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Making a better world



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Zytech Group. Renewable Energy Systems and Products

- Photovoltaic Modules (PV)
- Concentrated Photovoltaics (CPV)
- Building Integrated Photovoltaics (BIPV)
- Off-Grid Solar and Hybrid Systems
- Mini Wind Turbines
- Solar Streetlamps
- Solar Thermal Energy Systems
- Electric Vehicles



Zytech Solar is a Spanish manufacturer of photovoltaic modules designed to produce electricity from sunlight. Our main products are aimed at solar photovoltaic energy: PV modules, concentrated photovoltaics (CPV) and off-grid PV systems.

Zytech's added value resides in the development, design, manufacture and marketing of photovoltaic products and systems which adapt to the specific needs of each project.

Zytech was founded in Zaragoza (Spain) in 2005. Since then the group has progressively increased its infrastructure and production capacity to become a global company with offices and headquarters in Spain, Germany, France, Italy, BENELUX, the USA and China.



Manufacture of Photovoltaic Modules

Zytech Solar PV modules are manufactured on our own assembly lines and those of our sister companies in accordance with the market's most stringent quality standards and using only state-of-the-art industrial machinery.

Zytech uses the highest quality and most efficient monocrystalline and polycrystalline silicon cells in its modules to offer an extensive power range from 2 W up to 300 W.

Zytech modules are used in both off-grid photovoltaic installations (rural electrification, water pumping systems, telecommunications, lighting, etc.), as well as in grid-connected systems (solar farms, industrial roofs, houses, etc.) and can be installed on buildings, roofs, car parks, warehouse roofs and fixed structures.

Zytech modules are tested by TÜV and certified according to IEC 61215 Edition 2 and IEC 61730.





Manufacture of Concentrated Photovoltaics (CPV) Systems



Zytech Solar has been developing prototype concentrated photovoltaics (CPV) systems since its outset.

This technology uses highly reflective mirrors and advanced components designed to operate continuously with high efficiency, whatever the level of radiation.

Concentrated photovoltaics has been shown to be a highly effective technology. By increasing the power produced by the module, Zytech concentration technology reduces the cost per Watt by up to 50%.

The system currently manufactured by Zytech is a low concentration photovoltaic (LCPV) concentrator with a number of variations, including special lenses or mirrors. It consists of a dual-axis tracker with C-Si modules in a configuration which uses mirrors on both sides.



Building Integrated Photovoltaics (BIPV)

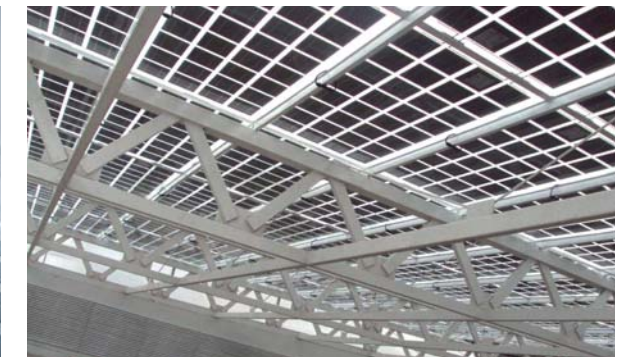
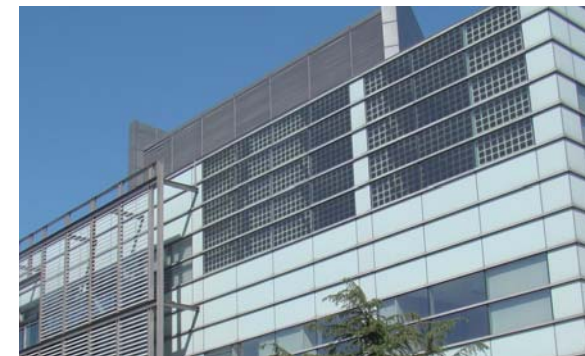
Zytech building integrated photovoltaics (BIPV) systems are manufactured in our own manufacturing plant. The new developments in glass-glass modules and roof-integrated modules can be used on both new and existing buildings.

Zytech manufactures a wide range of aesthetic and functional BIPV systems which are ideal for modern façades requiring sustainable materials.

Zytech Solar's BIPV products offer the performance required in building design. Together with their high long-term reliability, their competitive cost makes them an essential part of any sustainable building.

