

in Jordan's Energy, Water and Environment (EWE)

2024













Amman / Aqaba - Jordan

WWW.JORDANTERAWATT.COM







Amal launched a coffee kiosk to boost her sons' income.

Despite initial success, she faced a major obstacle with soaring electricity bills attributed to heating and refrigeration. Fortunately, she secured financing through MFW's Tagati loan to install a solar energy system.

Consequently, her monthly electricity costs plummeted from JD 200 to a negligible amount, ensuring sustainability and profitability.

For more information: 0778481113













RESIDENTIAL

HUAWEI SOLAR INVERTER (THREE-PHASE) SUN2000-3/4/5/6/8/10KTL-M1 (HIGH CURRENT)

INVERTERS

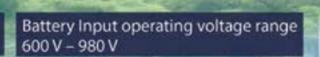
HUAWEI SOLAR INVERTER (SINGLE PHASE) SUN2000-2/3/3.68/4/4.6/5/6KTL-L1











Rated output power: 10 kW

Max. input voltage: 1100 V

High-efficiency inverter topology, Max. Efficiency 98.4%

Higher yields with up to 30% more energy with adaption PV Optimizer

Battery ready by direct Plug & Play, no extra device or any retrofit required Support Wi-Fi, 4G, Fast ethernet

Natural Cooling design

IV Curve Diagnosis Support

per MPP tracker: 2 / 1

no extra device or any retrofit required

Number of MPP trackers / Input number

Battery ready by direct Plug & Play,

Rated output voltage: 220 Vac / 380 Vac, 230 Vac / 400 Vac, 3W / N+PE











Who's Who in Jordan's Energy, Water & Environment (EWE) 2024

Welcome to the 2024 edition of the first and only publication in Jordan that includes profiles of Energy, Water and Environment companies and projects!

Who's Who in Jordan's EWE has been published by MediaScope, as a website and printed book, since 2017 and is it continuing to grow and evolve in its 7th edition.

We are also pleased to launch a new and enhanced website, at the same domain name of www.JordanEWE.com, which will enable companies to 'Claim' their company page, update it themselves, and upgrade it to include more information and services. Our website is currently the only updated source on Jordan's EWE sectors. It is receiving thousands of visits every week, from all over the world and also receiving specific inquiries from global and regional companies seeking partners and clients in Jordan. We, at MediaScope, are very proud of this.

Regarding the print edition, four thousand copies are printed and distributed free of charge, at local and regional events through professional associations and also directly delivered to decision makers. Kindly note that this publication is also available as a downloadable PDF, which achieves over two thousand downloads in every edition. You may also follow us on all social media channels (LinkedIn, Facebook and Instagram).



Who's Who in Jordan's EWE is published with the support of EDAMA Association for Energy, Water & Environment and the Jordan Green Building Council (Jordan GBC).

We hope that you, our readers and sector partners, benefit from this 2024 edition and wishing you all a successful year ahead. ■



in Jordan's Energy, Water and Environment (EWE)

www.lordanEWE.com

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டாவியப்பம் 🧠 🗆 Media**Scope**

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Who's in Jordan's Banking, Insurance and Who Financial Services

www.JordanFinancialServices.com

Layout By: Sama Philadelphia

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"More than just a bank"

GREEN BOND OF THE YEAR AWARD



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GREENER TOMORROW.

Explore pioneering sustainable financial solutions that foster

positive transformations for eco-conscious projects, leading to a

brighter and more sustainable future.

BEST GREEN PROJECT



BEST BANK



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 are:

· Advocacy and research

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- Business development
- Education and capacity development
- Communication and networking

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 events@edama.jo

EDAMA Members:

- Abour Energy
- · AES Jordan Co.
- Al Husainiyah Power Generation Company
- Al Masoudia Electrical Industries Co. Ltd. (MASEICO)
- Ali Sharif Zu'bi Advocates & Legal Consultants
- Aljidara Investment Services Co. Ltd.
- Ampere for Renewable Energy
- Aqaba Bulk Chemicals Co.
- Arab Bank PLC
- Arab Potash Co PLC
- Associated Transtech Contracting (astraco)
- Avla Oasis for Development
- · Bank Al Etihad
- Bank of Jordan
- Baynouna Solar Energy
- Cairo Amman Bank
- Capital Bank
- CRIF Information Technology Solutions
- CTGI
- Daehan Wind Power Co.
- Dar Al-Handasah Consultants
- Electricity Distribution CO
- Enefit Jordan B V/ Attarat Power Company
- Ernst & Young
- European Banking for Reconstruction &
- Fine Hygienic Holding
- Firas Balasmeh Corporation For Control Systems
- Fujeij Wind Power Company
- Housing Bank Trade and Finance
- Izzat Marji Group
- Jordan Bromine
- Jordan Kuwait Bank
- Jordan Mobile Telephone Services (Zain)
- Jordan Modern Oil & Fuel services (Manaseer Oil & Gas)
- Jordan Oil Terminals company JOTC
- Jordan Petroleum refinery
- Jordan wind Project Company
- Kawar Energy
- KEMAPCO
- Khalifeh and Partners Lawyers
- · Kingdom For Energy Investments
- Meridiam Jordan PSC
- Mitsubishi Corporation
- Modern Arabia for Solar Energy PSC
- · Mustakbal clean tech
- Orange- Jordan Telecommunication Company
- PanMed Energy

- Price Water House coopers (PWC)
- Pricewaterhouse Coopers "Jordan"
- Saed Karajah & Partners
- Sanad Law Group
- Scatec Solar
- Shams Maan Power Generation
- T.Gargour Holding
- Tamkeen Leasing Co.
- The Illumine Initiative
- Yellow Door Energy Limited Jordan

Associations & Organizations

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?

The Jordanian population is 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. Therefore, the demand for buildings is getting bigger, calling for an immediate and urgent action towards implementing 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, Jordan Green Building Council (Jordan GBC) is a non-profit and non-governmental organization and member-based association which has taken upon 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, Jordan GBC aims together 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 projects and business opportunities for its members to be a part of. Furthermore, 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 frontline across all segments of the building sector, for a green and sustainable industry and economy. Additionally, Jordan GBC partners with public sector agencies, to create and establish a stronger policy level that would promote and enhance the existing programmes and projects of national sustainable growth.

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:

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- 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.

Jordan GBC publications include LEED Gap Analysis (2011-2012), Advocacy for Forests (2012-2013), The Public Action for Water, Energy and Environment Project (2012-2014), Energy Efficient Building Course development (2013-2014), Eco Cities of the Mediterranean (2014), Anti-littering campaign (2014), Mini checklist (2014-2017), Solid Waste Management Training Program (2015-2017), Dawerha - Civil society engagement through communal waste management schemes (2015-2017), Your Guide to Waste Management in Jordan/Booklet (2016), Your Guide to Green Buildings/Booklet (2017), Green Affordable Homes (2017-2018), Your Guide to Building Envelope Retrofits/Booklet (2018), Sawsana Rating Tool (2017-2019), Retrofitting Component in the Existing Residential Building in Jordan (2018-2019), Energy Benchmark for Residential apartments in Amman /Booklet (2019), Green City Action Plan – Amman (2019-Present), Building Efficiency Accelerator (2019-2020), NetZero Buildings in Jordan (2020), Residential Energy Efficiency Retrofit Program and Certification Scheme for Jordan (2020).

For more information, contact Jordan GBC at telephone numbers +962-6-4645777 or +962-79-7210054 or at info@jordangbc.org. You may visit the JGBC website at www.jordangbc.org ■

Corporate Members

- Platinum Members:
- Aramex International
- BDO Jordan
- Consolidated Consultants Engineering and Environment (CC)
- Dar Al-Handasah Consultants
- Jordan Kuwait Bank
- Lafarge Concrete Jordan
- Manaseer Industrial Complex
- Jordan Ahli Bank
- Orange
- Oatrana Cement Company
- The Housing Bank for Trade and Finance
- Arabtech Jardaneh
- Universities:
- Applied Science Private University
- Middle East University
- Philadelphia University
- University of Petra
- Gold Members:
- Arab Technical Group Co.
- ETOM CONSULTANT ENGINEERS- ECE
- Building Ranks
- Izzat Marji Group
- Laswi and Zalloum Law firm
- Andersen Tax Legal
- Jordan Phosphate Mines Co
- Embassy of Canada to Jordan
- Mieyar
- Silver Members:
- Adaa Sustainable Development Consultants
- Arab Italian Waterproofing and Insulation Industries Co. W.L.L

- Amman Studio for Architecture, Landscape & Interiors (ASALI)
- Arab Technical Construction Co.
- AWJ WATER ENGINEERING Co. Ltd.
- Babel Contracting Company Babel Real Estate Development Co.
- Creator for Certifications Services (TUV)
- DON CONSTRUCTION PRODUCTS (DCP)
- Eco Engineering and Energy Solutions (ECO SOL)
- Faris & Faris Architects
- Hill House Preschool & Kindergarten
- Haddadin Engineering Co. for Contracting
- Inside Out Design
- Jordan Land Team for Consultation and Development/ Jordan Land Magazine/ Jordan Land for Real Estate Investment and Development
- MINERVA for Engineering Studies and Consulting Ltd
- Madi and Partners Consulting Engineers
- Mostaqbal Engineering and Environmental Consultants
- MK Associates
- Petra Engineering Industrial Co.
- POLARIS Energy Sustainability Solutions
- Rugn Al Handasa
- Sanabel Landscape Architecture | Urban Design & Planning
- The Royal Society for the Conservation of Nature (RSCN)
- Wajih Contracting Co
- National Energy Solutions Co "Mahatta Energy"

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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.

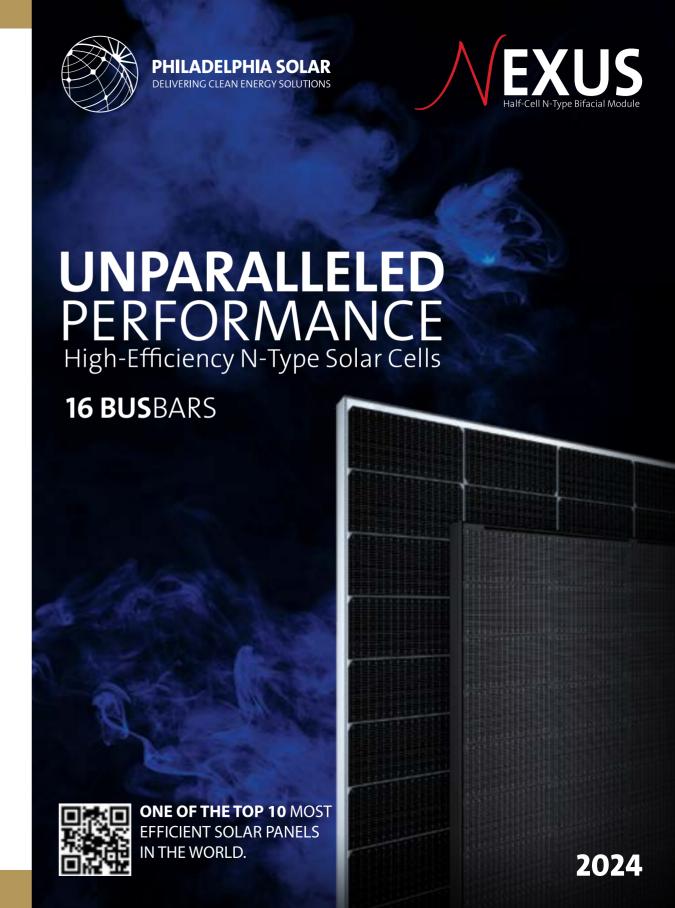
AREC activities:

- 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.
- International Investment Forum for Renewable Energy and Energy Efficiency.

For more information, contact Eng. Mohammed Al Taani, General Secretary, at email address mnqtaani@gmail.com or phone number +962-77-7418782. ■



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 combatting 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

JEU Members: Royal Society for Conservation of Nature (RSCN), Jordanian Royal Ecological Diving Society (JREDS), Jordanian Friends of the Environment (JOFOE), Jordan Green Building Council (JGBC), Darajati Environmental Conservation Society (DECS), Jordanian Society for Desertification Control and Badia Development (JSDCBD), Energy Conservation and Environment Sustainability Society (ECESS), Green Generation Society (GGS), WADI NGO for Sustainable Ecosystems Development (WADI) and National Center for Environmental Justice (NCEJ).

Board Members (2019-2022): Omar Al Shoshan (MIRRA), Omar Tahboub (JGBC), Raouf Dabbas (JoFoE), Ismail Atyat (ECESS), Mohammad Al Awaideh (DECS). ■





يقدم البنك الوطني لتمويل المشاريغ الصغيرة حلول تمويلية مخصصة لتلبية احتياجات الأفراد والشركات الراغبة في الاستثمار في حلول الطاقة المتجددة من خلال تركيب أنظمة توليد الطاقة من الخلايا مثل أنظمة الخلايا الشمسية، والتي تسهم في تحسين استهلاك الطاقة للأعمال التجارية وتقليل التكاليف، وتعزيز الممارسات المستدامة داخل المجتمع ليس فقط لتقليل الأثر البيئي المرتبط بمصادر الطاقة التقليدية، ولكنه أيضًا يتماشي مع الجهود العالمية للتصدى لتغير المناخ.



للمزيد من المعلومات 062001010

Renewable Energy Establishments Society (REES)



جمعية الشركات العاملة في مجال الطاقة المتجددة وإدارة الطاقة RENEWABLE ENERGY ESTABLISHMENTS SOCIETY & ENERGY MANAGEMENT

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 serve 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 Minster 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.

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 079-9417272 or at CEO@REES-JO.com

REES Members:

- Abou Elenein Energy and Engineering Services
- Al-Hussam For Renewable Energy Solutions
- Al-Manhal Renewable Energy
- Al-Masoudia Electrical Industries Co. MASEICO
- Altayseer for Trade and Industrial Investments Ltd.
- Arab Technical Group (ATG)
- Arab Towers Contracting Company (ATCCO)
- Billeh Electrical Materials Co.
- BS Solar
- Eco Engineering and Energy Solutions (ECOSOL)
- ETA-max Energy & Environmental Solutions
- Future Sun for Renewable Energy Systems
- Gazania Solar Systems
- Generators for Solar Energy
- Ishraq Energy
- Ideal Solar Energy Co. Ltd.
- IDHAL for Solar Energy Solutions Est.

- Izzat Marji Group (IMG)
- Jet Contracting
- Jordan Modern Co. for Energy
- JUSOOR for Renewable Energy
- Meroun Green Solutions Co.
- Bensyan Engineering and Technology Co.
- Mustakbal clean tech.
- Pivot Jordan
- SIERA for Renewable Energy Services
- Sima Industries for Renewable Energy W.L.L.
- SMA
- Solar Supplers Co.
- Technical Methods for Energy Systems
- The Contractor for Energy
- Total for Contracting & Electromechanical

REES AEE Amman Chapter



AEE is a non-profit organization dedicated to serving its members and other industry professionals who are working to improve energy efficiency to save energy, reduce GHGs, make buildings perform better, and help reach global goals for Net-Zero.

The vision of AEE is to lead the global energy community to meet the challenges of a clean and sustainable future.

Its mission is to shape the future of the energy industry through networking, energy awareness, education, training, professional certification, and recognition.

REES AEE Amman Chapter was established in 2019. Since then, the chapter has been working closely with all AEE members in Jordan to make an effective representation of the AEE organization in the United States of America.

In 2021, the chapter received its full certification and progressed from being an "Under Development Chapter" into a "Chartered Chapter".

The services of the chapter include providing technical lectures, webinars, seminars, and field trips. As an approved training provider, the chapter is the exclusive entity in Jordan to conduct training courses and exams.

The chapter is also supervising the local universities' chapters in Jordan and provides assistance whenever possible.

REES AEE Amman Chapter provides the following certifications:

- Certified Energy Manager® CEM®
- Business Energy Professional BEP®
- Energy Efficiency Practitioner EEP™
- Certified Industrial Energy Professional- CIEP™
- Certified Measurement & Verification Professional® CMVP®
- Certified Lighting Efficiency Professional CLEP™
- Certified Energy Auditor CEA®
- Certified Building Commissioning Professional CBCP®
- Certified Performance Contracting & Funding PCF™
- Certified Water Efficiency Professional CWEP™
- Certified Renewable Energy Professional REP™

The current members of the board are:

- President: Eng. Rabea Sawaged (CEM, CEA, EEP, REP, CRM). He is the Co-founder and Technical Manager at ETA Max Energy and Environmental Solutions, with more than 15 years of experience in energy efficiency, renewable energy, and training. Authorized trainer by AEE.
- Vice President: Eng. Anas Al-Asmar (CEM, CMVP, CLEP, REP). He is Technical Advisor Energy Management & Energy Efficiency at GIZ, with more than 15 years of experience in the energy management sector (Energy Efficiency and Renewable Energy); and is an authorized trainer by AEE, JEA, and RCREEE.
- Treasurer: Eng. Shifa'a Al-Khatatbeh (LEED AP, CBCP, CEM, CEA, CLEP, REP). She is the Energy Efficiency
 Division Manager at Izzat Marji Group, with more than 18 years of experience in energy efficiency, Green
 Buildings, and HVAC systems; and an authorized trainer by AEE.
- Secretary: Eng. Farah A. Qaqish (REP, FFAC, PMP). He is Deputy GM REED at Izzat Marji Group, with more than 14 years of experience in renewable energy and HVAC systems; and is an authorized trainer by AEE.

For more information, contact REES AEE Amman Chapter at 079-7838643, info@aee-Jordan.com or visit www.aee-Jordan.com ■

The Friedrich-Ebert-Stiftung (FES)



The 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. FES shares the core values of social democracy which are freedom, justice and solidarity. As a non-profit institution, FES organizes its work autonomously and independently.

FES has stepped up its work on climate change and energy issues in the MENA region since the establishment of the Regional Climate and Energy (C&E) Project in Amman in 2013. The C&E Project is working actively, regionally and locally, under the three thematic fields of Just Energy Transition, Climate Justice, and Social and Sustainable Cities.

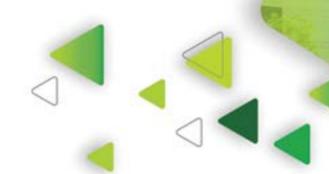
The C&E Project MENA supports various civil society groups and state institutions in their search for progressive approaches to climate and energy policy. It strengthens civil society organizations and cooperates with trade unions, the media, state actors at all levels, and research institutions to promote and achieve a socially just energy transition and climate justice in the region.

Climate and energy policies should not be designed in isolation from social developments. The work of FES Regional Climate and Energy Project links these two aspects and attempts to contribute to a socioecological transformation of societies in the MENA region. In doing so, it critically examines individual Sustainable Development Goals (SDGs) that are of particular importance for the climate and energy policies of the respective countries.

In cooperation with different partners, FES provides capacity building, produces policy papers and organizes discussion events to inform and give recommendations to decision makers on a just energy transition, climate justice and social and sustainable cities.

The work and publications of FES Climate and Energy Project MENA can be accessed through the website Mena.fes.de, Facebook page: Fb.com/fesmena or Fb.com/FESJordanOffice and Twitter: @fes_mena ■





Be Part of Our **Green Building** Movement.

Jordan GBC Pillars



Memberships & Outreach

- Green Services
- Green Podiums
- Networking



Public Advocacy - Green Policies

- Private / Public Dialogue
- Awareness Campaigns



Innovation & Research

- Projects
- Publications
- CSR



Green Academy

- Courses
- Awareness
- Capacity Building
- Initiatives

Get Involved!

Follow us on our social media accounts for latest news on projects, courses, announcements & more ...



jordangbc



www.jordangbc.org



@jordanGBC







Jordan Green Building Council

Register with us as a member to gain priority!

Memberships and Outreach Officer



The Jordanian-German Energy Partnership



The Jordanian-German Energy Partnership is commissioned by the Federal Ministry for Economic Affairs and Climate Action (BMWK) and the lead executing agency is the Ministry of Energy and Mineral Resources (MEMR).

Overview

The Government of the Hashemite Kingdom of Jordan and the Government of the Federal Republic of Germany signed a Joint Declaration of Intent (JDoI) to establish an energy partnership in April 2019. The Federal Ministry for Economic Affairs and Climate Action (BMWK) commissioned the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) to support the establishment and implementation of energy partnerships in a number of countries, including Jordan.

Energy Partnership

Jordan has made remarkable progress in the field of renewable energy over the past few years. The country has witnessed a rapid rise in installed solar power capacity and its share to the grid, contributing less than 1% in 2012 and growing to 27% by the end of 2022; making Jordan one of the leading countries in the Middle East and North Africa (MENA) region in renewable energy adoption and clean energy growth.

Germany has strong experience in the development of a mature renewable energy market as a result of its energy transition experience. Thus, the Jordanian-German Energy Partnership offers a particularly well-suited platform for cooperation and knowledge exchange on renewable energy and energy efficiency as well as all other aspects of innovative energy policy.

Objective

The main objective of the Energy Partnership is to stimulate the exchange of experience in order to improve and develop sustainable energy infrastructure, in particular through the increased use of renewable energy and energy efficiency.

Within the framework of the Energy Partnership, it is thus envisioned to share information on and support of developments for the renewable energy sector and energy efficiency in Jordan. This will be done by the Energy Partnership in its role as a platform for knowledge exchange and through the support and coordination of dialogue between stakeholders.

Success

- Establishing the Energy Academy of Germany and Jordan
- Establishing the Jordanian-German Energy Business Council
- Supporting the role of women in the energy sector
- Organizing workshops regarding grid development, smart metering, digitization, and market liberalization
- Launching Energy Innovation Platform which is developed by the German Jordanian University.
- Supporting and updating the Jordan National Energy Efficiency Action Plan (NEEAP)
- · Developing a strategy to improve the electricity grid's capacities to integrate renewable energy
- Encouraging expert exchange

Approach

This project essentially contributes to both countries, learning from each other's experience in the energy transition. In this way, Jordanian experts can be made aware of the challenges that the country faces during its transition. In addition, training sessions are often conducted for the staff of the Ministry of Energy and Mineral Resources along with regularly arranged government meetings meant to enable intensive political and professional exchange between German and Jordanian decision-makers. For more information visit the website at www.energy-jordan-germany.org

WADI for Sustainable Ecosystems Development (WADI)



WADI for Sustainable Ecosystems Development (WADI) is a local non-governmental organization founded in December 2018.

