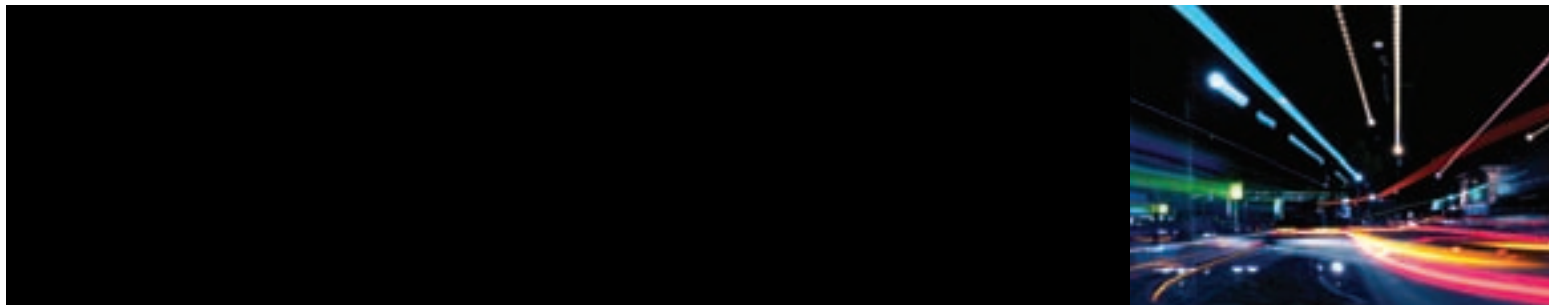


PROENER

www.proener.com

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Progress is a direct consequence of the search for specific, purposeful solutions to the needs of our society. The emergence of new energies, as well as the increasing interest in advancement and finding the technical solution to new challenges brought about by development, is a natural tendency in the mind of the engineer. And, by applying specific engineering solutions to new renewable energies and offering a continuous technical response to the demands of the industrial sector, Proener is taking an active part in this progress.

GRUPO PROENER was founded to occupy a privileged space in the world of engineering, combining its knowledge and technical capacity in the implementation of specific project development solutions. Our global awareness, thanks to which we have gained significant presence in the main developing sectors, gives us a broad vision that facilitates our decision-making process.



GRUPO PROENER was created in 2004 as a means of promoting renewable energies through the development and construction of solar photovoltaic energy plants. This initial launch into engineering applied to the production of clean energy rapidly earned PROENER a strong position among industry leaders, offering an integrated service that includes the development, engineering, construction and maintenance of solar photovoltaic production plants.

FUTURE VISION

The initial business figures from our first few years have today been greatly exceeded, enabling us to continue our search for technical solutions through offering a quality service, while helping us to improve production and to continue developing an idea for the future idea that has a close natural link to that of GRUPO PROENER.

Grupo PROENER pushes ahead with specific proposals for the advancement of engineering applied to the main areas of development and business – energy, industry and renewable energies – in a continuous effort to find the right solution: one which integrates perfectly into our production processes and allows the growth of common technologies.



“PROENER has designed and constructed a 9% of the grid-connected photovoltaic energy in Spain.”



