front line technical support and after sales services to customers.

The business philosophy of ITCC stems from its ‘family business values’. ITCC places integrity and discipline at the center of all its relationships with the key stakeholders (customers, vendors, and employees). ITCC strives for uncompromising integrity and professionalism in all its business activities and meets all of its stakeholder commitments; with respect towards the value of keeping deadlines and paying attention to details.

ITCC management continuously seeks to add new partners to offer a comprehensive one-stop shop for its end-users.


Certifications

Selected Projects
- Potash – Replacement of Crystallizer # 2 & 3
- Phosphate - Bulk Material Handling Systems
- Solar - Off-Grid Solutions & Steel Structure
- Refinery – Loading Arms & Metering Skids

Partners

Key Staff
Eng. George Salman
Managing Director
Eng. Rola Salman
Commercial Director
Eng. Jamil Salman
Sales & Technical Director

International Technical Construction & Storage Co. FZ (W.L.L.) - ITCC - is a procurement service provider specialized in the supply of engineering products and services required by the Oil and Gas, Petrochemical, Chemical, Water, Power and Renewable Energy industries in Jordan and neighboring countries. The company’s offerings are tailored procurement solutions that incorporate engineering, project management, on-site services, and maintenance support to suit the client requirements.

ITCC was established in 1985 as a family business with an objective of becoming a leading provider of engineering and turnkey procurement solutions in Jordan and the Middle East. Since then, the company has taken major strides in this direction. Its name, “ITCC” has become recognized for the quality and reliability of its services across different industry segments.

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ITCC management continuously seeks to add new partners to offer a comprehensive one-stop shop for its end-users.

Izzat Marji Group (IMG)

Izzat Marji Group was established in 1985, as a small private company. Today, IMG has evolved into one of Jordan’s leading suppliers of mechanical equipment, heating and cooling systems, sanitary ware, bathroom and kitchen fixtures, firefighting systems, fixing systems and power tools, in addition to renewable energy and energy efficiency solutions.

IMG provides fully-integrated solutions for the successful implementation of solar photovoltaic systems, as IMG is able to perform a full-service EPC at every step of the value chain including Engineering, Procurement & Purchasing, Project Management, Construction and Commissioning along with offering a complete operational and maintenance services to protect your asset and to maximize your return.

IMG covers all market segments including the industrial sector, commercial sector, residential sector, educational sector, health sector, governmental sector and hotels sector. As part of the commitment to deliver added value, the group continuously moves forward to adapt to its clients’ requirements, considering the market’s trends. Up to this moment, IMG has designed more than 100MWp of projects, and has more than 500 projects in Jordan, Dubai and Kuwait totaling over 50MWp in its pipeline.

IMG provides several services related to energy efficiency such as Energy Audits, Energy Modeling, Thermal Imaging, Consultancy services for green buildings (LEED, JGBG) and ISO 50001 Energy Management System to optimize energy performance and cut costs, in order to increase profitability.

Over the past 35 years, IMG’s first priority has been and continues to revolve around fulfilling the customer’s needs, by providing them with high quality products, reliable services and unique experiences to meet their needs.

It is worth mentioning that IMG is currently occupying a unique and state-of-the-art headquarters building that sets an example for the whole commercial buildings’ sector with its innovative implementation of RE and EE systems.

The building is the first commercial building in Jordan to receive the Platinum level of the Green Buildings’ Certificate, issued by the U.S. Green Building Council (USGBC), known as LEED (Leadership in Energy and Environmental Design), in addition to other certificates and awards including Jordan Green Building guide, level A, Energy Globe Award, AEE innovative project of the year (Middle East), MENA Green Building award, Green Commercial Building of the year 2019.

Facts
Establishment Year: 1985
Number of Staff: 285
Total projects capacity: 45+ MW

Products & Services
• Heating, Air-conditioning & Ventilation Solutions.
• Sanitary Ware, Bathroom & Kitchen Accessories.
• Mechanical, Electrical Systems & Plumping.

Projects
• Jordan
  • American University of Madaba (1.45 MW)
  • Arab Pioneers for Carpets and Rugs (1.9 MW)
  • Maaneh Trading Co. (2 MW)
  • Petra Food Industries (1.39 MW)
  • Aramen (1.5 MW)
  • Societe Generale de Banque – Jordanie (1.01 MW)
  • Mada Amman - Centro Hotel (1.0 MW)
  • Arab Weavers Union (726 kWp)
  • American Community School (700 kWp)
  • Farms Pumping Systems (693 kWp)
  • Multi Polymers Plastic Industries (620 kWp)
  • Go Gas (574 kWp)
  • Teeba Investment for Developed Food Processing Co. (473 kWp)
  • REDEE Schools Program (449 kWp)
  • Al Tafileh Hospital (181 kWp)
  • Kuwait
  • SubhKhan Stores (3.8 MW)
  • Al-Farwaniya Court Complex (318 kWp)
  • United Arab Emirates
  • Amman 11821, Jordan
  • info@wamestsolar.com
  • Mob no.  (966) 50 423 9089
  • Office no. 99, Khalidya Building, Olaya Street, Riyadh
  • Riyadh, Saudi Arabia
  • Wamest Solar
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  • www.wamestsonar.com

Certificates
Sister Companies
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Dubai, United Arab Emirates, Office no. F230A0971 - JAFZA One Building, Jebel Ali Free Zone
Izzat Marji: (971) 52 838 5212
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www.marji.jo

Developers & EPC Contractors
• Aramex Emirates LLC (6.4 MW)
  • United Arab Emirates
• Al-Farwaniya Court Complex
• SUBHAN Stores (3.8 MW)
  • Kuwait
• Al Tafileh Hospital (381 kWp)
• RE&EE Schools Program (449 kWp)
• Teeba Investment for Developed Food Processing Co. (318 kWp)
• American University of Madaba
• Arab Weavers Union (726 kWp)
• Mada Amman - Centro Hotel (1.0 MW)
• American Community School
• Arab Pioneers for Carpets and Rugs (1.9 MW)
• Petra Food Industries (1.39 MW)
• Maaneh Trading Co. (2 MW)
• Amman 11821, Jordan
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Key Staff
Fadi Marji
General Manager Renewable Energy and Energy Efficiency

Farah Qaqish
Deputy General Manager

Mouhannad Sweiss
Deputy Sales Manager

Izzat Marji
Projects Manager

Shifa'a Khatatbeh
Energy Efficiency Division Manager

Partners
Selected Projects
Izzat Marji Group - HQ
Societe Generale de Banque – Jordanie

Riyadh Insulating Glass Co.
American Community School

American University of Madaba

Wamest Solar
Petra Food Industries Co.
Jordan Tractor and Equipment Co. (JTEC) was established in 1953 as the sole dealer in Jordan for Caterpillar Inc., the world leader in manufacturing and support of a complete range of reliable, durable, highly productive and cost effective machines and equipment for various industries such as Mining Aggregation, Building, Construction, Road Construction, Military, Municipality, Industrial, Marine Agriculture, Tourism and Hospitality.

Caterpillar products include Gas Generator Sets capable of operating on a wide range of gases and biogases, besides micro grid solutions consisting of Solar Panels, Wind Turbines, Storage Batteries, Advanced Controllers and Standby Gensets.

The dedicated and customer focused Service and Support at JTEC covers the whole life cycle of the equipment. It starts with the selection process to best match equipment to fulfill your requirements at the lowest cost, and continues hence after through installation, start-up operation management, maintenance management, repair management and eventually the complete rebuild or replacement options.

In addition to the Caterpillar dealership, JTEC is the authorized dealer in Jordan for world class brands including John Deere Agricultural Tractors & Combiners, Sandvik Crushers, Sullair Air Compressors and Allmand Light Towers.

**Facts**
- Establishment Year: 1953
- Number of Staff: 150+

**Products**
- Caterpillar generator sets (Diesel, Gas, Biogas)
- Caterpillar Microgrid & PV systems
- Caterpillar Machines

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Jordan Wind Project Company PSC (JWPC)

The Jordan Wind Project Company PSC (JWPC) is proud to have developed Jordan and the region’s first and largest privately-sponsored utility scale wind farm, the 117 MW Tafila Wind Farm located in the southern governorate of Tafila, Jordan.

JWPC is owned by a consortium of three prestigious and experienced international partners; Abu Dhabi Future Energy Co. (MADAR), Tamasuk Holding Company (ABGI) and Arab Petroleum Investments Corporation (APICORP).

Generating an impressive 390 GWh per year, the Tafila Wind Farm supplies the Kingdom with a notable 3.5% of its electricity needs. In addition, the clean power generated by the Wind Farm is produced at substantially lower costs, and saves the emission of 224,000 tons of carbon dioxide annually that would otherwise be produced through conventional electricity generation.

JWPC’s Tafila Wind Farm has indeed placed Jordan on the renewable energy map of the world, and contributed to reducing the Kingdom’s reliance on imported fossil fuels. JWPC has set a precedent for future investments in renewable energy, by being the first privately sponsored utility scale renewable energy developer to negotiate and sign an off-take agreement (PPA) with the Kingdom’s national distributor and single buyer, the National Electric Power Company (NEPCO). In November 2013, JWPC’s financing, technical, environmental and legal contracts and agreements served as templates for other projects to come.

JWPC’s 117 MW Tafila Wind Farm was the first renewable energy power plant to connect to the national grid and begin commercial operations (COD) on September 16, 2015, and is now in its sixth year of operations.

JWPC’s Tafila Wind Farm has become a landmark hub for various academic, professional and official visitors. JWPC also has extensive CSR initiatives and programs that serve to support the local community.

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**Key Staff**
- **General Manager**: Amin Amireh
- **Power Systems Sales Manager**: Omar Sameeh
- **Wind Farm Manager**: Michel Jallad
- **Chairman of the Board**: Samer S. Judeh
- **Commercial Manager**: Ismail Nahhas

**Brands**
- **CAT**
- **John Deere**
- **Sandvik**
- **Sullair**
- **Allmand**

**Projects**
- Union for the Mediterranean (UFM) labeled project since 2013.
- Renewable Deal of the Year, Arab Bank.
- Development (OFID), Europe OPEC Fund for International Eksport Kredit Fonden, FMO, European Investment Bank, EP Global Energy, APICORP.

**Awards**
- IJ Global Project Finance ME Renewables Deal of the Year 2013.
- Union for the Mediterranean (UFM) labeled project since 2014.

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Kawar Energy PSC

Facts
Establishment Year: 2008
Number of Staff: 50
Installed Capacity: 220MW

Projects
• Shams Ma’an, 66.6MW largest utility scale single axis tracker in the MENA region.
• Orange, 36.7MW largest private to private wheeling project in Jordan.
• SESAME, 7MW, the world’s first large accelerator complex to be fully powered by RE.
• Ayla, 3.91MW largest sea-water pumping plant powered by solar energy in Jordan.
• Yarmouk University, 3.2MW largest solar PV rooftop in Jordan.
• Al Quds College, 1.06MW largest solar PV car-park in Jordan.
• Loyalty Support Services, 4.5MW largest solar hybrid system in Jordan.
• Dead Sea Spa Hotel, 2.8MW world’s largest solar PV system under sea-level.
• Al Balqa University, 7MW largest university to be powered by solar energy in Jordan.

Customers
Top Institutions: Public, commercial, financial, industrial, healthcare, educational, NGOs and hospitality sectors.

Kawar Energy PSC, a renewable energy solutions provider since 2008, that offers specialized services in photovoltaic solar design, engineering, procurement, construction (EPC), operation and maintenance (O&M) as well as a comprehensive (BOT) offering to finance, build and operate large projects for long terms. Kawar Energy is a member of Kawar Group, a Jordanian corporation founded in 1955 with business interests in multi-disciplines including shipping, transport, tourism, ICT, healthcare, infrastructure and energy.

The group ranks among the top privately-held corporations in the region, and among the 20 most favored organizations to work for in Jordan by virtue of its founders, entrepreneurial spirit and global business network. Their expertise stems from deep-rooted knowledge of technology, engineering and scientific principles, coupled with local and regional practical experience and with solid knowledge of location-specific topography, solar irradiation and detailed meteorological parameters across the Middle East. This empowers them to produce commercially-viable system designs and fast-deployable solutions.

Kawar Energy enjoys the largest share of the solar PV distributed energy market in Jordan leveraging a decade of highly acclaimed projects.

Today, Kawar Energy cultivates an accumulated portfolio of more than 220MW of EPC and DBOT projects, serving several types of clients spanning commercial, industrial, educational, recreational and residential facilities; accumulating thousands of GWh of produced electricity from millions of installed PV panels resulting in hundreds of thousands of tons of reduced CO2 emissions.

