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Insured profitability

The Enersol's advisors will inform you about the different programs in force which are related with the promotion of the renewable energies and the most profitable financing possibilities for every project. On the basis of the production forecasts and personal economic profitability calculations, we carry out a development scope of the investment according to the previous indicators contents. We always follow the quality and safety criteria which are supported by the specific insurance of photovoltaic power plants which will guarantee the possible unforeseen factors that could be originated and the production to 100%.

Ecological demand

The solar power demand increases every year in our society even if the energetic resources are limited. For this reason the importance of promoting the renewable energies such as the solar one. The high efficiency is another important benefit and in addition the installation does not concern the quality of the air not the soils.

The solar energy is the renewable energy with more presence in the world and one of the possible solutions to help to stop the global warming. For all of this, a continuous and correct maintenance will have repercussions on big benefits for the whole planet.



We take care of your energy

info@importsunpv.com

HUERTOS SOLARES
SOLAR POWER PLANTS



Líderes en el sector

Enersol se ha convertido, por su trayectoria desde su nacimiento en 2004, en una empresa líder en el campo de las energías renovables, más concretamente en el de la fotovoltaica. En este sector, encabeza el mercado de instalaciones sobre cubierta tras haber realizado más de 200 en toda España y en diferentes países extranjeros. Gracias a su equipo humano, altamente cualificado, desarrolla proyectos llave en mano. Esto significa que Enersol se encarga de todos los trámites y trabajos desde la contratación de la instalación hasta la entrega de la misma al cliente. De este modo, los clientes de Enersol presentan un alto grado de satisfacción y tranquilidad en sus inversiones y se ven acompañados por un servicio postventa de altas prestaciones que garantiza la máxima rentabilidad y seguridad a sus inversiones con los mínimos riesgos.

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Tecnología de vanguardia

Enersol desarrolla todo tipo de proyectos, tanto para grandes y pequeñas instalaciones como para todo tipo de empresas y particulares. Ofrece siempre los mismos parámetros de calidad, seguridad y fiabilidad, y aplica en todo momento los últimos avances en el campo de la energía fotovoltaica.
La amplia experiencia del equipo técnico de Enersol aporta un amplio conocimiento de los pasos a seguir antes, durante y después del montaje y aporta soluciones a los retos planteados por los clientes. Como complemento a ello, se presta apoyo continuo una vez realizado el trabajo. Además, se ponen a disposición de los clientes sistemas de medición inteligente y control de las instalaciones con los que podrá supervisar la instalación, con un solo "clic" y en todo momento, gracias al soporte informático de control de planta solar.

Cutting-edge technology

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Huertos solares - Solar power plants

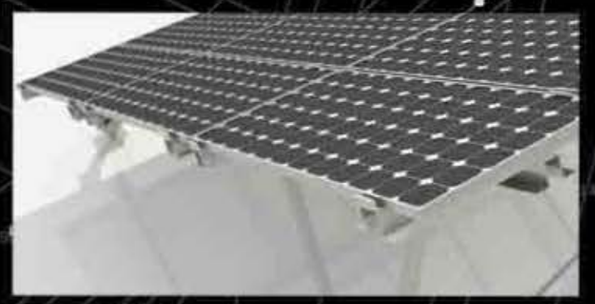




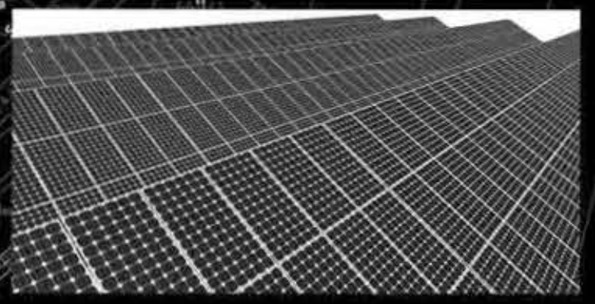
Pocos son los proyectos, los que como mediante la ejecución de un Huerto Solar, se consigue solventar muchas de las necesidades que demanda la sociedad actual, ofreciendo a los ciudadanos la posibilidad de participar y ser beneficiarios de las numerosas ventajas que ofrece la ejecución de un Huerto Solar, tanto a nivel socio-económico como medioambiental. Además, estos huertos permiten que cualquiera pueda invertir en energía solar, como en otro activo, aunque no tenga espacio suficiente, obteniendo una renta económica a cambio.