GRUPO PROENER FLOWCHART

GRUPO PROENER
PROENER GROUP

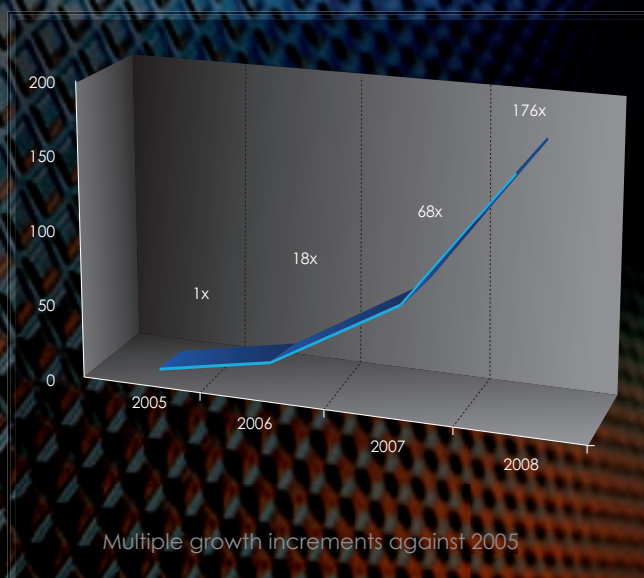
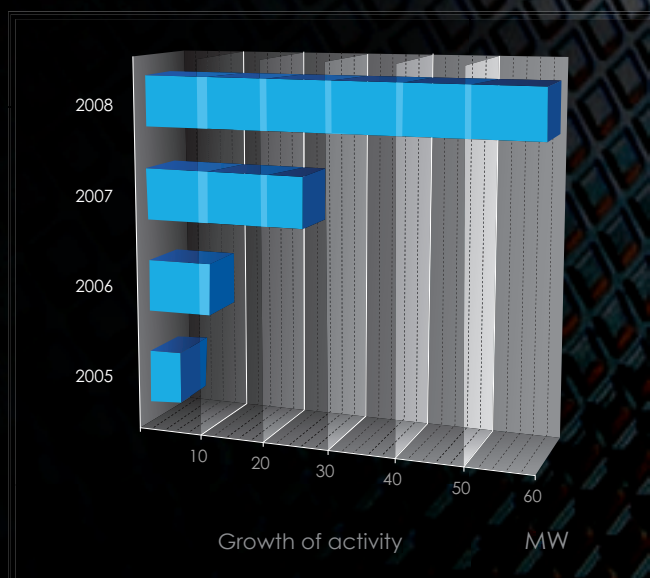
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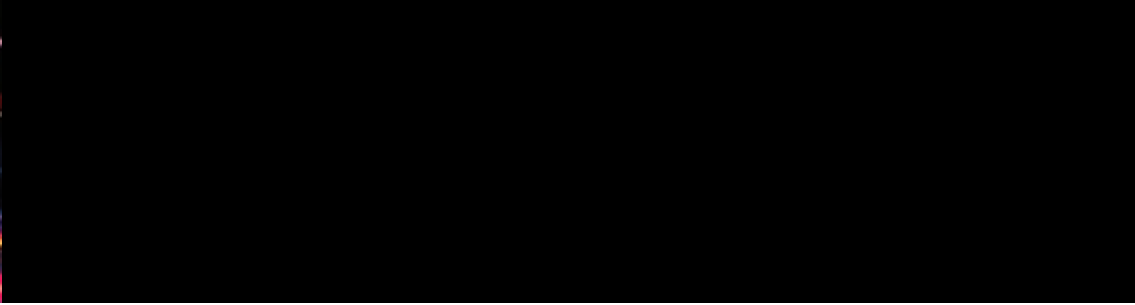


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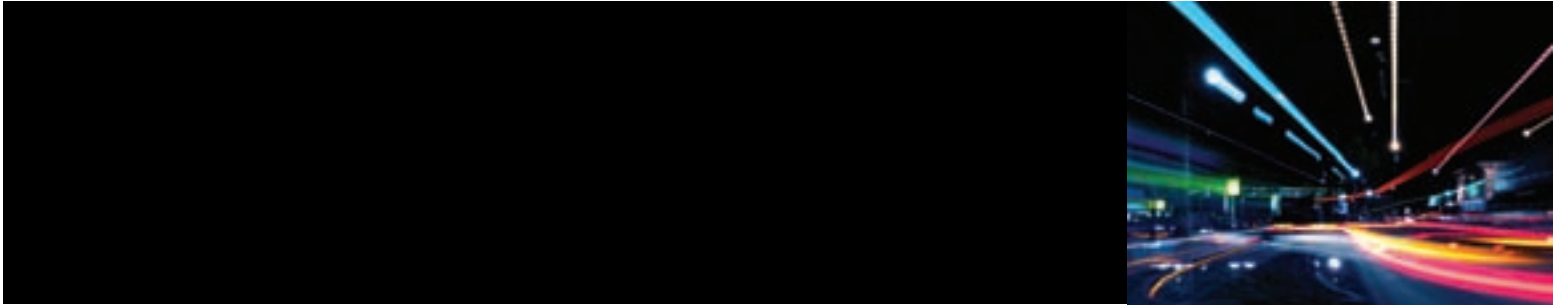




OUR MAIN ASSET

A sharp growth in employee, engineer, technician and specialised personnel numbers has led to a significant rise in our project development and business generation skills. This well-trained team represents the main asset of our company, where the PROENER growth policy of completing all projects based on quality and speed has created a genuine capacity to satisfy the needs of the customer. In just few years, we have multiplied our resources one hundred times over proving our worth in everything we do. At Proener, we invest in training to ensure safety and quality.