The spectrum of Kawar Energy’s professional pre-sale services include initial environmental impact assessment, grid impact and geotechnical studies; in addition to permitting and attainment of approvals and land leasing.

Their core competencies are in engineering and design; and cover the installation, operation and maintenance services for the entire life-cycle of Kawar Energy’s own PV solar plants as well as those of third parties’ plants. These services include remote monitoring and control, system performance and analysis, on-site inspections and preventive and corrective interventions.

The in-depth knowledge and expertise in solar electric photovoltaic (PV) technology uniquely positions Kawar Energy to design and engineer top-of-the-line systems.

Kawar Energy does not assemble its systems. The in-depth knowledge and expertise in solar electric photovoltaic (PV) technology uniquely positions Kawar Energy to design and engineer top-of-the-line systems.

The in-depth knowledge and expertise in solar electric photovoltaic (PV) technology uniquely positions Kawar Energy to design and engineer top-of-the-line systems.

Key Staff
Hanna Zaghloul
CEO
Ismail Nabhan
Design and Bidding Manager
Tareq Murad
Business Development & Strategic Projects
Mahmoud Salama
Operation & Maintenance Manager
Raed Azab
Operations Manager

Services
• Supply: Major Component Procurement Including Modules, Inverters, Racking; Balance of System, Medium Voltage Equipment & Solutions; Customized Inverter Outdoor Inverter Skid Solutions.
• Construction: Construction Management, Supervision, Quality Control and Performance Testing, Safety policy, Medium-voltage, Commissioning, Customer Orientation and Training.
• Financing: Corporates and individuals with limited access to capital; enabling them to invest in renewable energy solutions through a broad range of long and short term loan options; with financial facilitation services that guarantee access to turnkey financing solutions.
• Equity Investment: Kawar Energy (via Kawar Investment) engages as an equity investor in mega and utility scale renewable energy projects; bringing deep expertise, longstanding relationships and strategic insight to the investments.

Contract Types
• DBOT: Design, Build, Operate and Transfer
• EPC: Engineer, Procure and Construct
• O&M: Operations and Maintenance

Selected Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shams Ma’an, 66.6MW</td>
<td></td>
</tr>
<tr>
<td>Orange Project, 36.7MW</td>
<td></td>
</tr>
<tr>
<td>SESAME, 7MW</td>
<td></td>
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<tr>
<td>Mu’tah University, 5MW</td>
<td></td>
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<tr>
<td>Dead Sea Spa Hotel, 2.8MW</td>
<td></td>
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<tr>
<td>Ahli Bank, 1MW</td>
<td></td>
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</tbody>
</table>

Shams Ma’an Power Generation Company
MANTEQ Engineering

United Engineering Sense, commonly known as MANTEQ Engineering is a well-known supplier for a wide range of engineering products concerning the field of buildings’ mechanical services in addition to energy-saving solutions. The company was established in 2009 and started serving Jordan and the Middle East market.

The company prides itself in its progressively developed technical knowledge and skills in a rapidly changing industry. The qualified teams at MANTEQ Engineering are always focusing on practicality and efficiency in every perspective. The knowledge and expertise in a framework of integrity and credibility is the team’s obsession and quest, and the trophy is its clients’ trust.

MANTEQ Engineering with its worldwide partners can provide the best HVAC, Fire Fighting and Vibration and Noise Control. MANTEQ’s Technical knowledge and experience is well developed and carefully maintained by a dedicated team of experts.

MANTEQ Engineering’s mission is to provide its customers with comfort and a secure life, secure property, and business by delivering solutions cooperating with the world’s Top Manufacturers.

MANTEQ Engineering’s vision is to be a regional leading company in the fields of renewable energy solutions, HVAC, water technology, fire fighting and vibration and noise control.

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Selected Projects
- Seven Wonders Hotel Project
- Al-Tazaj Restaurant Project
- Rawhi Pharmacies Project

Facts
Establishment Year: 2009
Number of Staff: 21

Projects
- Samra power Plant, Jordan
- Movenpick Aqaba Project
- Muwaqqar Ahli Bank Project (5)

Key Staff
Eng. Shadi Zahran
Managing Director

Eng. Ala’a Ramadan
Vice President

Eng. Mahmoud Alnamjear
Head of Renewable Energy Division

Developers & EPC Contractors

Millennium Energy Industries (MEI)

Millennium Energy Industries (MEI) is an award winning and leading turnkey solar solutions provider operating internationally and in the MENA region.

Since 2002, MEI has been providing, on a turnkey basis, various solar heating, cooling, steam, and/or power (PV/CSP) solutions for industrial, commercial and residential clients.

MEI provides such solutions on an Engineering, Procurement and Construction (EPC) basis; as well as on an Energy Services/BOOT/Lease basis.

MEI provides solar energy as a “service” or “solution financing” directly or through its alliance members for select projects.

In essence, MEI takes on the investment burden and provides guarantees on energy output, in return for a guaranteed payment plan or schedule. Depending on the specific project and terms, this can be referred to as Lease to Own, Capital Lease, Operating Lease, Build Operate Own Transfer (BOOT), Energy Service, Deferred Payment Plan or Financed Solution.

MEI clients include Marriott and Movenpick Resorts, Nestle factory, Safeway, Schlumberger, Masdar City, the Government of Saudi Arabia, and various other universities, hospitals, resorts, hotels, residential communities, oil/gas and industrial facilities.

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Selected Projects
- Intercontinental Aqaba Project
- Movenpick Aqaba Project
- Muwaqqar Ahli Bank Project (5)

Facts
Establishment Year: 2002
Number of Staff: 20
Capacity Built: Solar Thermal (135+ MW), Solar PV (50+ MWp)
Total Solar Projects: 250+ references (over 70 Ctri)

Projects
- Solar Thermal Projects: Princess Nora Bint Abdul Rahman University (ICSA) – 25 MW Capacity, Hellenic Copper Mine (Cyprus), BASHIR Hospital, Mafraq Hospital, Saraya Aqaba, Marriott Hotels (Amman & Dead Sea), Movenpick (Dead Sea & Aqaba), Intercontinental Hotel Aqaba, Royal Cultural Center, German Jordan University, Qatar University (Qatar).
- PV Projects: Falcon Dilmun, 25 MWp, Aqaba, Intercontinental Aqaba Project, Dubai Hotel – 1 MWp, Princess Zain Palace – 120 KWP, Jordan Commercial Bank – 850 KWP, AlNisr AlArabi Insurance Co. – 200 KWP and several smaller projects – from 50 to 100KWP.

Key Staff
Hani Rabie
Chairman

Hisham Mikhi
General Manager

Partners

Certificates

Mustakbal clean tech (MCT)

**Facts**
- Establishment Year: 2009
- Number of Staff: 32
- Key Staff
  - Dr. Ala Qubain: CEO
  - Eng. Shukri Halaby: COO
  - Eng. Rand Alzubi: CTO

**Services**
- Engineering, Procurement, Construction, and Operations and Maintenance of Photovoltaic Power Plants.
- EPCM service packages MENA region.

**Projects**
- RSS Solar Farming Project (35 MWp)
- Various Other Commercial Projects
- Al Burj Tower Trading Group
- Amman Academy School
- Total Jordan Gas Stations
- King Hussein Foundation
- Ma'an Development Company
- Ayla Aqaba Wheeling Project (2.6 MWp)
- SMART Automation Energy Dubai (5 MWp)
- UNHCR Azraq Refugee Camp (6 MWp)
- Jordan Kuwait Bank Wheeling Project (2.3 MWp)
- Khalidi Medical Center and Hospital Wheeling System (2 MWp)
- Mu’an Development Company (1 MWp)
- King Hussein Foundation Wheeling System (750 kWp)
- Total Jordan Gas Stations (1.6 MWp)
- Amman Academy School (420 kWp)
- Abu Khader Group (850 kWp)
- Nader Group (600 kWp)
- Al Bu’r Tower Trading Group (1000 kWp)
- Various Offshore Commercial and Residential Projects.

MCT is a turnkey photovoltaic project developer specializing in developing turnkey photovoltaic (PV) energy solutions in the MENA region that are based on sound and specialist engineering and economics; offering world-class customer support and after-sales service; working with like-minded partners and customers. MCT is team’s expertise is high quality, qualified and valued in delivering A-class PV solutions in the market.

MCT’s customers and partners are reputable commercial companies, non-governmental organizations, and esteemed private clients. To date, MCT has installed over 600 PV projects with a total capacity of more than 90 MWp in Jordan and has executed projects of over 100 MWp capacity in the MENA region.

MCT is one of the pioneers in implementing PV and wind projects in the region. The company has implemented hundreds of roof projects in the Middle-East, Jordan, Egypt, UAE, and Syria since 2004, with a diversity of small scale rooftop projects in PV systems, and also large scale PV farms and wind farms.

As for conventional power, Nashwan for Energy Solutions has installed 120 MW power plants including switchgear, transformers, and LV systems. pumps, chillers, and cooling towers. Then it accomplished another 70 MW plant in Abu Dhabi, and another project in Abu Dhabi which was 35 MW.

It is known that the problem is the polluting of the atmosphere and the changing of climate by burning coal and oil. The solution is known, a quick transition to 100% clean energy sources including wind, solar, and alternative fuels. Fortunately, Nashwan for Energy Solutions has some of the best people who have dedicated their lives to tackling this exact challenge, and in order to make the company’s vision a reality.

Nashwan for Energy Solutions is interested in developing its services and projects to delight its customers. The company applied hiring, safety and quality policies to achieve that goal. Nashwan for Energy Solutions hires people, qualifies them, invests in them, and utilizes them to accomplish company goals. Also, safety standards are the company’s path to achieve its goals. Regarding quality, it is the criteria which the company considers to enhance its achievements.

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Selected Projects
- UNDP 2.5 MWp Palestine
- Kemperinski Dead Sea (5 MWp)
- MEMIP Azrak

Developers & EPC Contractors

Nashwan for Energy Solutions

**Facts**
- Establishment Year: 2017
- Number of Staff: 10

**Services**
- Contracting: Engineering, Procurement and construction of turnkey projects (PV systems small, medium and large-scale projects; wind turbine systems small, medium and large-scale projects, Bogus plants)
- EPCOM service packages:
  - feasibility studies, development, FID, etc.
  - environmental services: weather station installation, commissioning and start up.
  - energy management and energy efficiency: power saving units (lighting, conditioning, etc.)
  - rational ways of electricity consumption.
  - training: on environment, electrical, energy, mechanical, HSE and management.
  - consultancy services in all the above.

**Projects**
- EIA studies (auditing and preparation).
- Energy management and Energy efficiency: power saving units (lighting, conditioning, etc.)
  - rational ways of electricity consumption.
  - training: on environment, electrical, energy, mechanical, HSE and management.
  - consultancy services in all the above.

**Projects**
- Diesel Generator Projects:
  - On-Grid Systems:
    - EIA studies (auditing and preparation).
    - Energy management and Energy efficiency: power saving units (lighting, conditioning, etc.)
      - rational ways of electricity consumption.
      - training: on environment, electrical, energy, mechanical, HSE and management.
      - consultancy services in all the above.

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- www.nashwanre.com

Selected Projects
- FRV 50 MW project for ASTRACO
- Jordan University Jubilee Hospital project 200 kW
- 7th Star Hotel Project L20 Kwh Fillwring
**NUR Solar Systems**

**Facts**
- Establishment Year: 1983
- Number of Staff: 50
- Installed Capacity: 80MW

**Services**
- Factory Products: Solar Thermal (Solar Water Heaters), Solar Thermal Collectors, Storage Tanks (Cylinders), Engineering Metal Fabrications.

**Projects**
- Royal Hashemite Court: Solar water heating system & swimming pools heating.
- Royal Initiative: Solar water heaters in North of Jordan, solar water heaters 1000 Units for 1000 families.
- Me’an Wind Power Project 80 MWp: Subcontracting electro-mechanical, MV installation & WTC connections.
- The Royal Hashemite Court-Haya Cultural Center: System capacity 235 kWp (car parks).
- More than 6.5 MWp for residential & commercial sector (design, supply, installation testing, commissioning & operation photovoltaic systems roof tops).

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Building on an experience of more than 35 years in renewable energy applications and energy systems, NUR Solar Systems is an efficient, thriving, and dynamic firm that helps facilities, corporations, and homes to make smart energy and resource use a central part of the way they live and work.

NUR Solar Systems stays focused on meeting the needs of its clients and its team of experts and the company is completely dedicated to achieving its mission. The company has unequaled expertise in building sciences, management, public policy, design, energy efficiency programs for residential, industrial and commercial applications, renewable energy systems and technologies, and much more.