Zytech has designed BIPV systems for façades, roofs, windows and even shaded areas, taking modern architectural requirements into consideration.

Zytech BIPV systems are sought after by national and international institutions and important architecture and construction companies.





Off-Grid and Hybrid Systems



Off-Grid Photovoltaic Systems

Zytech off-grid photovoltaic technology also comes in versatile kits. These kits include photovoltaic modules, regulators, inverters and batteries designed for use with photovoltaic energy, as well as a number of auxiliary electrical accessories.

They offer a wide and varied range of uses, from industrial applications to rural electrification, pumping, telecommunications and recreational facilities.

Hybrid Off-Grid Systems

Zytech solar modules can be combined with Zytech Aerodyne mini wind turbines to design a broad range of hybrid systems adapted to a wide variety of locations and climates.

Solar and wind energy are complementary, providing for more stable installations.

Batteries need a regular charge, meaning that periods of inactivity affect their durability. A combination of solar and wind systems therefore leads to an increased system lifetime by offering a more constant energy input.



Manufacture of Mini Wind Turbines

The mini wind turbines manufactured by our affiliate Zytech Aerodyne are ideal for off-grid applications.

Both the technology and the manufacturing plant were acquired from a US company. This has made Zytech Aerodyne one of the main manufacturers in the mini wind turbine market, due to the use of aerospace materials and technology.

All of the components of the mini wind systems are manufactured in their entirety at Zytech Aerodyne, which results in complete control over quality and delivery times.

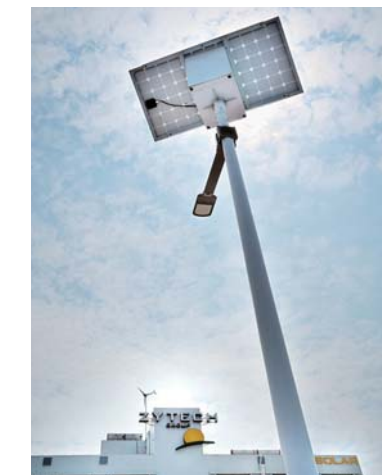
Furthermore, this makes Zytech Group self-sufficient in the supply of hybrid off-grid systems and applications in remote installations.



Solar Streetlamps

Zytech produces a wide range of solar streetlamps designed to meet different ambient lighting requirements with reduced energy consumption. Our high-tech lighting systems are the most efficient on the market in terms of cost/kilometre of road.

Implementation of solar streetlamps provides society with an image of a government which is committed to the environment and a sustainable economy. We have installations in Spain, France and South Africa.





Zytech Rayvin Solar Thermal Collectors



Zytech Rayvin Energy Systems BV is a Dutch joint venture specialising in the development and production of high-temperature solar thermal systems and a new urban wind turbine. Solar collectors manufactured by Zytech Rayvin stand apart from other brands due to their greater efficiency, simple installation, aesthetic qualities and excellent value for money.

In addition, Zytech Rayvin manufactures a new solar tracker for both solar thermal collectors and photovoltaic modules. The incorporation of a solar tracker improves efficiency by between 50% and over 80% compared to conventional installations. All systems produced by Zytech Rayvin Energy Systems are patented.

- High absorption > 98%
- Long lifetime > 20 years

Solar Thermal Systems

Zytech Solar produces a wide range of efficient and reliable solar thermal collectors to meet domestic hot water (DHW) needs.

This is achieved via simple and efficient systems. The designs used include solar thermal systems with flat plate and vacuum tube collectors.



Design and Manufacture of Electric Vehicles

ZYTEL is a company devoted to the manufacture of electric vehicles for your company or organisation, and offers a range of designs and configurations depending on your needs. Zytel made its mark with a line of original, modern and highly-efficient vehicles thanks to the efforts of its R&D department. Zytel offers a number of vehicles which can be used for different applications, such as large commercial areas and logistics or municipal fleets which require a means of transport which does not produce atmospheric or noise pollution.

- Vehicles for urban roads.
- Intelligent, easy to park and fun to drive.
- Cheap to maintain and simple to recharge from any electrical socket.

ZYTEL AUTOMOCIÓN forms part of the MOVELE Project as an electric vehicles manufacturer, launched by the Ministry of Industry in September 2009 in Madrid. Zytel offers its "Gorila" prototype, as the sole Spanish MOVELE electric vehicles manufacturer.