PRESENT

Our rapid initial development has allowed us to push forward at a steady pace, in search of integral development engineering solutions. With its sights set on new areas of business, PROENER is now approaching globalized solutions that allow the development of more complex programmes. GRUPO PROENER currently operates in the following business areas:



PROENER INDUSTRIA operates in the engineering, construction and maintenance of industrial plants.

PROENER RENOVABLES: design, engineering and construction of solar photovoltaic energy production plants.

PROENER ENERGÍA: promotion of renewable energy projects.





PROENER RENOVABLES is dedicated to the installation of renewable energy-based electrical generators, with vast experience in the construction

of “turnkey” photovoltaic installations with or without the supply of individual modules.



In the prosperous field of renewable energy, Proener Renovables has become committed to the assignment, development and management of projects, from engineering right through to the construction of solar photovoltaic systems, boasting a wealth of experience that is

vital to the development of this technology in Spain.

In 2007, Proener Renovables built and installed over 27 MW of photovoltaic systems in the Spanish communities of Castilla-La Mancha and Andalucía. Currently involved in construction projects

totalling around 60 MW, the company has made spectacular progress and has seen a rapid growth, broadening its geographic coverage to communities that include Extremadura, Murcia, Castilla-León and Valencia.



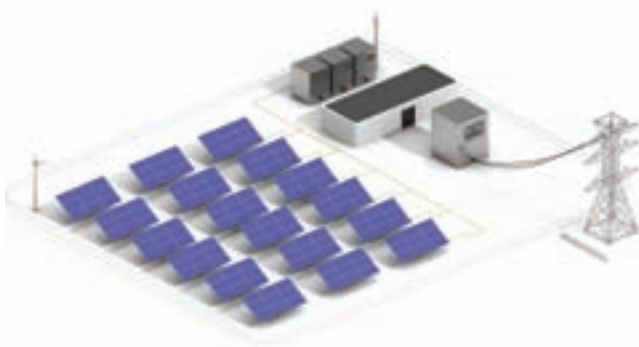
Our company is run by a group of professionals on-hand to help our customers achieve their goals, offering the capacity and flexibility to adapt to the needs of each

project, creating a harmonious relationship between us and our clientele. We offer continuous project-phase solutions from the initial design to start-up, ranging

from material management through to the completion of the project. At PROENER RENOVABLES, our goal is your success.



Photovoltaic modules are secured to a moving structure that allows them to face the sun at all times. Although this requires higher investment and maintenance costs, it offers greater productivity. Our experience in this type of installation, with various tracker manufacturers, allows us to offer an improved service.



Photovoltaic systems with double-axis solar trackers



This system uses the rooftops of buildings, sheds, warehouses, etc. for the installation of a solar-powered electrical generator, exploiting a space that cannot normally be used for any other purpose. Our company offers a team of professionals with broad experience in this field, having completed several projects already.



Fixed photovoltaic panel installations



In this type of installation, the photovoltaic panel support is fixed. This requires less investment and maintenance costs but offers less productivity, and is one of the most in-demand systems among our clients. In this case, we also supply the frame: a light, robust structure that allows very quick installation and provides great stability.



Rooftop photovoltaic installations





PROENER ENERGÍA:

Their mission is to help achieve sustainable growth in respect for the environment. We are dedicated to using renewable energy, convinced

by its potential and driven by our responsibility to preserve our natural environment.

Solar thermal electricity

At present, three different technologies are proven to exploit this source of renewable energy using direct solar radiation:

Parabolic trough collectors: these absorb solar radiation through the surface of a parabolic trough. This concentrated radiation then heats a transmission fluid (oil), producing a vapour that is transferred to a turbine generator unit.

Solar power tower: a solar collector composed of a group of individual concentrators called heliostats, which direct concentrated solar radiation towards a central receiver, normally located at a certain height above ground in a tower.

Parabolic dish/Stirling module: this consists of a group of mirrors set out a parabolic dish shape, which follow the sun on two highly precise axes and use a built-in solar receiver to heat a thermal fluid to 750°C. To generate electricity, the system uses two types of technology: Stirling motors and Brayton turbines.