The work of WADI focuses on promoting best practices in the production of high-quality native plants and the restoration of degraded ecosystems, while actively engaging the local communities to ensure the long-term sustainability of its activities. WADI's vision is to become a regional center of excellence in ecosystem restoration.

WADI's work centers around the establishment of community-based nurseries dedicated to propagating high-quality native plants. These plants are crucial for the restoration of Jordan's forests and rangelands. 90% of Jordan's land is arid and threatened with desertification.

Local community engagement and training are central to WADI's adopted methodology for ecosystem restoration as the key for long-term sustainability, which would improve adaptability to climate change adversities, protect biodiversity and contribute to long-term food and water security.

With focus on women and youth, WADI has since its inception created more than 1,500 short-term economic opportunities and more than 60 long-term jobs and trained more than 3,000 people on natural resource management and ecological restoration techniques.

To date, Wadi has also produced more than a million high-quality native seedlings using water-saving irrigation techniques and has worked on the rehabilitation of 2320 hectares of land, with a survival rate for planted seedlings reaching almost 80%.

Presently, the organization oversees six partner native plant nurseries situated in diverse areas and ecosystems across the Kingdom including Al-Salt, Madaba, Al-Mafraq, Azraq, Wadi Rum and Jerash.

WADI takes pride in having Her Highness Sharifa Zein bint Nasser as its Honorary Chairperson. The oversight of WADI is entrusted to a board of seven accomplished board members, all deeply committed to WADI's vision.

WADI has strong and growing partnerships which span multiple sectors. Partners of WADI include the United States Forest Service, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), the Mitsubishi Corporation, the Ministry of Environment, 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), Disi Women Cooperative, the Carob Farm, the National Center for Agricultural Research (NARC) and others.

22 Associations & Organizations Associations & Organizations

Alryadeh Est. for Electricity & Renewable Energy



Facts

Establishment Year: 2018 Number of Staff: 25 Total Projects Capacity: Over 50MW (supplied), over 2MW (installation)

Services

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

Markets

Jordan, Syria, and Lebanon.

Projects

- Al-Bateky Halls
- Shaheen Complex
 Al-Asalah Furniture
- TKM Furniture
- Al-Redwan Furniture
 Vision for TV Production
- Vision for IV Productio
- Habiba Hypermarket Habiba Stores
- Mosques

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- Commercial projects
- Residential projects

Established in 2018, Alryadeh has firmly secured its position as a reputable entity in the energy sector, obtaining the Class A license from EMRC. This license not only attests to the company's legitimacy, but also positions Alryadeh as a trustworthy player, reinforcing its commitment to excellence in the realm of energy solutions.

The core strength of Alryadeh lies in the expertise of its skilled engineers, who specialize in the meticulous design and installation of renewable energy systems across the Kingdom. These systems are crafted with precision, adhering strictly to international codes, particularly emphasizing the robustness of steel structures. This commitment to international standards ensures not only the effectiveness of installations, but also their longevity and reliability.

What truly distinguishes Alryadeh is its holistic approach to energy solutions. Beyond engineering proficiency, the company seamlessly integrates the supply of essential materials into its service portfolio. This includes the provision of electricity cables, circuit breakers, panels, and PVC components - all offered at highly competitive prices. As exclusive dealers, Alryadeh is proud to represent distinguished brands such as RE, Laroup, Must Inverters, Elettro Brecia, and Fanton. This exclusivity ensures that the company's partners gain privileged access to state-of-the-art products, further solidifying the quality of their projects.

On a global scale, Alryadeh extends its influence as the exclusive agent for the renowned RE brand. This role encompasses not only delivering cutting-edge lighting systems and electrical supplies, but also tailoring these offerings to meet the diverse needs of residential and industrial projects. Additionally, Alryadeh's representation of Laroup involves

supplying flexible UPVC conduit and waterproof junction boxes and, in collaboration with Elettro Brecia Cables, to excel in providing topnotch DC cables. As an Authorized Distributor for MUST, Alryadeh's commitment to comprehensive solar solutions is evident, covering inverters, lithium batteries, and the entire spectrum of solar off-grid systems.

In strategic collaboration, Alryadeh operates as a partner in Aswar Alquds for plastic industries, a leading manufacturer specializing in high-quality pipes for water and electricity applications. This partnership not only enhances Alryadeh's capabilities, but also underscores its commitment to diversification and excellence.

Crucially, Alryadeh's commitment to sustainability is more than a principle – it's a guiding philosophy. This commitment extends beyond its partnership with Aswar Alquds; ensuring that every EPC contractor and solar project associated with Alryadeh receives not only cutting-edge technology, such as solar panels and inverters, but also the necessary materials for seamless implementation. This proactive stance aligns with the company's vision of creating a sustainable future through responsible energy practices.

In essence, Alryadeh is not merely a provider of energy solutions. It is an architect of excellence, a beacon of trust, and a driving force in shaping a sustainable energy landscape. The company's journey is marked by precision, exclusivity, global impact, strategic partnerships and, above all, an unwavering commitment to sustainability – values that resonate in every project it undertakes.

Alryadeh's material supply accomplishment is that is has successfully delivered a range of materials, including lighting, electrical, and power components,

for both industrial and residential projects. Additionally, it has exceeded 50MW in material supply for solar projects in Jordan, Syria, and Lebanon. The company operates in Jordan and the Middle East. Regarding sustainability, Alryadeh integrates sustainable practices into all projects for environmental responsibility. The solar projects capacity delivered demonstrates the capability of Alryadeh to handle solar projects exceeding 2MW.







Selected Projects













Key Staff



Rami Drou General Manager



Mo'men Drou Sales Manager



Ahmad Drou Store Director



Mohammad Abuwardeh Projects Engineer

ALTAYSEER Co.



Facts

Establishment Year: 1978 Number of Staff: 100+

Services

- Distribution and Turnkey (Renewable Energy Engineering Solutions, HVAC Engineering Solutions)
- Mechanical Engineering and Plumbing Solutions
- Heatpumps for Heating
 Systems and Swimming Pools
- Solar Thermal Systems, Gas Boilers and Underfloor Heating (Engineering Design, Supply and O&M)
- Kitchen, Sanitary Ware and Bathroom Accessories

Projects

- Wheeling
 Abdali Mall
- Fakhr Eldin Roastery
- Kharma Complex
- Net Metering
 Abdali Mall
- Gulf International Packaging Co.
- Masa Plaza
- Future for Plastic Industries
- Khalil Al-Rahman Society
- Municipality of Irbid Workshop Buildings
- Aram Heavy Equipment
- Eshraq Educational Schools
- Al-Hallabat School - Al-Faisaliah Health Center
- Sami Al-Shamaileh Mosque
- Jordan Eye Center
- Sumaia Palace for Weddings
- Al-Tadawi Pharmacy
- Dr. Ahmad Asha Medical Center
- Rajai and Mohammad Al-Malak For Trading
- Redesign and Maintenance
- Mooneh Trading Co.
- American Outlets

Contact

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Tel: +962-6-5373711 +962-79-6182228 Fax: +962-6-5373715 P.O.Box 1438 Amman 11821 Jordan info@altayseer.jo www.altayseer.jo 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 Heating, Cooling and Renewable Energy Systems including leading brands in Air Conditioning. Heatpumps, Gas Boilers and Solar Thermal Systems.

Along with the mechanical engineering and manufacturing sector, ALTAYSEER Co. initiated a Renewable Energy department in 2016 that is specialized in the Distribution of PV products, and in the Engineering, Procurement, Construction (EPC) and Operation and Maintenance (O&M) of PV 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 a 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).

ALTAYSEER Co. is the authorized distributor of SMA Inverters, Solis Inverters, Trina Solar, Σ Mounting Systems, Grace Solar, and Top Cable. Up until now, ALTAYSEER Co. has supplied more than 60 megawatts of solar PV inverters, modules, mounting systems and other PV accessories to renewable

energy companies in the Middle East and Europe. ALTAYSEER Co. not only offers a one stop shop for PV products, but also has a professional technical support engineering team that provides after sale support for the PV products and therefore assures the optimum operation over the product entire lifecycle.

Further to the distribution of PV products, ALTAYSEER Co. is known for its innovative EPC and O&M implementation capabilities for small scale and mega scale PV projects with a portfolio of more than 8 megawatts of EPC solar projects, including systems with sun tracking technologies (Single-Axis Trackers), and more than 5 megawatts of O&M projects.

ALTAYSEER Co. offers a turnkey EPC solution that starts from the engineering site survey, full study of the client loads and energy consumption, engineering calculation of the required PV system solution, preparation of detailed PV system 3D drawings and designs, simulation of energy production and feasibility study, preparation of full technical and financial proposal, attaining the required permits and approvals from distribution companies and related municipalities, and finally ends up by executing the PV system meeting the highest international standards. ■









Naser Alkaraki General Manager



Majd Alkaraki Executive Manager



Qusai Alkaraki Commercial Manager



Samer Yaseen
Projects Sales Manager



Salah Zareer Engineering Division Manager

more than 60 ar PV inverters, ng systems and

Amarenco



Facts

Establishment Year: 2018 Number of Staff: 250+ (globally) Total Projects Capacity: 2 GW

Services

- Invest and Finance
- Design and Development
- Manage Construction
- Manage Assets

Markets

Europe (Austria, Spain, France, Ireland, Portugal), French overseas territories (Corsica, Guadeloupe, Guyana, Réunion), MENA (UAE, Egypt, Jordan, Oman Morocco, KSA), APAC (Taiwan, Thailand, Singapore).

Clients

Farmers, project developers, industrial and commercial business, government agencies, asset owners, utility companies.

Contact

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Amarenco is a silent change maker, with a wide range of infrastructures offering a competitive edge to its customers and partners through the integration of low-carbon solar electricity production that is local, economical, and can be a source of income.

Amarenco brings energy production and consumption closer, in particular through the digital development of short supply circuits. The company is regenerating ecosystems in areas where it builds solar and solarpowered infrastructures that can be associated with battery storage and green hydrogen solutions.

What Amarenco believes in is based on a logic of respect and co-creation, alongside nature and all its species.

Every day, Amarenco carries with it positive, renewable energy. For every generation, every culture, every sensitivity and every expertise; for all who believe in a sustainable future. This new paradigm is called the regenerative economy.

The years 2030 and 2050 represent two essential dates in Amarenco's future, but also and more importantly for all of humanity's future. As highlighted by the Paris climate agreement, approved by 195 countries at the end of 2015, and as the IPCC and many experts continue to confirm, the fight against climate change is a crucial one. Reducing global warming to 1.5 Celsius degrees by 2100 requires achieving carbon neutrality by 2050 and halving greenhouse gas emissions by 2030. But today in 2023, fossil fuels still represent over 70% of the world's energy.

Amarenco group is the benchmark, independent solar energy producer which has chosen to be at the heart of these challenges and to create a

regenerative socio-economic model, because there no longer is a choice. The world no longer has the time for passivity and inaction and can no longer suffer the shortcomings of meaningless, purposeless capitalism.

The group provides itself with the means to achieve its ambitions, focusing on making electricity accessible to the masses through its photovoltaic energy infrastructures to achieve 10 regenerative GW in 2030 and 50 regenerative GW in 2050. All this while permanently being committed to the regeneration of ecosystems in areas where the company has its infrastructure.

Amarenco has expertise in structuring investment, bank financing and crowdfunding. The company also has design and development expertise to obtain all the required authorizations for financing and operating projects, using its talents in technical, legal, fiscal and commercial engineering.

Amarenco can manage construction due to its expertise in the project construction phase, in contracting and project management, with a zero-tolerance policy when it comes to safety and security. The company also manages assets through its expertise in the technical administrative, insurance, security and financial management of photovoltaic power plants.

Amarenco's values are Human Ecology, Engagement, Agility, Trailblazer and Unifier.

Over the years, the word ecology has become a mantra behind which Amarenco finds a number of green commitments. Going back to basics, Ecology is firstly a doctrine aiming to preserve the balance between all species inhabiting our planet (including man).

Regarding Engagement, it is a strong word that means being bound by a promise to something or someone. Engagement is also a conviction that makes Amarenco believe wholeheartedly that the company is going in the right direction by offering a different, more responsible, and healthier path for the coming generations.

Amarenco's Agility relies on its concrete ability to reconcile technology with the demands of regenerative development and to find the talents that embrace the company's philosophy and contribute to the very dynamic growth of its business.

Being a Trailblazer and pioneer means opening the way for new ideas, new developments. It means clearing a path down which others can follow. Being a pioneer means preparing the way.

Finally, Amarenco is a Unifier having successfully implemented processes in line with its purpose, processes that mediate between two worlds.

Facts & Figures

- 1.1GW operational assets
- 1 Billion USD in annual investment
- 2000+ projects in Agri-PV
- 500+ C&I projects
- 15+ pipelines under development
- · Chairing Global Solar Council
- · Owner of biggest EES in solar

Head Offices

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Selected Projects



Armoush Tourist Investments PV Power Plant



Carmona Sevilla 50 MW, Spain





Tour-Sur-Orb, France





Head of Projects - MENA Ward Restaurant PV Power Plant

Key Staff



Group Executive Chairman



Chief Executive Officer - MENA



Chief Finance Officer - MENA



Rama Numayr Managing Director - Jordan



Waleed Alhallai **Head of Business Development**



Developers & EPC Contractors

Alternative Energy Projects Co. (AEPCo.)



Facts

Establishment Year: 2016 (Kuwait), 2019 (Jordan) Number of Staff: 50+ Total Projects Capacity: 70+ MW

Markets

Government, commercial sectors (restaurants, telecom hospitals, hotel), industrial sectors.

Projects

- Jordan: Abdali Mall Company (2.9 MWp), Greater Karak Municipality (4.7 MWp), GSIAE Project (3.6 MWp) International Coffee Gardens Company (0.35MWp), King Hussein Business Park (1.06 MWp)
- Oman: Oman Power and Water Procurement (600MWp)
- Kuwait: Ministry of Finance (0.490 MWp), Public Authority of Housing Welfare / PAHW-1 (1.86 MWp). Public Authority of Housing Welfare / PAHW-2 (1.67 MWp), National Guard (0.38 MWp)
- KSA: Saudi Dairy and Food Stuff Company (1.8 MWp)

Alternative Energy Projects Co. (AEPCo.) is a Kuwait based company specialized in renewable energy.

AEPCo. focuses on providing turn key solar solutions solar solutions such as Project Development (PPA/Equipment Lease), **Engineering Procurement and Construction** (EPC) services. Founded in 2016, the company entered the GCC solar market focusing mainly on solar EPC services. Yet, it was able to grow by executing numerous solar projects within Kuwait and expanding its services throughout the MENA region.

In 2018, AEPCo expanded its offering to include full cycle project development and asset management/operation in both the Utility and Commercial/Industrial sectors (BOT projects). As of now, the company has on-going and completed projects in Kuwait, Saudi Arabia (K.S.A), Oman and Jordan.

AEPCo. has developed a flexible strategy for investment in clean energy. The investment strategy focuses on a diversified mix of sectors and countries. This includes both large scale utility projects as well as C&I projects.

AEPCo. leverages its strong presence and network of the main parent company to build relationships and partnerships with wellknown key players in the clean energy market in MENA.

AEPCo. provides solar EPC solutions across the MENA region, offering integrated services which help to ensure that the high-quality system solutions are provided to its clients.

Key Staff



Dr. Hassan Oasem Chief Executive Officer



Dr. Raed Bkayrat Chief Development Officer



Jordan Country Manager

Branches

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Certificates







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Selected Projects







APEX



Facts

Establishment Year: 2021 Number of Staff: 8 Total Projects Capacity: Over 1MW

Services

- Feasibility Studies
- Permitting
 Design Solar Projects
- Engineering, Procurement and Construction (EPC)
- Operation and Maintenance
- Testing
- Commissioning
- Monitoring
- Carbon Footprint
- Energy Efficiency

Projects

- Al-Yabrodi Mall (150 kWp) • Dead Sea Farm (50 kWp)
- Pearla Clinic (21 kWp)
- Villa (15 kWp)
- More than 250 Residential projects

APEX is a leading Jordanian company in the field of renewable energy. It was established in 2021, in Amman in the Hashemite Kingdom of Jordan, specializing in energy auditing and renewable energy technology. With extensive experience in the field of solar energy engineering, the company has been able to find scientific and practical solutions.

APEX specializes in providing a wide range of energy management services including designing and implementing energy solutions, energy consulting and photovoltaic (PV) systems that create value, protect the environment and benefit the community. The capabilities of APEX enable it to create a real difference in meeting the world's trends towards renewable energy, to ensure the development and entrepreneurship in the private sector and to provide alternative energy in a reliable and responsible manner to support environmental development and economic growth for individuals and countries in the MENA region.

APEX develops and demonstrates state-of-theart know-how in renewable energy and energy efficiency projects, by actively monitoring trends and best practices that the company accumulates to help its clients and partners identify and then carry out renewable energy and energy efficiency projects which have a strong positive impact. Partnership with clients enables APEX to provide high-value engineering solutions and to ensure compliance with regulations and standards.

With energy prices rising in the short term, there is an urgent need to reduce energy consumption and to improve the operation and efficiency of facilities. Through energy efficiency projects, the experienced engineers and project managers at APEX work with clients to develop energy conservation projects that improve facility operations and save energy. APEX undertakes to achieve its mission by providing and producing electricity from solar energy sources and alternative energies reliably and responsibly, at a low cost and with the highest efficiency.

Key Staff



CFO



Eng. Adham Al-Sbihi **Business Development** Manager



Eng. Suhaib Abu Sba'a Projects Manager

Partners







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Axis Group



Facts

Establishment Year: 2015 Total Project Capacity: 220+ MWp

Services

- Renewable Energy
- MEP Contracting
- Steel Structure
- Facility Management
- Construction Business
- Trading

Markets

Jordan, KSA, Syria, Lebanon and Sudan.

Projects

- Belectric Gulf SAMT Contracting (18 MWp) for Umniah Project • EAJ (247 MWp) for Baynounah
- Kawar Energy SAMT (22
- MWp) for Orange
 Sterling and Wilson (20 MWp of 66 MWp)
- EAJ Ahmad Badaweih Contracting (127 MWp of 247
- Engie Solar (30 MWp) Belectric Gulf (46 MWp)
- Bank al Etihad (1.63 MWp)
- Jordanian Metals Melting factory (486 KWp)
- KIA Motors (110.21 KWp) • Lacueva Aqua park (464.6
- Oandeel Furniture (30 KWp)
- Alsarmed School (60 KWp)

Jordan Medical Association

Zarqa government building

(38.27 KWp)

Axis Group was founded in 2015 and is a leader in the renewable energy industry, with a mission to accelerate the transition to a sustainable energy future.

Axis Group is committed to providing innovative, reliable, and affordable renewable energy solutions to help its clients reduce their carbon footprint and to achieve their sustainability goals.

Over the years, Axis Group has helped hundreds of clients inside and outside Jordan to harness the power of the solar system. The company's team of experts includes engineers, project managers, and technicians with years of experience in the renewable energy industry who have worked on a wide range of projects; from small residential installations to large-scale commercial projects. Axis Group is proud to have helped its clients save money on their energy bills while improving their environmental impact.

Axis Group is guided by a strong set of values, including a commitment to innovation, customer satisfaction, and social responsibility. The company believes that renewable energy has the power to transform communities and to create a better world for future generations, and is dedicated to making that vision a reality.

Axis Group is constantly pushing the boundaries of what's possible in the renewable energy industry, exploring new technologies and approaches to energy generation and storage. Whether you're a homeowner looking to install solar panels, a business owner seeking to reduce energy bills, or a community looking to transition to 100% renewable energy, Axis Group has the expertise and resources to help you achieve your goals. ■

Key Staff



Eng. Mohammed Alawneh CEO



Eng. Fadi Yasin Solar thermal manager



Eng. Ghaida Shaher Operation manager

Products



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Selected Projects







Bayt Al-Ebda'a



Facts

Establishment Year: 2015 Number of Staff: 20

Services

- Technical consulting
- Installation
- Maintenance services

Projects

- Al Azrag Farms (60 KWp)
- Fagouri Hotel Apartments (35.75 KWp)
- ·Salah Al-Saifah Project (25 KWp)
- Moayed Al Assaf (18.85 KWp)
- Annan Al-Khatib (17.875
- Raed al-Qaisi (13.86 KWp)
- Nables Association (11.88 KWp)
- Fuhais Evangelical Pentecostal (11.425 KWp)

Bayt Al-Ebda'a is a renewable energy company committed to making a difference in the fight for the environment. The company aims to achieve this by directly sourcing the best quality renewable energy solutions.

Bayt Al-Ebda'a only purchases proven and tested quality components from reputable suppliers; providing customers with the tools to join the fight for the environment by reducing their carbon footprint and achieving totally sustainable solar power. Bayt Al-Ebda'a is a local leader in the solar energy market in the Kingdom and has served up to 200 clients. The company offers a full-service portfolio for solar projects of all scales that includes technical consulting, and installation and maintenance service.

The goals of Bayt Al-Ebda'a are to meet its client's objectives by leveraging quality, performance, price competitiveness and history. These constitute the company's strength and commitment to warranty.

Bayt Al-Ebda'a achieves excellence in operations. Its mission is to provide its customers with ecofriendly and cost-effective solutions, while constantly developing its capabilities in the field of renewable energy, focusing on the main goal of being number one in the field, embracing ethical values and honest working principles, creating and implementing plans for the future.

Its vision is innovation and development. Bayt Al-Ebda'a believes that the planet is the legacy of mankind, and there's only one. The values of Bayt Al-Ebda'a as a pioneer of new technologies are Quality, Safety, Responsibility, Humanity and Excellence.

Bayt Al-Ebda'a aims is to be dedicated to providing adequately sized, professionally designed and installed photovoltaic electric systems to its clients. ■

Key Staff



CFO

Technology Partners





Contact

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Be Solar for Renewable **Energy Solutions**



Facts

Establishment Year: 2013 Number of Staff: 10

Services

- Solar System design and engineering
- Technical consultancy
- BIPV Architectural design Hybrid and Battery PV systems
- Project management
- PV Supply and Installation
- O&M services
- PV system monitoring
- Energy Auditing and management
- Solar Training

Projects

Islamic Education College-Jubeiha, Middle East University, Tkiyet Um Ali, ATICO offices, Hijaz Towers, Jordan Insurance Company, Promise Welfare Society, Plaza Mall, Shnaneh Complex, JUHOD Tender-Phase 1, Al Fayha Mosque-Amman, Al Favha Mosque-Madaba, Grand Husseini Mosque-Amman, Kayali Complex, Al Bayan School, Al Burj Complex, Basma Complex, Al Nadi Gas Station, Al Yarmouk Gas Station, Al Muhajereen Gas Station.

