

Think SMART...

Think SUSTAINABLE...

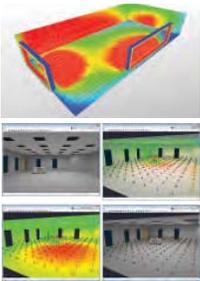
Maintenance

Solar panels are very tough and have a long lifespan (up to 30 years) making them very durable. They are designed and engineered to withstand a wide range of temperatures and various weather conditions. The lack of movable components makes them more robust and less prone to any problems. More of a concern is getting the most out of your panel: maximizing efficiency and electricity production. Through monitoring your system's production, we identify issues and address them proactively. To ensure maximum productivity: solar panels should be cleaned on a regular basis or nanoShell Solar using nanotech can be applied to solar panels to prevent dust from accumulating on the panels and essentially reducing electrical productivity.



Green Building Consultancy

Green building consultancy runs with the focus on providing energy efficient solutions to designers. ZSD offers solutions that use the latest hi-tech modeling and simulation software in the market to carry out daylighting, lighting, energy-use simulations among others. Through the use of integrative best-practices that meet both client requirements and respects the project's local environment and conditions, smart energy-saving solutions can be achieved. In addition, our expertise in LEED based certification can help guide the design to achieve the international LEED certification and create high quality "green" designs.



Customized System Design Solutions

Customized system designs offer flexibility to the customer. They are designed to provide solutions especially to interrupted power supply (where there are power cuts). UPS (Uninterruptible Power Supply) such as the G-series and M-series can be charged on-grid; S-series can be charged from solar generated power and finally the MS-series can be charged from both grid and solar power.



ZSD | El Zeini For Sustainable Development

Established in 2014 in Cairo, El Zeini For Sustainable Development (ZSD) is an off-grid renewable energy power supplier and solutions provider. ZSD is a start-up company that specializes in making the transition to clean, solar, renewable energy easy and smooth.

ESTIMATE YOUR ELECTRICAL CONSUMPTION VIA OUR WEBSITE!

For more information, please download ZSD catalog on our website!

Office & Showroom

25 Misr Helwan Agriculture Road, 3rd Floor El Zeini Tower, El Maadi Cairo, PO BOX 22, 11431 EGYPT

E-mail: sales@zsdeg.com

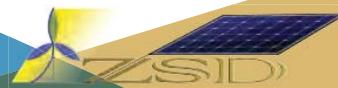
Tel: +2012 22202554

 @zsdegypt

 @zsd_sustainable

 @zsd-egypt

www.zsdeg.com



ZSD | PRODUCTS

ZSD | SMART POWER SOLUTIONS

ZSD | SUSTAINABLE AGRICULTURE



PV MODULES

BATTERIES



INVERTERS

INVERTER/CHARGER



LED LIGHTS

ACCESSORIES



ZSD's solutions are designed in-house via our R&D department. They are developed to offer clients flexible power solutions that can both work on on-grid systems and off-grid systems. ZSD strives to offer various solutions to its clients and even offer customizable solutions based on the client's needs and demands - a solution that works for you!

Our range includes the G-series and M-series (charges from the grid); S-series and MS-series (charges from both solar panels and the grid). These products provide solutions to various challenges that can face the customer whether for outdoor or indoor use.

Why choose ZSD's products & services?



Cost Efficient
Our prices reflect the best quality available.



Flexible & easy installation
We offer flexible installation methods that are convenient for you and your requirements.



Great Returns
Renewable energy is the future, expect a great return on investment (ROI).



Expertise
ZSD has a wide range of expertise from various field and backgrounds - our diversification is our strength.



Wide Range of products
We offer a wide range of products to help you resolve any off-grid power issue



Professionalism
Client satisfaction is our number priority, we treat every client as unique client with unique challenges.



Agro-System

The system is developed with four main concepts: Sustainability, Integration, ZLD (Zero Liquid Discharge) & Triple S (Sun, Sand and Sea). Scarcity of water was the main driver of the design and development of this system.

The main components of this system include:

- Reconstructing water station (which is designed and developed by Dr. Nabil El Maraghy) ID & WT.
- A fertilizer production factory (fertilizers produced from minerals found in water).
- Hydroponic and Aquaponics (use only 10% of normal irrigation water).
- Barley production (huge reduction in water consumption accompanied by significant productivity, used as cattle and cow food).
- Aquaculture (one through and RAS System), very high productivity per cubic meter of water.
- Table salt Production.



Indoor & Outdoor Hydroponics

The word, Hydroponic, comes from Latin and means working water. Hydroponic agriculture is slowly gaining momentum worldwide as it is an efficient method of growing food. There are various hydroponic systems, where the main idea is plants growing with their roots suspended directly into water with either no growing medium or very little growing medium. This technique called Nutrient Film Technique (NFT) is the most popular technique used. We have various strategies for the implementation of hydroponic farming either indoor or outdoor, depending on the client's needs and constraints.



Aquaponics

Aquaponics are simply the combination of aquaculture (fish farming) and hydroponics into an integrated system. The fish waste provides an organic food source for the growing plants and the plants provide a natural filter for the water for the fish to live in. Microbes (nitrifying bacteria) participate in the system via converting ammonia from the fish waste first into nitrites and then into nitrate that used by the plants. Through the complete integration of both systems a reciprocal relationship is achieved where aquaponics capitalizes on the benefits and drawbacks of both aquaculture and hydroponics.