Facilities that use this type of technology are made up of two parts: one in which solar energy is concentrated and converted into heat, and another in which this heat is converted into mechanical energy and then electricity. The first part, or collector field, is made up of several rows of parabolic trough collectors aligned on a north-south horizontal axis, made up of a parabolic-shaped reflector that concentrates direct solar radiation on a linear receiver at the focal line of the parabola. A heat transfer fluid circulating inside the unit is heated when it passes through the collector field; it is then returned to a set of heat exchangers in the power block where it is used to generate high pressure/high temperature steam. This steam is passed through a Rankine cycle turbine/generator in the power block and then condensed in a standard condenser, before returning to the heat exchangers to be transformed back into steam.

Solar photovoltaic energy

Spain is located in a truly advantageous geographical area for exploiting solar energy with high standards in terms of function, use and performance. Certain areas receive some of the most exposure in all of Europe, with many hours of insolation per day, providing a good return on private investments.

Solar photovoltaic energy is based on the transformation of radiation received from the sun into electrical energy using photovoltaic cells. Built using semiconductor materials (primarily silicon),

these cells are assembled to form photovoltaic modules which are interconnected to generate direct current electricity. Using DC to AC converters, this electrical energy is then transferred to the electrical company's transport or distribution network.

At present, the photovoltaic industry in Spain has a high growth potential thanks to the effort put in by both the government, in the form of Royal Decree 661/2007, and the business industry.

Is a GRUPO PROENER subsidiary dedicated to the promotion of renewable energy-based electrical generators, which is currently focused on solar photovoltaic

and thermal electric energy. The company is run by a group of professionals highly specialised in development procedures such as site location, evaluation,

monitoring and affairs with public administrations and organisations, maintaining a high standard at all times.



Depending on the technology to be used (solar photovoltaic or thermal electric), PROENER ENERGÍA considers that the development of a renewable energy facility can be broken down into several phases:

Site location.

Locating the best possible site on which to build the facility. For thermal electric plants, the site must be located near to a water source, using either concession or irrigation, and equipped with a water treatment facility.

Solar resource study and production simulation.

A solar resource study must be carried out, along with a simulation of the plant's production on the selected site, in order to determine the viability and profitability of the project.

Application for access to the transport or distribution network.

Application for entry into the the Registro de Régimen Especial.

Administrative processing.

The next phase is administrative processing, passing through local, regional and state administrations.

This includes the submission of applications for the environmental permit (DIA), administrative permit and project approval.

Search for partners and/or investors.

Search for financing.

Basic engineering.

Budget approval.

PROJECTS

PROENER ENERGÍA is presently working on numerous development projects using both solar photovoltaic and thermal electric technology at different sites located around Castilla La Mancha and Extremadura, which will benefit company growth.

Photovoltaic

We are also working on several photovoltaic projects, with a total power of 60 MW.

Projects developed by PROENER ENERGÍA to date include:

Brazatortas. Power: 800 kW

Argamasilla de Calatrava. Power: 2,000 kW

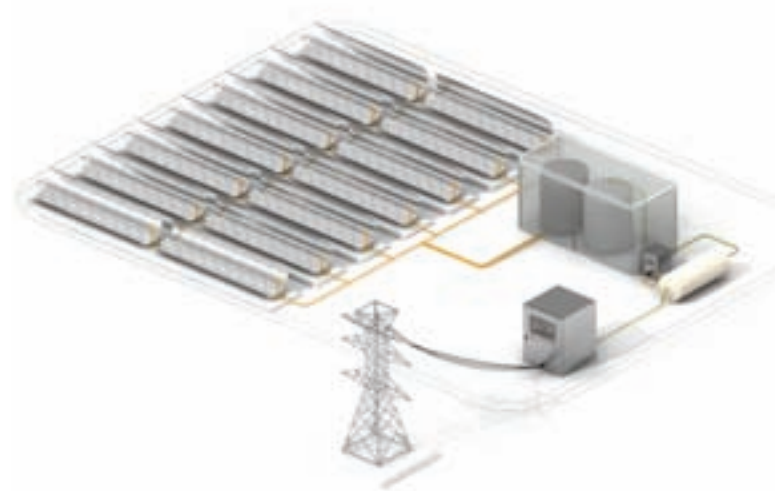
Calzada de Calatrava. Power: 1,500 kW

Herencia. Power: 4,400 kW

Abenójar. Power: 5,000 kW

Solar thermal

We have several projects under development, consisting of 50 MW power stations using parabolic trough collector (PTC) technology.



Solar thermal



PROENER INDUSTRIAL:

Grupo Proener, through its business division Proener Industrial, designs and implements activities for the

maintenance and construction of electrical and industrial plants.