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.

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. The company 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.

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

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.

Key Staff



General Manager



Eng. Dana Al khateeb Projects Design and Administration



Eng. Ameer Al Hakim Operation & Maintenance

Partners



Contact

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Selected Projects







Dalil Engineering System



Facts

Establishment Year: 2006 Number of Staff: 8+

Products & Services

- Renewable energy and CSP solutions
- Energy saving solutions
- Space heating and water heating solutions
- Combustion equipment and gas systems equipment supplies
- Environmental analysis and monitoring devices
- Converting commercial and industrial facilities (from burning diesel fuel to LPG)

Dalil Engineering System was founded in 2006 by the most experienced engineers lead by engineer Nidal Al Akhras, the owner and CEO, focusing on expanding and developing the renewable energy, energy solutions and LPG businesses in the Jordanian market.

Dalil is based in Amman, Jordan and provides its services and solutions in Jordan and the region.

Dalil is specialized in providing solutions for space heating, water heating, steam generation, energy efficiency, waste energy, industrial burners, combustion control and LPG networks and equipment by cooperating with the best European and global manufacturers.

Dalil is also a leading company in providing turnkey solutions in the solar PV and solar thermal solutions in the Jordanian and Saudi Arabian markets.

The company is always seeking new breakthrough technologies to present to its clients in the industrial, commercial and residential sectors.

Dalil has built a very strong network of connections over the years that allows it to hear from its clients their concerns and to introduce to them the latest technologies in the world.

The company is dedicated to provide the market with the highest quality of worldwide products and to provide the best after sales experience for its clients.

Dalil's vision is to be one of the largest solutions providers for gas and energy equipment in the Middle East and to work with the Jordanian government and community to transfer its experience back into the local market, by using as many local resources and personnel as possible. This is achieved by implementing a systematic plan and program that will improve the quality of

Key Staff



Owner & CFO



Derar Alakhras Deputy General Manager

Partners



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EarthWatch Group



Facts

Establishment Year: :2016 Total Installed Capacity: +65MW

Services

Consultations, Project Management, Feasibility Studies, EPC services (Solar Power, Energy Storage, Hybrid Systems, Heat Pumps, HVAC systems, Solar Thermal Technology, Energy Efficiency measures).

Projects

Applied Science Private University (6.4 MWp), LFG Solar PV Project - Cement Factory (2 MWp), Arab Pioneers Carpets Factory (1,892 MWp), Shwaikh Mall (420 KWp), Ittihad Schools (320 KWp), Sky Gym (100 KWp), Samir Abu Musalam Co. (100 KWp), Hazem Musa (75 KWp), Najeeb Saleem (75 KWp), Future Networks (36 KWp), Asad Alshami (20 KWp), IPP (12 MWp)

EarthWatch Group is a leading decarbonization and energy efficiency organization dedicated to helping businesses and individuals transition to a sustainable, environmentally friendly economy, by reducing their carbon foot-print and operational costs through implementing sustainable practices.

EarthWatch Group understands the urgent need to address its client's business evolution in response to challenges and technological innovations to remain competitive, and is committed to providing those innovative solutions that enable them to achieve their goals. With EarthWatch Group's expertise, cutting-edge technologies, and comprehensive services, the company empowers organizations to thrive into a brighter future.

EarthWatch Group segmented its business into categories, along with its sister companies, and offers a wide range of services. EarthWatch Consulting provides Consultations, Project Management, and Feasibility Studies, Through A.E.E.S, complete EPC services of renewable energy systems are provided such as Solar Power, Energy Storage, and Hybrid Systems, Heat Pumps, HVAC systems, Solar Thermal Technology, and Energy Efficiency measures.

EarthWatch Group has a team of experienced energy professionals, highly knowledgeable engineers, and consultants who possess a deep understanding of companies' challenges and opportunities facing businesses today. The team stays abreast of the latest industry trends, regulations, and best practices to deliver cutting-edge solutions to its clients; combining technical expertise, data-driven analysis, and strategic thinking to offer practical and costeffective recommendations.

Key Staff



Eng. Mustafa AlWishah CFO



Eng. Madhat Abuelenien General Manager



Head of Global Business Development

Certifications & Awards

EMRC: Class A 题P.//L





Partners









Contact

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Selected Projects







ECO-Jordan Group



Facts

Establishment Year: 2020

Services

- Solar Energy
- Heat Pumps
- HVAC
- Water Treatment

Projects

- Solar energy: Prince Ali bin Navef Residence, Palestine Central Markets, Walid Mithaal Asfour Residence. Hala Rasheed Residence. Khaled Al-Omrani Residence.
- Heat pumps: Prince Ali bin Al Hussein Residence, Prince Ali bin Nayef Residence, Amman Swimming Club, Al-Balga Islamic Schools

ECO-Jordan Group was established in 2020, after the long experience of its founders in serving the market since 1994.

The company proudly established its heritage and company vision to be well incorporated into its products, solutions and services.

ECO-Jordan Group has had a powerful impact in the field of air-conditioning, photovoltaic, water treatment, heat pump and all clean green solutions in Jordan.

The company aims to meet the expectations of its stakeholders by achieving smart growth, improving sustainability, and increasing its corporate value through technological strength and outstanding human resources.

The primary goal of ECO-Jordan Group is to preserve the environment and to save monthly household expenses, as it provides distinguished services to achieve its goal. The company's vision is to leave a sustainable and green world for future generations.

The energy photovoltaics team of expert engineers can provide full solar services starting from analysis and design to full procurement and installation of systems. The team has built and commissioned various systems around Jordan, with the option of maintenance and operation. The team of financial experts can provide financing solutions in collaboration with various local and international banks to reduce investment capital and to provide healthy cash flows for projects and investors.

The services that ECO-Jordan Group provides are On-Grid PV Systems, Off-Grid PV Systems, Solar Lighting, Solar Pumping and Solar Thermal Systems. ■

Key Staff



Eng. Abdulaziz Samarah General Manager



Eng. Mohamad Obeidat Mechanical Engineering Head



Eng. Nour Al-deen Shakhdam Renewable Engineer Head

Contact

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Selected Projects







ETA-max Energy & Environmental **Solutions**



Facts

Establishment Year: 2011 Number of Staff: 15 Total Installed Capacity: 50 MW

Services

- Engineering
- Procurement
- Construction • Operation and Maintenance
- Energy Auditing

Projects

- University of Jordan (UoJ) (13.6 MWp)
- Jordanian Ice Soda and Pepsi Co. (JICE) (1.8 MWp)
- Fresh Fruits (1.7 MWp)
- · Razi (1 MWp)
- Seed/Muaadi Municipality (1 MWp)
- Royal Academy of Culinary Arts (255 kWp)
- Nutridar (715 kWp)
- Social Security Corporation (500 kWp)
- Mass Water Factory (500 kWp)
- Abu Eid Farms (800 kWp)
- · 400+ Residential, Commercial, Government and **Industrial Projects**

ETA-max Energy & Environmental Solutions was established in 2011 with a vision to transform the society towards a more efficient, sustainable, and environment friendly lifestyle.

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 its 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 lordan.

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 wellestablished reputation in providing energy auditing and energy management solutions; and in designing and conducting tailored capacity building programs in energy management and renewable 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 ■

Awards



2016 Best Innovative Energy Project ME Region



Accredited for PV Projects 0 -125 Accredited for PV Projects 200 kWp - 2.5 MWp

Certificates



- 3 Certified Energy Managers (CEM)
- 3 Certified Energy Auditors (CEA)
- 3 Energy Efficiency Practitioners (EEP)
- 2 Renewable Energy Professionals (REP)
- 1 Certified Measurement and Verification Professional (CMVP)

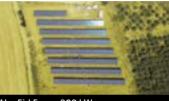
Eta-max in Numbers

- +300 PV Projects.
- 60 Auditing Projets Implemented
- +600 Engineers Trained

Selected Projects



University of Jordan 11,400.48 kWp.



Abu Eid Farms 800 kWr



Mass Water Factory 550 kWg







ocial Securty Corporation 500 kWp

Key Staff



Prof. Mohammad Dado CEO



Eng. Osama Al-Masri Operations Manager



Eng. Jameel Darwesh Sales & Design Manager



Eng. Ghaith Alkhalaileh Projects Manager

P.O.Box 2383

Contact

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Evolution Engineering Services (EES)



Facts

Establishment Year: 2006 Number of Staff: 170

Services

- Commissioning Management for Mechanical and Electrical Systems and Green Buildings
- Testing, Adjusting and Balancing of HVAC System
- Hands-On Testing and Commissioning For Mechanical and Electrical Systems
- Systems O&M Manuals and Closeout Documentation
- Retro-Commissioning Services for Mechanical and Electrical Systems
- Clean Room Testing, Particle Count Testing, Duct Cleaning and Leakage Services

Markets

Jordan, Saudi Arabia and Kuwait. Evolution Engineering Services was established in 2006 to meet the needs of its clients for professional and specialized engineering services, as well as to advance the quality of the built environment while managing the process as effectively and efficiently as possible.

EES is specialized in a wide range of engineering services including commissioning management for MEP systems and green buildings, testing, adjusting and balancing (TAB) of HVAC systems, and many other services.

EES has become one of the top engineering services firms as it is certified, available, specialized, organized, qualified, and approved.

The head office is located in Jeddah, and EES has active offices distributed between Riyadh, Khobar, Amman, and Kuwait. The company has provided its services to many iconic projects, with a total built-up area exceeding 43 million square meters for more than 600 projects.

The vision of EES is that every human being has the right to live and work in a healthy, clean and comfortable environment, thus, besides excelling in its field, Evolution creates a competing healthy working environment that entices both the workers and the clients. Its mission is to "Provide exceptional value to our clients by delivering innovative solutions that meet or exceed their expectations, as we are committed to building long-term relationships with our clients, based on trust, respect, and mutual success. By doing so, we have established a reputation as a reliable and trusted partner in the engineering industry."

EES has a strong base of certified engineers from the National Environmental Balancing Bureau (NEBB), AABC Commissioning Group (ACG), Association of Energy Engineers (AEE), and Green Business Certification Institute (GBCI).

Evolution Engineering Services (EES) is proud of its specialized professional team with more than 170 qualified engineers, technicians and administrators ready and committed to provide the highest quality services expected from its clients.

Key Staff

Tareq Obeido General Manager

F&W Group

F & W Group

Facts

Establishment Year: 1971 Number of staff: 750

Services

- Project FEED Design and Conceptual
- Feasibility Studies and ESIA
- Front-End-Engineering Design Package and Analysis
- Equipment Fabrication
- General Construction
- CommissioningProject Management

Projects

Heating Fuel Oil Pipelines, Build Storage Tanks for the Ministry of Oil and others, ABBCO Depot - Aqaba, Refineries Tank Farm, Crude Oil Refineries, Gasoline Production Units, Ethanol Production Plants, Asphalt Blowing Units. The history of F&W Group members goes back to one of the oldest companies in Iraq established in 1971, United Co of Mechanical and Electrical Industries. F&W Group is a regional-class Engineering, Consultancy, Procurement and Construction (EPC) company that provides total solutions to the onshore oil and gas sector. The group provides engineering, procurement, project management, fabrication, installation and commissioning services to project owners and operators.

F&W Group is located in Amman, Baghdad, Istanbul, and Michigan and operates regionally in the Middle East and North Africa; with plans to expand operations to the Caribbean. The group has built relationships and teamed up with international companies and registered in most of the Iraqi Ministry of Oil companies such as SCOP, MRC, NRC, BOC and many others in the private sector and is devoted to its proven record along many years of successful work and accomplishments of project delivery, quality, safety and customer satisfaction.

The engineering team provides innovative basic, detailed and engineering solutions, utilizing the latest and most advanced design software and latest updated international Codes and Standards. F&W Group values the relationship with its customers and seeks to communicate its appreciation to them through outstanding, guaranteed product quality, personal service and efficient delivery.

F&W Group's founder, Engineer Fawzi Elia, holds a bachelor's degree in mechanical engineering from Baghdad in 1972, and a master's degree in applied mechanics from the British University of Manchester. He has long experience in the field of designing and manufacturing petroleum equipment. He has completed many petroleum and chemical projects in Iraq and abroad. His last academic position was dean of the Institute Welding technology. He now represents Michigan Oil for Gas Contraction and Alternative Petroleum Technology. ■

Key Staff



Eng. Fawzi Elia CEO

Group Companies









Contact

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Selected Projects







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Firas Balasmeh 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.
 Hvdrometric, Environmental
- Solutions.
 Education and Training
- Solutions.
- Aerospace and Aviation Solutions.
- Power and Energy Solutions
 Installation, Maintenance and
- Rehabilitation Works
- Industrial Automation Solutions.

Projects

- IKK Glass Factory KSA (1.4 MWp)
- Civil Defense Directorate (1.077 MWp)
- German Jordanian University (2.11MWp)
- The Hashemite University (5MWp)Irbid Specialist Hospital
- (774.9KWp)
- Amazon Distribution Hub, Jeddah - KSA (1.75 MW)
- Al Hussien Bin Talal University (3 MW)

Contact

Tel: +962-6-4643756 Fax: +962-6-4649756 P.O.Box 5528 Amman 11953.Jordan info@fbgroup.com.jo www.fbgroup.com.jo Firas Balasmeh Corporation for Control Systems "FB GROUP", is a Jordanian Engineering corporation operating from Jordan since 2010.

FB GROUP is run by a professional team of well experienced and multi-disciplinary engineers. The company works as a system integrator that provides services for business organizations which need to find quality vendors of reliable solutions and services, as trusted allies. Services provided are turnkey solutions, design, engineering, supplying, installation, commissioning, testing, training, and operation and maintenance. FB GROUP has seven core business lines which are Renewable Energy Solutions, Hydrometric and Environmental Solutions, Education and Training Solutions, Aerospace and Aviation Solutions, Power and Energy Solutions, Installation, Maintenance and Rehabilitation Works and Industrial Automation Solutions.

FB GROUP entered the renewable energy sector in 2013, and is now considered to be one of the top five sector leaders in Jordan, capable of executing EPC, O&M as well as BOT contracts. The company's track record is around 16 MW installed and operated iconic projects, and operation and maintenance of 19MW solar energy projects, in addition to taking part in developing IPP / PPA projects with the total capacity of 545 MW. FB Group has been awarded an Emirates Energy Award in 2017 with the Golden Prize for large scale distributed renewable energy projects and the Silver Prize in 2022 for the same category for its iconic projects with Hashemite University and German Jordanian University.

FB GROUP designs, develops and

delivers innovative renewable energy solutions that produce an optimum system, making sure of providing quality and cost-effective services to its valuable clients. Not only in Jordan, but also exploring opportunities of renewable energy projects and expanding its reach to the whole MENA region; especially KSA, Lebanon, Iraq, Libya and the United Arab Emirates.

FB Group's vision is to successfully advance renewable energy into the Jordanian market, working with developers to make the process commercially viable for all concerned. From that belief, FB Group has engrossed itself with all what renewable sources have to offer for producing energy. The company is especially focused on providing integrated network systems and services, which include providing detailed specification of proposed solutions, developing, pre-engineering, design, integration, upgrade, modifications, installations, testing and commissioning, support, training and operation and maintenance.

FB GROUP was the first renewable specialist in Jordan that was licensed Grade (A), by the Energy and Minerals Regulatory Commission (EMRC) for the activities of supplying, installation, commissioning, maintenance and testing of renewable energy systems. ■







Future Sun



Facts

Establishment Year: 2013 Number of Staff: 30 Total Projects Capacity: 35MW+

Services

- PV Solutions (On Grid PV Systems, Water Pumping PV System, Hybrid System)
- Operation and Maintenance

Projects

- Khlouse Steel (1188 Kwp)
- la familia (948 kwp)
- Military Consumer
 Establishment (Tareq Market)
 (690 KWp)
- Aqaba Mosques (620 Kwp)Al Mawarid Natural Beauty
- Al Mawarid Natural Beauty
 Products Co (Rivage) (565
 Kwn)
- Istiklal Mall (400 Kwp)
- Ram Steel (300 Kwp)
- Tech Bolts Company (260 Kwp)
- Al Shahid Steel (212 Kwp)
- Ministry of Foreign Affair (202 Kwp)

Future Sun is an integrated solar energy provider established by a group of renewable energy professionals. The company specializes in renewable energy systems including state-of-the-art photovoltaic systems in addition to managing energy audit projects.

Future Sun's partners are international leading companies that are dedicated to developing and managing renewable energy solutions in Europe and the MENA region.

The main goal of Future Sun is to conserve the environment through generating clean, sustainable and efficient energy in order to ensure a greener future for all mankind. The company takes on the responsibility to increase awareness in renewable energy and assist households and business owners to Go Green and reduce their operational costs. To ensure the best quality and service for its customers, the company develops customized power solutions according to the needs of its valued customers ensuring that they get the best efficiency, reliability and energy independence.

Future Sun aims to preserve the environment by generating energy from clean and sustainable renewable energy sources, to ensure a green future for all humanity. The company bears the responsibility to raise societal awareness in the field of renewable energy, by guiding families and employers to the necessity of reducing energy depletion.

Future Sun became an authorized partner with Huawei Fusion Solar and an Authorized Distributor for Huawei Inverters in Jordan (Amman, Zarqaa, Balqaa, Madaba) and provides technical support services for companies and end-users for these and other products.

Key Staff



Eng. Yousef Qattous General Manager



Eng. Mohammad Khader Operation Manager



Eng. Khaldoun Obeidat
Business Development and
Marketing Officer

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.

After its success in Jordan, Green Electron transferred its experience to the Palestinian market in 2019.

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. ■

Key Staff



Eng. Humam Abushehab CEO/GM



Eng. Bader Sheab Senior Project Manager



Eng. Anas Altbakhi Project Manager

Branches

Palestine - Nablus - Al Mamoun Str. - Royal Plaza Bldg. info@green-electron.net Tel: +970-9-2348566

Contact

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Selected Projects







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IDHAL for Solar Energy Solutions Est.



Facts

Establishment Year: 2016 Number of Staff: 30 (direct and indirect Staff) Total Projects Capacity: 30+ MWp

Services

- Engineering and Procurement and Construction projects
- Project Development and Design
- Operation and Maintenance
- Training and Capacity Building.
- Import and Export of Solar **Energy Components**
- Production Line Solutions and Manufacturing Consultation

Projects

- Aluminum Bahrain (Alba), electrical and mechanical design of (6.2MW) solar system, Bahrain
- AlAlamyah Co., Roof hanger Project (660 KW)
- · Mr. Baker Alkhatib, solar pumping system (294.3 KW), in Amman-Giza
- Royal Scientific Society (RSS) and Jordan Renewable Energy and Energy Efficiency Fund; schools in South of Jordan in Al-Shobak, Altafilah and AlKarak project (430 KW).
- Household single-phase small project (3.5 MW), Amman.
- SkyLight Hotel, rooftop project (142 KW), Amman.
- Umm Alrasas solar pumping system (140 KW).
- Princess Taghreed Institution, car park project (65 KW) in
- Amman. Um AlRasas ground mount solar project (60 KW).
- AlJawharah Hotel Suites, rooftop project (38 KW) in Amman.
- **ECOP** project

Contact

IDHAL is an energetic company located in Amman, Jordan, with a sister company and partner in the 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 across the world.

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

IDHAL's partnership with EASTMAN is one of the most important steps to achieving this vision. IDHAL is proud to be the exclusive agent for the exceptional "Eastman Auto and Power Limited" range of solar energy products in Jordan, Syria and Palestine, and all solar energy solutions including high-level solar batteries, inverters, panels, water pump inverters, and charge controllers. This strategic alliance with Eastman is a vital step in establishing a dominant presence in the region's markets.

As Eastman and IDHAL join forces to serve the renewable energy markets in Jordan, Syria and Palestine, their commitment to providing a solid and dependable source for trusted products will play a key role in driving progress as these markets continue to grow and evolve. This

is in line with IDHAL's strategy to achieve profitable growth by providing advanced technologies and lifestyle solutions for its customers.

IDHAL works in partnership with companies from different countries including China, India, Syria, Iraq, KSA, Lebanon, Libva, Palestine, and Egypt in consulting and supplying services of green energy, with a total supplying capacity of 178MW so far.

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. ■

Certifications & Awards

• EMRC: Class A • Top brand PV in Jordan 2022 / 2023 in





Selected Projects











Key Staff



General Manager



Rasha Abu Alghanam Product and Sales Manager



Faris Al Deek Installation, O&M Manager



Design Manager

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www.idhalsolar.com

Ishraq Energy



Jadara Energy



Facts

Establishment Year: 2016

Service

- Energy Auditing
- Lighting Solutions
- Home Automation
- Water Treatment
- Photovoltaic Systems
- Wind Energy SystemsEducation and Training

Markets

Jordan, UAE, KSA, Kuwait, Syria, Iraq and Palestine.

Projects

Around 265 Photovoltaic Systems with total capacity of (13 Mwp) including Fitness Vega Gym (2 Mwp), Alassas Concrete Factory (521 kWp), Estesharia Poultry (440 kWp) Royal Court projects (505 kWp), Petra Regional Authority (120 KWp), Al Rafidain Factory (726 kWp), Al Numan Halls (298

Ishraq Energy is an innovation pioneer of green engineering solutions with a cultural focus on continuous knowledge growth and best of breed practices. The company is proud of its diverse and experienced capabilities by integrating solar power, water treatment, lighting, automation and different solutions in everyday applications.

Ishraq Energy's mission is to give people the power of energy independence with utmost savings and comfort, through its integrated efficient energy and environment solutions. Its vision is to leave a sustainable world for future generations. The goals of Ishraq Energy are to help provide the highest quality of energy solutions and renewable systems by providing turnkey solutions for different facilities.

Ishraq Energy offers energy auditing and investigation for all types of facilities by providing technical and financial analysis for potential improvements with minimal costs.

The company also provides the best solutions in Photovoltaic Systems for On-Grid and Off-Grid applications using leading technologies according to the highest global standards. In Lighting and Home Automation, the company implements smart home solutions and integrates them into multiple sub systems. Therefore, Ishraq Energy has become a system integrator for leading brands such as Somfy in Jordan to provide full comfort and automatic energy saving solutions.

