



FUTURE ENERGY TODAY



ABOUT US

AT A GLANCE

After 30 years of experience and following its ambitions to move into new business dimensions, OneraSystems has been created by MEET Egypt to be its successor in practice in the renewable energy business.

OneraSystems is mainly focusing on providing clean, efficient and reliable energy to the population of the Middle East by providing integrated solutions.

OUR BUSINESS

«Empowering The World Through Innovative Energy Solutions»

OneraSystems is a full service Engineering & Procurement (EPC) and distributing company, specializing in renewable system integration, industrial battery systems, research and development.

Our services include;

System Design, engineering, sales, installation, commissioning, operation and maintenance, product training for professionals and building inspectors.



OUR FUTURE

«A Catalyst For Change»

From bridging the failures of the traditional energy systems to developing leading edge renewable energy sources, we are focused at work, seeking innovative ways to produce efficient and reliable power.

OneraSystems aims to turn the energy market upside down and help Egypt achieve a future that's powered purely by renewable energy, and this involves changes at almost every stage of the energy generation process. Energy that's local, natural and renewable is energy that is secured for future generations.

«Together We Can Do This»

OneraSystems has always been successful in seeking new and innovative ideas for the utilization of photovoltaic as an alternative energy source.

We started a while ago an immense research and development efforts to develop projects which would re-direct the reliance towards photovoltaic energy.

OUR PEOPLE

TECHNOLOGY LEADERS

We are empowering today's Egypt through innovative energy solutions. With over 30 years of experience, and an excellent, well rounded team of technical experts, OneraSystems is unequalled.

We are setting the standard for a renewable and sustainable Egypt. Insight and ingenuity have propelled us to revolutionize new markets in the renewable energy industry in all areas of the Middle East.



OUR SUCCESS PARTNERS

Solar energy systems are becoming very much affordable, with the help from the programs that are now available by our partners to help in the installation costs.



OUR SUCCESS PARTNERS

FIAMM Energy Technology is a multinational company engaged in the production and distribution of batteries and accumulators for motor vehicles and for industrial use. born following the separation from FIAMM Group of the business of automotive batteries and industrial batteries with lead-acid technology. With about 20 commercial and technical branches around the world and a wide network of importers and distributors and operates with a staff of one thousand employees.



As a leading global specialist in photovoltaic system technology, SMA is setting the standards today for the decentralized, digital and renewable energy supply of tomorrow. More than 3,000 SMA employees in 18 countries have devoted themselves to this task. Their innovative solutions for every type of photovoltaic application offer people and companies worldwide greater independence in meeting their energy needs.



OUR SUCCESS PARTNERS

AEG exist to redefine what you expect out of your household appliances, since their start in Berlin in 1883, they never compromise with innovations for your home, and they believe in responsible innovations that stand out today and help build a better tomorrow. AEG products make solar an essential part of your journey towards a greener future. They are designed to grant you full control over your photovoltaic system.

The AEG logo consists of the letters 'AEG' in a bold, red, sans-serif font, centered within a white rounded rectangular background.

AEG

BISOL Group is active in the solar industry since 2004, They started with the manufacturing of solar photovoltaic (PV) modules, and are considered to be a pure solar company that has in 2009 added PV mounting solutions and investments into solar power plants to their portfolio. BISOL Group is a European manufacturer passionate about implementing the highest industry standards into top-quality solar products.

The BISOL logo features the word 'BISOL' in a white, sans-serif font, centered within a stylized orange sun icon. The sun icon is composed of two overlapping circles with triangular rays extending from the top and bottom edges.

BISOL

OUR SUCCESS PARTNERS

Founded in 2001 by three engineers with a long history of developing technologies for renewable energy applications, OutBack's founders believed that the renewable energy industry was on the verge of unparalleled growth, driven by the emerging need for sustainable alternative sources of energy, with products engineered to provide reliable power in various applications for true energy independence to get secure and independent living along with the ability to save on energy costs.