NUR Solar Systems expanded its activities to offer its solar products to neighboring countries including the Kingdom of Saudi Arabia, Kuwait, Iraq, Egypt, U.A.E, Tunisia, Lebanon, Libya and Yemen.

NUR Solar Systems is an ISO 9001:2008 certified company with the highest level of commitment to quality.

NUR Solar Systems is, predominantly, a construction company providing project management, engineering, procurement, and construction services to the RE industry. With more than 80 MW of installed capacity and another 5 MW under construction, the company is among the top-tier renewable energy EPCs in Jordan. The company is also a member in all relevant energy and engineering associations, in Jordan and globally.

NUR Solar Systems, providing renewable energy solutions since 1983.

**Certifications**
- **SHEC**
- **Solar Key Mark**
- **Royal Scientific Society of Jordan (Test Certificate)**
- **Made in Jordan**
- **1 LEED Green Associate – Outsource**
- **1 Certified Measurement & Verification Professional (CMVP)**
- **2 Renewable Energy Professionals (REP)**
- **1 Energy Efficiency Practitioners (EEP)**
- **1 Certified Energy Auditors (CEA)**
- **1 Certified Energy Managers (CEM)**

**Selected Projects**
- Royal Palaces - 155.48kWp
- Aujan Company - 45.475kWp
- Aljizwi Farm - 131.2kWp
- Aujan Company - 15.488kWp

**Olivia Energy**

**Facts**
- Establishment Year: 2020
- Number of Staff: 5

**Services**
- Photovoltaic Systems
- Heat Pumps

**Markets**
- Jordan, Iraq.

Olivia Energy was established in 2020, by highly qualified engineers who have gained diverse experiences and skills working in the solar energy sector for over seven years.

Olivia Energy is committed to providing products, solutions and consultancy to organizations and households and to guide them to application of those solutions in a way that achieves a win-win for the company, the community and everyone involved.

Olivia Energy aims to introduce green energy in the form of solar energy that is an economically attractive solution for the end user, and is an environment friendly and sustainable source of energy. Olivia Energy also aims at providing consultancy for new or existing establishments regarding how to go green, with steps to green practices and sustainability.

Olivia Energy is specialized in supplying and installing energy saving swimming pool heat pumps, after conducting all required engineering studies in terms of sizing and designing the best heating solution for the pools.

Olivia Energy provides the best solutions in photovoltaic systems for on-grid and off-grid systems using the best technologies, according to the highest global standards. Olivia Energy is proud to have so far installed around 100 Photovoltaic Systems with a total capacity of over 1.5 MWp, within this short period since its establishment.

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Olivia Energy aims to introduce green energy in the form of solar energy that is an economically attractive solution for the end user, and is an environment friendly and sustainable source of energy. Olivia Energy also aims at providing consultancy for new or existing establishments regarding how to go green, with steps to green practices and sustainability.

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Philadelphia Solar (PS) is a specialized solar company that was established in 2007 with a build-up area of 14,200 m² and a startup capital of 25 million USD.

PS was the first photovoltaic (PV) panel manufacturer company in the MENA region with an annual PV production capacity of 10 MWp. By expanding its production lines, the company now has an annual PV production capacity of 500 MWp in addition to the new automated steel production lines to manufacture corrosion resistance steel mounting structures with an annual capacity of 300 MWp.

PS is continuously upgrading its production lines to meet PV latest technology. Lately, PS modernized its production lines to produce Multi Busbar and half cell technology modules. The new production lines are fully automated using the most advanced machines and robots.

PS planned to serve the US market growth as a result of what it called the new administration "extensive support" to the U.S. solar industry and manufacturing. The company said it plans to build 1 GW of capacity in the U.S. to serve both domestic and export markets.

The company will produce monocrystalline 450W bifacial and Mono facial 450W modules – 330 MWp bifacial and Mono facial line. PS exports of photovoltaic cells approached more than 48 countries worldwide and reached 14 countries in the production of Magnelis steel mounting structures.

PS Half-Cell Technology modules have the full IEC certification program, which includes IEC 61215, IEC 61730, IEC TS 62804-1, IEC 60068-2, IEC 61701, IEC 62716 and DNV bankability report. In addition to Ul61730, ISO 9001:2015, ISO 14001 and ISO 45001 and it is a member in PV cycle since 2019.

PS Magnelis steel mounting structures are exceptional, the new metallic steel coating provides surface protection in a variety of applications against long-term wear and tear.

The unique coating offers a combination of attributes such as having the best corrosion resistance performance; up to 10 times better than the galvanized steel. It is also considered to be the most cost-effective alternative to the post galvanized processed steel. One of its main features is "self-repairing protection for cut edges" which helps protect exposed cut edges with a thin zinc-based protection film with magnesium, which prevents corrosive reaction.

As a manufacturer and an engineering, procurement, and construction (EPC) contractor of photovoltaic systems, PS has successfully accomplished many EPC projects in many countries such as Egypt, KSA, Lebanon, Palestine, with another over 150 MWp references in Jordan.

PS offers its customers turnkey working systems, from viability studies and obtaining the necessary administrative permits to project designing, engineering, constructing, commissioning, and monitoring. PS does it all. Other types of services PS offers includes operation and maintenance (O&M), On/Off site training programs, outstanding technical support and after sales service to its customers and partners world-wide.

Despite the Covid-19 pandemic, the commercial operation date (COD) of Al Husainiyah Solar Power Plant project (50-megawatt (MW)) was officially announced on 1 September 2021. PS has been developing the project since 2014 and signed a strategic partnership with AMEA Power in 2017 and has collaborated to provide 200,000 high-quality Jordanian-origin PV modules. The project created jobs for Jordanians from the Southern Badia, helping to improve the economic situation to achieve comprehensive and sustainable national development, and now benefits 50,000 families from clean energy from Al Husainiyah plant project.

Philadelphia solar initiated a new 20 Million USD investment in sustainable farming which will include the newest technologies to reserve power and water. This will include Hydroponic systems, Agri Voltic systems to grow quality crops focusing on export markets.

Philadelphia Solar (PS)

Selected Projects

- Al Badiya – Mafraq, Jordan
- Mersin, Turkey
- Germany
- Morocco
- USA
- UK

Certificates

- DEUV
- GL
- TÜV
- IEC
- CEC
- PTL
- CEC

Subsidiaries

- USA
- UK
- Germany
- Morocco
- Mersin, Turkey

Figures

- PV Production Capacity: 500 MW Annually
- Steel Production Capacity: 300 MW Annually
- Developed Projects: 160 MW
- EPC Installed in Jordan only above 150 MW

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Facts

Establishment Year: 2007
Number of Staff: 360

Services

- • Feasibility Studies
- • Financing
- • Permitting
- • Project Development and Design
- • Engineering, Procurement and Construction (EPC)
- • Testing
- • Commissioning
- • Monitoring
- • Operations and Maintenance (O&M)
- • On/Off Site Training Programs
- • Technical Support
- • After Sales Services

Products

- • Mono Crystalline Modules
- • Multi Crystalline Modules
- • Magnelis Steel Mounting Structures
- • Galvanized Steel Mounting Structures
- • Turnkey Solutions for On-grid and Off-grid Systems (including solar street lighting systems)

Projects

- • Al Badiya Project – 23 MWp
- • Ewaib Metal Industries – 14.84 MWp
- • Social Security Corporation – 18.75 MWp
- • Clemenceau Hospital – 8 MWp
- • Gaza Central Wastewater Project – 4.7 MWp
- • The University of Jordan – 4.7 MWp
- • Giant Industrial Group Factories – 2.7 MWp
- • Al Istishari Hospital – 2.5 MWp
- • Al Zaytoonah University – 1.77 MWp
- • Ibad Mall – 1.167 MWp
- • Jordan Tinplate Canning and Printing Industry – 896 kWp
- • Philadelphia University – 853 kWp

Subsidiaries

- • Jordan Tinplate Canning and Printing Industry – 896 kWp
- • Factories - 2.7 MWp
- • Social Security Corporation – 18.75 MWp
- • Ewaib Metal Industries – 14.84 MWp
- • Clemenceau Hospital – 8 MWp
- • Gaza Central Wastewater Project – 4.7 MWp
- • The University of Jordan – 4.7 MWp
- • Giant Industrial Group Factories – 2.7 MWp
- • Al Istishari Hospital – 2.5 MWp
- • Al Zaytoonah University – 1.77 MWp
- • Ibad Mall – 1.167 MWp
- • Jordan Tinplate Canning and Printing Industry – 896 kWp
- • Philadelphia University – 853 kWp

Key Staff

- • Mohammad Shehadeh – Sales and Marketing Manager
- • Eyad Arafat – Chief Financial Officer
- • Mohammad Ghodayyah – Manager
- • Ahmad Smadi – Business Development Manager

Certificates

- DEUV
- GL
- TÜV
- IEC
- CEC
- PTL
- CEC

Selected Projects

- Al Badiya – Mafraq, Jordan
- Mersin, Turkey
- Germany
- Morocco
- USA
- UK

Figures

- PV Production Capacity: 500 MW Annually
- Steel Production Capacity: 300 MW Annually
- Developed Projects: 160 MW
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**PanMed Energy**

**Facts**
- Establishment Year: 2011

**Major Projects**
- By Panmed Energy and Tractebel Engineering/Engie (TE):
  - Grid Integration of Nuclear Power Plant with the Jordanian Grid.
  - Orange solar PV 32 MW owner’s engineer mission.
  - Jordan Gas Transmission Pipeline Project.
  - Agaba Liquid Natural Gas (LNG) Terminal.

PanMed Energy is a Limited Liability Company owned by Panmed Trading and Investment. It is registered in Amman, Jordan under the Company Registry number 23951, at the Jordanian Ministry of Trade and Industry.

PanMed Energy is among the leading Jordanian firms specialized in energy services. The company provides financial, technical, regulatory and environmental services to address the challenges of developing energy in Jordan and the region. It advises international groups operating in the energy sector seeking to enter the Jordanian and Middle Eastern markets. Panmed Energy equally serves as a project developer. It has implemented major renewable energy and energy efficiency projects in Jordan and the region.

Panmed Energy is the founding partner in MEDGRID, a French based company, which is an alliance of twenty-one companies including AREVA, ALSTOM GRID, EDF, ABENGOA, TAIQA ARABIA etc. MEDGRID was established within the framework of the Solar Plan of the Union for the Mediterranean, to study the technical and economic feasibility of the Mediterranean grid interconnection master plan. Panmed Energy performed a study for MEDGRID for the eight countries electrical Interconnections (Egypt - Israel - Jordan - Lebanon - Palestinian Territories - Syria), which is considered as a main interconnection link between the MENA region and Europe.

Panmed Energy represents Tractebel Engineering/Engie (TE) in Jordan and Palestine. It served as a subcontractor in the Arab Gas Pipeline project, in advisory services for the Ministry of Energy and Mineral Resources.

In January 2017, Panmed Energy formed a Partnership with Free Energia, Italy, Panmed Free. The company invests in projects in the MENA region in the area of energy efficiency and renewable energy. Panmed Free will also trade in Gas, LNG and LPG.

Panmed Energy registered a special purpose company, Panmed Energy Solutions, which will specialize in new energy solutions such as hydrogen and fuel cell for clients in the MENA region and Europe.

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**Affiliations**
- Sponsor: The Society for the Protection of Trees (Al-Shajar)
- Member: EDAMA Association
- Member: Jordanian Society for Renewable Energy (ESTEDAMA)
- Member: Jordan-French Chamber of Commerce & Industry in Jordan (CAFRAJ)
- Member: The American Chamber of Commerce in Jordan (AmCham-Jordan)
- Partner: Armoush Tourist Investment Co. Ltd.

**Key Staff**
- Shermine Dajani: CEO/Founder
- Riyad Kanaan: Senior Consultant

**Developers & EPC Contractors**

**Pivot Jordan**

**Facts**
- Establishment Year: 2008
- Number of Staff: 11
- Projects: 200+ projects, JD 3 Million MEP

**Services**
- MEP Contracting
- Electromechanical Consulting Services
- Solar/Thermal System (Green Homes)
- Biogas System

Pivot Jordan is a specialized MEP and renewable energy engineering company located in Amman, Jordan. It was founded in 2008, with great Italian and German experience.

Pivot Jordan aims to provide highly professional contracting services in the electromechanical field for systems such as lighting, power, security (CCTV), firefighting systems, HVAC, drainage systems, sanitary kitchen appliances. The company is well-recognized in contracting with very professional experience in the field of renewable energy; providing global, high class, end-to-end services by offering a variable solution. Pivot Jordan’s services extend throughout the value chain from origination to disposal of projects, providing a totally green solution for turn-key projects.