INDUSTRIAL

Industrial maintenance

Industrial maintenance: this includes the planning and execution of predictive, preventive and corrective maintenance in the areas of dynamic systems, static systems, electricity and instrumentation.

Construction of electrical and industrial plants:

Grupo Proener has developed and trained a competent and effective construction team, made up of individual specialists in the areas of electricity, mechanics and instrumentation.

Engineering services:

Grupo Proener has studied the needs and concerns of the industrial sector, and is currently putting together an expert engineering team capable of providing integrated services in the design, execution and operation of industrial plants.



CAPACITIES

Grupo Proener offers its customers a global solution to their project needs, ranging from design right through to construction, start-up and maintenance. Our main services are:

- Basic and precision engineering: in the areas of construction, piping, mechanics, electricity and instrumentation
- Technical services: for the drafting of numerous types of technical documents.

Machining workshop: for equipment repair and custom part machining

Electrical workshop: for equipment repair and electrical panel manufacturing

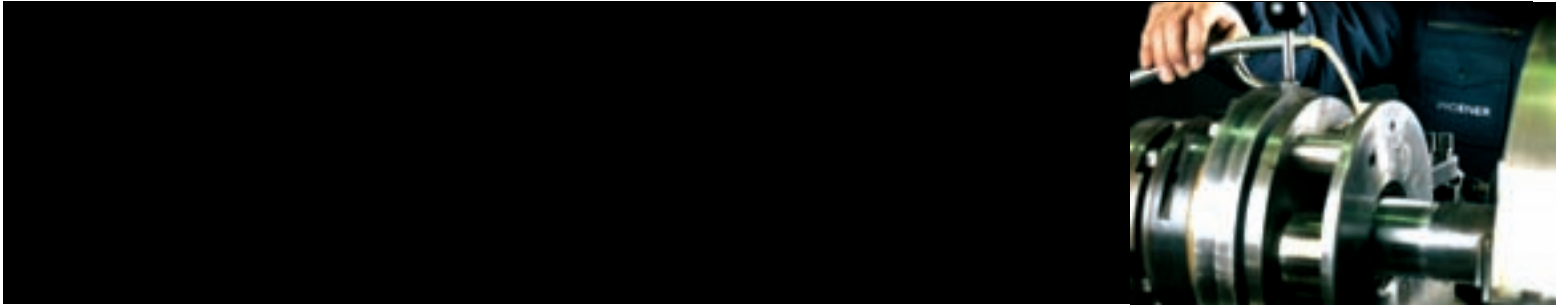
Instrumentation workshop: for the repair and calibration of all types of instruments, automatic valves, safety valves, etc.

Industrial assembly: for mechanical, electrical and instrumentation installations
Start-up: for supervision and

operation provided by highly-qualified personnel

Maintenance: predictive, preventive and corrective

Shut-down: we offer personnel experienced in management and execution of shut-down procedures.



PROJECTS

Some of our more prestigious references include:

Industria Maintenance:

Maintenance of dynamic equipment at the REPSOL YPF refinery in Puertollano.

Maintenance of the Repsol Química LDPE plant in Puertollano.

Maintenance of high-pressure valves for Repsol Química, Puertollano.

Lighting maintenance for Air Liquide plants in Puertollano.

General inspection of ethylene hyper compressors for Repsol Química, Puertollano.

General inspection of dynamic systems at the Enel Viesgo thermal power plant in Puertollano.

General inspection of dynamic systems at the Elcogas thermal power plant in Puertollano.

Industrial Construction:

Electrical and instrumentation assembly of dehydro-sulphurisation reactor at Repsol Petróleo, Puertollano.

Mechanical assembly of new catalyst injection system at Repsol Química, Puertollano.

Instrumentation assembly contract for new projects for Repsol Petróleo, Puertollano.

Construction of two return gas cooling systems for Repsol Química, Puertollano.

Construction of high-pressure ethylene cooling system for Repsol Química, Tarragona.

Industria Engineering :

Basic and precision engineering on process modifications for Repsol Química.

Site engineering supervision for Repsol Química, Puertollano.

Engineering works for effluent treatment plant in Cartagena, for Sadyt.

Planning of electrical installations for Repsol Química HDPE plant.