With well over 4 million products sold in over 100 countries since 1993—functioning in some of the most extreme environments and mission-critical applications in the world—Morningstar Corporation can truly claim to be “the leading supplier of solar controllers and inverters.”

Their main advantage summed up in two words: employee ownership, which means their reputation literally ships with each product they make.



OUR SUCCESS PARTNERS

Since the year 1995 OMNISHELTER has been dedicating know-how, expertise, and experience in designing and manufacturing fully equipped products. Omnishelter products have been sold and installed in more than 50 countries worldwide.

OMNISHELTER is a well-known designer and manufacturer of Shelters, Cabinets, Cooling Systems, and Mobile Communication Towers aimed at housing, protecting and keeping safely running, in all kinds of environment, electric and electronic, telecommunication, control and power equipment, which nowadays has a vital role of work in many industries with products that are custom made to fit customers and the requirement of different environment.



OUR PRODUCTS



PV Solar Modules

A photo-voltaic (PV) module is an assembly of photo-voltaic cells mounted in a framework for installation. A collection of PV modules is called a PV panel, and a system of PV panels is called an array. Arrays of a photovoltaic system supply solar electricity to electrical equipment, Most modules use water-based crystalline silicon cells or thin-film cells.

Solar panels use light energy (photons) from the Sun as a source of energy to generate direct current electricity through the photovoltaic effect and supply it to electrical equipment.



INVERTERS

«On Grid Inverters»

On Grid inverters convert DC electrical power into AC power suitable for the electric utility grid. The inverter must match the phase of the grid and maintain a slightly higher output voltage than the grid voltage at any instant.

They are also designed to quickly disconnect from the grid if the utility grid goes down. Ensuring that in the event of a blackout, the grid tie inverter shuts down to prevent the energy it transfers from harming any line workers who are sent to fix the power grid.



«Off Grid Inverter»

Inverters are crucial components in any power supply system based on AC current, it is mainly used to convert battery voltage into conventional household AC voltage allowing the use of electronic devices where AC power is not available. OneraSystems relies on top quality inverters for its projects; working with world class suppliers to bring efficiency in every project OneraSystems is involved in.



BATTERIES

OneraSystems brings to the market a range of quality battery systems based on world-class brands such as FIAMM and has been able to acquire a top position in supplying highly efficient battery systems comprising of Lead Acid, NiCad and Lithium, to a large number of clients in vital sectors where the storage of electrical energy at a high charge and discharge rate is of paramount importance.