Pivot Jordan’s vision is to successfully promote renewable energy to global markets, working with investors and developers to make the process commercially viable for all concerned. The company has a variety of products from Jordan, Italy and Spain that meet the green and LEED standards. Its mission is to be the leading specialist agency in the global renewable energy space. The Renewable Energy Agency’s record of accomplishment proves that the company has an excellent working relationship and a strong understanding of its client’s needs. Pivot Jordan team sources and qualifies projects globally.

The departments at Pivot Jordan include Electromechanical (lighting, power, security, firefighting systems, HVAC, drainage systems, sanitary and kitchen appliances); Renewable Energy (photovoltaic system on/off grid and wheeling); Construction Management (electromechanical project delivery system, auditing project cost estimation, project planning, project scheduling, resources management, procurement resources management); Energy Solutions and Engineering Services (EPS walls, biogas systems).

Pivot Jordan’s future perspective is to build an environment community model built on a modern integrated sustainable technology.
Trust Energy Solutions

Trust Energy Solutions was established in 2013. The company’s expertise in the application of photovoltaic systems technologies has led it to become one of Jordan’s leading companies in photovoltaic solar systems with more than 4MWp-installed systems.

Trust Energy Solutions provides a full range of customized, integrated solar solutions and products to customers in all sectors. The customers include traditional power consumer, households, mosques, and schools, and commercial and industrial users serving major clients in the solar power sector.

The company’s vision is to lead the energy transition by delivering outstanding services, innovative, robust and reliable solutions that meet the demands of today’s energy provision and to move a step closer towards greener energy. The expertise of Trust Energy Solutions covers a full range of operations, assuring the quality of an installation. It also offers plant monitoring, preventive and corrective maintenance services.

The competitive advantages of Trust Energy Solutions include engineering expertise, reliable connection, and expertise in project implementation. Regarding engineering expertise, Trust Energy Solutions’ expert and skillful engineers proceed responsively to all specific project requirements. They are highly experienced not only in solar system power design but also in site engineering solutions and grid interconnections.

Trust Energy Solutions customers come first. The company provides a reliable connection through fast, responsive communication with its clients. Trust Energy Solutions evolves long-term partnerships with customers and supports their growth by consistently delivering quality projects, maintenance and aid.

As experts in project implementation, Trust Energy Solutions is highly effective in project management and planning which is crucial for professional and successful execution of solar power projects. It results in robust, reliable and prolonged systems.

WIOSUN for Renewable Energy Ltd.

Here at the crossroads of three continents in Aqaba, Jordan, WIOSUN for Renewable Energy Ltd. chose to establish its factory to extend its 30 years of German experience in the production of photovoltaic panels. WIOSUN transfers the knowledge and the production line of the brand to help the very promising market in the Middle East, as well as WIOSUN values to customers worldwide.

WIOSUN presents a solar panel made in Jordan, with 30 years of German experience, over 5000 satisfied customers and awarded with the national prize in 2008 and 2012 for Outstanding Innovative Achievement for the trade.

WIOSUN is your specialist for manufacturing, sales, planning, maintenance and installation of photovoltaic and combined systems. Services offered also include consulting and profit forecasts. The WIOSUN showrooms offer the comprehensive possibilities regarding the fields of application of photovoltaic.

All WIOSUN photovoltaic modules are subject to strict German quality standards. To ensure this, WIOSUN continually monitors all its manufacturers and suppliers worldwide. These modules are also particularly suitable for hot regions, due to their high degree of laminated membrane-integration. WIOSUN produces solar modules with high quality, including the S8B cells (PERC), the back sheet and connection box 1500V. The module efficiency reaches 20.09%. WIOSUN only delivers to +5 Wp. The newly developed and strengthened 40-millimeter hollow chamber frame also gives the modules extremely high stability in all weather conditions.

With the 10 years product warranty on such a complex and costly investment, as a 25 years performance guarantee. You can also get WIOSUN modules with the performance optimizer or as a standard version.
Yellow Door Energy (YDE) is an award-winning sustainable energy partner for businesses in Jordan, providing Build-Own-Operate-Transfer (BOOT) solar, storage and energy efficiency solutions.

Founded in 2015, the company now has more than 200 megawatts of awarded solar projects in Jordan, UAE, Pakistan, Saudi Arabia and Bahrain. To-date, its projects have generated more than 130,500 megawatt-hours of clean energy, equivalent to reducing carbon emissions by 80,000 tonnes.

The company’s projects enable businesses to reduce energy costs, improve power reliability and lower carbon emissions.

Its customers include Carrefour Jordan/Majid Al Futtaim, Umniah, Nestlé, Unilever, among many others. The company’s technology applications include rooftop solar, ground-mount solar, solar carports, EV chargers, and more.

As the BOOT solar provider, Yellow Door Energy finances, designs, constructs, commissions, operates and maintains the solar projects over 10-20 years.

In January 2019, YDE raised $65 million from global investors IFC, Mitsui, Equinor, and APICORP.

As the market-leading solar developer, YDE is an active member of EDAMA Jordan, Middle East Solar Industry Association (MESIA) and Clean Energy Business Council (CEBC).

YDE has won many prestigious industry awards, including Industrial Solar Project of the Year for Classic Fashion, as voted by the Middle East Solar Industry Association (MESIA). The CEO of YDE, Jeremy Crane, has recently been named Solar Entrepreneur of the Year by MESIA and the Grand Master of Solar by Solar Quarter Magazine.

YDE representatives regularly speak at industry conferences to share best practices in developing successful solar projects in the MENA region.
BDO Jordan (Samman & Co)

Facts
Establishment Year: 1987 (Samman & Co.), 2012 (part of BDO International)
Number of Staff: 110

Services
• Sustainability Services: Environmental and Social Analyses, Sustainability Studies, Life Cycle Analysis (LCA), Standard Operating Procedures (SOPs), Transfer of Environmentally Sound Technologies (TEST), Material Flow Cost Accounting (MFCA), Resource Efficient and Cleaner Production Audit (RE-CPA), Emission Reduction & Climate Change Resilience Studies (CDM), Geographical Information System support (GIS), Awareness and Outreach Activities, Green Entrepreneurship.
• Water Management: Integrated Water Resource Management (IWRM), Water Sanitation Hygiene (WASH), Wastewater treatment consultancy, Water usage assessment and reporting, Water conservation analysis

Based on the BDO environmental policy and market demands, as well as the urgent need to substitute the present economic activities with the green activities to achieve a green investment, it has become necessary to provide consultancy services for various projects. This would support the protection of the environment and investment stability and sustainability. Therefore, BDO established a special department that focuses on those environmental services in all dimensions. BDO Jordan helps individuals and companies and communities to tackle potential risks, such as those brought on by climate change, and to overcome any obstacles to sustainability.

Consequently, the Green and Sustainability Services (GSS) department has observed links between financial issues and the environmental elements to decreasing greenhouse gas emissions from business activities; disclose the environmental impact of business activities and build risk mitigation plans and procedures; ensure that projects submitted to donors comply with the local and international environmental standards; aid to create applicable governance structures to manage risks at the managerial levels; develop procedures and practices to increase the revenues for the business; develop an eco-design to the start-up projects that aims to efficiently incorporate environmental criteria from the design stage to the client’s products, services, and business models.

Therefore, GSS at BDO Jordan utilizes knowledge-based services that improve operational performance, productivity, and efficiency while at the same time reducing costs, inputs, energy consumption, water consumption, and waste generation; all of which truly produce greener energy, reduce the carbon footprint, protect the environment, achieve sustainability, and achieve a quality management standard.

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Key Staff
Rami Samman
Manager Partner
Lutf Sayegh
Partner in Charge
Azzam Hamaldeh
Director - Consulting Services

Selected Projects

Engicon

Facts
Establishment Year: 1988
Number of Staff: 450

Services
• Architecture and Planning
• Water
• Environment
• Transportation and Roads
• Capacity Building and Development
• Engineering
• Construction Management and Supervision

Engicon is a well-established consulting firm that enjoys a wide presence across the MENA region and beyond with a project history since the company was established in 1988 by Marwan Zureiqat. With its 450-strong team of engineers and experts, Engicon operates across multiple offices and project sites covering the region. The firm has grown to become an engineering powerhouse with a long list of successful projects.

Engicon’s core solutions and services portfolio cover technical studies, engineering design and construction supervision in a wide array of sectors. The company’s teams have delivered a myriad of complex engineering projects with a scope of expertise focused on water, wastewater, sanitation, environmental engineering and services, transportation, energy, education, healthcare, architectural design and planning, urban design, planning and development and tourism. The core solutions and services portfolio covers technical studies, engineering design and construction supervision in a wide array of sectors.

Since its inception, Engicon has been a leader in implementing and promoting environmental issues, developing environmentally sensitive policies in all of its service provisions and project phases.

In 2006, Engicon started executing its well-structured expansion plans beyond Jordan. Since then, the company’s teams of engineers and experts have clocked thousands of hours in the markets of Saudi Arabia, United Arab Emirates, Oman, Qatar, Iraq, and Yemen.

Engicon remained a family-owned company until 2009. With human capital proving to be the driving force behind Engicon’s continuous success, the founder decided in 2009 to transition to an employee-ownership business model. The move might have sounded bold within the regional business community, but this was a natural upgrade to a long developing strategy. Today, more than a quarter of the employees own the company stock, including senior engineers and staff members.

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Subsidiaries
PRAXIS
Engicon CM
Adva Therm is a company established in 2012 after more than 25 years of personal experience in electrical systems, buildings, facilities maintenance and inspections.

Adva Therm has the experience, education, and the certification supported by an internationally recognized institution. In its inspections, Adva Therm uses Infrared Thermal (IR) Imaging, which is becoming more popular and widely used due to its outstanding technology and capabilities. As in any method of non-destructive testing, the interpretation of the information gathered takes both experience and knowledge.

As per the ASNT SNT-TC-1A, the certified thermographer who prepares the IR report should be holding a minimum Level 2 Certification License. Adva Therm exceeds this requirement and has a Level 3 Certification License, in order to increase the level of confidence and trust given to its clients.

Adva Therm infrared services, related to PV systems, electrical and mechanical systems, are dedicated to providing its clients with high-quality, customer-focused infrared thermal imaging services. The company strives for excellence in the infrared thermal imaging industry and strives to provide the best customer service, with superior field work and reports.

Before an electrical component burns up, it heats up. Thermography is used to see the excess heat (resistance) so that problems can be found and maintenance personnel can act to correct the problem before the component fails, causing damage to the component, safety hazards and or production downtime.

Taking a proactive approach can save you hundreds of dollars on emergency expenses. It allows you to stay in control of the situation and to stay on top of the problems, maintaining full functionality and comfort of your facilities, buildings and homes leaving more time for you to enjoy your facilities as opposed to being stressed about something “new” popping up.

Thermal imaging is a valuable enhancement to any proactive asset protection and maintenance program. Where investment is cost prohibitive, outsourcing infrared surveys is an affordable alternative to the purchase, upkeep and inevitable upgrade of thermo graphic hardware and software.

Since licensing in IR Thermography worldwide (which is required by most of the international standards) is comparatively expensive, Adva Therm plays the role to support and goes with the local market trend in providing the certification licensing training and exams at a very reasonable and affordable cost.

It is also important to note that Adva Therm is the only company in Jordan and the MENA region dedicated as a third party for Infrared Thermography Services, with the highest certification level worldwide.

Contact Adva Therm today to find out how it can deliver this exciting service and technology to your location and help to shift resources away from costly downtime, scheduled maintenance and into the more value-added activities that represent a true Predictive Maintenance program.
TÜV AUSTRIA - Jordan

TÜV AUSTRIA is an international company, established in 1872, with operations in more than 25 countries worldwide.

TÜV AUSTRIA promotes tailor-made services in the areas of testing, inspection, cybersecurity and data protection, training and further education.

More than 2200 employees in over 25 countries are working for TÜV AUSTRIA with customers and partners worldwide, generating revenues of more than $230 million.

Key Staff

Eng. Mohammed Najjar
CEO

Kallias Ioannis
Vice Chairman

Eng. Nour Hammad
Business Development Manager

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Selected Projects

TÜV AUSTRIA is specialized in LEED and EDGE certifications for both new construction and existing buildings; successfully administering the certification for many buildings under these rating systems.

 adaas Sustainable Development Consultants

adaa was established in 2017 with a great passion for making a sustainable change in the local and regional built environment. adaas is an independent innovative consultancy, working with architects and engineers on optimizing their building design performance.

The experts at adaas combine international experience in architecture and sustainability, backed by education and accreditation in the green building field. adaas facilitates the sustainable development of buildings, helping architects and engineers to design more efficient buildings that use less energy, water, and resources while being comfortable for occupants.