Ishraq Energy is also a reliable source of all MEP services including air-conditioning, electrical, plumbing and water treatment.

As an educational institution, Ishraq Academy focuses on promoting a non-dogmatic learning environment for local communities by exposing them to the latest technologies and cost-efficient solutions and by conducting several training courses in multiple specialties to enhance the community with knowledge and experience.

Key Staff



CFO



Mohammad Alhai Sales Manager



Eng. Sumayah Al-qudah Technical and Tender Manager

Products



Selected Projects







Facts

Establishment Year: 2006 Number of Staff: 13

Service

- Renewable Energy solutions
- Design Supply
- Installation
- Commissioning

devices

- Operation and Maintenance Testing by using modern
- · Cleaning by using the latest technologies for cleaning solar panels
- · Arbitration by expertise in resolving disputes
- Manufacturing of Educational Training equipment
- RNE and engineering training academy

Projects

- EC conform 12 month Wind Measurement Campaign and study for (1 MW) wind turbine in Applied Science University, Amman
- Small Automated Weather station in Middle East University, Amman
- Solar System Installation Consultancy for Hikma, lafarge, AMC factory and many more
- Installation and commissioning of many PV projects throughout Jordan
- Maintenance and cleaning contracts with the different embassies

In 2011 Jadara Energy decided to expand its scope of work to cover renewable energy. Services through partnering with Celanx NV/ SA Energizing CleanTech from Germany and registering a joint venture at the Ministry of Trade in Jordan.

Jadara Energy oversees its projects at all stages; from engineering, procurement, installation, commissioning to testing and maintenance, without any subcontracting. This full control over the process allows the company to maintain very high levels of quality in installation finishing and less need for long-term maintenance.

Jadara Energy has accomplished several projects in the renewable energy sector as a certified energy consultant in the European Bank for Reconstruction and Development (EBRD) in the Middle East. The company has performed paid consultancy and feasibility studies funded by EBRD for Hikma EMC, Lafarge, Teeba/Tropicana and many other big institutions.

Jadara Energy is a leading provider of solar cleaning services, offering efficient and ecofriendly solutions for maintaining solar panel systems. With cutting-edge technology, the company partners with Hycleaner, a well-known manufacturer of semi-robotic cleaning systems, to deliver exceptional cleaning results. Semirobotic cleaners utilize advanced algorithms and sensors to navigate the solar panels, ensuring precise cleaning without causing any damage. By combining the power of automation with skilled technicians, Jadara Energy can efficiently remove dust, debris, and grime from solar panels, maximizing their energy output and extending their lifespan.

The company is committed to delivering highquality services that optimize the performance of solar energy systems, helping its clients achieve their sustainability goals while reducing maintenance costs.

Key Staff



Maleeka Zakarneh CEO/Owner



Hanan Ahyad Education Training Dept. Manager



Sameer Abd Al-Hadi RNE - Technical Support Manager

Partners





MyGLEANER









Contact

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Selected Projects







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Izzat Marji Group (IMG)



Facts

Establishment Year: 1985 Number of Staff: 285 Total Projects Capacity: 45+ MW

Products & Services

- Renewable Energy and Energy Efficiency Systems
- Heating, Air-conditioning and Ventilation Solutions
- Sanitary Ware, Bathroom and Kitchen Accessories
- Mechanical, Electrical Systems and Plumping

Projects

- Jordan
- Arab Pioneers for Carpets and Rugs (1.9 MW)
- American University of Madaba (1.45 MW)
- Petra Food Industries (1.39 MW)
- Aramex (1.3 MW)
- Societe Generale de Banque Jordanie (1.01 MW)
- Mada Amman Centro Hotel (1MW)
- Arab Weavers Union (726 kWp)
- American Community School (700 kWp)
- Farms Pumping Systems (693 kWp)
 Multi Polymers Plastic Industries
- Multi Polymers Plastic Industries (620 kWp)
- Go Gas (574 kWp)
- Teeba Investment for Developed Food Processing Co. (473 kWp)
- RE&EE Schools Program (449 kWp)
- Al Tafileh Hospital (381 kWp)
- Kuwait
- SUBHAN Stores (3.8 MW)
- Al-Farwaniya Court Complex (318 kW)
- United Arab Emirates
- Aramex Emirates LLC (6.4 MW)
- Agility Global Logistics FZE (4.4MW)

Contact

50

Tel: +962-6-5500022 +962-77-8490490 Fax: +962-6-5500016 P.O.Box 1945 Amman 11821, Jordan pv@marji.jo www.marji.jo Izzat Marji Group (IMG) 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 and 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 Industrial, Commercial, Residential, Educational, Health, Governmental and Hotels sectors. 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 until this moment, IMG has designed more than 100MWp of projects and has more than 500 projects in Jordan, Dubai and Kuwait totaling at 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 Systems to optimize energy performance and cut costs, in

order to increase profitability.

Over the past 35 years, Izzat Marji
Group'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 the 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. ■

Canadian Solar SHA Canadian Solar SCHLETTER KBE KBE Canadian Solar SCHLETTER KBE Canadian Solar SCHLETTER





Branches

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Wamest Solar

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Selected Projects







Capital Bank







Key Staff



Fadi Marji General Manager Renewable Energy and Energy Efficiency



Farah Qaqish Deputy General Manager



Shifa'a Khatatbeh Energy Efficiency Division Manager



Rawia Shirri PV Product Manager & Head of Design



Yousef Dababneh Head of PV Supervision & Technical Support Division



Salam Tadrous Head of AfterSales & Marketing

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



Facts

Establishment Year: 2020

Services

- Solar Energy Solutions
- Wind Energy
- Geothermal Energy
- Green Hydrogen
- Hvdro Energy
- Supply renewable energy generation equipment and devices
- Pre Engineering
- Design
- Integration
- Installation • Training
- Operation and Maintenance
- PV plant financing solutions

Projects

- Mosque projects, (75 kW), Net Metering (tender for the Ministry of Endowments)
- Project for the State of Palestine/Nablus, (5 MW), 1 phase, Wheeling (Underway)
- Project for The State of Palestine/Dura, Hebron (500 kW), 1 phase, Net Metering (Underway)
- Off-grid systems, (120 kW)
- Jordanian Embassy in Kenya/ Nairobi, (65 kW), Off-grid system (Underway)
- On-grid systems, (250 kW), **Net Metering**

Contact

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info@jordanterawatt.com www.jordanterawatt.com

Businesses trust Jordan Tera 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 Tera 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 Tera 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.

Within the solar industry, Jordan Tera Watt is distinctly different. The company's main goal is to preserve the environment, by generating clean and sustainable energy in order to ensure a "green future" for all humanity.

Jordan Tera Watt bears the responsibility of raising societal awareness in the field of renewable energy, especially directing families and employers regarding the necessity of reducing energy depletion to work, hand in hand, as friends of the environment.

With years of experience developing and installing sophisticated commercial solar systems, the Jordan Tera Watt team has established a singular reputation for responsiveness, expertise and integrity.

Jordan Tera Watt's mission is to make solar accessible and seamless for businesses who want to generate their own power using renewable sources; with focusing on educating and delighting Its customers and helping them realize decades of cost savings and sustainability benefits.

The company's team of engineers, energy experts, electricians, project managers and construction professionals are ready to help its clients to achieve their energy goals.

In short, Jordan Tera Watt treats its clients as it would wish to be treated - by providing guidance and education, ease of partnership, and careful consideration for their facilities and operational needs. Just as important, the solar PV systems provided meet the stringent safety standards of the biggest property insurers in the country, whereby Jordan Tera Watt warrants both its systems and its work.

Associations

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



- Sponsoring and developing the first
- Jordan for universal AV ENERGY Lithium

Selected Projects



Key Staff

Eng. Saleh Al-Ativat Chairman of Board of Directors Founder Of JTW



Dr. Yazan Al-Atyat Finance Consultant Co-founder of JTW



Hadaya Alsoub Deputy General Manager



53

Eng. Marah Alghazo Studies & Design Manager

Achievements

- solar boat in Jordan.
- The first authorized distributor in

Jordan Tractor and Equipment Co. (JTEC)



Facts

Establishment Year: 1953 Number of Staff: 150+

Products

- Caterpillar generator sets (Diesel, Gas, BioGas)
- Caterpillar Microgrid and PV
- Caterpillar Machines

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 microgrid solutions, consisting of Solar Panels, Storage Batteries, Advanced Controllers and Standby Gen-sets.

Dedicated and customer focused service and support by 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 thereafter through installation, start-up operation management, maintenance management, repair management and eventually the complete rebuild or replace options.

In addition to the Caterpillar dealership, JTEC is the authorized dealer in Jordan for world class brands including John Deere Agricultural Tractors and Combiners, Sandvik Crushers, Sullair Air Compressors, Allmand Light Towers, Le Grand UPS, Daewoo Trucks and RETA Racking System. ■

Key Staff



General Manager



Mohammad Fakhoury Power Systems Sales Manager

Brands











Contact

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Jordan Wind Project Company PSC (JWPC)



Facts

Establishment Year: 2012 Number of Staff: 54

Project Info.

- Nameplate Capacity: 117 MW
- Yearly Electricity Generation: Approximately 390 GWh
- Wind Turbine Type: Vestas V112, 3.075 MW
- Project lifespan: 20 years (PPA with NEPCO)
- Project Site Area: 11,000 dunums (11,000,000 square meters)
- Sponsors: Masdar, Tamasuk Holding Company (ABGI) and Arab Petroleum Investments Corporation (APICORP)
- Lenders: International Finance Corporation (IFC). European Investment Bank (EIB), Eksport Kredit Fonden (EKF), FMO, OPEC Fund for International Development (OFID), Europe Arab Bank (EAB).

Awards

Contact

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

The Jordan Wind Project Company PSC (JWPC) is proud to have developed Jordan and the region's first and largest privatelysponsored 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. (MASDAR) and INFRATAF HOLDING LIMITED (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 seventh 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.

Key Staff



Chairman of the Board



Michel Jallad Wind Farm Manager



Commercial Manager

Project Images







Kawar Energy PSC



Facts

Establishment Year: 2008 Number of Staff: 50 Installed Capacity: 235MW O&M Capacity: 150MW

Services

- DBOT: Design, Build, Operate and Transfer
- EPC: Engineer, Procure and Construct
- O&M: Operations and Maintenance
- Consulting

Markets

Jordan, Saudi Arabia and Palestine.

Projects

- Shams Ma'an, (66.6MW) largest utility scale thin film technology single axis tracker in the MENA
- Orange, (36.7MW) largest private to private wheeling project in
- Al Balga University, (9.634 MW) largest university Net Metering powered by solar energy in Jordan.
- SESAME, (7MW) the world's first scientific research/ largest complex to be fully powered by RE.
- Ayla, (5.91MW) largest seawater pumping plant powered by solar energy in Jordan.
- Shams Al-Matar (6.16 MW) Largest International Airport solar Project in the region.
- Yarmouk University, (3.2MW) largest solar PV rooftop in Jordan.
- Al Quds College, (1.06MW) largest solar PV carpark in Jordan.
- Loyalty Support Services, (4.5MW) largest solar hybrid system in
- Ayla wheeling project, (2.08MW) world's largest solar tracker PV system under sea-level.

Contact

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Tel: +962-6-5609500 Fax: +962-6-5698322 P.O.Box 222 Amman 11118, Jordan www.kawarenergy.com Kawar Energy PSC is 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 (DBOT) offering to finance, build and operate large projects for long terms.

Kawar 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.

Kawar Energy, backed by ISO certifications for quality (ISO 9001), safety (ISO 45001), environmental standards (ISO 14001), and social responsibility (ISO 26000). demonstrates a steadfast commitment to excellence. The integration of their technological expertise, engineering prowess, and profound regional insight facilitates the rapid development of customized, efficient solar solutions across the varied landscapes of the Middle East.

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

Kawar Energy owns a portfolio exceeding more than 235 megawatts from EPC and DBOT projects, catering to various sectors, including commercial, industrial, educational, entertainment, residential, governmental, and scientific. The company achieves significant environmental and economic impact by generating more than 1.63 TWh of electricity, leading to the reduction of 875,450 tonnes of CO2

emissions per year these projects can light up to 544 thousand houses per year.

Kawar Energy provides comprehensive pre-sale services, encompassing environmental impact assessment, grid, and geotechnical studies, permitting, approvals, and land leasing.

Kawar Energy specializes in engineering, design optimization, and complete life cycle services for PV solar plants. This includes remote monitoring, system analysis, onsite inspections, and maintenance for both their own and third-party installations.

Kawar Energy does not assemble parts to build capacity but optimizes and engineers best-of-breed components into a system capacity, designed to maximize energy output, safely and reliably for more than 20 years.

Kawar Energy proudly expanded in the Middle East, establishing three significant centers, including a new office in Saudi Arabia. This step not only reflects its commitment to the region but also strengthens its position as a leader in renewable energy. By expanding in this way, the company is poised to advance its mission of revolutionizing the energy sector, promising a greener and more sustainable future for the region and beyond. ■

Services

- · Planning: Feasibility Analysis, Financial performance, Energy Production Modeling, Infrastructure Study, Site Survey.
- Design and Engineering: Electrical, Civil and Structural Design, Array Layouts and Site Plans, Output Projections, Utility Interconnection Study, Project Estimation, Permitting, Equipment Specification.
- Supply: Major Component Procurement including Modules, Inverters, Medium Voltage Equipment and Solutions: Customized Inverter Outdoor Inverter cabling and structures
- Construction: Construction Management, Supervision, Quality Control and Performance Testing, Safety policy, Medium-voltage, Commissioning, Customer Orientation and Training.
- Ongoing O&M: In-House Maintenance and Service, Factory Trained Technicians, Performance Verification, System Monitoring, Warranty Compliance.
- 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.
- Consulting: Project consulting as well as O&M consulting

Selected Projects





Al-Balga University 9.634 MW



Mutah University 5 MW



Certificates



Key Staff



Hanna Zaghloul CEO



Firas Al-Khatib **Deputy CEO**



Eng. Mahmoud Salameh Operation and Maintenance Manager



Eng. Shadi Zurikat **Projects Manager**

Operation Partner



Shams Ma'an Power Generation Company



SHAMS ALETEALAT



_س المطاد SHAMS AL-MATTAR



Maani SOLAR (Al Hayakel Renewable **Energy Co.)**



Facts

Establishment Year: 1974 (maani Ventures), 2006 (maani Number of Staff: 700 (maani

Ventures), 20 (maani Solar)

Services

- Consumption and load analysis
- Site surveys and studies PV system design and
- engineering Project planning
- Procurement
- Turnkey construction (civil) mechanical, electrical)
- Plant Operation and Maintenance
- Feasibility Studies
- Local authority approval processing
- Finance facilitation

Specialization

- Net-metering PV Plants Wheeling PV Plants
- Zero-export PV Systems
- Off Grid PV Systems
- PVD Hybrid Systems
- Energy Storage Solutions

Clients

Industrial complexes, large scale private consumers, governmental institutions. camp sites (off-grid/on-grid), hospitals, banks, large scale commercial buildings.

Contact

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maani VENTURES is one of Jordan's leading industrial groups that employs more than 700 engineers, technicians, and highly skilled laborers and professionals. The company was established in Amman in 1974, with the ultimate vision of developing a new generation of customized engineering products and solutions, maani VENTURES has expanded into a conglomerate of six companies that service Jordan. Egypt, Iraq, Kuwait, Libya, Saudi Arabia, Sudan, UAE, and Qatar. Today, and with its extensive expertise that spans over four decades, maani VENTURES services the MENA region and beyond through the two core business divisions of Construction and Furniture.

maani SOLAR is an offspring of both maani VENTURES' extensive industrial experience, as well as its commitment to facing current and future global challenges and market needs. Backed by revered German technology and engineering, maani SOLAR specializes in the delivery of turn-key PV solar renewable energy solutions. This includes the complete design, procurement, installation, testing and commissioning of scalable photovoltaic solar systems, all of which are custom-designed to offset almost any electric demand. Ranging from PV on steel structures and rooftops, to open terrains and offgrid applications that are coupled with prefabricated buildings, the qualified team at maani SOLAR delivers the optimum solution for its clients.

The products offered by maani SOLAR are carefully selected on a project basis, depending on the best-suited technology for each demand. Such products are procured from internationally renowned sources and partners

with a proven track record and a guaranteed performance. To name a few, these partners include IBC Solar for European-made modules and China's based tier 1 Trina Solar or Canadian Solar, along with SMA for inverters and global experts Schletter of Germany for mounting systems. Whenever needed, maani SOLAR's sister company maani STEEL offers its expertise in the design and manufacture of steel structures supplying almost any form of specialized structures needed for elevated mounting.

maani SOLAR operates under maani CONSTRUCTION which includes other business lines that supply a diverse range of construction products.

maani PREFAB specializes in construction of high-end prefabricated buildings: maani STEEL specializes in design, supply, fabrication, and erection of preengineered buildings; maani STRUCTURES specializes in structural steel projects such as power stations, cement and petrochemical plants, oil and gas projects, as well as high-rise buildings; maani METALFORM specializes in producing Underwriters Laboratories (UL) approved fire rated steel doors, architectural sheet metal works, and cladding; maani LGS specializes in using automated production and construction capabilities to provide light gauge steel building solutions.

Maani Ventures also includes maani FURNITURE, which builds on the group's core strength of customized engineering. It is one of the region's leading companies that provides contract furniture, bent wood, educational and professional labs, auditoriums, office and classroom furniture and much more.

Core Competencies

- 40+ years business experience
- Contracting and manufacturing background
- In-house engineering capabilities
- · All round engineering expertise (civil, mechanical, electrical)
- Financial stability
- · Internationally renowned solar components

Certifications

IBC SOLAR AG (Premium Partner) MEMR - CLASS "A"

Global Solar Partner



Products













Selected Projects









Key Staff



Chairman - Maani Ventures



Qais Baggili General Manager - Maani Solar



Millennium Energy Industries (NEXT Renewable Energy Company LLC)



Facts

Establishment Year: 2002 Number of Staff: 15 Total Project Capacity: Solar Thermal 135+ MWt, PV 50+

Services

- Solar Energy Solution Provider (Heat, Steam and Cooling and PV)
- Financing available for ST projects

Projects

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Reference for the largest ST roof top project in the world among 250 references, 70 of which are Large Commercial and Industrial (C&I) clients.

Operating under the commercial name Millennium Energy Industries (MEI) for which the trademark and commercial name have been acquired, registered, and owned by NEXT since 2019- is an award winning company established in 2007 and is one of the region's top solar solutions providers.

MEI serves the local and regional markets and is one of the world leaders in providing industrial/ commercial scale Solar Thermal (ST) solutions (Hot Water, Steam and Cooling solutions).

The company has logged over 200 successful regional references (projects) on an EPC and an O&M basis. In 2021, MEI began offering financed solutions including BOT, BOOT, Lease Finance- LTO, etc. for solar energy projects. This applies to its full range of solutions and services in solar heat, solar steam, and solar cooling generation, as well as PV.

MEI is credited as one of the world's largest references, in Saudi Arabia with a 25MWth solar district heating project, Princess Noura University for Women, and was selected for an award by the Global District Energy Association, received in New York city in 2014.

Starting in 2015, MEI also developed a track record in solar PV, as a developer and EPC contractor, with capacity up to 50+ MW to date inoperation with references including a 23 MWp solar project (BOOT) in Jordan, where it owned 33%.

This is in addition to a wide working relationship with local and international parties, either as developer or EPC contractor, with MEI being a technology independent solution provider albeit with its own

proprietary collectors to withstand MENA region weather conditions and environment.

MEI, being an innovative ST solution provider and equipped to meet fast developing commercial and industrial global heating demands, has now developed solutions towards reducing or even eliminating fuel consuming systems by virtue of integrating heat pumps (HP) in its ST solutions.

Heating and cooling demand accounts for around half of global final energy consumption, mostly for industrial processes, followed by residential and agricultural applications and most of this energy now comes either from fossil fuels or inefficient, unsustainable uses of biomass.

Heating and cooling, consequently, is a major source of air pollution and accounts for over 40% of global energy-related carbon dioxide (CO2) emissions.

MEI's ST solutions offer payback on fuel consumption ranging from 1 to 4 years while significantly reducing (CO2) emissions (Green).

The rising cost of fuel globally requires the C&I sector to seriously seek such ST solutions. ■













Chairman



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General Manager



Mustakbal clean tech (MCT)





Facts

Establishment Year: 2009 Number of Staff: 32

Services

- · Engineering, Procurement, Construction, and Operations and Maintenance of Photovoltaic Power Plants.
- EPCOM service packages MENA region.

Projects

- RSS Solar Farming Project (2MW)EU-funded MEMR project in
- Azarak (5.7MW)
- Jordan University of Science and Technology (5MWp)
- Kempinski Hotel Dead Sea
- Wheeling Project (7MWp) Ayla Aqaba Wheeling Project (2.6MWp)
- SMART Automation Energy Dubai (5MWp)
- UNHCR Azraq Refugee Camp (6MWp)
- Jordan Kuwait Bank Wheeling Project (2.3MWp)
- Khalidi Medical Center and Hospital Wheeling System, (2MWp)
- Ma'an Development Company (1MWp)
- King Hussein Foundation Wheeling System (750Wp)
- Total Jordan Gas Stations (1.6MWp)
- Amman Academy School (420kWp)
- Abu Khader Group (850kWp)
- Nader Group (600kWp)
- Al Buri Tower Trading Group (1000kWp)
- Sudan, confidential client (53MWp)
- Oman, confidential client (17MWp)

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www.mustakbalct.com

Various Other Commercial and **Residential Projects**

Founded in 2009, Mustakbal clean tech (MCT) is an owner-managed company that specializes 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. With over 50 years of combined experience, MCT's team is highly specialized, 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 150MW capacity in the MENA region.

MCT adheres to the highest engineering standards and quality. The MCT team specializes in installing PV systems to internationally recognized quality and finishing standards, providing "round the clock" monitoring and operation and maintenance support, ensuring that the plants are performing and maintained according to clients' expectations, MCT's dedicated O&M support team performs all the required preventive maintenance activities according to manufacturer recommendations.

MCT has teamed up with local and international partners to enhance the quality of the projects it delivers such as Enerparc AG, a German international PV developer that specializes in the development of large scale Mega Watt projects.