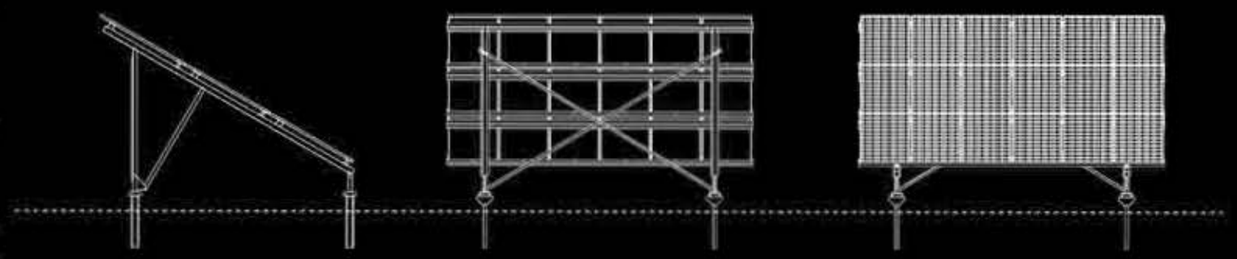
Few ones are the projects, which as by means of the execution of a Solar Power Plant, we ca solve many of the needs that the society demands, offering to the people the possibility of taking part and being beneficiaries of the numerous advantages that offers the execution of a Solar Power Plant, such as socio-economic and environmental factors. In addition, these power plants allow anyone to invest in solar power although it does not have sufficient space, obtaining an economic income in exchange.











Fichas técnicas de las estructuras - Structure datasheet



Los huertos solares suelen estar instalados en puntos de muy alta radiación solar y con gran cantidad de horas de sol, por lo que su producción siempre será de las mas elevadas y rentables. Estos factores garantizan una producción rentable y elevada de las plantas fotovoltaicas.

The Solar Power Plants are installed in places with a very high solar radiation and with a high quantity of solar exposure. For this reason the production will always be one of the highest and more profitable. These factors guarantee a profitable and high production of the photovoltaic power plants.



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Demanda ecológica

La demanda de energía aumenta cada año en nuestra sociedad, a pesar de que los recursos energéticos son limitados. De ahí la importancia de potenciar energías renovables como la solar. Su alta eficiencia es otro importante beneficio, además de que su implantación no afecta a la calidad del aire ni de los suelos.
La energía solar es la energía renovable con más presencia en el mundo, y una de las posibles soluciones para ayudar a frenar el cambio climático. Usar energía solar es una de las formas de proteger nuestros recursos naturales y no producir emisiones contaminantes. Dondequiera que vivamos, siempre hay suficientes rayos solares para producir agua caliente, y también calentar la casa e incluso una piscina.

Ecological demand

The demand of energy increases every year in our society, in spite of the fact that the energetic resources are limited. So it is very important promoting renewable energies as the solar one. Its high efficiency is another important benefit, besides the implantation does not concern the quality of the air neither the land.
The solar power is the renewable energy with more presence in the world, and one of the possible solutions to help to stop the global warming. To use solar power is one of the forms to protect our natural resources and not producing pollutant emission. Wherever we live, always there are sufficient solar beams to produce warm water, and also to heat the house and even a swimming pool.