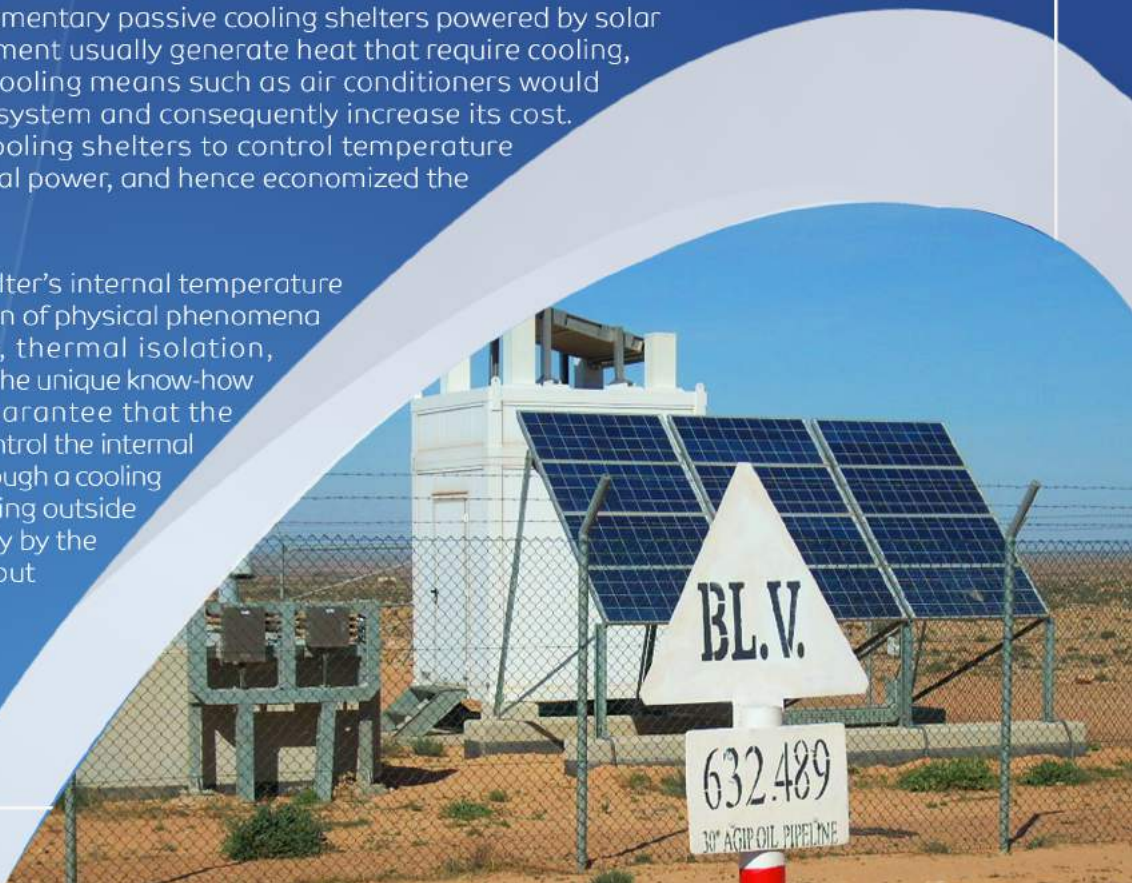
SOLAR CONTROLLERS

They are essential components in solar systems to regulate battery charging by the solar array. OneraSystems is using Solar Controllers from OutBack, Phocos, MorningStar and many manufacturers. Their importance arises from the safety features they provide, preventing the battery from overcharging during daytime and prevent rapid discharging during night time. They also have their own voltage control function to regulate solar power provided to charge batteries.

PASSIVE COOLING SHELTERS

We use innovative complementary passive cooling shelters powered by solar energy, as telecom equipment usually generate heat that require cooling, and using conventional cooling means such as air conditioners would burden the photovoltaic system and consequently increase its cost. We have used passive cooling shelters to control temperature without the use of electrical power, and hence economized the solar system.

Passive control of the shelter's internal temperature is based on the exploitation of physical phenomena such as thermal capacity, thermal isolation, and heat transmission. The unique know-how and patented design guarantee that the passive cooling shelters control the internal temperature conditions through a cooling system capable of dissipating outside the heat released internally by the electronic equipment without energy consumption.



OUR APPLICATIONS

SOLAR SYSTEMS

Solar power has been evolving rapidly, becoming more reliable and more affordable than non-renewable sources of energy, with PV panels improving in efficiency and coming down in price. With OneraSystems solar solutions we are looking toward a future with free power and reliable electricity.

OUR SOLAR SYSTEMS

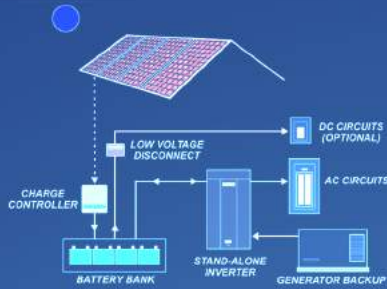
«On-Grid Solar Systems»



A grid system that is connected to a larger independent grid (typically the public electricity grid) and feeds energy directly into the grid. This energy may be shared by a residential or commercial building before or after the revenue measurement point, depending on whether the credited energy production is calculated independently of the customer's energy consumption (feed-in tariff) or only on the difference of energy (net metering).