When investing in PV, a 25-year lifetime is considered; therefore, the solar power plant should operate with minimal intervention throughout. MCT has the experience, capability and fundamental means to undertake and execute projects with a 100% satisfaction guarantee.

Key Staff



Dr. Ala Oubain CFO



Eng. Shukri Halaby

Selected Projects









Eng. Rand Alzubi

Technology Partners



New Village of Energy

 Wheeling: Al-Amal Hospital (662 Kwp), Al-Jazeera Hospital (622Kwp)

Inc.

Facts

Solutions

Solar PV Systems

Solar LED Lights

Projects

Water Heat Pumps

• Pneumatic tube systems

Establishment Year: 2015

 Net Metering: Modern System School (81.1 Kwp), Dr. Falah Khalifa (30.7KWp), Mr. Issam Hijazi (20.8KWp), Mr. Yasin Abd Al-Lateef (20.46KWp). Al-Amal Hospital Nurses Commercial (20KWp), Mr. Samer Shokeh (16,731KWp), Science and Development Co. (16.5KWp), Mr. Mustafa Ziadeh (House and Supermarket) (15.95KWp).

New Village of Energy Inc. was founded in 2015. The idea emerged from the company's faith in finding a solution for the energy problem faced by Jordan and the Middle East by offering alternative solutions for clean energy.

Since the start, the company had set a central goal of its strategy to translate the concept of green environment by introducing different systems of renewable energy to institutions, factories, businesses and homes through a system that would provide electricity and preserve the environment.

NVEco was established out of responsibility towards participating in the solving of the energy problems faced by Jordan and the whole world, by providing clean energy solutions. The company also focuses on heat pumps providing comprehensive energysaving solutions.

What's more, because of its advantages such as safety, efficiency, environmental protection and low energy consumption, it has become a solution to replace traditional boilers.

NVEco also offers modern service pneumatic tube systems and internal logistics. The company has the experience and expertise to custom design solutions for virtually any application in pneumatic materials logistics, providing special technical solutions to meet individual customer specifications.

Key Staff



AbdulMaiid Awad General Manager



Waleed Awad Deputy General Manager

Certifications

EMRC: Class A

Partners







aerocom



PHNX

Contact

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Selected Projects







Contact

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Olivia Energy



شركة الثقة لحلول الطاقة

Facts

Establishment Year: 2020 Number of Staff: 7 Total Projects: 250 projects Total Project Capacity: 3.5MW

Services

- Photovoltaic Systems
- Heat Pumps
- 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

Olivia Energy provides the best solutions in photovoltaic systems for on-grid and offgrid systems using the best technologies, according to the highest global standards.

Olivia Energy is proud to have so far installed around 250 Photovoltaic Systems with a total capacity of over 3.5MW, within this short period since its establishment.

Key Staff



General Manager



Ali Sami **Operation Manager**

Brands



Certificates





Contact

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Selected Projects











Facts

Establishment Year: 2013 Number of Staff: 17 Total Projects Capacity: 4 MW

Trust Energy Solutions

Services

- Feasibility Studies
- Project Design
- Engineering, Procurement, and construction (EPC)
- Supplying Solar Products
- Testing and Commissioning
- Technical Support
- After Sales Service

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 4MWpinstalled 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 consumers, households, mosques, and schools, 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.

Key Staff



CEO



Eng. Mohammad Hassan , Projects Manager



Eng. Yousef Hassan Team Manager

Certificates

EMRC with A class

Partners

LONGI Solar ∠ CanadianSolar





Contact

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Philadelphia Solar (PS)



Facts

Establishment Year: 2007 Number of Staff: 500

Services

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

Products

Structures

- Mono Crystalline Modules Magnelis Steel Mounting
- Galvanized Steel Mounting Structures
- Turnkey Solutions for On-grid Off Grid Systems

Projects

- Al Husainiyah Project (66
- Al-badiya Project (23MWp)
 Teeba Metal Industries
- (14.8MWp)
- Social Security Corporation (18.75 MWp) · Clemenceau Hospital (8 MWp)
- Gaza Central Wastewater Project (4.7 MWp)
- The University of Jordan (4.7
- Factories (2.7 MWp)

 Al Istishari Hospital (2.5 MWp)

 Al Zaytoonah University(1.77
- Irbid Mall (1.167 MWp)
- Jordan Tinplate Canning and Printing Industry (896 kWp)

Contact

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Philadelphia Solar (PS) is a specialized Tier-1 solar company that was established in 2007 with a buildup area of 14,200 m² and a current investment of 165 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 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. PS modernized its production lines to produce Multi Busbar and M10 half cell technology modules. The production lines are fully automated using the most advanced machines and robots. PS planned to serve the immense demand in many markets. As a result the company has started in the process of building a new 1GW Factory to serve both domestic and export markets.

The company produces monocrystalline mono facial Modules (IRIS) as well as bifacial modules (PHENEX). To serve the rooftops with lightweight black modules. PS has launched its newest products (Black IRIS) and (Dark PHENEX). PS exports of photovoltaic cells go to more than 52 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 IEC61215, IEC61730, IEC TS 62804-1, IEC 60068-2, IEC 61701, IEC 62716, IEC 62782 and DNV bankability report. In addition to UL61730, ISO 9001:2015, ISO 14001 and ISO 45001.

PS Magnelis steel mounting structures are exceptional. The new metallic steel coating provides surface protection in

a variety of applications against longterm wear and tear.

The unique coating offers a combination of attributes such as having the best corrosion resistance performance: up to 3 times better than the Hot Dip Galvanized sheet. It is also considered to be the most cost-effective alternative to the post galvanized processed steel. One of its key 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, and locally in Jordan with over 400 MWp references. 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 include 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 in 2020, 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 Badyia, helping to improve the economic situation to achieve comprehensive and

sustainable national development, and now benefits 50,000 families with clean energy from Al Husainivah 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. ■

Certificates TUV



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

Selected Projects















Key Staff



Abdel Rahman Shehadeh Founder and Chairman



Dr. Nael Al Husami General Manager



Evad Arafat Chief Financial Officer



Mohammed Shehadeh Chief Commercial Officer



Ahmad Smadi **Business Development** Manager



Mohammad Zaitawi Design & Application Manager

Yellow Door Energy



Facts

Establishment Year: 2015 Number of Staff: 140 (30+ nationalities)

Services

- BOOT Solar PV (rooftop. ground-mount, carport)
- Hybrid System / Energy Storage for On and Off-Grid Applications
- EV Chargers
- Shared Energy Savings Contracts
- Water Treatment Systems
- Solar Water Pumps

Markets

Jordan, UAE, Saudi Arabia. Bahrain, Oman, South Africa. 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 solar projects in Jordan, UAE. Oman, Saudi Arabia, Bahrain and South Africa. As of June 30, 2023. its projects have generated more than 470,000 megawatt-hours of clean energy, equivalent to reducing carbon emissions by 333,300 metric

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, hybrid and battery energy storage system (BESS), and more.

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

In October 2022, Yellow Door Energy officially welcomed its newest and majority shareholder, Actis. The company's shareholders now include Actis, the IFC, Mitsui and APICORP. This positions Yellow Door Energy as one of the most well financed solar developers in the region.

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 Ouarter Magazine.

YDE representatives regularly speak at industry conferences to share best practices in developing successful solar projects in the MENA region. ■

Shareholders









YDE in Numbers

- · Solar Projects Awarded: 200 megawatts
- · Clean Energy Generated To-Date: 470,000 megawatt-hours
- · Carbon Emissions Avoided To-Date: 333,300 metric tons.

Certificates & Awards



Developer of the Year





- Yellow Door Energy (Al Nabooda Automobiles)
- Jeremy Crane (CEO)
- MESIA Industrial Solar Project of the Year - Yellow Door Energy (Classic
- Year Yellow Door Energy (Al Nabooda Automobiles)

Selected Projects

GID and ASEZA 24.3 MWp

Umniah 17.6 MWp

Carrefour Majid Al Futtaim 17 MWp

Classic Fashion 5.5 MWp

Jabri Restaurants 1.2 MWp





Hani Majzoub SVP Commercial Development

Key Staff



Country Director



Azmi Sallam VP Project Management



Fahed Oweidat Business Development Manager



Zeina Goussous **Business Development** Associate





- Grand Master Award Jeremy Crane
- · Project Developer of the Year: Industrial
- MESIA Solar Entrepreneur of the Year –
- · MESIA Solar Energy Picture of the

Developers & EPC Contractors

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Contact

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Amman, Jordan

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Adva Therm



Facts

Establishment Year: 2012

Services

- IR Thermal Imaging Inspections
- IR Thermography Training and Certification Courses

Markets

Jordan, KSA, UAE, Egypt, Palestine, Algeria, Turkey.

Projects

- Alcazar Energy (24 MWp), IR Inspection
- Ayla Oasis (6.5 MWp), IR Inspection
- Enviromena, Royal Hashimite Court (5.6 MW), IR Inspection
- Cementra, IR Training
- Mustagbal, Hikma (600 KWp), IR Inspection
- Manaseer Oil and Gas, IR Inspection
- CEGCO, IR Training
- IDECO, IR Training
- ZAIN, IR Inspection and Training

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 highquality, 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. ■

Certificates

- Level 3 Infraspection Institute (1 Certificate)
- Level 2 IRT (1 Certificate)
- Level 1 ITC (1 Certificate)
- Level 1 Adva Therm (1 Certificate)

Figures

- Engineers trained: 1400+
- · Clients in Jordan: 150+
- Clients in MENA: 8
- Inspected Projects/ Properties: 230+
- Working Countries: 7+

Partners









Selected Projects



Alcazar Energy 24 MWp, IR Inspection



Ayla Oasis 6.5 MWp, IR Inspection



Infrared Thermography Training







Key Staff



Founder / GM



Muna Awad RE Section Head

Contact

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Accreditation & Licensing Services

adaa Sustainable Development **Consultants**



Facts

Establishment Year: 2017 Number of Staff: 10+

Services

- Green Building Design Support and Optimization Services including Specialized Studies on Energy Modeling, Daylight Analysis, Outdoor Comfort Analysis, and Wind Pedestrian Comfort Analysis
- Green Building Certification Administration (LEED, EDGE)
- Green Building Auditing for IFC EDGE
- Green Building Capacity Building

Projects

- Jordan
- The Rockery Villa
- ATG Headquarters
- King Hussein Business Park (6 buildings)
- Oak Sarava 5 (8 Villas)
- Oak Saraya 4
- Conference and Training Center at the Ministry of
- Classic Fashion Agaba and Mafraq Campuses
- Egypt
- The Grand Egyptian Museum
- Family Medical Care Center
- Afghanistan
- UNICEF Office HQ
- KSA
- Chevron Residential Community Project
- Kuwait
- The Avenues Mall Landlord Common Area

Contact

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adaa Sustainable Development Consultants was established in 2017, with a great passion for making sustainable changes in the local and regional built environment.

adaa is an independent, innovative consultancy that works with engineers, architects, and developers in the MENA region to optimize the quality of their designs.

adaa helps to design, construct, and operate more effective structures that consume less energy, water, and resources while being comfortable for occupants by applying state-ofthe-art simulations and best practice methodologies in analyzing the overall performance of the project.

The experts at adaa combine international experience in urban planning, architecture, electromechanical, and sustainability, backed by education and accreditation, with a focus on sustainable environmental design, linking architectural and engineering creations to environmental sciences. building physics, and performance simulation.

adaa is playing a role in redefining what a 'good building' is. Traditionally, a good building is an aesthetically appealing structure that has all the required functions provided in a good, smooth manner. But with understanding the importance a building plays in achieving thermal comfort, healthy space, and efficient resource consumption, adaa is adding another element to the definition of a good building which is 'good performance'.

adaa supports public and private sector clients in a diverse range of markets at every stage, from the

initial conceptualization to project completion and beyond.

From mission critical facilities or high-end commercial projects to industrial, healthcare, and leisure developments, the adaa team has the knowledge and skill set to meet even the most complex of requirements.

Guided by the motto "Optimizing the World, One Building at a Time." adaa has achieved a significant impact in various areas. This includes optimizing over 65 buildings, totaling a floor space exceeding 1,000,000 sqm. The commitment of adaa extends to training and equipping more than 2,500 professionals worldwide with sustainable expertise, and operating in over 7 countries.

Furthermore, adaa has successfully delivered more than 32 LEED administration buildings, over 16 EDGE administration buildings, and completed over 17 design optimization projects. These achievements underscore the unwavering dedication of adaa to positively impact the built environment through environmentally conscious and efficient practices. ■

Professional Credentials







- LEED Accredited Professionals
- USGBC Faculty
- EDGE Experts
- EDGE Auditors
- EDGE Faculty

Professional Membership



UNDER MEMBER SINCE



Clients







unicef 🚱









Selected Projects





Oak Saraya 4 (Design Optimization)



The Rockery Villa (Design Optimization)







Key Staff



Mavsoon Al-Khuraissat Founder & General Manager



Asma Al-Khuraissat **Expert Urban Planner**



Ibrahim Alsaheb MEP Sustainability Consultant



Mohammad Ghaith Sustainability Architect



Rania Al-Zyoud Sustainability Architect

SAGER DRONE



Facts

Establishment Year: 2018 Number of Staff: 28 Total Project Capacity: 600 MWp

Services

- Aerial Thermographic Inspection
- Aerial Visual Inspection
- Aerial Mapping and Surveying
- Aerial Progress Monitoring
- Asset Digitization
- Drone Filming

Project

- Baynouna (247 MWp)
- Fotowatio Renewable Ventures Mafrag (69.7 MWp)
- Fotowatio Renewable Ventures Empire (69.7 MWp)
- Hussaineyyah (66 MWp)
- ACWA Power Mafraq (60.9 MWp)
- Orange (36.7 MWp)
- GID (18.3 MWp)
- Umniah (17.7 MWp)Carrefour (17 MWp)
- ASEZA (6 MWp)
- Classic Fashion (5.4 MWp)
- Safeway (4 MWp)
- Taj Mall (4 MWp)Specialty Hospital (2 MWp)
- Jordan Hospital (1.8 MWp)
- Jabri (1.2 MWp)
- Scatec Solar (10.5 MWp)
- Vestas Wind Turbines (236 MWp)

A frontrunner in geospatial intelligence, Sager crafts a seamless experience of capturing, analyzing, and visualizing data with an Aldriven cloud-based backbone, SagerSpaceTM.

As a nexus between aerial technologies, data management and Al, Sager is revolutionizing how enterprises harness aerial insights, turning high-quality data into actionable Al-powered decisions, thereby sculpting the future of aerial data integration.

With Sager, one isn't merely an observer, but an active participant in a vast, interconnected digital tableau; extracting insights from every pixel. Sager's vision is grand yet simple; to make aerial intelligence universally accessible, ensuring decisions are enriched by comprehensive overviews.

To execute this vision, Sager has set forth on a mission to facilitate easy access to aerial technologies and to seamlessly integrate them into diverse workflows. This offers clients pinpoint accuracy and enhanced safety while ensuring that aerial operations remain streamlined.

The service suite is a testament to innovation and efficiency. With high-resolution geospatial content, advanced mapping, efficient progress monitoring, and meticulous inspections. Such services translate to quicker surveys, effective project management, and safer, more cost-effective inspections using drones.

Sager's versatility extends to industries like renewable energy, construction, telecommunications, and more, redefining inspection and management processes.

Sager's unique ecosystem,

intertwining SagerSpace™ and the Sager Geospatial Center of Excellence, solidifies its stand.

With SagerSpace™, the company has created a digital mirror of the world, simplifying complex landscapes into easily digestible insights.
Simultaneously, the Geospatial Center of Excellence offers unmatched aerial perspectives, adhering to the highest standards of sustainability. ■













Key Staff



Yousef Amoura CEO



Operations Manager



Hisham Luthon Business Development Manager



Osama HijjawiBusiness Development
Engineer

Contact

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Polaris Energy Sustainability Solutions



Facts

Establishment Year: 2021 (Canada), 2023 (Jordan)

Services

- Energy Management Consulting
- Green Buildings Consulting
- Net Zero Consulting

Markets

Canada, United States, KSA, UAE, Oatar, Bahrain, Oman, Kuwait, Iraq, Egypt, Tunisia and Kenya.

Projects

- Energy Management Consulting: City of Oshawa Energy Management Plan.
- Green Buildings Consulting: Office Building in King Hussein Business Park, King Hussein Cancer Center.
- Net Zero Projects: AJNB **UNON New Office Buildings** Oshawa Municipal Airport Building.

Polaris is a Canadian-based firm, with a regional office in Jordan.

Polaris team are passionate energy and sustainability experts with extensive crosssector experience, providing a variety of multi-disciplinary and integrated consulting services.

Polaris envisions to achieve carbon neutrality throughout all its project portfolios by 2050. The company's mission is to provide crosssector smart and sustainable consultation that ensures Environmental Safety, Energy Efficiency, and Profitable Operations. Polaris values are sustainability, communication, innovation, excellence, trust and client focus.

Polaris team provides the best Green/Net Zero building consultation to let your project go through a smooth certification process including planning, design, execution, operation, and end-of-life. The most intelligent and effective Green/Net Zero projects are achieved by integrating design and construction projects.

Sustainability Services by Polaris include Sustainability Strategy, Gap Analysis and Value Assessment, Rating System Compliance/ Certification, Solar and Wind Simulations, Life Cycle Assessment, Energy Modeling and Net Zero Pathway. Moreover, Polaris launches this vear the Corporates Sustainability Services including ESG Framing, GRI Reporting, Carbon Inventory, and more corporate sustainability reporting services. ■

Key Staff



Dr. Azzam Abu Ravash Co-Founder and Chief **Executive Officer**



Eng. Eman Sabbah Co-Founder and VP, Green Buildings

Headquarter

Tel: +1-647-3675440 Ottawa, Canada















PLEDGE



Borghul Steel



Facts

Establishment Years: 2017 Number of Staff: 50

Products

- Forms cold sections to (C. Z. & U) profiles and all types of accessories for solar mounting structures.
- Redesigned hot rolled sections (IPE, HEA, UPE, Tube, Pipe, etc.) for manufacturing solar canopies.
- Redesigned hot rolled sections (IPE, HEA, UPE, Tube, Pipe, etc.) for manufacturing hangers, canopies and multistory buildings, etc.
- Forms cold sections to (C & U) profiles and all types of accessories for light gauge structures

Projects

- Car Parking Canopies: Amman Civil Airport, Jordan Petroleum Refinery (Al Zargaa, Ajloun National University, University of Jordan, Eye Specialty Hospital Amman, Brinks, Sheikh Hussein Bridge, The Royal Yacht Club of Jordan.
- Mezzanine Steel Structure: Middle East University, Gaith Restaurant
- · Light-Gauge Structure: Marka Specialty Hospital
- Steel Structure multi-story building: Champions for Logistics

Borghul Steel is a leading provider of custom roll formed and assembled metal parts for a wide range of industries. The company has been in business for over seven years and, in that time, has built a reputation for providing high-quality products and exceptional customer service.

The team at Borghul Steel are experienced engineers and technicians who use the latest technology and equipment to design and manufacture custom metal parts that meet their clients' exact specifications. Whether you need a simple bracket or a complex metal component, Borghul Steel can create it with precision and efficiency.

Borghul Steel takes pride in its lean manufacturing processes, which allows it to reduce waste, increase efficiency, and to lower costs. The company is committed to sustainable and environmentally responsible manufacturing practices, and works closely with its clients to develop solutions that meet their specific needs while minimising impact on the environment.

For further detailed information about Borghul Steel, visit the website www.borghul-steel.com ■

Key Staff



CEO & Founder



Mohmmad Borghul General Manager



Project Manager

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Products







Contact

Contact

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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): 1.2 Mwp solar steel structure and cable management system for the.
- Crown Plaza Hotel (Petra):
 All the cable management system materials.
- Dar Al-Hekma (Head Offices): All the cable management system materials.
- Civil Consumer Cooperation: 180 Kwp solar steel structure.
 Ministry of Public Works and
- Housing: Guard rail system for roads.
- Ritz Carlton Hotel: All the cable management system materials.
- Arab Potash Company: All the cable management system and rack support.

Contact

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Tel: +962-6-4020020 Fax: +962-6-4020023 P.O.Box 110 Amman 11512, Jordan info@maseico.com www.maseico.com Al Masoudia Electrical Industries Co. Ltd. (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. It is also a proven leader in manufacturing solar energy systems requirements. ■









Energy Technology Providers 79

DARBCO



Facts

Establishment Year: 2018 Total Energy Produced: 14,000+ MWh/year Total Saved Water: 600,000+ Litres/year

Services

- Robotic Systems
 Manufacturing for Solar
 Cleaning
- On-Site Robotic Systems Installation and Inspection
- On-Site Robotic Systems
 Operations and Maintenance
 (O&M)
- Wireless Control and Communication Systems Development
- IoT Systems Integration by DARBCO

Products

- DARBCO Dry Switchable Robot SCM- L2
- DARBCO Wet Cleaning Robot SCM-L3

Markets

San Francisco (USA), Dubai (UAE), Sanaa (Yemen), Jeddah (Saudi Arabia).

Projects

- Ayla Oasis project Aqaba
- GiG/ Giant Industrial Group
- project Mafraq
 The Ministry of
 Digital Economy and
 Entrepreneurship project
- ACT / Aqaba container terminal project - Aqaba
- North Mills project Irbid
 Abu Odeh Bros Co
- Luminus Technical University College - Irbid

Contact

Tel: +962-79-5170542 Amman, Jordan info@darbco.com www.darbco.com DARBCO was established in 2018 and has emerged as a leading innovator in the MENA region, specializing in the development and manufacturing of cutting-edge robotic solar panel cleaning solutions. The core challenge addressed by DARBCO is the accumulation of dust on solar panels, a prevalent issue that compromises energy output and increases operational costs.

Despite solar systems' global adoption as a clean and cost-effective energy source, the need for periodic cleaning, involving significant water, labor and time resources, hinders their full potential.

To tackle this challenge, DARBCO has engineered innovative robotic solutions, designed to deliver exceptional cleaning efficiency and reliability. These solutions are not only effective but also designed to withstand the harsh and dusty conditions in desert regions.

Notably, DARBCO's proprietary high-efficiency cleaning mechanism minimizes water usage and reduces cleaning time, all while preserving the integrity of the solar panels. Recognizing the sensitivity of solar panels to mechanical interactions that could lead to scratches or microcracks, DARBCO has developed and tested materials that ensure the safe operation of the cleaning robots.