Beneficio natural

Nuestras instalaciones evitan la emisión de grandes cantidades de CO2 a la atmósfera. Además, dota a la empresa de una imagen innovadora y de fuerte concienciación con el medio ambiente de acuerdo con el objetivo prioritario del "Protocolo de Kyoto" y cumple con el objetivo principal del Plan de Energías Renovables 2005-2010 (PER) por el que se pretende conseguir que las energías renovables cubran un 12% del total de la energía primaria consumida en 2010

Natural benefit

Our installations avoid the emission of big quantities of CO2 to the atmosphere. In addition, they provide the company with an innovative image and with a strong awareness with the environment according to the priority aim of the " Protocol of Kyoto " and fulfill with the principal aim of the Plan of Renewable Energies 2005-2010 (PRE) for which we try to achieve that the renewable energies cover the 12 % of the total of the primary energy consumed in 2010



INSTALACIONES EN CUBIERTAS
INSTALLATIONS ON ROOF

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Cutting-edge technology

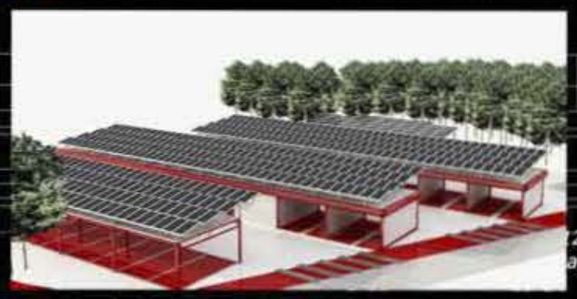
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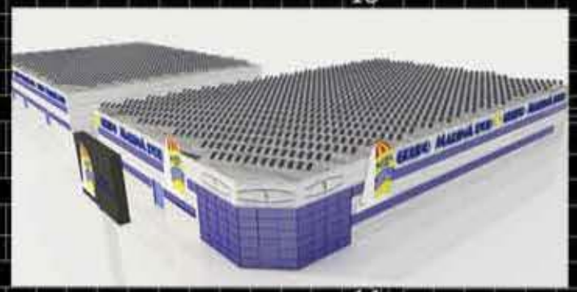
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Estructura fija - Fixed structure









Apostando por la energía solar fotovoltaica , y pensando siempre, en aprovechar los recursos existentes, como son las cubiertas de las naves industriales , que suponen una infraestructura muy idónea para la instalación de la planta, además de que el cliente / propietario diversifica su negocio, maximiza el valor su inmueble e incluso lo dota de un valor añadido de este modo las instalaciones quedan integradas en las cubiertas.

Betting for the photovoltaic solar power, and thinking always of taking advantage of the existing resources, like the roofs on the industrial plants, which suppose a very suitable infrastructure for the installation of the power plant, moreover the client / owner diversifies his business, maximizes the value of his building and even he provides it with an added value. Thus the installations are integrated on the roofs.

Seguidor solar- Solar tracker

CARACTERÍSTICAS TÉCNICAS			
Dimensiones del Módulos (mm)	1.580x808	1.910x990	1.640x992
Nº mínimo de Módulos por Seguidor	4 módulos		
Sistema de Seguimiento	Sistema de inseguridad 20°-30°-40°		
Tipo de accionamiento	Actuador		
Control de Seguimiento	Tarjeta Autónoma		
Estructura	Acero Galvanizado en Caliente según ISO 1461		
Sobrecargas (Kg/m2)	130 Kg/m2		
Carga del Viento máx.	150 Km/h		
Latitud de Utilización	20°-30° Hemisferio Norte		

TECHNICAL CHARACTERISTICS			
Dimensions (mm)	1.580x808	1.910x990	1.640x992
Min. number of Modules per Tracker	4 Modules		
Tracking System	Inseguridad 20-30-40°		
Type of Activation	Actuator		
Tracking Control	See the Chart		
Structure	Hot-dip Galvanized Steel as per ISO 1461		
Overload (Kg/m2)	130 Kg/m2		
Max. Wind Load	150 Km/h		
Latitude of Utilization	20°-30° North Hemisphere		

