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Introduction:

**ENERGIA-Star** is a rising UAE Contracting Company in the field of solar energy applications, specialized in providing smart technological engineering solutions for clean energy usage.

**ENERGIA-Star** Electro-Mechanical targets the design, installation and maintenance of both ON-Grid and OFF-grid solar power systems for villas, buildings, schools, farms and factories.

**ENERGIA-Star** cooperates with all DEWA accredited suppliers of solar system components.
Our Vision:
To become one of the Middle East leading companies in solar energy utilization, maintaining the highest quality of service and the best customer satisfaction experiences.

Our Mission:
Design, Build, Integrate, Verify and Validate the best system that covers the clients’ needs, use business to inspire and implement innovative solutions to all technological issues.

Our Values:
- Ethics, Trust, and integrity
- Creativity bringing the most creative solutions that meets the mission requirements
- Performance our work with the most recent technologies, continually improving our tools to provide the best added value.
- Safety and Clear communication.
- Dynamism embracing flexibility to work seamlessly on different topics and issues, building transferable skills to meet the needs of our clients and partners
- Enthusiasm delivering work outcomes above and beyond the expected
Our solutions:

1. Solar energy solutions
2. Network systems
3. Home automation applications
4. CCTV systems
5. Access control systems
6. Parking barrier systems
7. ELV systems
PV solar energy:

- On-grid PV solar systems to join DEWA grid in order to cut down the bill values.

- Off-grid PV solar farms to provide electric energy needs for remote and isolated areas according to the customer’s demand

- PV solar energy applications (Street lightning, Street signs)
Energia-Star develops PV systems that provide:

- Utility power saving up to 100% with different configurations of loads (full loads, half loads & essential loads);
- Power backup systems with several configurations according to load estimation;
- OFF-Grid solutions for remote and isolated territories;
- Construction of large solar power systems for farms, schools and factories.

Utility power saving up to 100% with different configurations of loads (full loads, half loads & essential loads).

- You can dramatically reduce your utility bill when you begin to generate your own solar power, your utility bill can drop significantly.
- How much you can save will depend on the size of your solar system and your family's electricity usage, you will still draw some power from the utility grid, but at a lower tier.
- Energia-Star will design a system that's right for your home and determine the optimal utility rate structure for your remaining energy needs.
**Network systems:**

- Local network infrastructure design, installation and maintenance
- Wireless network solutions provisions in order to achieve best coverage
- Full IT support for small and medium sizes enterprises

**Home automation applications:**

- Smart home applications
- Motion and temperature sensors for the corridors and inside Home
- Paired with our portfolio of high quality component for HA
**CCTV systems:**

Full range of digital as well as IP solution for surveillance and security monitoring that range through all global manufacturers, we also provide ANPR and ENPR cameras as required by local authorities

**Check out our range**

- General purpose, Dome, Box - Type and PTZ cameras.
- Low Light, IR and Thermal Cameras.
- Mega-Pixel Cameras
- Matrix switching equipment
- State of the art Digital Video Recorders.
- Video transmission & Media converters
- Number Plate Recognition
**Access Control systems:**

Energia-Star offer various “Access Control Solutions”, for your building. Be it stand-alone or a fully integrated system, we have the answer. From a single door, to a Large-scale complex, we can provide the most up-to-date & cost-effective solutions. Advanced point and click interfacing makes controlling your system only a mouse clicks away.

- We provide complete & integrated Access Control solutions which utilizes the use of the client’s existing network with minimal bandwidth requirement.

- Our solutions, will meet the security needs of the clients for today and tomorrow.

- We proudly pass from our expertise and knowledge.

- We are always able to upgrade existing solutions progressively as Systems and products are developed.
Parking barrier systems:

Energia-Star can provide a complete range of automation solutions for car parking, traffic control, access, and traffic management. With a range of products and accessories from leading suppliers to meet all situations coupled with years of experience in installation & service, we will find the solution you require.