By applying state-of-the-art simulations throughout the design process, and best practice approaches in evaluating the potential performance of the design, adaas guides designers in selecting the best form, layout, massing, material, system and overall best-performing building and design.

adaas focuses on sustainable environmental design, linking architectural and engineering creations to environmental sciences, building physics, and performance simulation.

adaa is a pioneer in Green Building certification administration, with a track record of providing support throughout the design and construction phases and administering the certification process.

adaa Sustainable Development Consultants is specialized in LEED and EDGE certifications for both new construction and existing buildings; successfully administering the certification for many buildings under these rating systems.

Key Staff

Maysoon Al-Khuraissat
Founder & General Manager

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CEO

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Selected Projects

Selected Projects

Certificates

- LEED AP: BD+C
- USGBC Faculty
- EDGE Expert
- EDGE Auditor
- EDGE Trainer

Selected Projects

Selected Projects

Certificates

- LEED AP: BD+C
- USGBC Faculty
- EDGE Expert
- EDGE Auditor
- EDGE Trainer
Arabtech Jardaneh Group

Facts

- Establishment Year: 1962
- Number of Staff: 850+
- Establishment Year: 2015
- Number of Projects: Over 100

Services

- Architecture Designs
- Structural Designs
- MEP Designs
- Civil Designs
- Master Planning and Infrastructure
- Roads and Transportation
- Water, Wastewater, and Environment
- Project Development Management

Markets

- Jordan, KSA, UAE, Oman, Kuwait, Iraq and Palestine.
- Kuwait, Iraq and Palestine.

AJ Group is classified as a «1A» Consultancy firm in Jordan, in accordance with the classification of the Ministry of Public Works and Housing.

As a result of AJ Group’s continued growth in the CAMENA region, the group has been listed since 2010 and as one of the top 225 design firms in the world by the renowned American magazine Engineering News Record (ENR); and is among the top 25 Healthcare Consultants as well as among the top 25 Educational Consultants in the world.

AJ Group strives to achieve preeminence in architectural and engineering design services, while at the same time achieving an equal level of leadership in contract management and construction supervision services.

AJ Group staff are trained to have experience in performing to the highest international standards, and tailored to the needs of each particular environment and/or country.

The sectors served by AJ Group include Built Community (master planning hotels and touristic, commercial buildings and mixed use, educational and industrial); Community Healthcare; Community Mobility (roads, tunnel and bridges, railways, borders); Community Utility (water transmission and distribution, water collection and disposal, major infrastructure development); Sustainable Community (ESIA, energy efficiency and renewable energy, solid waste management); and Community Solutions.

Certifications

- Environmental Management System ISO14001
- OHSAS 18001 Occupational Health & Safety
- ISO 9001 System certification

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Selected Projects

- Ahli Bank PV 1.5 MW
- Lined Zibar Lagoon at AlElekdaer
- Water Supply Infrastructure Project 2010-2016

Elite Energy & Engineering (EEE)

Facts

- Establishment Year: 2015
- Number of Projects: Over 100
- (more than 600 MW).

Services

- Consultancy & Owner’s & Lender’s Engineering
- Solar PV and Wind Asset Evaluation
- Detailed Engineering for RE projects
- Techno-Economic Feasibility Studies
- Bid and Tender Management services
- Contract Administration & Review
- Infrared Thermography service
- Operation and Maintenance service
- Energy Conservation Studies.
- Product Fit and Market analysis

Projects

- Consulting and OE: Ocean fresh fish 1.2MWp, Rashid Hospital 1.2MWp, ScB Bank 835kWp, Al Faran Zoo project: KSA 1.4MWp (design verifications)
- OU JV with FB Engineering Office projects: Falcon project 23MW, Rajef Wind 80MW.
- Feasibility Studies: ZAIN Telecom 36MWp (preliminary technical), Nestle Water 3MW.
- Thermal imaging: AM solar 52MWp, Karak Municipality 3.6MW.
- TDD & Asset evaluation: 15 projects, total of 100MW

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Selected Projects

- AM solar 52MWp
- Mafra 60MWp
- Ocean fresh fish 1.2MW
Royal Scientific Society (RSS)

RSS provides a wide range of sustainable solutions in Energy, Water and Environment (EWE) different fields through two centres; the National Energy Research Centre (NERC) and the Water and Environment Centre (WEC) which are part of the Sustainable Solution Sector.

National Energy Research Centre (NERC) was established in 1972 for the purpose of research, development, consultancy and training in the fields of renewable energy and energy efficiency. The centre works on areas such as solar thermal energy, photovoltaics, geothermal, wind energy, bioenergy and energy efficiency. NERC is involved in different projects and programmes dealing with the development of energy efficiency and renewable energy technologies. NERC provides turnkey project solutions in addition to specific consultancy assignments such as techno-economic feasibility studies, energy audits, measurements and verification and performance measurements. NERC also operates specialised energy efficiency and renewable energy laboratories. The Centre is accredited according to ISO/IEC 17025:2017 by JAS and certified according to ISO 9001:2015 by Lloyd's. The centre has developed and supervised more than 42 photovoltaic projects - with a total capacity of 1.57 MW - since the issuance of the Renewable Energy Law in 2012. In addition, a wind energy project with a capacity of 1.65 MW was installed and running since 2014. Furthermore, 300+ detailed energy audits for different sectors were carried out.

WEC, via the cleaner production (CP) unit, helps industries improve production while reducing their consumption of resources. WEC has been collaborating with national and international partners to introduce the concept of Resource Efficient Cleaner Production (RECP) into the Jordanian industrial sector and has already carried out more than 80 RECP studies that resulted in savings of around 140 thousand cubic meter per year, and avoidance of around 8700 and 13,300 tons per year of waste and CO2 emissions respectively. Also, WEC annually conducts around 250 stack emissions and 150 working area air quality measurements for the local industries. WEC conducted more than 55 environmental impact assessment and environmental audit studies, in addition to many specialised studies in the areas of chemical management, hazardous material management, quantitative risk assessment, life cycle assessment, responsible production and eco-innovation. WEC plays a vital role in the protection of Jordan’s scarce water resources and introducing innovative conservation measures and tools through providing the relevant ministries with assessment of around 200 water sources by collecting and analysing around 1,800 samples annually. Over the past 3 years, WEC is estimated to have contributed to the conservation of about half a million cubic meters of water by installation of decentralized wastewater treatment plants, water harvesting, and other water saving technologies.

WEC operates an online real time monitoring system for surface water with 13 stations located in Yarmouk, and Zarqa Rivers in addition to King Abdullah Canal and inlet and outlet of King Talal Dam. This system is the only fully-automated online water quality system in Jordan and provides an hourly basis real-time water quality assessment to decision makers through a web-based link.

WEC contributes to protecting the ambient air quality (AAQ) through 11 fixed monitoring stations in the different areas of Jordan for the Ministry of Environment as part of the national AAQ monitoring network.

WEC also provides consultations and conducts studies on Food Security and Biodiversity. WEC contributes to improving the food security in Jordan through promoting smart agriculture techniques. WEC installed several vertical farming and hydroponic units in various urban areas in Jordan to boost food security and resilience of people, particularly poor urban settlers.

Selected Projects

- The MENA Region Initiative as a model of NEXUS Approach and Renewable Energy Technologies (MINARET)
- Solar Pumping Systems for 320 Farming Units in Jordan Valley and the Highlands
- Capacity building in Wind Energy and Concentrating Solar Power (WECS Project) in Jordan
- SwitchMed Transfer of Environmentally Sound Technology (TEST) Project for the Industrial Sector
- Water Innovation Technologies (WIT)
- Safe and Sustainable Wastewater Reuse in the Arab region: Addressing the Challenges

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Eng. Walid Shatin
Director of National Energy Research Centre

Dr. Almoayied Assayed
Director of Water and Environment Centre
Al Masoudia Electrical Industries Co. Ltd. (MASEICO)

Facts
Establishment Year: 1992 (Saudi Arabia), 2015 (Jordan).
Number of Staff: 56

Products
- Solar Structure and mounting systems.
- Hot Dip Galvanized Steel.
- Rack and support systems.
- Stainless Steel (304, 316).
- Aluminum sheets and Extruded Alloys.

Solutions
- Cable Trays and Ladders.
- Cable Glands and Lugs.
- Grounding and Lightening Systems.
- Junction Box.
- Solar Structures.
- Rack and Support Systems.
- Hot Dip Galvanizing.

Project
- Classic Factory (Irbid): Supplying 1.2 Mwp solar steel structure and all the required cable management system for the project.
- Crown Plaza Hotel (Petra): Supplying all the cable management system materials.
- Dar Al-Hekma (Head Offices): Supplying all the cable management system materials.
- Civil Consumer Cooperation: Supplying 180 Kwp solar steel structure.
- Ministry of Public Works & Housing: Supplying a guard rail system for roads.
- Ritz Carlton Hotel: Supplying all the cable management system materials.
- Arab Potash Company: Supplying all the cable management system and rack support.

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MASEICO was established in Saudi Arabia in 1992. Later on, in 2015, it transferred its 20+ years of experiences to Jordan. Since then, MASEICO has supplied the Jordanian market with high quality products matching international standards such as NEMA, IEC, BS, UL and ATEX specifications.

MASEICO offers a variety of solutions to suit all requirements of the Jordanian, Arabian Gulf and Middle Eastern markets; as well as materials, dimensions and designs.

A few years ago MASEICO decided to create a new production unit in Jordan. Thus, it was able to demonstrate its capabilities and to work with the biggest clients in their fields.

The factory covers an area of 15000 m² with CNC machines and high tech production lines. Products that are manufactured and supplied include Hot Dip Galvanized steel, Pre-Galvanized steel, Stainless steel (304, 316), aluminum sheets and extruded alloys.

The factory products cover many solutions, of various dimensions and even special designs such as Cable Trays and Ladders, Cable Glands and Lugs, Grounding and Lightening Systems, Junction Boxes, Solar Structures, Rack and Support System, and Hot Dip Galvanizing.

Products are being manufactured using the latest developed computerized machines and technology, guided by the required ISO certification and developed ERP and production systems.

MASEICO is a Jordanian factory that competes internationally and is one of the leading factories to provide high quality products at a competitive price, with 25 years of manufacturing experience.

The advantages of MASEICO systems include single-source solutions that aid in reduction of overall total project costs, a streamlined production process, a wider selection of components, heavy duty steel with corrosion protection, using less steel without sacrificing strength, pre-assembled components are available, quick response and efficient communication, all tested and approved based on the Jordanian Building Code.

MASEICO is a proven leader in manufacturing cable management systems and power products, also a proven leader in manufacturing solar energy systems requirements. •
Arar & Abdullah Trading Co.

Facts
Establishment Year: 1980
Number of Staff: 11

Services
- Technical Support selection & Design
- Site testing & commissioning
- Quick responding technical support.
- Stock availability.

Projects
- Rotana Amman Hotel (HVAC, Pumps, Water Boosters, Drainage/Sewage)
- SESAME Synchrotron-Light for Experimental Science
- Aqrar Power Plant.
- Kindi Hospital
- Sooq Bab Al Madinah Mall
- ICRC Pump Station
- Manaseer Palace
- SESAME - Project

Arar & Abdullah Trading Co. is one of the leading companies in Jordan providing water pumping systems and energy services. It is a family owned company which was established in 1980, started with buildings materials, ceramics and fittings starting to be specialist in pumping systems by 1989. The group started to supply renewable energy products in 2012 with solar heating systems, followed by renewable energy services through a subsidiary company called Generators for Solar Energy.

Arar & Abdullah Trading Co. covers all market segments including retail business, commercial, residential, educational, health, industrial and water management solutions. The company’s commitment to its clients ensures the delivery of added value to its product solutions.

Throughout three decades, the priority of the company has always been to deliver premium products followed by superior, reliable services which maintain the relationship of trust built with its clients. To achieve its goals in the local market, the company focuses on a talented and well-trained human resources. Its team of engineers and technicians creates a positive, friendly environment which leads to high levels of support and services to its beloved clients.

The company has many achievements such as sales of 4500+ pcs of circulators, 7000+ pcs of home booster pumps, 2500+ pcs of other pump products and 1800+ EWH’s units. Success stories by Arar & Abdullah Trading Co. include winning more than 30 bids of private and public tenders, delivering materials to 15+ high-end hotels and shopping malls of different aspects, 3+ big pumping stations (2500+ m3 daily), 300+ solar heater units, 30+ solar heating for high-end private villas, 5+ NGOs and collaboration with USAID for 50+ schools providing solar heating solutions.