DARBCO's mission is to enhance the efficiency of solar PV plants in terms of energy generation, while minimizing the consumption of resources and human effort. The company's vision is to become a leading provider of solar panel cleaning solutions on a global scale.

Beyond innovative cleaning technology, DARBCO has pioneered the development of DarbSense, an advanced IoT-based platform.

DarbSense is engineered to facilitate seamless monitoring and control of DARBCO's robotic solutions. Leveraging the power of Internet connectivity, this technology empowers operators to remotely oversee and manage the robotic system.

Operators can effortlessly track real-time status updates and harness the technology to generate comprehensive reports detailing the system's historical data. This wealth of data allows for in-depth analysis and informed decision-making.

DarbSense operates through multiple communication protocols, including Zigbee, Wi-Fi, and Lora, offering reliable connectivity between the various components of the system. With an impressive longrange reach of up to 10 kilometers, DarbSense is a game-changing solution that revolutionizes the way operators interact with and control robotic systems. It brings enhanced convenience, efficiency, and intelligence to the forefront of industrial automation, marking a significant step forward in optimizing the performance and maintenance of solar panel installations.

The main products of DARBCO are the Dry Switchable Robot SCM- L2 and the Wet Cleaning Robot SCM-L3

The Dry switchable Robot is a specialized robot designed for autonomous cleaning of all types of solar panel installations. It utilizes dual cleaning technology to effectively remove dust and dirt from solar panels, ensuring safety, cleanliness, and optimized performance. The robot offers the two cleaning modes of dry cleaning and wet cleaning. In dry cleaning mode, the robot utilizes rotating brushes to gently clean the surface of the solar panels, effectively removing dirt and dust. Based on projects requirements, the wet

cleaning mode of the SCM-L2 robot can be activated. In this mode, the robot is equipped with water injection system allowing for a seamless switch from dry to wet cleaning, enabling a thorough cleaning process.

The DARBCO Wet Solar Cleaning SCM-L3 is an advanced cleaning robot specifically designed to effectively clean all types of solar panel systems. It utilizes an optimized wet cleaning technology that ensures the removal of over 99% of accumulated dust and debris. This cleaning process helps maintain the panels' peak efficiency, even in harsh and dusty environments. ■







Selected Projects









Key Staff



Monther Fade



Amjad Khalil Technical manager



Azzah Alkhalailah Sales Manager

Energy Technology Providers

International Technical Construction & Storage Co. FZ (W.L.L.) - ITCC



Facts

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

Products & Services

- Piping Systems
- Process Equipment
- Material and Special Alloys
- Rotating and Reciprocating Equipment
- Measurement, Testing and 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

International Technical Construction and 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 leveraging 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). The company 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.

ITCC represents 39 global brands and the list keeps on growing year in, year out, including VDM Metals GmbH, Butting GmbH, Sulzer Chemtech, GBT-Bücolit GmbH / Haw Linings GmbH, Trillium Flow Technologies, KEI Industries Ltd., Loibl Förderanlagen, Duchting Pumpen, ALTRAD Group- CAPE, Gaytri, Woodfield Systems, Borusan Mannesmann, SicCast, Strobl Pumpen, Cahors, PressBolt M.E., MECCO, VIGIL, SUMIP, UNICON, EFC, HP Valves, LB Industrial and Straub Werke Ag.

Certifications



Partners BORUSAN

MANNESMANN

























PUMPEN







Selected Projects













Key Staff



Eng. George Salman Managing Director



Eng. Jamil Salman Sales & Technical Director



Commercial Director

Energy Technology Providers

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P.O.Box 950279

www.itccjo.com

Enersol™ Technology



Facts

Establishment Year: 2017 Number of Staff: 50+

Services

- Energy Saving and Optimization Solution
- Energy Management Cloud-Based Systems
- Solar Panels, Inverters and Accessories Manufacturer
- Contracting and Maintenance Services

Markets

Japan, UAE, Jordan, Egypt, Belgium, Turkey, Ecuador, Colombia, Mexico and South Africa.

Projects

- Al-Kasih Food Industrial Company, Az'Zarqa, Jordan (12% Savings)
- Omani Plastic Industrial Company, Amman, Jordan (9% Savings)
- Habiba Sweets (The Factory), Amman, Jordan (12% Savings)
- FUPEL, Ecuador (8% Savings), 7/11 Chain, Mexico (7.8% Savings)
- 100+ more case studies globally

Contact

Tel: +962-79-2124000 Amman, Jordan alaa@enersoltech.jp www.techsolgroup.jp Enersol™, a cutting-edge leader in energy optimization, is pioneering the transformative solutions that revolutionize the efficiency of electrical systems. With a foundation rooted in a ceramic material-based breakthrough, Enersol™ plates serve as innovative energy-saving marvels that seamlessly integrate into breaker outgoing phase conductors and save up to 15% of the electricity consumption. This proprietary technology, honed through collaboration with renowned institutions like Tokyo Institute of Technology and KU Leuven University, enables Enersol™ to filter Conducted Emissions, adhering to the rigorous standards of IEC CISPR 11.

Conducted Emissions, stemming from inductive loads, electrical switching, inverters, and power electronics, pose environmental and economic challenges. Enersol™ not only mitigates these challenges, but also addresses capacitive and resistive loads, ensuring comprehensive sustainability.

Aligned with the commitment to environmental impact, Enersol™ orchestrates a reduction in carbon footprint, addressing global concerns by aligning with stringent environmental standards. Economically, Enersol™ demonstrates prowess in optimizing power quality, extending load lifespan, and achieving substantial energy savings, positioning itself as a key player in the paradigm shift toward energy efficiency.

The mechanism behind the success of Enersol™ lies in its ability to maintain plate temperatures below 0.5 degrees Celsius, irrespective of load size, voltage, or amperage. Installation simplicity is paramount, focusing on the principal breaker of the end user distribution panel and subbreakers exceeding 60 amps.

Enersol[™] not only tackles environmental and economic challenges but also aligns with power-aware design principles. It transcends conventional approaches with its small, adaptable, and load-size-agnostic plates, ensuring seamless integration into consumer electronics, further enhancing its appeal.

In essence, Enersol™ is not just a solution; it's a transformative force, propelling industries toward sustainable, economical, and efficient energy consumption, ushering in an era where technology and environmental consciousness converge. ■

Key Staff



Alaa Alyaman Executive Chairman

Clients







Headquarter

Japan Tel: +81-8070503535

Solarity

SOLARITY

Facts

Establishment Year: 2011 (Czech Republic), 2019 (Jordan) Number of Staff: 100+

Services

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

Products

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

Markets

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

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, Solarity 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 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.

Solarity was founded in Prague, 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, Amman, Bogota 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. ■

Key Staff



Eng. Mu'ayyad Almomani Regional Manager ME



Eng. Ahmad Salem Technical Sales Engineer



Noor Khayyat Customer Care Supervisor Jordan

Partners

JA SOLAR







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Selected Projects







Solis Depot



Facts

Establishment Year: 2019 Total Projects Capacity: 500+

Products

- Residential Inverters
- Commercial Inverters
- Utility Inverters
- Transformers
- Monitoring Devices
- Storage
- Softwares
- Accessories
- Chargers

Markets

Jordan, Lebanon, Iraq, Oman and Egypt.

Projects

- Mecca Mall (1.5 MW)
- Abdali Medical Center (8.2 MW)
- Lamis Detergent Factory (899.48 KW)
- PEPSI (1.8 MW)
- Arab Medical Center (1005)
- Classic Fashion Phase 1 (5) MW)
- Macdonald (4.8 MW)
- C-Town (3.3 MW) · Umniah (18 MW)
- Jordan Hospital (1.5 MW)
- NERC Pumping Project II (2)
- IAA Schools (500 KW)
- Social Security (5 MW)
- Carrefour (13 MW)
- · Taj Mall (3 MW) Safeway (3 MW)
- Horizons for Plastic Industries (776.9 KW)
- · Agility (1 MW)
- Jadara University / Irbid (1.8)
- WWTP Agaba (1.8 MW)

Contact

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Tel.: +962-6-5684907 Fax: +962-6-5684438 Amman, Jordan info@solisdepot.com www.solisdepot.com

Solis Depot is headquartered in Jordan with offices in Egypt, Oman, and Lebanon. It is active in the Middle East and North Africa as a Solar Service company that is fully committed to supplying Huawei Solar PV inverters.

Solis Depot focuses on providing high-quality inverters for its clients while prioritizing and managing resources effectively and efficiently to continuously create value. The company places utmost priority on the safety of its clients and employees, its environment and society. Solis Depot sells only the best products which are manufactured with the end-users in mind.

As a solar PV inverters provider for contractors in the residential, commercial, and utility fields. Solis Depot has delivered exceptional products utilized in completing thousands and thousands of solar PV projects.

The company's aim is to become the largest retailer of quality renewable energy products and accessories. Solis Depot is available 24/7 throughout the business cycle and beyond.

The vision of Solis Depot is to be a top-class solar service provider with on-time delivery, excellent support at competitive pricing. It's mission is to provide high-quality products and exceptional support services with a tireless dedication to meeting its client's solar PV needs; and to offer price competitiveness borne out of maximal operational efficiency; and to continue adhering to the highest levels of integrity that have been the trademark of the company's success.

Solis Depot is a Premier Provider of reliable, quality, durable, proven photovoltaic inverters from Huawei, giving you the opportunity to harness this free energy alternative. The company has a highly skilled technical team that offers pre-sales technical and after-sales service and emergency support. Solis Depot also guarantees the availability of spares for immediate replacement.

Customers choose Solis Depot because of trust, agility and response, its team, and customer support.

Solis Depot places its customers in the center and focus of all its activities. The company constantly strives to deliver products of the highest quality and to offer impeccable support services which will be of great benefit to its clients.

Solis depot is agile and responsive. The company strongly focuses on delivering the best products along with exceptional after-sale support services which are of value to its clients; delivering simple and authentic solutions that not only meet the imaginations but also exceed the expectations of its

The Solis Depot team combines its strengths while releasing the potential in each team member who thinks boldly, broadly, and acts responsibly.

Regarding customer support, Solis Depot offers impeccable services to its clients; providing quality, timely, transparent, and personable communication and after-sales support services.

Distributors in Jordan



Certifications & Awards





- Excellent VAP Award 2022
- Excellent VAP Award 2023
- Best residential performing VAP 2024

Achievements

- 250+Top Customers
- 500+ MW successful Deliveries in the
- 15000+ Operational Projects using Huwaei Fusionsolar.
- 22000+ Huawei Inverters Installed.
- · Sales in 14 countries in the Region • Projects raining from 2 KW up to 50
- 10 Top Distributors in the Region.

Selected Projects



C-Town 3.4 MW, Jordan



Mass Group Holding Project 54MW, Sudar



Sharm ElSheikh COP27 6 MW, Egypt







Key Staff



Regional Business Manager



Abdullah Hamam Sales Manager



Mohamad Alsharayri Technical Manager



Operation Manager

Energy Technology Providers

Triple A Co.





Establishment Year: 2019 Number of Staff: 20

Services

- Dry Ice Cleaning Services
- Solar Panels Cleaning Services
- HVAC Cleaning Services
 Kitchen Exhaust Cleaning Services
- Glass and Stainless-Steel Restoration Services
- Sanitization and Disinfection Services

Products

- Semi Robotic Cleaning Solutions
- JCB Cleaning Services
- Floppy Sprinklers Rain on Demand
- Manual Solutions

Markets

Jordan.

Triple A Co. is the sister company of Philadelphia Solar in Jordan, providing the best customized cleaning solutions and services that are environmentally friendly. Backed by years of extensive experience, in-house, and a trained team of engineers, technicians, and a project management team, Triple A Co. is well positioned to match its expertise with client's requirements of industry standard products and services with outstanding technical support and customer service.

The company's vision is to offer the best industry standards utilizing state-of-the-art technology equipment and services. Its mission is to provide customers with the latest technology cleaning equipment, specialized services and solutions with the best customer service and technical support.

The life of solar panels is greatly shortened without proper cleaning, due to aggregation of energy loss over time and the occurrence of hot spots. Soiling losses were found to be 0.12% to 0.21% per day. Sites are observed to have a decrease in efficiency from 7.2% to 5.6% (22% efficiency loss) during a 108-day dry period in the summer, at which point a rain event could recover most of the lost efficiency going back to 7.1%. Bird droppings also cause hot spots, damaging the whole panel quickly. If an automated cleaning system was installed to clean the sites regularly, larger energy gains would be possible; on average 11.1% of annual energy.

It is essential to clean the solar panels to increase energy yield and performance, to maximize productivity and efficiency, to maintain panels and system warranty, to reduce energy losses and more efficiency, and to eliminate dust, dirt, bird dropping and pollen.

Triple A Co. also provides project consultancy services, project design and customization, specialized services and solutions, pre and post services reports, annual maintenance contracts, and after sales services. ■

Key Staff

Ahmed Shehadeh Managing Director

United Cable Industries Company (UCIC)



Facts

Establishment Years: 2007 Number of Staff: 200

Products

- Domestic Cables of Building Wires and Flat Cables rated (450-750) Volt
- Flexible Cables rated (300-500) Volt
- Low Voltage Power Cables rated (600-1000) Volt
- Instrumentation and Control Cables rated (600-1000) Volt
- ABC Cables and Overhead Conductors for HV and MV Transmission lines
- Fire Resistant and Special cables
- Solar Cables

Projects

- JORDAN: National Electric Power Company. NEPCO, Jordanian Electric Power Company (JEPCO), Irbid District Electricity Company (IDECO), Electricity Distribution Company (EDCO), Abdali Medical Center, German Jordanian University, Queen Alia International Airport Expansion.
- IRAQ: Althuhat Company (UCIC Export Distributors-Iraq)
- UAE: Belectric Gulf Ltd
- KSA: Al Fozan Holding Group, Saudi Electricity Company

United Cable Industries Company (UCIC) is a public shareholding company that was established in 2007 with a paid-up capital of 50 Million USD, as a manufacturer with the mission of supplying the regional markets with high quality power cables and wires and with the best services that will contribute to the development of the region.

The plant is located in the northern part of Jordan, on the main Amman-Mafraq highway, around 50 km from Amman, Jordan. It covers an area of 27,000 m2 out of the 160,000 m2 available. UCIC manufacturing facilities are equipped with the state-of-the-art machinery and high-tech laboratories that ensure top quality products and services.

During a very short period of time, and with steadfast and continuous improvement, UCIC extended its product range and the quality of its products and services. UCIC believes that supplying its high-quality products based on projects and customers specifications will be the primary factor in winning customer loyalty.

UCIC products are manufactured according to international standards including BS, VDE, IEC, ASTM, NFC and DIN and are tested and certified by prestigious institutions such as BSI and DEKRA (KEMA).

UCIC is expanding its presence beyond Jordan to Iraq, Saudi Arabia and other GCC countries; in addition to going further into the EU market.

For any detailed information about UCIC please feel free to visit the website www.uciccables.com

Key Staff

Suleiman A. Abu Lehyah Vice Chairman, CEO

Areej Yousef Deputy General Manager

> Bashar Alwadyan Sales Section Head

Certificates











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Products







Energy Technology Providers

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Jordan Oil Terminals Company (JOTC)



Facts

Establishment year: 2015 Number of Staff: Over 150 Total Project Capacity: 755 (Thousand CBM)

Services

- Storage and Handling
- Strategic Stock Management
- Transportation

Terminals

- Amman Strategic Terminal for Petroleum Products
- Agaba Oil and LPG Terminal
- Aqaba Heavy Oil Terminal

JOTC is the first independent, openaccess storage provider in Jordan offering world-class storage, handling, transportation, for local and regional clients in the petroleum industry. To ensure 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.

Founded in 2015, JOTC is a private shareholding company, wholly owned by the Government of the Hashemite Kingdom of Jordan.

JOTC's vision 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's mission is to be a profit-making company, established to ensure the security of fuel supply and promote a competitive petroleum products market in Jordan; providing its customers, from the private and public sectors, with safe, reliable and efficient logistics services (storage, and transportation), in a non-discriminatory manner, and according to the international industry standards by investing in its intellectual capital, building and operating world-class terminals in strategic locations across Jordan.

JOTC services are Storage and Handling, Strategic Stock Management, and Transportation.

Regarding Storage and Handling, JOTC provides an unrivaled array of storage and handling services to Oil Marketing Companies (OMCs) and LPG Distribution Companies, who entrust JOTC with their key logistical activities. A wide variety of petroleum liquid products are stored in its terminals namely Gasoline, Diesel, Jet Fuel, Kerosene, Heavy Fuel Oil (HFO), and Liquified Petroleum Gas (LPG).

As for Strategic Stock Management,

JOTC serves social and national security goals. The Government of Jordan has entrusted JOTC to store and manage its strategic stock of petroleum products as well as the oil marketing companies' stock as their requirements.

Transportation marks the heartbeat of the bulk storage industry. JOTC has capitalized on being a leading storage provider and launched recently in-land transportation services to its customers; transporting through various local companies, who own a huge fleet of trucks that meet all the necessary sanitary and technical standards.

JOTC has State-of-the-Art Terminals in Amman and Agaba.

The Amman Strategic Terminal for Petroleum Products (ASTPP) is primarily used for the storage of the country's strategic stock of petroleum products. The terminal contains 14 storage tanks for petroleum products, of around 400,000 CBM capacity, and 8 LPG spheres of around 30,000 CBM total capacity. In addition to 18 loading bays.

Aqaba Oil and LPG Terminal (AOT) has been built to meet the current and future demand of petroleum products and LPG imports to Jordan. The terminal contains 6 storage tanks for Petroleum products of around 120 thousand CBM total capacity and 3 LPG spheres of 11 thousand CBM total capacity; in addition to 16 loading bays.

Aqaba Heavy Oil Terminal's products are called upon on a need-to-use basis to maintain energy security, and to export heavy fuel to foreign markets. This reliable terminal has 5 fixed roof tanks with a total capacity of around 210 thousand CBM, in addition to 4 loading bays. Two HFO tanks are heated by a solar heating system for export reasons.

Relationships and trust are the foundation of everything JOTC does. Customers entrust JOTC not only with their products, but also their aspirations and their plans for the future.

Are you ready to conduct business with JOTC? JOTC is here to provide you with more information, answer any questions you may have, and create an effective solution for your storage needs in Jordan and the MENA region.





Terminals

ASTPP 1

Fuel Oil Tanks



Key Staff

Eng. Hasan Alheyari Managing Director



Eng. Kholoud Al Mahasneh General Manager



Eng. Ghassan Al Nawaiseh
Operations & Terminals
director



Mohammad Qatatsheh Commercial and Procurement Manager



Eng. Amer Khanshiri QHSSE Manager



Khaled Al Nimer Finance Manager

Why JOTC

- Safety Excellence
- Operational Expertise
- Implementation of Latest Technologies
- Customer Oriented Approach
- Neutral Position in Oil and Gas Sector
- Solid Governmental Networks

Conventional Energy Services

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Algebra Intelligence



Facts

Establishment Year: 2020 Number of Staff: 25

Services

- Energy Monitoring
- Proactive Notifications
- Set Points and Thresholds
- Reporting and Data Analysis
- Energy Forecasting
- Corrective Maintenance
- Preventive Maintenance
- Asset ManagementConsultancy Services
- Including:
- Renewable Energy
 Projects Development and
 Consultancy
- Testing and Commissioning
- Operation and Maintenance

Markets

Jordan, Saudi Arabia.

Algebra Intelligence is specialized in IOT-based solutions for energy, maintenance and operation management systems. It excels in monitoring energy usage, improving energy performance, organizing maintenance orders, improving team productivity.

Algebra Intelligence's first product is Taqtak; an energy management system designed for electrical systems and portfolios. It enables effortless energy monitoring, supported by features such as energy forecasting, proactive notifications, and energy breakdown. Taqtak ensures professional monitoring, and integration, resulting in improved financial benefits and operational efficiency.

Taqtak effortlessly connects to smart sensors and IoT devices, offering near real time energy consumption insights. From smart meters to temperature and humidity sensors, Taqtak seamlessly integrates diverse IoT devices. Algebra Intelligence's user-friendly setup ensures businesses can maximize their energy data for efficiency and sustainability.

Taqtak can help users make data driven decisions, improve energy efficiency, lower carbon footprint, reduce equipment downtime and cut costs.

In line with Algebra Intelligence's commitment to simplifying processes for its clients, The company developed its second product Donefy, a maintenance management system designed to streamline maintenance activities within an organization's facility. It serves as a centralized platform that consolidates maintenance information and aids in the efficient handling of maintenance operations.

Donefy plays a crucial role in conducting maintenance tasks on equipment, assets, and properties. It offers functionalities that enable tracking of completed and assigned tasks, empowering maintenance workers to carry out their duties more effectively. Additionally, it generates status reports that provide valuable insights for management, facilitating informed decisionmaking across all maintenance activities. Furthermore, it optimizes the utilization and availability of physical equipment, machinery, communication systems, plant infrastructures, and other valuable assets within an organization.

All of this helps users reduce maintenance costs, increase visibility and transparency, automate key business processes, and increase team productivity.

Algebra Intelligence's vision is to challenge the current standards of facility energy and asset management across the MENA region through world class technologies.

Meanwhile, Algebra Intelligence's mission is to lead the transformation of sustainable energy and asset management by making it smart, data-driven and accessible. ■

Solution donefy 7 taqtak







Branches

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Figures

- Total number of points monitored in projects: 415+
- Number of Projects in Jordan and Saudi Arabia: 140+
- Featured by Forbes Middle East among the "Top 10 Sustainable Startups in the Middle East and North Africa"
- Featured in StartUs Insights as one of the "10 Top Predictive Maintenance Startups in 2023 on the global level"

Website



Key Staff



Ahmad Altawafsheh Founder & CEO



Batool Al Mallahi



Osama Adwan Head of Engineering

Contact

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2 Supporting Services

Project Fact Sheets

Companies participating in this publication with a profile also have the opportunity to provide detailed insights into selected projects which they are working on or have completed. This section includes the project's technical specifications, the client's need being met by the solution offered, the timeline of kick-off and delivery, project photos and more information. It is a valuable and unique source of such details on these projects.