Seguidor manual- Manual tracker

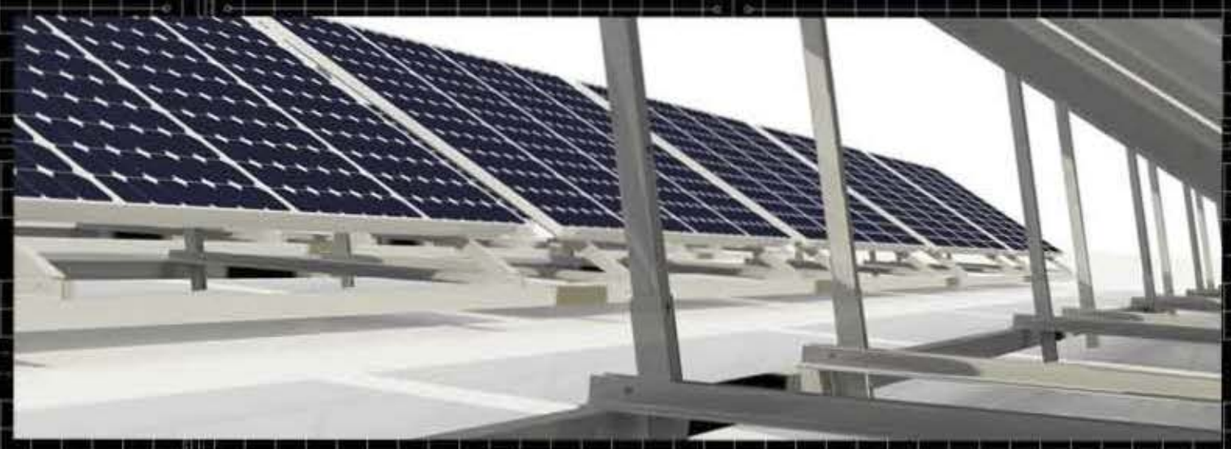


Las empresas dedicadas a las energías renovables son ante todo respetuosas con el medio ambiente como es caso del grupo Enersol donde siempre ha primado el valor de sostenibilidad en sus diferentes actuaciones.

The companies dedicated to the renewable energies are, first of all, respectful with the environment like the Enersol group does where there is always priority to the value of sustainability in its different actions







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Componentes principales - Main components

Estructura - Structure



Módulos - Modules



Inversor - Inverter



Registrador de datos - Datalogge





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Instalaciones destacadas - Main installations



Martín e Hijos



American Suply

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Enersol develops all kinds of projects, for big and small power plants and for all kinds of companies and private individuals. We always offer: quality, safety and reliability applying at all time the latest advances in the photovoltaic power field. The wide experience of our Technical Team allows a high knowledge of the steps to follow: before, during and after the installation assembly offering solutions to the challenges suggested by the clients.

Once the power plant is finished Enersol gives an integral maintenance service which includes:

- *Measurement intelligent systems and control of the power plants. You will be able to supervise the installation with only one "click" and at all time, thanks to the IT support of the solar power plant.*
- *Technical Assistance: supervision "in situ" and possible correction.*
- *Advice and management: legal advice service and administrative management.*

PREVENTIVE AND CORRECTIVE MAINTENANCE

Enersol provides an integral maintenance of your solar power plant by means of monitoring systems. These systems assure us a measurement of the production as well as a control "on-line". With this we always assure the correct running of the power plant and in addition we are able to detect suddenly any anomaly that could be caused.

Furthermore this service also includes the "in situ" inspections of our technicians on the power plant to check and verify the perfect running of the plant.







ADMINISTRATIVE MANAGEMENT SERVICE

Enersol offers the clients the possibility to keep them apart of all the administrative procedures regarding the photovoltaic power plant.

During the activity of generation and sale energy, Enersol offers an integral advice and management service in order to improve the administrative procedures needed such us invoicing, inspection and any other that could be caused by a change of regulations.

















SOLAR PANELS CLEANING

The empirical studies carried out by Enersol show that after low rainy periods or after rains with particles of powder, the production of the power plant suffers an important decrease of performance because an important accumulation of dirt takes place on the photovoltaic modules. The particles fall down little by little producing negative effects which have some repercussion in the decreasing of the performance around 9 % up to 15 %.

For this reason with the maintenance of the solar power plant it is necessary to include cleaning of the modules, at least after periods of rain with particles of powder or long periods without rainfalls.