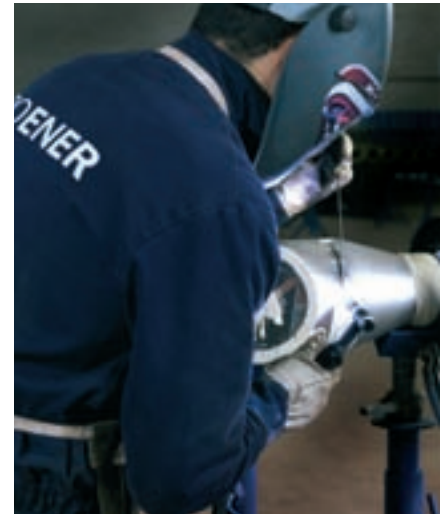
Drafting of RACI as-built drawings for Repsol Química plants.

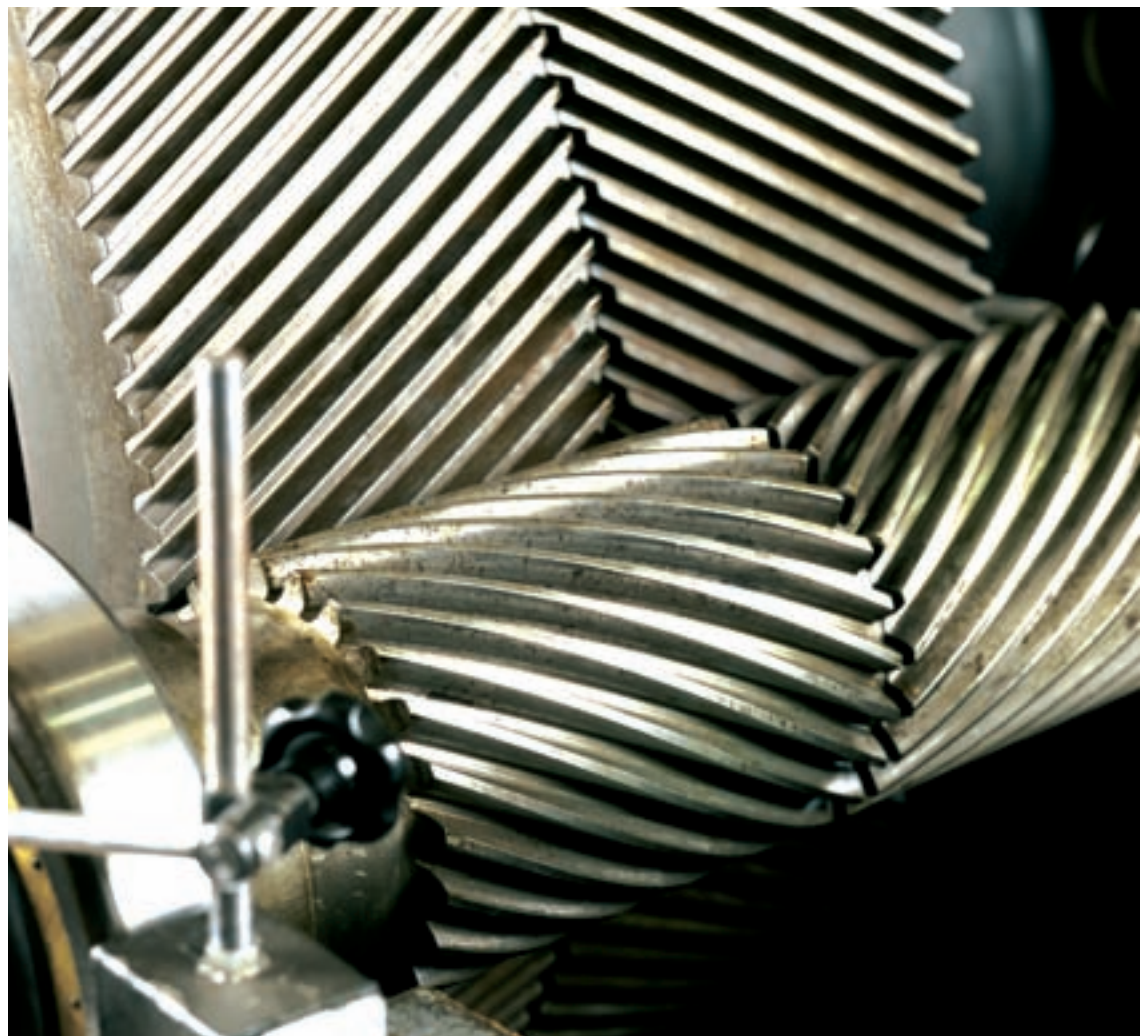
Installation project for the new LDPE plant catalysis room for Repsol Química.

