

About Solar Technology

The sun irradiates power that reaches the external band of atmosphere at 1,353 Watt per square mt.

The measured power at the Earth surface is about 1,000 Watt/sqm under ideal conditions (clear weather at noon). Basically, there are two main man-made ways to exploit this energy in a clean way, without pollution.

The photovoltaic absorption effect on a semiconductor partially converts solar energy to electric DC current. The first modern solar cell dates back to '50 (USA, 1954). Thanks to Aerospace advances, photovoltaics systems have recently evolved to a great extent.

The second method for exploiting the solar energy are sun collectors, that can absorb the radiated power to heat fluids. With today systems very high efficiency can be reached, even at bad weather conditions and at very low outside temperature.



Rural electrification on the Alps (2001)

G-teK was founded on 1999 by PhD Giovanni Marino with past experience in the field of electronics.

“Natural power for people” was the original idea behind this enterprise.

At first photovoltaics and solar-thermal systems were developed. Then other renewable energy systems were introduced.

Since the beginnings, several projects all over the world have been deployed to show the potential of these clean and important technologies



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**Products
and
Services**

Renewable Energies



TOWARDS ZERO EMISSIONS

Natural compatibility is a main issue at G-teK. The application fields of G-teK systems range from the generation of electric current by means of PV solar modules, optionally integrated in buildings ...
...to the production of hot water for civil and industrial use.



Photovoltaics



Stand-alone systems: design and realization. Big photovoltaics systems off-shore plat-forms, photovoltaics fields, etc.

Photovoltaics building integration: "Grid connected" systems (solar roofs). Motor powering by means of solar energy. Photovoltaics lights and street lights
Environmental monitoring systems, Telemetry
Research and development for new products.

Solare thermal

Solar energy systems for heating; Solar systems for industrial processes:



hot water and heat solar generation;



Innovative Solar Air systems for heating integration in civil and commercial buildings;

Other Renewables

Other renewable systems to produce energy: biomasses, hydropower and tidal , wind, etc.



Integration of different clean technologies is a main characteristic of G-teK projects.

Products

In a solar power system, a key role is played by the project. Several conditions must be met, before the system can work properly. Also, the selection of good and reliable products is very important, in order to reduce the operating and maintenance costs, as well as the total cost of ownership. Then the system pays off after few years of operation.

Components and solar systems

- PV and Solar Thermal modules
- Wind turbines
- Long-life solar modules, with warranty
- Certified quality
- Various sizes, from few peak Watt
- Charge regulators
- Inverters, batteries
- Infrastructures
- Custom designed special systems



Special projects

Communities, Associations and Institutes.

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