Manufacturing Company

Centro Mada Amman

Green Thermal Heating



Balga Applied University (BAU)





Hotel by Rotana

Project for JOTC



Al Husainiyah Solar

Power Plant



Princess Noura University

Solar Thermal Solution

Al Badiya

Majid Al Futtaim

Solar Park for Carrefour



Solar Park for Tai Lifestyle Center / Safeway











Grand Egyptian Museum







Oryx Solar Power Plant

Vestas Wind Turbines

Imlag factory

Arab Potash Co.

Al Khateeb Vegetable

Energy Technology Manufacturers

AMPS Middle East FZLLC (Eastman Solar)



SMA Solar Technology AG



Abdali Mall

Project Facts

- Project Size: 1.923 MWp
- Project Type: Engineering, Procurement, Construction, Operation and Maintenance
- 4355 PV Modules
- 23 String Inverters
- Two types of mounting installations; ground mounted single axis tracker and fixed rooftop
- CO2 emission reduction: 1650 Tons / Year
- Total Energy generated: 3560 MWh / Year
- · Commissioning date: October

In 2021, ALTAYSEER provided a full turn key solution for the engineering design, supply, installation, testing and commissioning of a 1.923 MWp Solar PV system for Abdali Mall. This is part of a 3 MWp solar plant that Alternative Energy Project Co. had developed for Abdali Mall.

The 1.923 MWp PV system installation includes 4355 PV Modules, 23 String Inverters and two types of mounting installations. One is a ground mounted single axis tracker (which results in a 20% higher energy production compared to a traditional fixed mounted installation) and the other is fixed rooftop

ALTAYSEER renewable energy department is also responsible for the O&M and Performance monitoring of the plant. All operation, maintenance and performance monitoring are done based on IEC61724.

Furthermore, regular Preventive Maintenance activities are performed at regular intervals to guarantee the quality, reliability and maximum energy output of the PV plant.

The 1.923 MWp solar plant was commercially commissioned in October 2021 and produces 3560 MWh per Year, which contributes to CO2 savings of 1650 Tons per Year. ■

Project Images









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Project by





Net Metering PV system for NUTRIDAR



Project Facts

- Location: Amman, Naour.
- Capacity: 715.44 kWp
- Project type: Net Metering
- PV Modules type: Jinko
- Inverters type: ABB
- Mounting type: Rooftop, Ground Mount
- Execution Period: 4 Months
- Energy Yield (kWh/Year): 1,159,000
- Payback Period: 5 Years

ETA-max Energy and Environmental Solutions provided NUTRIDAR (Dar Al-Food Public Shareholding Company Limited) with a turnkey solution for the design, procurement, installation, and commissioning of a Net Metering PV system with a capacity of 715.44 kWp to cover part of its electricity consumption.

The plant uses Jinko PV modules with ABB inverters in a rooftop Ground Mount mounting type.

The plant, since its operations, has produced 1,159,000 MWh annually.

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

Project Images





Contact

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Project by



Royal Academy of Culinary Arts (RACA)



Project Facts

- Location: Khalda, Amman
- Capacity: 224.96 kWp
- PV Modules Type: Jinko
- Inverters Type: ABB
- Mounting Type: rooftop, car park
- Execution Period: 1 Year
- Energy Yield (kWh/Year): 361,120
- Payback Period: 2 years

ETA-max Energy and Environmental Solutions provided Royal Academy of Culinary Arts (RACA) with a turnkey solution for the design, procurement, installation, and commissioning of a roof top and car park mount PV system with a capacity of 226.81 kWp to cover the electricity consumption of the RACA building in Amman.

The plant was commercially operated in September 2021 and produces 367.92 MWh annually.

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

Project Images









Contact

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Project by



96 Project Fact Sheet 97

German Jordanian University (2.11MWp Solar Energy Plant)



Project Facts

- Project Size: 2.11 MWp
- Commercial Operation Date: 1.10.2017
- Payback period: Two years, eight months and 15 days
- Expected in 20 years:
- Total Energy generation: 75,960,000 KWh
- Total investment savings: 19,200,000 JOD
- CO2 emission reduction: 29,148,814 Kg
- Oil savings: 67,485 Oil barrels
- Main Components:
- Solar modules: Jinko Solar
- Mounting structure: Schletter
- Inverter: ABB
- AC / DC Cables: Cabelco
- SCADA System: Opto 22
- Automatic Weather Station: Campbell Scientific
- Cleaning Machine: MM Spray

The station system is designed to produce electricity for the university, while at the same time covering a car parking area as well as providing canopies for students, and a roof top application and prefab and warehouses application. Accordingly, the photovoltaics receive energy from sunlight to be used by the university. This system works automatically, without any interference from any party other than regular and emergency maintenance to ensure outstanding plant performance.

The total capacity of the photovoltaic system is 2.11MWp. The system consists of 6702 Jinko Solar PV modules with a rated power of 315Wp for each. The mounting system is made of aluminum by Schletter Solar Mounting Group.

The DC side is connected to 79 ABB inverters; 50 nos of TRIO-27.6-TL-OUTD,26 nos of TRIO-20.0-TL-OUTD and 3 nos of PVI-12.5-TL-OUTD. The AC output of the inverters are connected to 27 AC combiner-boxes (SDB) that feed the power to six main distribution boards (MDBs). The main distribution boards (MDBs) are connected to the LV main distribution boards of GJU.

They were distributed on different plants inside the campus in the form of carports and aisles canopies for students and pedestrians; in addition to plants on the rooftops of buildings and rooftops of prefabs. All forms contribute to the provision of shaded areas for cars and pedestrians and add to the aesthetic appearance of the university. Also, the carports and canopies are equipped with a lighting system that reflects a distinctive aesthetic appeal to those areas at night.

The project's main target was to cover complete electricity consumption of the German Jordanian University providing them with net-zero energy.

FB GROUP's scope as the main contractor included, but was not limited to, financing, designing, approvals obtaining, supplying, installing, connecting, and operating of the plant components until final hand over, as well as operation and maintenance for 6 Years.

Project Images



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Project by



Jordan Chalk Manufacturing Company



Project Facts

- · Location: Al Karak
- Capacity: 503.8 kWp
- Project Type: Hanger rooftop
- Total Energy Generated: 764 megawatt-hours (MWh)
- Payback Period: 4 years

Green Electron Energy Solutions delivered a comprehensive solution to The Jordan Chalk Manufacturing Company encompassing the design, procurement, installation, and commissioning of a Hanger rooftop mount Solar PV system, with a capacity of 503.8 kWp, which is connected with the EDCO grid utility,

The project designed a surplus of 145% to cover the entire current and the future electricity demand of the factory buildings in Al Karak.

The payback period for this initiative is estimated to be approximately 4 years.

The operational commencement of the plant occurred in September 2023, and it is projected to generate an annual output of 764 megawatt-hours (MWh). This strategic investment proves highly viable within the particular sector, leveraging the competitive landscape of the industrial sector to reduce overhead costs and to boost overall profitability.

Project Images









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Project by



Centro Mada Amman Hotel by Rotana

Project Facts

- Commissioning date: 30th of June, 2022
- Scope: EPC and O&M
- Type of Modules: Canadian Solar 405 W
- Type of Inverters: SMA
- Type of Mounting Structure: Schletter
- Monitoring System: MeteoControl

Izzat Marji Group has successfully designed, supplied, installed, and commissioned a large scale solar photovoltaic system for Centro Mada Amman Hotel by Rotana.

The system capacity is 1MW, with an annual generation of 1,512,800 kWh.

This system avoids more than 883 tons of carbon dioxide and saves 135,000 JOD annually.

The power plant is transmitting electricity to the grid through the wheeling mechanism and is producing enough electricity to cover the majority of the hotel electricity consumption.

Operation and maintenance are handled by Izzat Marji Group for the upcoming years. ■

Project Images





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izzat marji group

Green Thermal Heating Project for JOTC Heavy Fuel Oil (HFO) Tanks

Project Facts

- Project Concept: HFO Heating Via Solar Thermal Water Heating System
- Project Contract Type: EPC Lump Sum Turnkey Project Contract (FIDIC Silver Book)
- Collectors' Aperture Area: 1.543m²
- Annual Solar Thermal Power: 2.213 MWh
- Gross Volume of Heated HFO: 86,000 m3
- Number of Heated HFO Tanks: Two Tanks
- Insulation and Cladding works: More than 5,000m2

Jordan Oil Terminals Company (JOTC), a government-owned entity, and Next Renewable Energy Company (Millennium Energy Industries - MEI) have jointly completed a pioneering project to design, install and operate a solar thermal heating system for two Heavy Fuel Oil (HFO) storage tanks located within Agaba Thermal Power Station (ATPS) premises.

JOTC, a leader in petroleum and gas storage services in Jordan, aimed to cut costs and adopt eco-friendly sustainable solutions. MEI, known for its renewable energy expertise, was chosen to execute the project.

This breakthrough initiative, the first of its kind globally, signifies the potential of using clean energy in traditional energy facilities. The system, with a 1.2 MWt capacity, is estimated to yield 2,213 MWh/year, saving 380,000 liters of diesel fuel and mitigating 1,017 tons of CO2 emissions annually.

Since March 2023, the system has been commissioned and operational, functioning in an automated mode without the requirement for continuous human supervision. This is achievable because the system is fully automated, offering the convenience of remote and local control. ■

Project Images









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Project by

الشركة اللوجستية الأردنية للمرافق النفطية JORDAN OIL TERMINALS COMPANY



Al Hussein Youth City (HYC)

Project Facts

- Project Size:2.8MWp
- Project Location: Al Hussein Youth City Amman
- Commercial Operation Date:30 December 2023
- Main Components:
- Solar modules: Jinko Solar
- Inverter: ABB (50 KW and 27.6 KW)
- Expected production: 4.4 GWh annually
- Reduce CO2 emissions 2,363 Tonnes/Year

The HYC solar PV plant with 2.8 MWp-net metering is owned by the Ministry of Youth, located in Al Hussein Youth City in Amman, Jordan, and is connected with the grid utility related to JEPCO and consists of Jinko JKM-545-M-72HL4 modules and ABB (50KW and 27.6 KW) inverters connected to nine separate electricity meters with JEPCO, this project can reduce 2,363 tonnes of CO2/year as also 4.1GWh per year this amount of energy can light up to 1467 house/year.

Kawar Energy celebrates the successful commissioning of 2.6 MWp of the project, a testament to collaborative efforts with JEPCO and stringent oversight from the Ministry of Public Works and Housing (MoPWH).

Currently, only 200KW remains under construction, poised to seamlessly integrate into the operational framework. This strategic progression towards completion has led to an initial annual production of 4.1 GWh in the first year, showcasing the efficiency and potential of the project. Scheduled for full operation by December 30, 2023, under the DBOT solution by Kawar Energy, the power plant anticipates an annual production of 4.4 GWh, promising substantial contributions to the energy sector.

Project Images



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Project by



Balqa Applied University (BAU)

Project Facts

- Project Size: 9.634 MWp
- Project Owner: Balqa'a Applied University
- Project location: Al-Salt Subaine
- Commercial Operation Date: 15th August 2023
- Main Components:
- Solar modules: Jinko Solar (JKM-545-M-72HL4)
- Inverter: KACO 50 KW (180 pieces)
- Expected production: 14.7 GWh annually

The Balqa Applied University (BAU) PV plant with 9.634 MWp is located in Salt, Jordan. Connected with the grid utility related to NEPCO and consists of 17,670 JKM-545-M-72HL4 modules and KACO 50 KW inverters 180 pieces, divided into 5 substations connected with NEPCO Subaihe SS with 7 MW AC.

The plant has commissioned operating in 15th of August ,2023 with an expected production of more that 14.5 GWh annually in the first year, Kawar Energy has completed the testing and commissioning successfully with NEPCO under the supervision of the TUV and it can reduce 7892 tonnes of CO2 emission per year as it can light 4900 houses per year.

Kawar Energy provides the DBOT solution for the Design, Procurement, Construct, Operation and Maintenance of the plant. ■

Project Images









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Project by



Canning Industries (Sayegh Group)



Project Facts

- Project Capacity: 1.1MWp
- Project Type: Roof Top
- Project Location: Marka, lordan
- Project Launch Date: March 2017
- Project Completion Date: September, 2018
- Steel Structure size: 3000

This project for Sayegh Group comprised the joint design and construction of a new Steel Structure facility sized over 3000 s.q.m. by maani steel, a subsidiary of maani ventures. It also included the construction of a Solar PV plant of over 12,000s.q.m. utilizing existing and new roof tops, by maani solar.

The project entailed the challenge of utilizing different roof tops with varying tilts and azimuths that was later delivered with an optimum design to achieve the highest possible return per kWp installed.

The 1.1MWp plant now covers 100% of the factory's consumption by generating over 1.7GWh annually and saving over 1020 tons of carbon dioxide per year in line with the client's ethos to lead in the field of manufacturing whilst protecting the environment.

Project Images



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Project by

Jordan Islamic Bank (Bonded, Sahab)



Project Facts

- Project Capacity: 2.714 MWp
- Project Type: Wheeling Project
- Project Location: Sahab -Jordan
- Number of inverters: 8,352 modules (325W)
- Number of inverters: 52 string inverters
- Project Launch Date: December, 2017
- Project Completion Date: April, 2018

Based on the mission of Jordan Islamic Bank to lead in the field of renewable energy, the project was developed to cover 85% of its branches' consumption in the capital Amman and in the cities of Madaba, Zarqa, and Salt via a "wheeling" program with JEPCO.

The project comprised the installation of 8,352 modules rated 325W by JA Solar and 52 string inverters by ABB and mounting system by Schletter.

As time was of the essence, the project was delivered and installed within a record time of less than 120 days to serve the client's mandate. ■

Project Images









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Princess Noura University (25MWth)

Project Facts

- Project Capacity: 25MW
- Project location: Riyadh, Kingdom of Saudi Arabia
- Date completed: July 2011

It is 2024, and MEI still holds the reference for the largest ST roof top project in the world. In July 2011, MEI commissioned the world's largest solar heating project, 25MWth, for Princess Noura University for Women (PNUW) in the Kingdom of Saudi Arabia.

MEI's scope included the design, supply, installation, integration, operation and maintenance of the full solar solution. This solution included over 900,000 liters of hot water storage, piping, as well as integration with 70MW conventional boiler capacity.

The project consists of 36,160m² of large flat plate solar collectors on a 60,000m² rooftop generating 25MWth, with all ancillary equipment that supports the district heating needs of the university.

The solar system is designed to provide 100% of the domestic hot water load during summer and 25% of the heating load (space and DHW) during winter.

While the prevailing share of the solar thermal generated heat is directly fed into the district heating grid, during times of higher radiation and low demand of hot water, excess heat is stored; the fixed plate solution presents slower operation and maintenance costs while saving approximately 52 million liters of conventional fuel and 125 million kg CO²emission in the 25-year system life. ■

Project Images









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Project by



Solar Thermal Solution for HFO Tanks in Aqaba

Project Facts

- Final Beneficiary: Aqaba HFO terminal
- Project Location: Agaba
- Ground-mounted installation near the tanks, covering an area of 1.500 m2
- Total capacity:1.2 MWt

Thermal system components:

- 125 large-scale units of highperformance solar thermal collectors, with each unit measuring 12.35 m2.
- Ground-mounted installation near the tanks, covering an area of 1,500 m2, with a total capacity of 1.2 MWt.
- Heat-exchanging coils inside the tanks, with a total coil length of appr. 1,000 m (diameter: 4").
- Automated control system for remote monitoring and operation without human intervention
- Web-based system for remote monitoring of the thermal system
- Heat-exchanging coils inside the tanks: total coil length of appr. 1,000 m (diameter: 4")
- Monitoring system: A webbased system for remote monitoring of the thermal system
- Estimated energy output from Solar system: 2,213 MWh/ year
- Estimated annual diesel savings for heating tanks: 6 and 7 = 380,000 liter/year at an approx. cost of USD 425,000
- Payback period: approximately one year
- CO2 savings = 1,017 tons/ year

The Aqaba HFO terminal, located at the decommissioned Thermal Power Station, is the largest HFO storage terminal in Jordan. It comprises seven tanks, each with a size of 43,000 m3, a diameter of 61m, and a height of 15m.

The objective of this project is to replace the heating of two Heavy Fuel Oil (HFO) tanks with a solar thermal solution for the Jordan Oil Terminal Company (JOTC), revolutionizing heavy fuel oil heating.

The design adheres to criteria including heating the tanks to 40 °C to expedite the transfer of HFO to vessels and reduce costs; maintaining a minimum tank temperature of 35 °C throughout the year; ensuring a pour point of not less than 30 °C and a flash point of 60 °C; complying with local and international Health, Safety, and Environment (HSE) requirements for oil terminals.

Solar energy is utilized as the primary heat source. Therefore, the project yields significant cost savings in energy consumption, enhancing the financial viability of operations. The estimated energy output from the solar system is 2,213 MWh/year, while estimated annual diesel savings for heating tanks 6 and 7 is 380,000 liter/year at an approximate cost of USD 425,000. The payback period is approximately one year. The integration of solar thermal systems ensures a reliable and consistent heat supply throughout the year, mitigating downtime risks and ensuring uninterrupted operation of the HFO tanks.

Project Images







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Project by



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 and Polycrystalline 320 Wp each
- Mounting structure: Philadelphia Magnelis steel ground mounting structures (Model: PS-4H-Fixed) and Single axis trackers, Philadelphia Magnelis steel mounting structure (Model: PS-1P-Tracker)
- Phase 1 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 MWp 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. ■

Project Images









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Project by



Al Husainiyah Solar Power Plant



Project Facts

- Project capacity: 66 MWp
- Number of PV panels: 200,000
- PV panels type: polycrystalline 330 W
- Commercial operating date (COD): 16th of September, 2021

Al Husainiyah Solar Power Plant project located in Ma'an Jordan with a total capacity of 66 MWp is one of the largest solar power plants in the region.

Philadelphia Solar (PS) has been developing the project since 2014 and signed a strategic partnership with AMEA Power in 2017, to reach commercial operation in September of 2021.

PS has collaborated to supply 200,000 high-quality, Jordanian-origin PV modules as well as to provide EPC services.

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 with clean energy from the Al-Husainiyah plant project. ■

Project Images





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Project by



Solar Park for Carrefour Majid Al Futtaim



Project Facts

- 17 MWp of capacity
- 49,260 solar panels installed
- 29 million kilowatt-hours of clean energy in Year 1
- 35 Carrefour stores powered with clean energy
- 300.000 tonnes of carbon emissions avoided over the system's lifetime.
- · 366,000 square meters covered

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 35 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 300,000 tonnes over the system's lifetime.

As the build-own-operate-transfer (BOOT) 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. ■

Project Images



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Solar Park for Taj Lifestyle TAJ Center / Safeway Lifestyle Center





Project Facts

- 8.1 MWp of capacity
- 14,640 megawatt-hours of clean energy in Year 1
- 11,430 tonnes of carbon emissions avoided
- 20,020 solar panels installed
- 94.000 square meters covered

Yellow Door Energy is the solar developer for Taj Lifestyle Center / Safeway's

Located in Al-Balga'a, Jordan, the solar park has a capacity of 8.1 MWp and will provide clean electricity to both Taj Lifestyle Center and Safeway in Jordan.

Through the solar wheeling agreement, the customers switched to clean energy without any upfront investment or operational risk. As the buildown-operate-transfer (BOOT) solar provider, Yellow Door Energy invested in designing, building, commissioning and operating and maintaining the solar

The solar park produces 14,640 megawatt-hours of clean energy in the first year of operation, equivalent to avoiding carbon emission by 11,430 tonnes. This is in line with the Kingdom's commitment of reaching 31% of renewable energy in its electricity mix by 2030. ■

Project Images







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Adwa Maan (24MWp) for Alcazar Energy



Project Facts

- Project Size: 24 MWp
- Project Location: Ma'an Area
- No. of PV Modules: 72160 SunEdison
- PV Modules Type: Monocrystaline 325 Wp, 330 Wp, 335Wp
- No. of Inverter Rooms: 16
- Mounting Structure: Single Axis Tracker

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

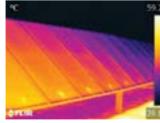
The PV tracker system consists of 16 inverters with 66 trackers. 60 trackers have 3 combiner boxes each and 6 trackers have 2 combiner boxes each. Each combiner box is connected to 20 strings with a 19 Modules/String. The modules were 325 Wp, 330 Wp and 335 Wp Monocrystalline from SunEdison.

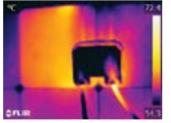
Adva Therm tasks were infrared thermal imaging of all PV modules (72,160 units), MC4 Connections and Module junction boxes, 198 DC Combiner boxes, and 16 Inverter rooms including DC Isolating Switches, Inverter Panels, AC Electrical Panels, Transformers and MV Switchgear.

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.

Project Images







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Project by



Eagle - Taibeh PV Solar Power Plant (5.72 MWp) for Belectric Gulf



Project Facts

- Project EPC Contractor:
 Belectric Gulf
- Project Type: IR Thermography Inspection
- Project Location: Taibeh, Irbid, Jordan
- Total Capacity: 5.742 MWp
- Trackers: Single Axis 166 units
- No. of Inverters: 128 with 50Kw ea
- No. of Modules: 15.732
- Modules Model: JA Solar / JAM72S01 365 Wp capacity.

The infrared thermography inspection for the PV solar power plant in Taibeh, Irbid, was requested by the client Belectric Gulf for all the PV modules and some DC connecters, randomly selected by the client.

The inspection was planned and executed in April 2022, during which the weather conditions were appropriate for Infrared Thermography surveying and conforming to international standards.

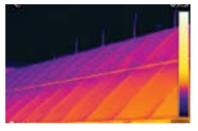
The PV system is a single axis tracker consisting of 166 trackers and 128 inverters, 50Kw each, with a total capacity of 5.742 MWp generated by 15,732 PV Solar modules. The modules are JA Solar / JAM72SO1 365 Wp capacity.

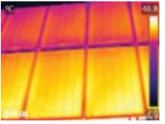
The PV system was inspected using a thermal camera in the daytime where the sun irradiation (POA) values ranged from 720 W/m2 - 1011 W/m2, as taken from the site weather station.

Adva Therm tasks were infrared thermal imaging of all PV modules and MC4 connections.

