



COMPANY PROFILE

2024

A premier entity in the solar energy sector!

www.solarcomenergies.com



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ABOUT SOLARCOM ENERGIES



SOLARCOM ENERGIES

SOLARCOM ENERGIES stands as a premier entity in the solar energy sector. We provide cost effective solar energy solutions to the Middle east and Africa.

Solarcom Energies supplies and installs Tier 1 quality Solar panels and other solar products for our customers in commercial, industrial and residential markets.



SOLARCOM ENERGIES

OUR MISSION

We are committed to advancing Kuwait's emerging solar market, creating employment opportunities while revolutionizing energy production. We strive to act upon the challenges faced by climate change by utilizing the power of the sun.

OUR VISION

Our vision is to be the catalyst for a sustainable energy revolution, empowering communities, fostering innovation, and driving economic growth through accessible solar technology. We aim to provide clean affordable energy and building smart sustainable cities as well as working towards achieving the sustainable development goals by the UN for 2030 and Kuwait vision 2035.

OUR SERVICES



OUR SERVICES

INFRASTRUCTURE DEVELOPMENT



Our team specializes in delivering competitive and efficient solutions for infrastructure projects, offering prime investment opportunities in the sector. Whether for investors, utilities, or specialized funds, we excel in deploying, structuring, and managing complex projects across the Middle East from inception to completion. Count on us to design and construct reliable installations that offer the most cost-effective investments with minimal risk. Through tailored projects during the feasibility stage, we ensure the buildability and financial viability of each endeavor.

OUR SERVICES

SOLAR SYSTEMS SUPPLY & INSTALLATION

We supply top-tier solar system components, including premier solar panels and inverters, catering to companies operating within the solar energy sector.

In our commitment to infrastructure projects of all scales, we meticulously select materials from leading global brands, considering every vital factor.

Our sourcing spans various categories and renowned brands from Turkey, China, Germany, USA, and Canada, ensuring a wide selection catering to diverse customer needs and preferences.



OUR SERVICES | SOLAR SYSTEM DESIGN

Solar systems have two main systems, an Off Grid and On Grid system.



On-Grid System

It is one of the well-known and highly approved types in some countries, particularly developed countries, as the system consists of:

- Solar Panels
- Built-in Inverter

If the electricity from the solar panels produced is more than the load needed to power the appliances the extra electricity can be fed back to the grid by a process called net metering.

In the case of the electricity produced from solar panels is less than the load required to power up the appliances at your house or even in case of no electricity produced from the solar panels; electricity from the grid will be utilized to feed the appliances at home.

OUR SERVICES | SOLAR SYSTEM DESIGN



Off-Grid System

In Off- Grid systems, electricity from solar panels cannot go back to the grid by a process called net metering as seen in on grid solar systems they are instead stored in batteries to be used at night. Off grid system consists of:

- Solar Panels
- Inverters
- Charging Regulator
- Batteries As for the mechanism of operation of the system

Off grid inverter comes with a feature to share excessive load from the grid. You can set the priority between solar, grid and battery. Example if solar power is less than the load the priority could be set between the battery or the grid to share the excess load along with the solar. When there is no solar power and no grid power the load will be powered by the battery.

OUR PRODUCTS



OUR PRODUCTS

Unlock the power of our innovative solar energy products, engineered to optimize performance and empower you with clean and renewable energy solutions.



SOLAR PANELS



WATER HEATERS



SOLAR INVERTERS



SOLAR BATTERIES



WATER PUMPS

OUR PRODUCTS | SOLAR PANELS

Energy from sunlight absorbed by the PV cell usually made from a semiconductor material such as silicon. When this material is exposed to photons energies from sunlight, it releases electrons and creates an electrical charge. This electric charge creates an internal electrical field in the cell causing direct electric currant to flow.



OUR PRODUCTS | SOLAR PANELS

SUNOVA 405 - 555 - 575 - 600W

N-type High Efficiency Half-Cell Mono Module



30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



N-type solar cell has no LID naturally which can increase power generation



Excellent low irradiance performance.



Better light trapping and current collection to improve module power output and reliability.



Industry leading lowest thermal co-efficient of power.