Cooling water piping project for the Iberdrola thermosolar plant.

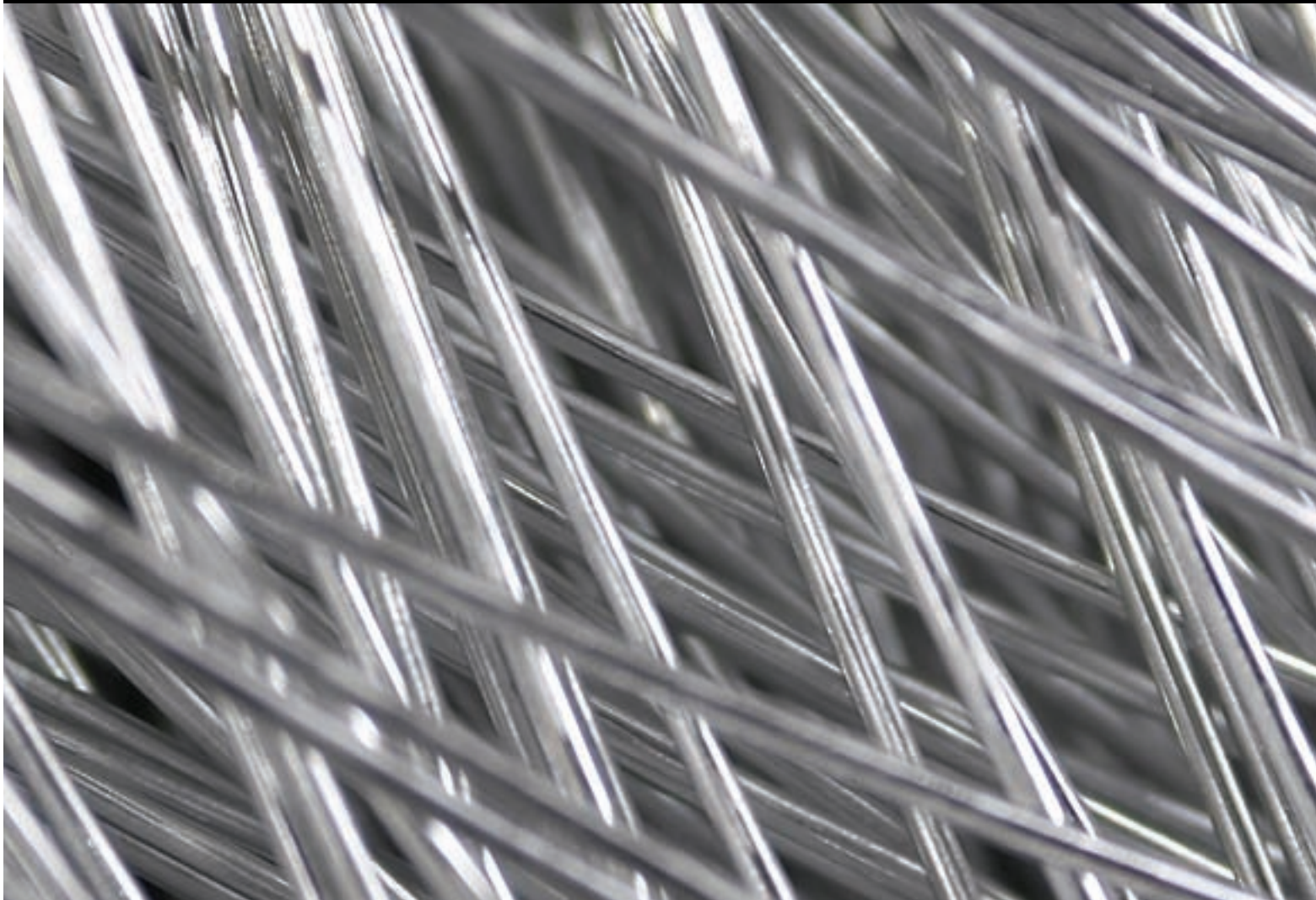
Project for the installation of solar heating panel factories for Solaria.

Drafting of P&I for Repsol Química plants.





* papel (cubierta): Heaven 42
300g/m2 // FSC- certified
* papel (interior): Heaven 42
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