The final and the 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, recommended solution with repair priority that conforms to international standards. ■

Project Images







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(5.458 MWp) for Belectric Gulf



Project Facts

- Project EPC Contractor: Belectric Gulf
- Project Type: IR Thermography Inspection
- Project Location: Rabba Karak, Jordan
- Total Capacity: 5.458 MWp
- Trackers: Single Axis 158
- No. of Inverters: 40 with 100Kw ea
- No. of Modules: 14.953
- Modules Model: JA Solar / JAM72S01 365 Wp capacity.

The infrared thermography inspection for the PV solar power plant in Rabba in Karak was requested by the client Belectric Gulf for all the PV modules and some DC connecters, randomly selected by the client.

The inspection was planned and executed in April 2022 during which the weather conditions were appropriate for Infrared Thermography surveying and conforming to international standards.

The PV system is a single axis tracker consisting of 158 trackers and 40 inverters, 100Kw each, with a total capacity of 5,458 MWp generated by 14,953 PV Solar modules. The modules are JA Solar / JAM72S01 365 Wp capacity.

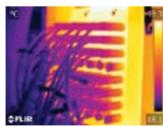
The PV system was inspected using a thermal camera in the daytime where the sun irradiation (POA) values ranged from 780 W/ m2 - 1032 W/m2 as taken from the site weather station.

Adva Therm tasks were infrared thermal imaging of all PV modules and MC4 connections.

The final and the 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, recommended solution with repair priority that conforms to international standards.

Project Images







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Project by



Grand Egyptian Museum

Project Facts

- · Location: Giza, Egypt
- · Project Type: Cultural (Museum)
- Total Gross Area: 76,000 m²
- Achieved Certification: EDGE Advanced
- Client: International Finance Corporation (IFC)
- Expected Energy Savings of
- Expected Water Savings of
- Services Provided: EDGE Certification Administration, EDGE Expert
- Current Phase: Construction Completed

The Grand Egyptian Museum Campus is one-of-a-kind and the largest archaeological museum complex in the world. The Grand Egyptian Museum building is the main building on the campus site.

The high-end sustainable design of the museum contributed to the project's success in earning the EDGE Advanced Certification by achieving an energy saving of more than 2,700,000 kWh every year by applying many measures, including optimum orientation and window-to-wall ratio, fully thermally insulated exterior walls and roof with special attention to detailing, highly reflective cool roofs, highly efficient building envelope, highly efficient heating and cooling systems, an efficient lighting system for internal and external areas equipped with lighting controls, and a BMS system.

The integration of clearstories and shading devices has maximized natural daylight, reducing the need for lighting and air conditioning loads. The project utilizes a renewable energy system consisting of solar panels that cover more than 25% of the annual electricity use.

Regarding water, more than 63,400,000 liters of water are saved every year by applying water-efficient plumbing fixtures and HVAC systems.

The above savings will contribute to the saving of more than 1,400 tCO₂e in operational emissions annually.

Project Images









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King Hussein Business Park infill (5 buildings)

Project Facts

- · Location: Amman, Jordan
- Project Type: Core and Shell
- Number of Buildings: 5 Buildings
- Total Gross Area: 26,000 m2
- Achieved Certification: EDGE
 Advanced
- Client: Business Park Company
- Services Provided: EDGE
 Certification Administration,
 EDGE Expert
- Current Phase: Operation Phase
- Achieved Water Saving: +35%
- Achieved Energy Saving: +40%
- Achieved Savings in Embodied Energy in Materials: +20%

The new King Hussein Business Park (KHBP) infill project consists of five separate buildings, each around 5,000 m2, with six above-ground floors. The new buildings are constructed as Core and Shell structures and are leased mainly as offices for international and regional companies, with two of the buildings occupied by Al Hussein Technical University.

The KHBP's Infill project has earned EDGE Advanced certification, achieving over 40% energy savings, 35% water savings, and 20% savings in embodied energy in material as compared to typical local practices by implementing highly efficient measures in energy and in water.

In energy, over 1 million kWh and 140+ operational tCO2 are saved annually by applying many measures, including optimum orientation and window-to-wall ratio, external shading devices, fully thermally insulated exterior walls and roofs with special attention to detailing, highly reflective cool roofs and external walls, a highly efficient building envelope, highly efficient HVAC systems, and an efficient lighting system for internal and external areas.

In terms of water, the project has successfully conserved over 12 million liters of water annually through the implementation of water-efficient plumbing fixtures and HVAC systems. ■

Project Images









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Project by



Oryx Solar Power Plant

Project Facts

- Project Type: Thermal Inspection.
- Project Developer & EPC Contractor: Scatec Solar AS (Norway).
- Project Location: Ma'an, Jordan.
- Year and Duration: 2023.
- Size: 10.46 MWp.
- No. of PV Modules: 34,320 Solar Modules.
- Mounting Structure: Single Axis Track.

Sager provided a solar plant optimal thermal inspection to Oryx Solar Power Plant. Located in Ma'an, Jordan. The project is one of the first utility-scale solar plants in Jordan, established in 2014 and developed by Scatec Solar AS (Norway).

A team of drone operators and quality assurance officers worked in collaboration to conduct the drone inspection mission while continuously monitoring weather conditions through the SCADA system. Thermal and RGB images were captured from specific angles, including a detailed thermal and RGB map of the site.

Using traditional methods, this inspection would have taken more than 15 days. By utilizing a UAV (Unmanned Aerial Vehicle), Sager took the challenge of encompassing thorough inspections of all 34,320 solar modules of the project in only one day! That included an infrared thermography inspection to assess their condition, and efficiency in compliance with IEC62446-3. SCADA data was carefully reviewed before preceding the inspection, ensuring that the plant was operating within expected parameters, and with the required weather conditions.

The results and insights obtained from this comprehensive inspection are accessible through SagerSpace™. The platform offers a full report and analysis of the plant, with an interactive geo-referenced map pinpointing all detected anomalies. ■

Project Images





Contact

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Project by



Vestas Wind Turbines

Project Facts

- Project Type: Wind Turbine Blade Inspection.
- Project Location: Fujeiji,
 Shobak, and Tafila in Jordan
- Year: 2023
- Total Capacity: 236 MWp
- No. of WTG's: 73
- WTG's Model: V126-3.3 MW, V136-3.45 MW, V112-3.0 M

Sager provided Vestas, a leading wind turbine manufacturer, with accurate blade inspections for their wind turbines in record time.

Sager conducted inspections on a total of 73 wind turbines for Vestas in the regions of Shobak, Fujeiji, and Tafila. Remarkably, it took only 14 days to complete the inspection process, demonstrating Sager's expertise in wind turbine inspections and unwavering dedication to its clients, no matter the challenges. Traditional wind turbine inspection methods are problematic, as ground cameras and manual labor-intensive wire inspections proved impractical, time-consuming, and life threatening. Resulting in low-quality data. This hinders proactive maintenance, damage detection, and increased operational costs.

Sager's action addresses these challenges head-on by using advanced drones, promising high-quality data capture, cost-effectiveness, and enhanced safety. Drones are the ideal choice due to their ability to access challenging turbine areas safely and to minimize human error. Planning, preparing, customizing drones with specialized high-resolution imaging payloads, and comprehensive data collection are all part of Sager's action. Weather conditions are tackled as well, through advanced weather forecasting and optimized flight paths to meet the limited inspection time.

Project Images







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Project by



Imlaq factory



Project Facts

- Capacity: 2.7 MW
- Location: Mafrag / Jordan
- Robotic installation: 2021
- Installation type: Industrial roof-top
- · Year of Study: 2022
- Insufficient Cleaning Cost JD/ year: \$ 103,600
- Water Consumption: 32 m3/ Cleaning cycle
- Expected Dust Cost over 10 years: \$ 1,348,285
- Payback Period: 1.1 Year
- Extra Energy Generation: 949,158 kWh / year
- CO2 emissions avoided: 641 Ton CO2 / year
- Saving in Consumed Water: 173 m3 / year

DARBCO conducted a Cleaning Analysis of the Imlaq factory (Giant Industrial Group), based on real on-site measurements.

The Imlaq PV project recorded a 23.7% increase in generation in its first operation year. The adoption of robotic cleaning solutions for PV systems can significantly improve overall system performance and long-term sustainability, while reducing operational costs by 60%. Average dust losses exceeded \$100,000 per year and enhanced sustainability factors in water consumption reduced the water cleaning cycle more than 80%.

The previous cleaning system was manual, by cleaning personnel using traditional and manual methods. This involved use of water and telescopic brushes, on a monthly basis and for a seven-day period to clean the entire solar farm. It required water use of 12 m3 per megawatt, with significant labor expenses of five laborers per cycle, depending on the personnel's skill and effort.

DARBCO Robotic Cleaning commenced operations in 2021 with a Multi Axis system of 4 robotics of 14m and 1 R robot of 4m. The cleaning period is weekly, for 2 hours only, with one laborer to monitor and operate.

The solution implementation resulted in enhancing energy generation by 23%, eliminating dust cost for the upcoming 10 years worth a value of \$1,348,285 and reducing water use by 80% and which leads to preventing PV panels from damage or unexpected degradation in generation (eliminating micro-cracks and hot-spots). ■

Project Images





Contact

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Supplied by



Special Projects for The Arab Potash Co.



Project Facts

- Type: Plant Rehabilitation and Maintenance
- · Commissioning Dates:
- January 2019: Crystallizer # 2 Replacement
- April 2021: Hot Thickener Tank Roof Replacement
- May 2021: Crystallizer # 3
- March 2022: Crystallizer # 2 Emergency Repair
- January 2023: Design and Supply of Carnallite Centrifuge Casings
- Feb, 2023 and ongoing:
 Maintaining plant dedusting systems (10+ Baghouses)

Together with renowned partners such as ALTRAD-Cape, GBT Buecolit, HAW Linings, VDM Metals and BUTTING, ITCC executed several plant rehabilitation and maintenance projects at the Arab Potash Company that span from critical plant equipment replacements, emergency repairs, tailor-made designs, to operation and maintenance services.

Two Crystallizers were fully replaced while One Crystallizer was repaired onsite in record time following a fire incident. Additionally, rubber lining repairs were performed in critical plant equipment.

Hot Thickener Tank Roof Panels (FRP Panels) were designed, supplied and installed on-site during a record shutdown period of 9 days.

Supply of Alloy 400 and 625 Pipes, Fittings, Plates and Pre-Fabricated Spools along with the design and supply of Six Carnallite Centrifuge Casings made from SS316L.

In addition, annual frame agreements were signed and executed for plant scaffolding and maintaining plant dedusting systems. ■

Project Images









Contact

120

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Supplied by



Al Khateeb Vegetable Farm

Project Facts

- Project Capacity: 1MWp
- No. of PV Panels: 1850
- Power of module: 540W

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.

Project Images





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Supplied by



AMPS Middle East FZ-LLC (Eastman Solar)



Facts

Establishment Year: 2006 Presence: 26 countries (with global network of 100+ distributors)

Contact

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www.eastmanworld.com

Jordan: IDHAL for Solar Energy Solutions Est. Tel: + 962-77-0182184 info@idhalsolar.com

www.idhalsolar.com

AMPS Middle East, a wholly owned subsidiary of the renowned Eastman Auto and Power Limited, was formed with the objective of overseeing Eastman's export business in essential regions such as Africa, the Middle East, CIS and Europe.

Established in 2006, Eastman Auto and Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a revenue of USD 300 million and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of its partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto and Power Limited.

Today, the business spans 26 countries across Asia, Africa, Middle East, and Europe and it provides the world with cutting-edge products that have set new benchmarks in their respective segments. Driven by innovation, the company continually sets industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications; with key focus on solar and non-solar technology research.

The global solar distribution business of Eastman Solar provides reliable and high-quality solar solutions, including solar inverters, solar panels, solar batteries (carbon, gel, lithium, and tubular), solar pump inverters, solar charge controllers, and more. These products offer a range of solutions to help you make the switch to clean energy. As your unwavering partners, Eastman Solar forges a sustainable future, amplifying global excellence through transformative products and services.





Jinko Solar Co.



Facts

Establishment Year: 2006 Total Projects Capacity: Over 210 Gigawatts Worldwide Services Centers: 35+ Covered Countries: 190+ Annual Orders: 8000+

Contact

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Jinko Solar Co., Ltd. (referred to as "Jinko Solar," stock code: 688223) is a globally renowned and highly innovative solar technology company. Embracing the mission of "changing the energy portfolio and taking responsibility for enabling a sustainable future," the company strategically positions itself in the core segments of the photovoltaic industry chain. It focuses on integrated research, development, and manufacturing of photovoltaic products, as well as providing comprehensive clean energy solutions, leading in sales in the global mainstream photovoltaic market.

JinkoSolar's products serve over 190 countries and regions worldwide, catering to more than 3,000 customers. For several years, JinkoSolar has maintained its position as the global leader in module shipments. As of the third quarter of 2023, the cumulative module shipments of the company have exceeded 200 GW. The company is an industry opinion leader in various international frameworks, including B20, and joined the RE100 green initiative in 2019.

Jinko Solar was listed on the STAR Board of the Shanghai Stock Exchange in 2022, and JinkoSolar Holding Co., Ltd., its indirect controlling shareholder, was listed on the New York Stock Exchange in 2010.

JinkoSolar pioneered the "vertical integration" capacity from silicon wafer and cell to module production in the industry. It owns 14 globalized manufacturing bases in China, Malaysia, Vietnam, and the United States. By the end of 2023, the company's monocrystalline silicon wafer, cell and module production capacity will reach 85GW, 90GW and 110GW respectively, of which the N-type production capacity will account for more than 75%, and the N-type production capacity scale is leading the industry.

With a workforce of over 2,000 research and development professionals, JinkoSolar has earned numerous accolades including "National Enterprise Technology Center," "National Technological Innovation Demonstration Enterprise," and "Manufacturing Single Champion Enterprise". The company has played a leading role in establishing multiple international and domestic industry standards such as IEC, continuously expanding the diversified application scenarios of photovoltaic technology. It actively develops building integration photovoltaic, photovoltaic hydrogen production, energy storage systems, striving to create a clean energy ecosystem.



SMA Solar Technology AG



Facts

Establishment Year: 1981 Total Projects Capacity: Over 125 gigawatts (worldwide), over 500 MW in Jordan.

Contact

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Middle East: SMA Solar Technology Middle East P.O.Box 61016 Dubai, United Arab Emirates Tel: +971-4-3630948 info@sma-me.com Service Line: +971-4-3630948 Being a prominent global specialist in photovoltaic and storage system technology, SMA Solar Technology AG is at the forefront of establishing today's standards for decentralized and renewable energy supply in the future.

SMA offers a diverse portfolio that includes highly efficient PV and battery inverters, comprehensive system solutions for PV and battery storage systems across various power capacities, intelligent energy management systems, and charging solutions for electric vehicles and power-to-gas applications (Hydrogen / Ammonia...).

SMA's main focus is on power conversion during energy transition while addressing grid challenges and resolving issues using power electronics; hence enabling more renewable penetration to an existing grid while ensuring grid security and stability.

With SMA inverters deployed in over 190 countries, totaling more than 125 gigawatts of output, the company has successfully contributed to avoiding approximately 63 million tons of CO2e emissions over the past two decades. SMA's groundbreaking technology, recognized with multiple awards, is safeguarded by a robust intellectual property portfolio of over 1,700 patents and utility models.

Since 2008, SMA Solar Technology AG, has been listed on the Prime Standard of the Frankfurt Stock Exchange (592) and is included in both the MDAX and TecDAX indices. As of March 31st, 2023, SMA group had a very large order backlog of EUR 2.468 Billion with a guidance of sales and earnings of EUR 1.6 Billion for 2023. ■

Main Distributors in Jordan SOLARITY izzat marji ALTAYSEER



Solis



Facts

Establishment Year: 2005 Total Projects Capacity: more than 80 gigawatts (worldwide).

Contact

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Established in the vibrant city of Ningbo, China, in 2005, Ginlong (Solis) is the world's third-largest PV inverter manufacturer. The company has been pioneering excellence in PV inverter brands with BNEF Tier 1 Recognition and is recognized as one of the foremost and largest inverter manufacturers globally.

Ginlong (Solis) is proud of its inclusion in the esteemed BloombergNEF Tier 1 PV Inverter Manufacturers list for the fourth quarter of 2023. This noteworthy acknowledgment signifies a momentous achievement for Solis, highlighting the company's unwavering dedication to excellence, innovation, and a worldwide impact. This ranking is a testament to the company's steadfast commitment to delivering technology characterized by unparalleled quality and reliability. This commitment is demonstrated through exceptional performance in globally recognized projects and a robust bankability profile.

This year marks the 18th-anniversary milestone for Solis. Throughout these years, the company's mission has remained unchanged, 'Developing Technology to Power the World with Clean Energy.' In pursuit of this goal, Solis has consistently pushed the boundaries of innovation, resulting in incredible accolades such as this Tier 1 ranking. This underscores the relentless effort of the company's

4,500+ person's strong team and 800+ R&D innovators, strategically placed across the globe.

Solis technology is meticulously optimized for local markets, offering substantial long-term return on investment and expediting the transition to a more sustainable future. With a vertically integrated, state-of-the-art manufacturing capability, Solis exercises control over the entire production process – from component sourcing to product distribution. This ensures the highest possible quality standards for customers and compliance with the most stringent international regulations.

Ginlong (Solis) is more motivated than ever to continue propelling advancements that will shape the future of clean energy. For more information, please visit www.solisinverters.com ■







MEMBERS

PUBLICATION

PROJECTS

58

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22

Ongoing Projects

Mediterranean Dialogue for Waste Management Governance

illalice







TOTAL PROJECT BUDGET

€1.1M

EU CONTRIBUTION

€0.9M

PROJECT CO-FINANCING

10%

Supporting Circular Economy Opportunities For Employment and Social Inclusion









Med4Waste

TOTAL PROJECT BUDGET

€3.8M

EU CONTRIBUTION

€3.4M

PROJECT CO-FINANCING

10%



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17th JORDAN BUILD

المعــرض الدولـي الســابع عشــر لتكــنولوجيا البنــاء والتشـــييد والصناعــات الهندســية 2024

أنت مدعو للترويج لعملك وأن تكون جزءا من أهم الأعمال في لقاءات ثنائية مــع نخبه مميــزه من رجال الأعمال، إنها طريقــك الصحيح الى عالم الأعمـال

يعد أكبر حدث للطاقة في الأردن، وهو يتيح لقطاع الطاقة بأكمله عرض حلول الطاقة الخاصة بهم.





مواد بناء - حجر كومنت ورخام - صناعات كيميائية ودهانات ومواد عازلة - بناء جاهـز - مطابخ وديكـورات وأبـواب - معـدات ثقيلة - أنظمة ذكية - آلات صناعية وانشـائية - تدفئـة وتكييف - صناعات كهربائيـة - ألمنيـوم - أدوات ومعـدات التوريـدات غيـر الصناعيـة - الخشـب - السـيراميك والبورسـلين الخوازيـق البلاسـتيكية وملحقاتها - أنظمـة المراقبـة والسلامـة العامـة - تكنولوجيا المياه والغاز سحانات المياه الكهربائيـة - جميع المنتجات والصناعات المتعلقة بالبناء والصناعات الهندسـية وغيرها





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Energy Storage Solutions





What do you see as the latest trends and emerging technologies in energy storage solutions in the MENA region, and how would you leverage them in your role?

The MENA region is experiencing growing interest in energy storage solutions, primarily driven by renewable energy integration. Trends include the adoption of advanced battery technologies, such as lithium-ion, solid-state, and flow batteries.

I would leverage these technologies by staying updated on market trends and collaborating with research and development teams to integrate

cutting-edge energy storage solutions into our product offerings. This would ensure that Jinko Solar remains at the forefront of technological advancements in the region.

What potential markets do you believe hold the most promise for energy storage solutions in the MENA region, and how would you prioritize market development strategies for Jinko Solar's Storage division?

Promising markets in the MENA region include the United Arab Emirates, Saudi Arabia, and Egypt, with their ambitious renewable energy targets. I would prioritize market development strategies based on factors like regulatory support, renewable energy adoption, and market demand. For Jinko Solar's Storage division, a strategy might involve forging partnerships with local utilities and developers, participating in tenders and projects, and providing customized solutions that align with specific market needs.

What do you see as the primary opportunities for Jinko Solar in the MENA energy storage market, and how would you capitalize on these opportunities to drive growth for the Storage division?

Jinko Solar's opportunities lie in offering integrated solar and energy storage solutions to support various energy storage applications. would capitalize on these opportunities by developing hybrid Solar+ESS solutions that align with the MENA region's solar resources and climate conditions. Additionally, exploring off-grid applications for remote areas and developing microgrid solutions for industrial and commercial clients can open new doors for growth.

How would you navigate unique challenges in terms of climate, regulations, and infrastructure to ensure the successful implementation of energy storage solutions for Jinko Solar's clients?

MENA faces climate challenges like extreme heat and sandstorms. To address these, I would work closely with R&D teams to design energy storage systems with robust thermal management and protective features. In terms of regulations, I would proactively engage with local authorities and industry stakeholders to ensure compliance and foster a supportive regulatory environment. For infrastructure challenges, collaboration with local partners and investing in training and capacity building would be essential for successful implementation, and in my opinion; this is a key to any futuristic development in many sectors.

How would you ensure the ongoing performance and efficiency of Jinko Solar's energy storage solutions, and what strategies would you employ for maintenance and optimization?

Implementing a comprehensive maintenance strategy is crucial. This could include remote monitoring, predictive maintenance, and regular inspections to ensure the reliability and efficiency of energy storage systems. Jinko Cloud is an online monitoring platform that provides monitoring and control services (on project basis) that helps our after sales teams to provide seamless support to various projects remotely. The service is data driven, which enables Artificial Intelligence (AI) to forecast and predict the performance of individual battery cells and avoiding long interruptions in any energy storage system. We also offer training programs for local technicians and clients to facilitate the maintenance process.



How do you envision Jinko Solar's Storage division evolving and expanding in the MENA market in the next 10-5 years, and what is your vision for the role of Technical Manager in this journey?

Over the next 10-5 years, Jinko Solar's Storage division should expand its product portfolio to include a range of energy storage solutions tailored to diverse market needs. This expansion should also adapt the vertical integration of battery cell manufacturing, which will lead us towards delivering high quality solutions at competitive costs for our customers. As a Technical Manager for the ESS division in the region, my vision is to lead a team of experts who develop innovative, sustainable, optimized and cost-effective energy storage solutions for each project, contributing to the region's transition to a cleaner and more reliable energy system.



Hamza Al Smadi ESS Technical Manager - MENA



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