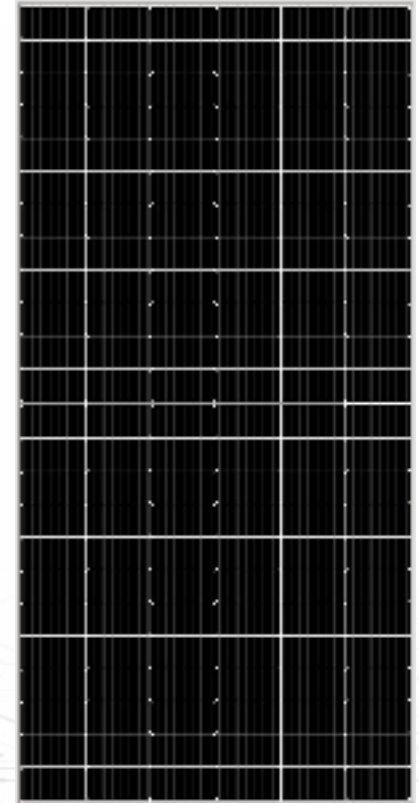
Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



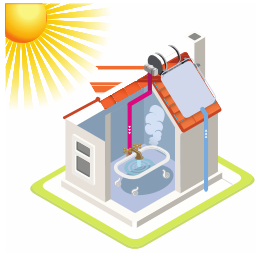
Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enabling remarkable reduction of hidden crack rate of modules



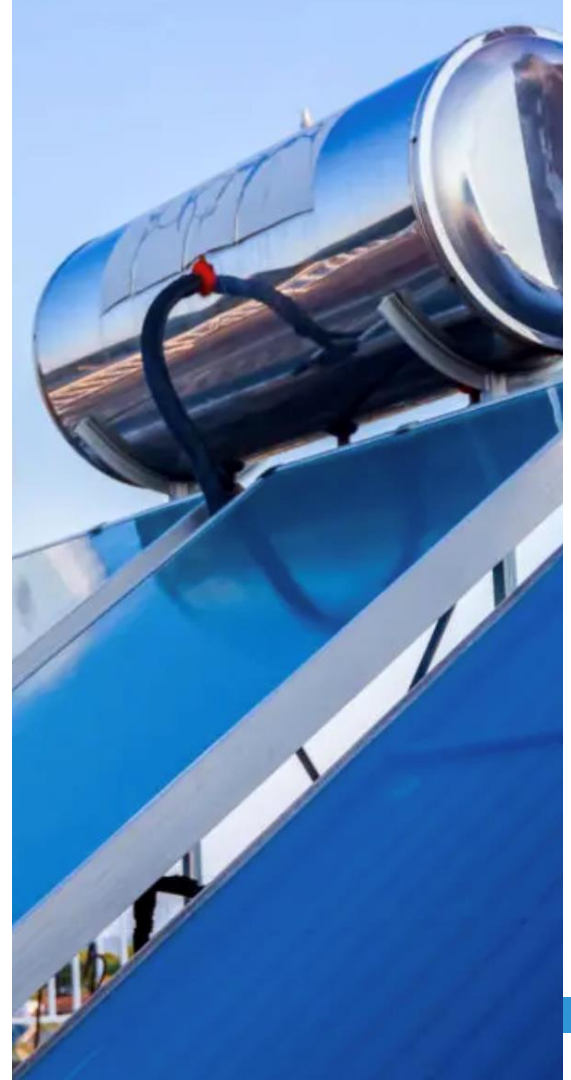
OUR PRODUCTS | WATER HEATERS



The solar water heater is an integrated part of the solar system that relies on the sun's energy to heat a water tank. Solar water heaters could be used for home appliances such as hot showers and swimming pool heater. It also serves for commercial projects as well.

Benefits:

- ✓ Well maintained solar water heaters can last 20 years.
- ✓ Water heating bill savings.
- ✓ Low maintenance (Once every few years).
- ✓ Solar water heater system is environmentally friendly and produces zero carbon emissions for your water heating needs. If you power your home's hot water system using the electricity grid, that electricity is likely generated from fossil fuels which contributes to greenhouse emissions.