Brands
- ARISTON
- THERMO GROUP
- wilo

Key Staff
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Sales Team Leader

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Head of Technical Department

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GEM (Green Energy Market)

Facts
Establishment Year: 2016
Number of Staff: 6

Products
- Cables and Accessories
- Energy Saver
- LED Lighting
- Solar system equipment (Solar panels, ABB Inverters)
- Solar water heaters and air heaters
- Poultry LED Lighting System
- Energy Auditing

GEM (Green Energy Market), was established in 2016. With the rise and increased demand in the energy market sector, GEM was established as a one stop shop retail company providing the market with various green energy products and solutions.

GEM’s vision does not only provide sales services, but also enhances educational activities for the public in energy conservation and renewable energy systems.

GEM’s mission is to aim to be a long-term market leader in the green and renewable energy sector, pursuing credibility through quality, safety, value creation, innovation, and respect for the environment.

The company bolsters customer confidence in the reliability of retail electromechanical products reflecting renewable energy generation; while expanding the retail market for electricity products incorporating renewable energy solutions.

GEM provides customers with clear information about retail clean energy products, to enable them to make informed purchasing decisions and to encourage the deployment of electricity products that minimize air pollution and reduce greenhouse gas emissions. GEM provides customers with detailed information regarding the exclusive products available and provides information and assistance for customers related to clean, correct decisions in business.

Brands
- SUNBIRD
- S&L
- HYUNDAI ENERGY
- ECOIGHT
- ABB
- SMA
- ECOIGHT

Key Staff
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CEO

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Team Leader

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Generators for Solar Energy

Generators for Solar Energy is one of the leading companies in Jordan, providing energy supply and services to the PV and water pumping sectors.

Generators is a family owned company established in 2014, as a daughter company to Arar & Abdullah Co., specializing in renewable energy services by providing a high quality list of products and services.

The company’s focus and specialty is to provide all engineering companies, consultants and installers in the Jordanian market with materials, equipment and machinery supplied from well-known brands. These are all provided with technical support, through well-designed technical support models with manufacturers.

This guarantees that clients not only get a good selection of manufacturers that will provide great experience to the end users, but also the adequate technical support to ensure that the process of design, installation, commissioning, monitoring and after sales service is to be accomplished at best practice levels.

Generators for Solar Energy company provides the best solutions in photovoltaic on grid systems using leading technologies, based on international standard products. During the past 3 years, the company started providing engineering companies and consultants with solar pumping projects under the “Design & Supply” concept.

The priority of the company was to deliver premium products followed by reliable services which maintain the satisfying relations built with clients over the past years.

The company management looks forward to expanding the business with strong product lines and high-end services, with the big support and trust of international partners.

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Brands
Jinko Solar KOSTAL

Selected Items
KOSTAL Products PIKO CI Project Farm Project

SPECTRO Electrical Equipment Co.

SPECTRO Electrical Equipment Co. is an extension of well-established companies in 1990 that operated in the fields of electrical and security systems, creating an excellent reputation for accuracy and precision in applications and products. SPECTRO Electrical Equipment Co. was established to reach out to the global market, while continuing to serve the local market, in the new field of renewable energy.

The values of SPECTRO Electrical Equipment Co. Include Efficiency, Service, Sustainability, Excellence and Team Work.

Regarding efficiency, the company keeps things simple, doing the work that adds value and avoids wasting money, materials, energy or time. In Service, SPECTRO puts the current and future needs of customers at the heart of everything it does. Sustainability is achieved by SPECTRO through ethical, responsible and balanced decisions and actions; helping to achieve environmental, economic and social well-being for current and future generations. Regarding excellence, SPECTRO strives to get better, smarter and more innovative and to be the best in everything it does. SPECTRO team work is demonstrated by its support towards colleagues, valuing them and enjoying working together as a team in an open and honest way.

SPECTRO products include renewable energy products (solar panels, inverters, batteries, charger controllers), Hybrid Air conditioners (solar thermal hybrid type, AC/DC type, full off-grid 48v type, Entretay AC type), Atmospheric water generators, solar energy generators, the highest quality UPS (Uninterruptible Power Supply), and diesel generators for prime and standby applications.

SPECTRO Electrical Equipment Co. covers the globe, as its market is the companies that are seeking a better world by using unique and high quality renewable energy products.

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Selected Items
• Diesel generator.
• UPS (Uninterruptible Power Supply)
• Solar energy generator.
• Atmospheric water generator.
• Solar energy generator.
• UPS (Uninterruptible Power Supply)
• Diesel generator.
Solarity

Solarity is an international distributor and solutions provider of photovoltaic (PV) systems offering a complete assortment of both on-grid and off-grid solutions, including modules, inverters, mounting systems and accessories to PV professionals in Europe, the Middle East and Africa.

The company has customers in more than 30 countries. It has delivered more than 100 large size projects and distributed over 550 MW in total.

Solarity business partners are installers, EPC contractors, wholesalers, distributors and manufacturers.

Solarity stands for flexibility, individual approach, trustworthiness and building on mutual trust, and long-term cooperation.

Thanks to a long partnership and collaboration with the biggest manufacturers on the market, Solarity makes sure to bring the latest smart technologies and the best services to customers.

Moreover, Solarity cooperates with leading shipping companies to provide competitive transport quotations to any part of the world. With most of the products in stock, Sularity can offer attractive prices and a flexible delivery approach.

Solarity is also keen to share the know-how and extensive experience in the field of photovoltaics. The services include tailored training for PV professionals in collaboration with industry-leading manufacturers.

The team members often speak at renewable energy-related conferences, but private sessions or training can be arranged as well.

The mission of Solarity is to provide the best solution on the market, with the aim of delivering the greatest value to the customer, either via the best quality or the best availability in stock.

Solarity is able to meet the needs of any customer, regardless of the size of the project and has experience with complex projects of 10 MW+. The company strives to deliver the best solution for the individual needs of each customer.

The company was founded in Prague, the Czech Republic, in 2011 and since then has expanded internationally with five subsidiaries around the world. There are currently offices in Prague, Bratislava, Budapest, Kyiv and Amman and Warsaw.

The office and warehouse in Amman were officially opened in February 2019. All the goods are delivered from the local warehouse and all the requests are handled by the local office.

Energy Technology Providers

Facts
Establishment Year: 2011 (Czech Republic), 2019 (Jordan)
Number of Staff: 67

Products
- Residential Offers
- Modules
- Inverters
- Energy Storage Systems EV Charging
- Mounting Systems
- Accessories
- Project Offers
- Modules
- Inverters
- Energy Storage Systems
- Mounting Systems
- Accessories
- Optimizers

Services
- Technical know-how
- Partner Program
- Local support
- Training
- Logistics

Markets
Amman, Prague, Budapest, Dubai, Kyiv, Warsaw and Casablanca.

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Solarity is an international distributor and solutions provider of photovoltaic (PV) systems offering a complete assortment of both on-grid and off-grid solutions, including modules, inverters, mounting systems and accessories to PV professionals in Europe, the Middle East and Africa.

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Facts & Figures
- EPC Installer in the Czech Republic, 2009.
- From EPC to distribution since 2011.
- Customers in 30 countries.
- 550 Mw delivered until the end of Q3/2020.
- 30+ manufacturers in company portfolio.

Selected Projects
Hunetti Complex – Amman – 102KWP
High Level Academy – Amman – 266KWP
Babel Industrial – Amman – 100KWP
Private Farm – Dead sea 130KWP
Private Farm – Dead Sea 80KWP

Certifications

Partners

Anniversary

Key Staff
Eng. Mu’ayyad Almomani
Country Manager Jordan
Eng. Ahmad Massad
Sales representative Jordan
Eng. Mohammad Hasan
Technical Engineer
Noor Khayyat
Administrative Support
Manal Bakeer
Marketing and Sales Support
Osama Al Salihi
Purchase and Product Specialist MENA
Catalyst Investment Management

**Facts**
- Establishment Year: 2006 (CMCF: 2016)
- Number of Staff: 18
- Target Projects Capacity: Over 400MWp
- Equity Available: $57M USD

**Services**
- Developing and investing in renewable energy and energy/water efficiency projects in the MENA region.
- CMCF also invests in SME’s.

**Projects**
- More than 109 MWp solar PV in operation.
  - Zara Solar (11+ MWp) with 100% Shareholding, COD in Q3 2019.
  - Falcon Ma’an (23 MWp) with 50% Shareholding, COD in 2016.
  - Shamsuna (10 MWp) with 100% Shareholding, COD in 2016.
  - SPEE Shapoorji – (65MWp)
  - Benban Solar Park Egypt (50 MWp) with 50% Shareholding, COD in 2019.
  - 65 MWp Solar PV under investment.

In 2011, Catalyst began its project development activities, being the lead developer for the 23MWp Solar PV project, Falcon Ma’an Solar Power (Jordan Round 1); and then launched CMCF in 2016.

CMCF has over $57M USD in equity and is backed primarily by European Government investors. CMCF developed, owns and operates two government and one private sector PV Power Plant of 44MWp total in Jordan and 65MWp in Benban Solar Park in Egypt. CMCF additionally is currently investing in 65MWp of Solar PV Projects in the region. With 174MWp in total up to date, Catalyst has the ambition to pursue additional 500MWp over the next 5 years.

Catalyst/CMCF’s principles of responsible investing are embedded in its Environmental, Social and Governance (ESG) Framework, which provides the structure and guidance for its investment team as well as its portfolio companies.

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Kingdom for Energy Investments (PSC)

**Facts**
- Establishment Year: 2007

**Services**
- Investing in power distribution and power generation (renewables and conventional).

Kingdom for Energy Investments (KEC) is one of the pre-eminent holding companies in Jordan investing in energy generation, distribution companies and utilities. Social Security corporation and Privatization Holding Company of Kuwait (PHC) own 70% and 30% respectively of KEC.

KEC strives to elevate the distribution utilities’ efficiency, capabilities and innovation to positively improve this sector across the Kingdom through having major shares in two of the three electricity generation companies in Jordan.

After a competitive tendering process in 2007, KEC acquired the government’s 100% shares in Electricity Distribution Company (EDCO) which in turn owns 55.4% in Irbid District Electricity Company (IDECO). These two utilities manage 55% of the country’s electricity distribution and cover 80% of its area in the North, East and South.

KEC also developed an interest in power generation companies, as part of its expansion and growth strategy. In 2017, KEC invested in Al Zarqa Power Generation Plant with a new Combined Cycle Gas Turbine (CCGT) being installed within the existing Hussein Thermal Power Station (HTPS) site.

KEC has a stake in the exceptional growth that Jordan is recording in renewable energy, as part of its responsibility to support disruptive technologies and to provide affordable, secure and clean energy to users. KEC has invested in four major Solar Photovoltaic projects in MaFraaq and Maan Development Area, with a cumulative capacity of 50 MW. These projects are expected to serve 60,000 customers annually.

In parallel to growing its investment portfolio and cultivating opportunities for sustainable and consistent revenues, KEC deeply believes in the essential role corporations play in developing the societies and environments that they function within. Thus, as part of its CSR, KEC generously contributes to local organizations and foundations aiming to help and support different sectors of the society.

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Jordan Oil Terminals Company (JOTC)

**Facts**

Establishment Year: 2015  
Number of Staff: 30-50  
Capacity: ASTPP 418.8 CBM, AOT 101.25 CBM, HFO 201 CBM

**Services**

Open-access storage provider offering world-class storage and handling for local and regional clients in the petroleum industry.

**Terminals**

- Amman Strategic Terminal for Petroleum Products
- Aqaba Oil & LPG Terminal
- Aqaba Heavy Oil Terminal

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Founded in 2015, Jordan Oil Terminals Company (JOTC) is a private shareholding company, wholly owned by the Government of the Hashemite Kingdom of Jordan. JOTC is the first independent, open-access storage provider in Jordan offering world-class storage, handling, for local and regional clients in the petroleum industry. To ensure that its services are provided on a fair, reasonable and non-discriminatory basis, JOTC abstains from purchasing, selling or trading petroleum products in the local market; hence, guaranteeing its status as an independent storage provider.

The mission of JOTC is to be the most trusted and preferred logistics services provider to the oil and gas industry in Jordan and the Levant, and to maximize long-term return to its shareholders.

The vision of JOTC is to be the most trusted and preferred logistics services provider to the oil and gas industry in Jordan and the Levant, and to maximize long-term return to its shareholders.

The core values of JOTC include a commitment to Health Safety Security Environment and Quality (HSSEQ), being customer oriented, courage, lean teamwork, integrity and responsibility.