- Automatic Barriers & Gate Operators
- Bollards & Road Blockers
- Under Vehicle Surveillance Systems
- Parking management systems
- Automated / Remote controlled Systems
ELV systems:

Supply and install a range of Electronics Systems for specific customer needs, such as:

- Intercom Systems, Public Address
- SMATV Systems
- All Kind of Low Current Systems
- Handel metal detectors
- Walk-through metal detector
Why Energia-Star:
We believe that our core values of integrity, innovation, and intellect and client satisfaction give us the power to continue towards our goals. Driven by an experienced team and utilizing the best technology products; Energia-Star becomes different from other competitors.
Our team:

Eng. Mohamed EL-Oraby (CEO):
- B.Sc. degree in Communication Engineering, MTC (Military Technical College)
  - 28 years’ experience in Calibration & Quality Control
  - 18 years’ experience in Management
- B.Sc. degree in Military science, MTC (Military Technical College)
- Career certificate strategic procurement management (AUC)
- Project management professional (Arab academy)
- TQM "Total Quality Management" (USA)
- Automated calibration (HP USA)

Eng. Ahmed Yousif:
- B.Sc. degree in Electrical Engineering – Communication
  - 15 years’ experience in technical support field (IT, Communication)
- 4 years’ experience in Off-grid PV solar systems design, installation, commissioning and maintenance
- Shams Dubai certified PVCC solar expert
- DEWA certified electrical engineer
- Dubai Police certified surveillance systems system engineer

Eng. Ahmed Mokhtar:
- M.Sc. degree in Solar Energy technology
- B.Sc. degree in electrical Engineering – Electric power
- 8 years’ experience in Satellite Solar systems design, installation and commissioning
- 4 years’ experience in Off-grid PV solar systems design, installation, commissioning and maintenance
Products line:
Energia-Star works out with well-known and most trusted products in the market, all the products are certified from all related authorities like DEWA, Civil defense.

1- The PV panels:
Manufactured in Dubai, United Arab Emirates, according to Japanese and German technology.
All modules are manufactured on an automatic line with minimum human intervention that assures highest quality of modules with consistent quality.

PV panels are certified from DEWA and they satisfy the following standards:
• Salt Mist corrosion testing (IEC 61701)
• Design qualification (IEC 61215)
• Safety qualification (IEC 61730-1, IEC 61730 -2)
• Desert storm (CEI EN 60068)
2-PV cladding modules:
PV modules relies on the perfect combination of best components. The modules are OEM manufactured to the highest industry standards and are fully certified. Being exclusively based on silicon, our solar modules are free from cadmium and other heavy metals. All raw materials are traceable throughout the products’ entire life cycle. Within the scope of automated production, more than 130 quality control processes are applied. Every single solar cell is subjected to three electroluminescence tests to check it for micro-cracks. It is the efficient interaction of all sub-processes that facilitates the unique quality and useful life term of the products, and their high efficiency.

The PV cladding modules are certified from DEWA and satisfy the following standards:
• Design qualification (IEC/EN 61215)
• Safety qualification (Class A, protection class II, IEC/EN 61730)
• Salt Mist corrosion testing (IEC/EN 61701 I + II)
• Ammonia corrosion testing (IEC/EN 62716)
3-Inverters:
Energia-Star uses the recent generation of sine wave inverters that demonstrates robustness. Existing safety features have also been made more customer-friendly and robust.

One of the best features is the ability to connect these models in parallel, the innovative operating concept using a single rotary switch and the electronic fuse. That makes it very easy to use such models in photovoltaic systems.
This comes through, for instance, in the way that a most diverse range of appliances is provided with a low operating consumption and a stable energy supply.
The power inverters are certified from DEWA and satisfy the following standards:
• Electromagnetic compatibility (IEC/EN 55014-1, IEC/EN 55014-2)
• Information technology equipment – Safety (IEC/EN 60950-1)
• Hazardous substances assessment of electrical and electronic products (IEC/EN 50581)
3-Charging controllers:
Energia-Star uses the recent generation of controllers with new standards applied in the power class. A graphic display informs the user about all important system data and enables configuration and adjustment of the controller to the specific requirements of the individual system.
Numerous clever functions allow the user to adjust the controller to the particular features of the system in question. Thanks to the significantly improved state of charge determination, the system is optimally controlled and the batteries are protected.
The charge controller can work at three voltage levels (12 V, 24 V, 48 V).
The charging controllers are certified from DEWA and satisfy the following standards:
- Electromagnetic compatibility (IEC/EN 55014-1, IEC/EN 55014-2)
- Safety standard for solar power converters (IEC/EN 62109-1)
- Hazardous substances assessment of electrical and electronic products (IEC/EN 50581)
UAE Accrediting Bodies:

Energia-Star EMS is accredited by the following governmental authorities in Dubai:

- Dubai Electricity and Water Authority “DEWA”

- Telecommunication Regulatory Authority “TRA”

- Department of Protective Systems “SIRA”

- DEWA Solar PV “Shams Dubai”
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