THERMOGRAPHIC CONTROL SERVICE

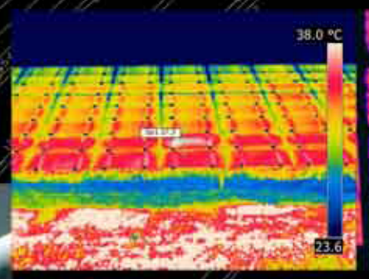
The thermographic analysis fixes the temperature of any component of the power plant. It is based on the superficial distribution of temperature of a module, piece or machinery, and so we get a map of different points of temperatures caused by some anomaly.

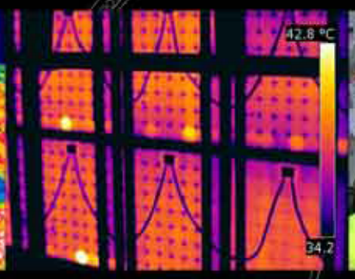
From the results of the Study we will obtain:

- A higher knowledge regarding the thermal state, analyzing the possible losses (escapes) and setting the points of action.

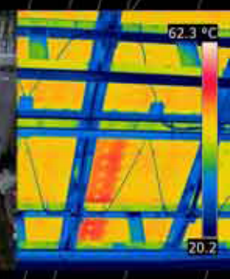
- A study of the distribution systems to alert of the energetic losses that could be given by a bad isolation, breakage or default

- A saving due to a higher energy efficiency of the evaluated systems. The thermographic study of a solar power plant allows us to optimize the performance, with the consequent saving of energy, the detection of parameters out of the ideal temperature range and the subsequent correction allows us to return to the original state of ideal performance.







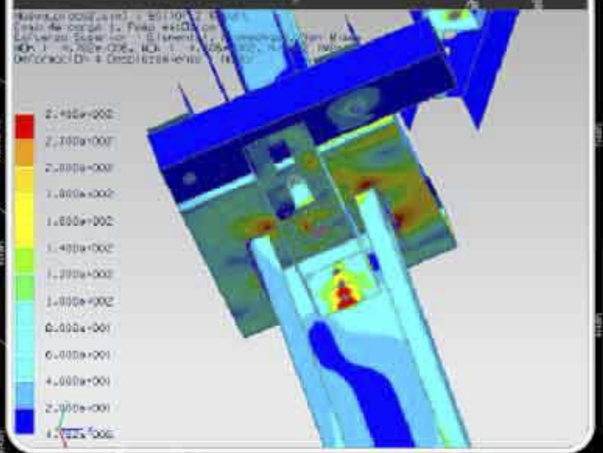


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Engineering

The Technical Department of Enersol Nuevas Energías creates any kind of project according to the last design and calculation technology. Our experts have got a great knowledge and a huge experience which make them able to face any technical challenge.



Topographical layout

The structures designed by Enersol Nuevas Energías show a great precision which has an effect in an easy assembling. For this reason all the foundation points are marked topographically by means of a Total Station or GPS system (GLOBAL POSITIONING SYSTEM) reaching maximum tolerances up to 2 mm.



Structure Assembly

The structures designed by the Technical Department of Enersol Nuevas Energías show many advantages due to the versatility and an easy assembly. The workers who deal with the assembly carry out their work in an effective way reducing costs coming from the manpower.



Modules placement

The solar modules placement does not represent any challenge for the workers of Enersol Nuevas Energías. The structures supporting the modules are provided with a fixing system that allows a rapid placement of the panels, saving time during the works.



Drilling

Enersol Nuevas Energías has the necessary machinery to make any kind of drilling work in any kind of soil, rocky or clayey. This work entails a special precision because it is the basis of a good foundation of the future photovoltaic power plant.



Piles placement

The Enersol Nuevas Energías' workers show a special care when placing and leveling the piles of the foundation. There are several placement methods when placing the piles such as ramming, screwing, concrete pouring and a combination of them.



Back connection

The Enersol Nuevas Energías' workers are qualified to develop any kind of work concerning the electrical connection phase, always demanding a great professionalism when making this kind of work because it is one of the most delicate.



Preparation of the electrical work

From the Technical Department of Enersol Nuevas Energías we previously think in the works that must be done later, once the structure is already assembled. For this reason we always arrange some supports integrated on the structure for wiring.