Selected Projects

- Amman Strategic Terminal for petroleum products
- Amman strategic terminal for petroleum products
- Aqaba Oil Terminal
- Aqaba Oil terminal
- Heavy fuel oil terminal
- Heavy fuel oil terminal

**Customers**

- MANASEER Oil & Gas
- TOTAL
- INGAS
- JIP Petro

**Key Staff**

Kholoud Mahasneh  
General Manager

Ashraf Rawashdeh  
Technical Director

Wahid Naser  
Information Technology Director

Khaled Al Nimer  
Finance Manager

Mamdouh Al Shantir  
Internal Audit Director

**Conventional Energy Services**

Jordan Oil Terminals Company (JOTC) is a private shareholding company, wholly owned by the Government of the Hashemite Kingdom of Jordan.

JOTC is the first independent, open-access storage provider in Jordan offering world-class storage, handling, for local and regional clients in the petroleum industry.

The vision of JOTC is to be the most trusted and preferred logistics services provider to the oil and gas industry in Jordan and the Levant, and to maximize long-term return to its shareholders. JOTC has terminals in Amman and Aqaba. The Amman Strategic Terminal for Petroleum Products contains 14 storage tanks for petroleum products of 400 thousand CBM capacity, and 8 LPG spheres of 18.8 thousand CBM total capacity. The Aqaba Oil & LPG Terminal contains 6 storage tanks for Petroleum products of 90 thousand CBM total capacity and 3 LPG spheres of 11.25 thousand CBM total capacity.

Aqaba Heavy Oil Terminal is a reliable terminal that has 5 fixed roof tanks with a total capacity of 210 thousand CBM.

The core values of JOTC include a commitment to Health Safety Security Environment and Quality (HSSEQ), being customer oriented, courage, lean teamwork, integrity and responsibility.

Regarding Health Safety Security Environment and Quality (HSSEQ), JOTC is committed at all levels to protect the ecological system, and the health and safety of its employees and partners, by following international standards and procedures.

JOTC is a customer oriented company, which understands its customer’s needs, treats them equally and cares about sustaining a collaborative relation with them; by working hard to keep them satisfied by the quality of its services, and the high response to their requests.

JOTC seeks to continuously enhance the company’s sustainability strategy through several aspects including corporate governance, employee sustainability, occupational health and safety, environmental protection, social impact and citizenship.

JOTC provides storage and handling services through an unrivalled array of services for local and regional customers. The wide variety of liquid bulk products that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers that JOTC can store attracts customers.
Jordan Petroleum Products Marketing Company

Facts
Establishment Year: 2013
Number of Staff: 1500
Projects/Stations: 390+

Products & Services
- Gas stations:
  - Petroleum Products
  - C-Store
  - Restaurants, Café’s, Bakery, Sweets shops
  - Oil Change
  - Car Wash
  - Tires Services
  - Online Service
  - Jaw- Diesel Service
  - JO Card- Smart Card
  - Radio Frequency Identification (RFID)

Conventional Energy Services

Jordan Petroleum Products Marketing Company (JoPetrol) is a Jordanian company established in 2013 and fully owned by Jordan Petroleum Refinery Company (JPRC), representing its sole commercial arm to distribute petroleum products in the Kingdom.

Since its establishment in 2013, JoPetrol was distinguished for marketing and promoting diversified and high-tech products within the energy sector.

JoPetrol possesses, supplies and manages more than 390 service station distributed across the Kingdom, to ensure fulfilling the current and future energy requirements.

JoPetrol’s vision is to be the first energy resource reference in the local market and to provide products and services in line with the sector development and meets the world environmental, health and safety guidelines.

In terms of network, JoPetrol owns the largest market share and the largest modernized fuel transportation fleet in the Kingdom.

Part of its activities is related to supplying fuel for aviation and vessels, as well as supplying houses, companies, factories, and hotels with fuel for heating and operational equipment.

Also, JoPetrol provides vehicles with the finest petroleum products, oils, car wash and tires services.

Over the years, JoPetrol continues to keep pace with the latest technological solutions used worldwide through an experienced team and competent professionals.

With the rising of global demand for energy and rapid growth of competitive market, the supervision and quality control are a necessary requirement at JoPetrol. JoPetrol is keen to provide high quality services that suits all types of customers.

Complying with its strategic vision, JoPetrol announced the acquisition of Hydron Energy (Gulf) company in 2020.

JoPetrol pays special attention to corporate social responsibility and serving the local communities, by focusing on the enhancement of the social commitments, and by developing the local society by various aspects.

Selected Projects

- JoPetrol Headquarter
- Gulf-Mecca St. Station
- JOPETROL - Abdoun 2 Station
- Jopetrol Fleet
- JoPetrol-Al Dustour Station

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General Manager

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Algebra Intelligence

Algebra Intelligence is keen to offer smart energy solutions to reduce energy costs by up to 30%, through effective energy management practices that include assessing energy performance, setting energy-savings goals, and a real-time monitoring system. This will open gates for other corporations and operations to determine their energy efficiency which will result in acquainted management and decisions. Benchmarking is universally growing and dozens of facilities are earning the "Energy Star".

TaQTaK provides a user-friendly, comprehensive, detailed monitoring tool to accurately track near real-time ratings for the system that include energy consumption, power flow, weather data, and availability.

TaQTaK provides masterful notifications that move intelligently from monitoring to the next level; including active notifications summarizing day-by-day actions, and pro-active notifications delivering future-ready actions, to enable smarter control saving time and effort.

The TaQTaK performance indicator is an innovative delivery tool that imparts the system’s performance (PR) taking into consideration the effect of peripheral factors including temperature, irradiance, wind speed, humidity, and soiling. It operates according to international standards.

The maintenance management system is an easy-to-use, developed service on TaQTaK’s dashboard that allows users to request technical support in minutes; to help energy managers and organizations maintain profitability and disregard failure and downtime.

Energy forecasting is the machinery intellectual tool that gives future-ready data of the amount of energy consumption, generation, or both. This service allows AI algorithms to come up with near-to-accurate results for the upcoming hour to several hours.

The TaQTaK billing indicator is a customer relieving tool that provides expected billing costs for users on a daily basis before having received their actual electricity bill. It enables easy cost management and financial projections for users.

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CDO & Co-founder

Lafarge Concrete Jordan

Holcim Group acquired 51% of four ready mix concrete (RMX) companies in Jordan in 2008. These companies have a long experience in the RMX industry, as they have been in this business since 1980.

Two million meters cubed is the annual production capacity of Lafarge Concrete Jordan’s 14 production lines, which are working within 10 erected plants and one mobile plant. These plants are geographically spread all over the Hashemite Kingdom of Jordan to better serve customers.

Lafarge Concrete Jordan is applying the same international standards of Holcim, by pursuing the four core values that help the company serve its customers better every day and build for a better future. These core values are Health & Safety, Quality & Performance, Human Resources Development, and Innovation.

Regarding Health & Safety, Lafarge Concrete Jordan operates in accordance with world class standards to offer a safe work environment and to spread awareness of this culture in all working sites. The company also demands that its contractors and suppliers implement the same standards while working with Lafarge Concrete Jordan.

With regards to Quality & Performance, the plants of Lafarge Concrete Jordan are equipped with the same production system that equips Holcim RMX plants, producing concrete in fully automated batching systems to ensure delivering high quality concrete for its customers. Mix designs are built by the quality department and produced with no human intervention. More than 50 Laboratory tests are conducted at the biggest concrete laboratory in Jordan to certify raw materials and concrete in its different phases.

Regarding Innovation, Holcim strives to invent better building systems by proposing new innovative solutions. Accordingly, Lafarge Concrete Jordan offers a wide range of value added products to better meet customers’ different needs and challenges. The company launched the ECOPact product in order to reduce the CO2 emissions and to accelerate and lead the transition to more sustainable and innovative building materials for greener construction.

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Plastocrete
Cemcrete
Since 1986, ASTRACO has contributed to the strategic energy and power generation vision of Jordan and the neighboring MENA countries. In continuation to its well-known record in conventional power generation projects execution, ASTRACO has an impressive presence in the renewable energy sector since 2015.

ASTRACO provides high consideration to its corporate social responsibility strategy which is implemented through ASTRACO’s keen commitment to developing local communities in any of its project areas, with a strong belief of its valuable input to delivery of project’s goals and objectives.

The project is executed on a plot of land in Al Balqa Governate, where, despite the tough terrain, ASTRACO has successfully managed to complete the project as an EPC contractor within the scheduled duration maintaining excellent safety and environmental standards; maintaining the highest quality standards to deliver on time and to meet the client’s schedule and objectives of the project.

This solar park will generate 2,145 megawatt-hours of clean energy in its first year of operation, equivalent to reducing carbon emissions by 1,500 tonnes.

ASTRACO adapts a sustainable strategy that assures its presence with a continued growth as a leading EPC contracting company in the power generation and renewable energy market.
**Taj Mall and Safeway – 8.1 MW PV Plant**

**Project Facts**
- **Client:** Yellow Door Energy
- **Project Location:** Balqa Governorate
- **Project Launch Date:** May, 2019
- **Project Expected Completion Date:** January, 2022
- **DC nameplate capacity of 8.10 MWp.**
- **21060 JA Solar PV modules**
- **Monocrystalline modules of capacity 385 Wp.**
- **130 Huawei 50 KW String Inverters.**
- **Control Room.**
- **Security Surveillance System.**
- **390 Schletter Solar Fixed Mounting Structures**
- **6 Nos MV skids**
- **2 Delivery Stations**

The project is executed on a plot of land in the governorate of Balqa. Despite the tough terrain, ASTRACO has successfully managed to complete the project as an EPC contractor within the scheduled duration maintaining excellent safety and environmental standards. ASTRACO also maintained the highest quality standards to deliver on-time and to meet the client’s schedule as an objective of the project. ASTRACO adapts a sustainable strategy that assures its presence with a continued growth as a leading EPC contracting company in the power generation and renewable energy market. ■

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**Islamic Education College - Jubeiha**

**Project Facts**
- **Location:** Jubaiha
- **System size:** 832.65 kWp
- **Modules:** 2,379 REC half-cut panels
- **Inverters:** 18 ABB inverters (12 ABB Trio 50.0Kw, 4 ABB Trio 27.6Kw and 2 ABB Trio 20.0Kw)
- **Mounting:** Galvanized steel structure
- **Monitoring:** SolarLog 2000 system
- **Area:** System installed on 9 buildings
- **Commissioning Date:** 2019

The Islamic Education College awarded Be Solar for Energy Solutions the work on the design, supply and installation of its PV system for its second campus located in Jubaiha – Amman. The highlight of the project was the usage of REC’s newly launched Half-Cut technology, which has increased system capacity to be able to cover the total consumption of the whole campus with its 9 buildings.

Consisting of 2379 solar modules, the total name-plate capacity was 832.65kWp, saving over JD250,000 yearly, leading to a competitive payback period of less than 2 years.

After successfully installing the PV system on the various buildings and commissioning it within a highly restricted time-line, to avoid interruption of school programs, the system was finally commissioned in August 2019.

Being appreciated by IEC Board members, Be Solar has continued its scope of work for the project, offering comprehensive monitoring of the whole system and periodic maintenance and cleaning to ensure the maximum performance yielding. ■

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**Project Images**
Fresh Fruit Company

ETA-max Energy and Environmental Solutions provided Fresh Fruit Company with a turnkey solution for the design, procurement, installation, and commissioning of a wheeling ground mount PV system with a capacity of 1658.67 kWp to cover the electricity consumption of Fresh Fruit company in Amman.

Such an investment is very feasible for such a sector, due to the high electricity tariff and cost.

University of Jordan - Phase I

ETA-max Energy and Environmental Solutions provided University of Jordan (Phase I Project) with a turnkey solution for the design, procurement, installation, and commissioning of a wheeling ground mount PV system with a capacity of 11,400.48 kWp to cover the electricity consumption of University of Jordan’s buildings in Amman.

The plant was commercially operated in 2021 and produces 19,098 MWh annually. It saves up to 4,889,088 JOD/yr, with a payback period of 1.8 years.

Such an investment is very feasible for the educational sector, due to the high electricity tariff and cost.

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Royal Academy of Culinary Arts (RACA)

Izzat Marji Group has successfully designed, supplied, installed, and commissioned a large rooftop solar photovoltaic system for Arab Pioneers for Carpets and Rugs.

The system capacity is 1.89 MW, with an annual generation of 2,486 MWh. This system avoids more than 1,950 tons of carbon dioxide and saves 211,254 JOD annually.

The operation and maintenance are handled by Izzat Marji Group for the upcoming years.

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Arab Pioneers for Carpets and Rugs

Izzat Marji Group has successfully designed, supplied, installed, and commissioned a large rooftop solar photovoltaic system for Arab Pioneers for Carpets and Rugs.

The system capacity is 1.89 MW, with an annual generation of 2,486 MWh. This system avoids more than 1,950 tons of carbon dioxide and saves 211,254 JOD annually.