OUR PRODUCTS | WATER HEATERS



Disadvantages:

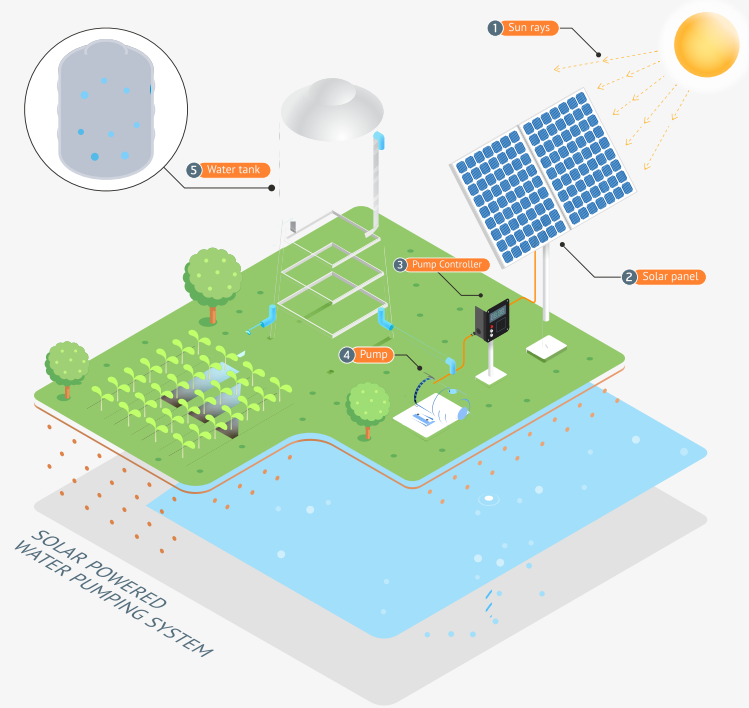
- ✓ Upfront installation costs, which long term acts as an investment as you don't rely on the grid anymore reducing your future heating bills significantly and helps contribution towards a more sustainable future.
- ✓ Dependent on the climate conditions to operate. However, you don't always need the sun as systems usually always include a back-up electric heater to operate when the weather conditions are dark or cloudy.

OUR PRODUCTS | WATER PUMPS

Depending on the specific model and conditions, Solar powered water pumps can lift water from hundreds of meters below the ground up to 300m and can be used to irrigate your farm at ease.

Benefits:

- ✓ Solar pumps require less labour and maintenance.
- ✓ Solar water pumps are powered by solar panels. All the energy you need comes from the sun which is completely free.
- ✓ Using free solar energy is an advantage over manual irrigation which takes up a lot of your valuable energy and time.



OUR PRODUCTS | WATER PUMPS

Disadvantages:

- ✓ Solar water pumps heavily rely on sunlight to work. Therefore, when weather conditions are not suitable such as cloudy weather or night time there isn't much sunlight for the solar water pump to work.

This Disadvantage could however be reduced by installing a water tank. During the sunniest parts of the day, use your solar pump to pump water to your tank. You will then have water available via gravity feed whenever you need to irrigate your crops during bad weather conditions where your solar water pump won't be operating well.



OUR PRODUCTS | SOLAR INVERTES



A solar power inverter converts direct current (DC) generated from photovoltaic solar panels into alternating current (AC) which could be used to power home appliances which mostly operate on AC or could be fed back to the electricity grid.

- o The main task of a solar power inverter is to convert direct current into an alternating current.
- o In winter, when solar energy is insufficient, an alternating current generator is used to charge solar energy batteries through an inverter charger, as solar energy may not be enough.

OUR PRODUCTS | SOLAR BATTERIES



Flow Batteries

These batteries are products of innovative tech, recently developed. They have a lifespan of about twenty years and can be used for different solar powered systems.

Saltwater Batteries

Saltwater batteries are an emerging solar battery type that utilizes a non-toxic electrolyte solution. Environmentally friendly alternative to traditional batteries with 5000 cycles thus longer life span and are less likely to degrade quickly.

Lead-Acid Batteries

Lead-acid batteries are a more traditional solar battery type commonly found in off-grid solar systems. While they have been around for quite some time, they are less efficient and require more maintenance than most solar batteries.

Lithium-Ion Batteries

Lithium-ion solar batteries are currently the most popular choice for solar energy storage systems. They have a higher energy density, so they can store more energy in less space, making them an ideal choice for your solar battery needs.

OUR PARTNERS



Empowering Progress,
Illuminating Partnerships:
Lighting the Way with Our
Solar Allies



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