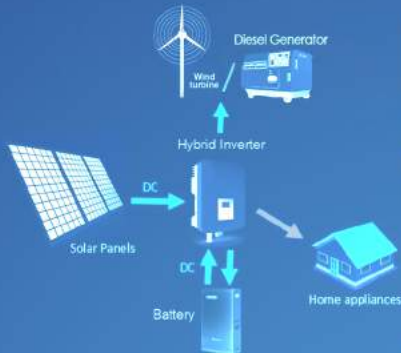
OUR APPLICATIONS

«Off-Grid Solar Systems»



A system that is designed for the power needs of mid to large size applications. Unlike grid-tied solar systems, off-grid systems have no connection to the utility grid and must make all the electricity necessary to power your home. Off-grid solar systems operate from the stored energy in a battery bank.

«Off-Grid Hybrid Solar Systems»



It is a system of generating electricity using two sources of energy together, for example solar system and diesel generator and is used in areas where there is no electricity from the public grid. It aims to save on the daily operating and maintenance costs of the diesel generator as loads are fed during the daytime from solar system and during the night period of the diesel generator and batteries can be added to this system according to the size of the loads to be operated.

BATTERY SYSTEMS

«On-Grid & Hybrid Solar Systems»

Solar battery systems is a battery group that reserves energy for later consumption that is charged by a solar system. The stored electricity is consumed after sundown, during energy demand peaks, or during a power outage. Most common in residential or commercial buildings.



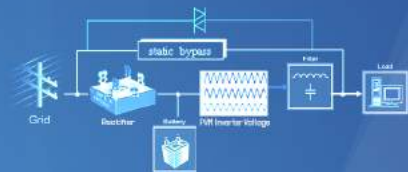
«Power Systems»

These systems are mostly used in telecom applications. It contains rectifier, which converts AC current to DC current to charge the batteries with the energy needed to feed the DC loads.



«UPS Systems»

Uninterruptible power supply (UPS) is a device that allows a Load to keep running for at least a short time when the primary power source is lost. UPS devices also provide protection from power surges. A UPS contains a battery that "kicks in" when the device senses a loss of power from the primary source



OUR APPLICATIONS

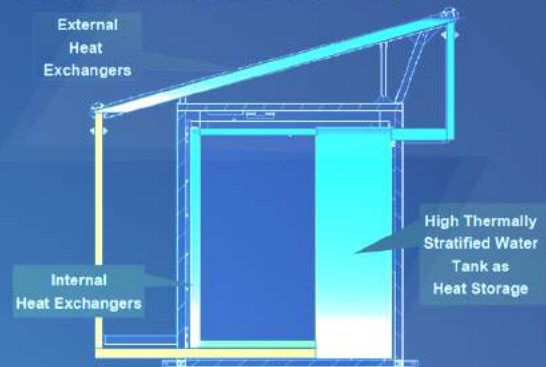
PASSIVE COOLING FOR VARIOUS APPLICATIONS

Passive cooling is a building design approach that focuses on heat gain control and heat dissipation in a building in order to improve the indoor thermal comfort with low or no energy consumption.

This approach works either by preventing heat from entering the interior (heat gain prevention) or by removing heat from the building (natural cooling).

A Passive Cooling Shelter is an integral system consisting of housings with insulation, sunshade, external and internal heat exchangers, heat storage and conveyance of the medium, which must be designed for the specific application.

Passive Cooling System: Principle




OUR APPLICATIONS


FUTURE ENERGY TECHNOLOGIES

Since the industrial revolution 200 years ago, mankind has relied on fossil fuel; however, the time has come to believe in new stable sources of energy. In the near future, the world will need every available form of energy that can be generated in an environmentally and economically sustainable manner to meet demand.

Thanks to technological enhancements, the usage of the Photovoltaic Solar Systems has become not only limited to remote zones, but extends to include the green buildings in the urban zones as well, granting self-reliance in generating the required energy which will release the overload on the public electricity grid.




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