This system is transmitting electricity to the grid through the net metering regulation and is producing enough electricity to cover the majority of the factory electricity consumption.

The operation and maintenance are handled by Izzat Marji Group for the upcoming years.

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### Irbid City Center

**Project Facts**
- System Capacity: 6,420 KW
- COD: November, 2018
- Location: Ramtha governorate

Kawar Energy provided Irbid City Center with a turnkey solution for the design, procurement, installation, and commissioning of a wheeling ground mount PV system to cover the electricity consumption of the mall located in Irbid.

The plant was commercially operated in November 2018 and produces around 10 GWh annually. It saves up to 1,750,000 JOD per year, with a payback period of less than 3 years.

Such an investment is very feasible for the commercial sector.

### SESAME synchrotron

**Project Facts**
- System Capacity (AC): 6,480 KW
- COD: March, 2019
- Location: Amman Governorate, Jordan

This is the world’s first large Accelerator complex powered fully by renewable energy. A new solar power plant powering the SESAME light source in Jordan was officially inaugurated. In addition to being the first synchrotron-light facility in the Middle East region, SESAME is now the world’s first major research infrastructure to be fully powered by renewable energy.

SESAME (Synchrotron-light for Experimental Science and Applications in the Middle East) is a 2.5 GeV synchrotron light source that was officially inaugurated on 16 May 2017. It is the first light source in the Middle East, and also the region’s first true international center of excellence. There are some 60 synchrotron light sources in the world, including a few in developing countries.
Kempinski Hotel Ishtar Dead Sea (Wheeling Project)

Project Facts
- Location: Al Judaydeh and Sul Karak.
- Size: 9.87 Megawatt.
- Date of kick off: Sep 2016.
- Date of commissioning: May 2017.
- Area size: 190,000 m2.
- No. of PV modules: 29,909.
- Inverter type: String Inverter.
- Mounting Structure: Single Axes Tracker.
- Transformers: 8 transformer stations/33KV connection/switchgear.

In 2016, a joint venture between Mustakbal clean tech (MCT), Enerparc AG, and Massanat Engineering and Contracting (MECCO) was awarded an EPCOM contract for a 5.1MWp PV power station to serve the Kempinski Ishtar Dead Sea Hotel under a “wheeling scheme”. The turnkey PV solution was completed on time, in May of 2017, without claims and to the satisfaction of the client, United Saudi Jordanian Hotel and Tourism Co., owner of the hotel.

The plant uses a single axis tracking system, resulting in 30% more output compared to a fixed mounted installation. The project covers 70% of the hotel’s electricity needs, while the remaining 30% are covered in the new project in Sul Karak which was commissioned in April of 2018, with an overall capacity of 4.77MW. MCT is responsible for the operations and maintenance of the PV plant. These responsibilities include monitoring output, troubleshooting faults, generating output reports, security and cleaning of the PV arrays. To date, the average output of the system is approximately 2,200 kwh/kwp/year. The project is under a performance guarantee for the duration of the O&M period. TUV served as third party inspection, and 3G ERES was the owner representative of the project.

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Al Badiya

Project Facts
- Project capital: 38 million USD
- Project size: 23 MWp – 12 MWh (PV Grid Connected energy storage systems)
- Area size: 450,000 m2
- No. of PV panels: 82,350
- PV panel type: Polycrystalline 250 Wp & Polycrystalline 320 Wp each
- Mounting structure: Philadelphia Magnelis steel ground mounting structures (Model: PS-4H-Fixed) & Single axis trackers, Philadelphia Magnelis steel mounting structure (Model: PS-1P-Tracker)
- Phase I COD: 22nd October 2015
- Expansion COD: 18th February 2019

Al Badiya is a specialized power generation company, solely owned by Philadelphia Solar. The project was established on the 25th of November, 2013, with an area of 450,000 m2 and a startup capital of 22.5 million USD.

Al Badiya currently owns a 12 MWp power plant located in Al-Mafraq, Jordan, which has been operating since 22 October, 2015. The plant consists of 48,000 polycrystalline panels (250 Wp each) and Magnelis steel mounting structures (Model: PS-4H-Fixed) which were all made locally by Philadelphia Solar. In February 2019, Al Badiya operated an expansion of another 11 MW whereby the total operating capacity of the power plant became 23 MWp. This expansion consists of approximately 34,350 polycrystalline panels (320 Wp each), Philadelphia Solar made a state-of-the-art single axis tracking system (Model: PS-1P-Tracker), and a 12 MWh Lithium Ion energy storage system.

Tesla was selected to provide a 3MW/12.6MWh powerpack system paired with the 23MWp solar park in AlMafraq (12 MWp 1st phase + 11 MWp 2nd Phase). The powerpack performs multiple functions including renewable firming, ramp rate control, avoiding curtailment and proven network frequency support. The powerpack system further supports transforming Jordan’s movement towards renewable energy and sees an advancement of a resilient, modern and economically-efficient grid.

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Solar Park for Carrefour Majid Al Futtaim

Yellow Door Energy is the solar developer for Carrefour Jordan / Majid Al Futtaim’s solar park.

Located in Wadi Al Aash, Jordan, the solar park has a capacity of 17 MWp and will provide clean power to 37 Carrefour stores across Jordan; in line with Majid Al Futtaim’s Net Positive sustainability strategy.

With more than 49,000 solar panels covering an area as large as 50 football fields, the solar park will generate 29 million kilowatt-hours of clean energy in the first year of operation - equivalent to reducing carbon emissions across Carrefour’s operations by 20,000 tonnes.

As the build-operate-transfer (BOT) solar provider, Yellow Door Energy invested in, designed, built, commissioned and will operate and maintain the solar park.

In addition to generating clean energy for Jordan, the solar park also creates jobs and brings development to Wadi Al Aash. Over 200 Jordanian engineers and workers were employed to build the solar park, while hundreds of local landowners benefited from a new 7-kilometer road, as well as connection to Greater Amman Municipality’s utility services.

NERC Solar PV Pumping in Jordan Valley and the Highlands

Designed and implemented by the National Energy Research Centre at the Royal Scientific Society, this project involved the replacement of inefficient electrical and diesel irrigation pumps, and operating the 214 water pumps in the Jordan Valley and the southern valleys and 106 pumps in the highlands (Azraq, Mafraq and Madaba) on Photovoltaic PV solar energy.

All pumps at Jordan Valley, Southern Aghuar take water from irrigation ponds at the farms. The irrigation pumps are in turn fed by water from the King Abdallah Canal, through a pumping station and a gravity inlet owned and operated by the Jordanian Valley Authority (JVA); whereas the pumps at Highlands (Madba, Azraq, Mafraq) take water from irrigation ponds at the farms. The irrigation pumps are in turn fed by water from the water well at the farms.

The PV pumping project has focused on climate change mitigation, in which the project has assessed the farmer needs, engaging local communities in decision making, supporting and encouraging farmers to use clean energies, spread awareness of energy and water management and improvement of their livelihood, all in the framework of mitigating climate change impact. This project has adopted a bottom approach to determine and define measures needed to be implemented in reality.

The project was carried out in partnership with the Ministry of the Environment through the Renewable Energy and Energy Efficiency Programme (REEE II), which is funded by the EU and in cooperation with the Ministry of Water and Irrigation (Jordan Valley Authority “JVA” and Water Authority of Jordan “WAJ”).

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NERC Solar PV Pumping in Jordan Valley and the Highlands

• Replacement of 199 electrical pumps with solar PV pumping systems
• Replacement of 21 diesel pumps with solar pump drive systems
• 320 PVP system installed with total capacity of 4.3 MWp
• Amount of electricity that can be produced by 320 PVP systems is approximately 6,779,512 kWh/year
• Emission reduction from the operation of this system is estimated to be 4,167 tons of CO2-equivalent each year

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Water Innovations Technologies (WIT) (2017-present)

The objective of the Water Innovations Technologies (WIT) activity is to conserve water through the adoption of new water-saving technologies and techniques. The project is funded by USAID and managed by Mercy Corps.

WIT targets water conservation at the end user level, promoting practices to preserve, protect, and utilize water resources better. WIT achieves water savings by targeting the largest water users in the agricultural sector, as well as households and communities where water conservation technology adoption will provide the greatest possibility for water savings. Breaking down barriers to technology adoption requires interventions to operate with various levels of stakeholder groups in the stages of demonstration, early adoption, scaled uptake through finance incentives and advisory support.

The Royal Scientific Society (RSS) – Water & Environment Centre role in this project is to promote smart agricultural tools in northern highlands and Jordan Valley; demonstrate rainwater harvesting cisterns at public facilities in the targeted areas; construct and operate decentralized wastewater treatment demonstration sites; install dry sanitation demonstration sites; provide technical training sessions on installing and operating the aforementioned interventions; developing water-saving mobile applications, and conducting several social marketing campaigns to adopt good water conservation behaviours.

Adwa Maan (24MWp) for Alcazar Energy

The infrared thermography inspection of the PV power plant was requested and the inspection was planned to be executed in several phases.

The PV tracker system consists of 16 inverters with 66 trackers. 60 trackers have 3 combiner boxes each and 6 trackers have 2 combiner boxes each. Each combiner box is connected to 20 strings with a 19 Modules/String. The modules were 325 Wp, 330 Wp, and 335 Wp Monocrystalline from SunEdison.

Adva Therm tasks were infrared thermal imaging of all PV modules (72,160 units), MC4 Connections and Module junction boxes, 198 DC Combiner boxes, and 16 Inverter rooms including DC Isolating Switches, Inverter Panels, AC Electrical Panels, Transformers and MV Switchgear.

The final and most important part was to study, analyze and prepare a fully detailed Infrared thermal report which includes all and every heat anomaly analyzed in a separate page including temperature profile and the recommended solution with repair priority that conforms to international standards.
**Shamsuna Solar Power PV Plant**

Shamsuna is a 10 MW PV project that has been operational since February 2016, located within the Aqaba Special Economic Zone (ASEZ).

Lying within the sun-intensive Solar Belt, and with a yearly Global Horizontal Irradiance (GHI) sum of up to 2400 kWh/m², Shamsuna’s Aqaba Project has ideal conditions for solar energy production.

Shamsuna signed a 20 year-long Power Purchase Agreement (PPA) with the National Electric Power Company (NEPCO) in March of 2014.

The project area is around 180 dunums. The closest community is located in the City of Aqaba, with the Main Port Area at a distance of more than 14 km north of the project site. The project has an emissions reduction of approximately 12,100 tons of CO₂ annually.

Catalyst MENA Clean Energy Fund is a 100% Shareholder of Shamsuna since June 2018.

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**Zara PV Plant**

The Zara Solar Power PV Project is a Private Wheeling project servicing a hospitality group in Jordan.

The project consists of the design, engineering, procurement, construction and operation of a PV power plant with two different sites.

The sites are in Karak and Irbid Governorates, producing a total capacity of 11.2 MW. The power generated will cover half of the electricity demand by the hotels of the group. The project area in Karak is approximately 110,000m². The project site in Irbid is approximately 100,000m².

The total project has an emissions reduction estimated to be 13 tons of CO₂ annually.

Catalyst Investment Management - Jordan is a 100% Shareholder of Zara Solar Power.

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**Project Facts**

- Project Size: 10 MW
- Project location: Aqaba
- Operating Date: 2016
- No. of PV Modules: 40,320
- PV Modules Type: Poly crystalline 250 Wp
- Each Inverter Type: Central Inverter.
- Mounting Structure: Fixed structure.

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**Project Facts**

- Project Size: 11.2 MW
- Project location: Karak and Irbid
- No. of PV Modules: 30,685
- PV Modules Type: Mono crystalline 365 Wp
- Each Inverter Type: String Inverter.
- Mounting Structure: Single Axes Tracker.

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Al Khateeb Vegetable Farm

This is a 1MW plant for a vegetable farm in Ar-Ramtha, a city situated in the far northwest of Jordan. Ramtha covers 40 km² in a flat location, 30 km northeast of the Jordan River and Irbid.

Solarity supported Al Khateeb Vegetable Farm by supplying the main materials including Modules and Inverters.

The project features eight SMA Core 2’s, a Core 1 and the STP20, along with 540W Modules.

Solarity is an international distributor and solutions provider of photovoltaic (PV) systems offering a complete assortment of both on-grid and off-grid solutions, including modules, inverters, mounting systems and accessories to PV professionals. Therefore, Solarity’s goal is to support the client to achieve the best result. The mission of Solarity is to provide the best solution on the market, with the aim of delivering the greatest value to the customer, either via the best quality or the best availability in stock.

Solarity is able to meet the needs of any customer, regardless of the size of the project and has experience with complex projects of 10 MW+. The company strives to deliver the best solution for the individual needs of each customer.
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