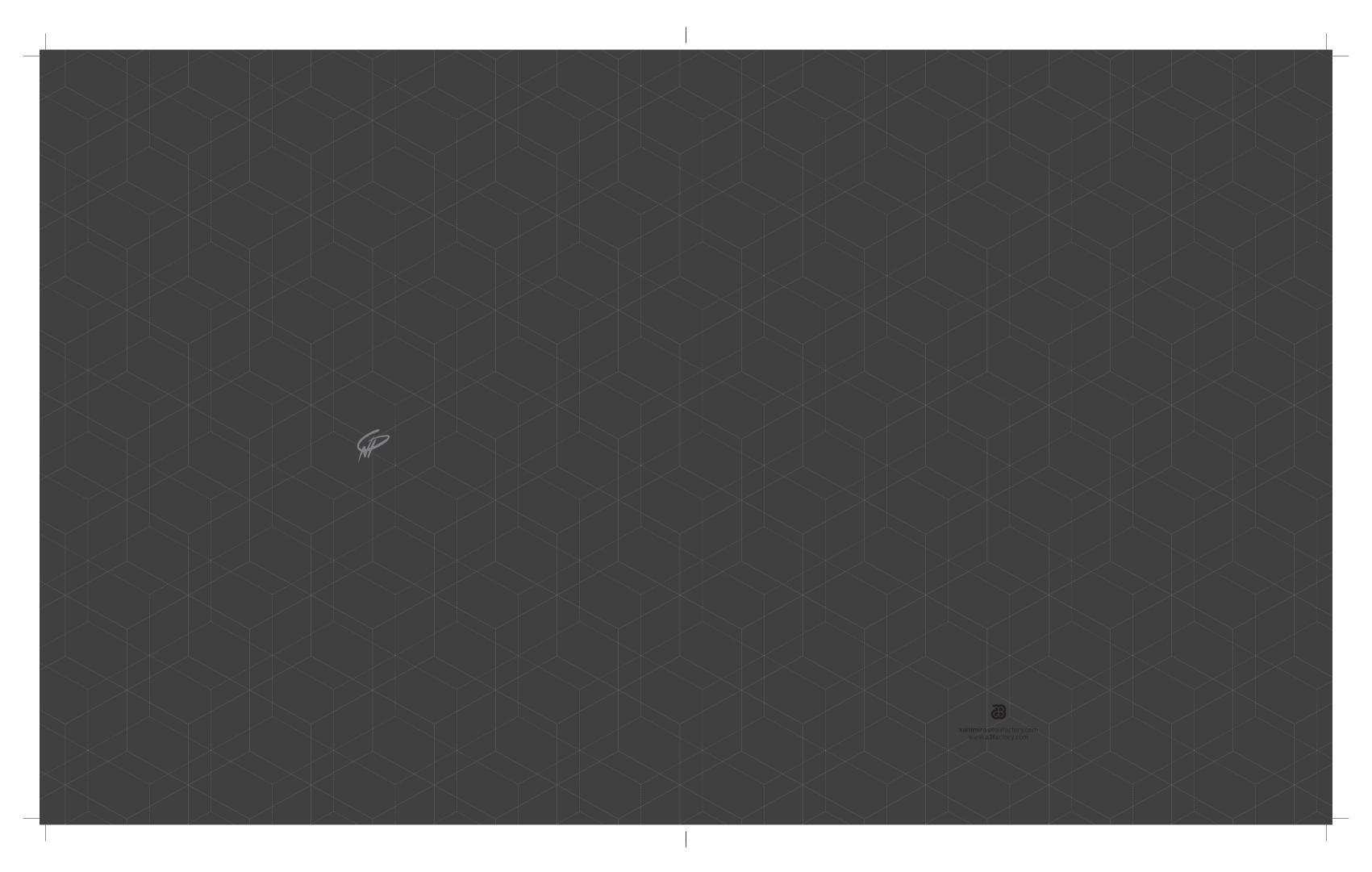


Construcciones Navarro Piquer S.A. Polígono Industrial Sepes - Parcela 510 13500 Puertollano Ciudad Real - España Tel: +34 926 42 67 62 Fax: +34 926 44 17 56 Email: navarropiquer@cpe-cr.es www.navarropiquer.com







"VICENTE BUENDÍA" BUSINESS PARK, Polígono la Nava II



Belonging to the Chamber of Commerce, it is a building with a remarkable design located in the La Nava II industrial estate.

It is built on an area of 7,724 m2. Total built area: 2,016 m2.

It consists of twenty-two 18 m2 offices. - Six 36 m2 offices. - One 25 m2 office. - One 57 m2 office. - Six 100 m2 stores. From its beginnings, Navarro Piquer has been a clear reference point in industrial civil engineering in Spain. In recent years, it has shown an increasing interest in carrying out civil engineering in the field of renewable energies, opening up new possibilities and fields of action for the sector in Spain.

> Navarro Piquer was established in Puertollano (Ciudad Real) as a family business in 1982 and has been growing ever since.

The development of the industrial and energy sector associated with this region has enabled us to carry out projects of great complexity and technical demand for companies of the importance of Repsol or Iberdrola. In this way, we have positioned ourselves as a construction company of reference at a national level.

### NAVARROPIQUER Civil engineering

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Navarro Piquer is a Spanish company dedicated to the construction and promotion of Building and Civil Engineering projects, specializing in industrial plants. It has recently carried out projects related to renewable energies: solar thermal plants, photovoltaic plants, biodiesel and combined cycle gas plants, in a clear bid for the future of the civil engineering sector in Spain.

Most of its works, and the most important ones, have been carried out in the city in which the greatest investment has been made in clean energies in recent years: Puertollano.

VALUES

Navarro Piquer's values are our hallmark and stamp of quality which can be seen in all our projects.

We are specialised in Experience // In over twenty the various types of Works, enabling us to combine tradition with a vanguardist approach materials and technical prejudice to the safety and quality of the implementation and

constructions of different natures such as power plants, institutional buildings, water treatment plants and bull rings.

In Spain we are pioneering in the construction of biodiesel plants and thermosolar energy plants.

five years carrying out largescale works we have acquired the *Construction and Civil* expertise required to undertake all the construction stages, however complex they are.

Punctuality // We scrupulously meet the delivery deadlines *in the selection of* stipulated in the contract, without **Drocesses.** completion of our works.

*We have undertaken Flexibility* // All the projects are different and require exclusive treatment, both in technical and human terms. We adapt to premises of markedly optimise work processes whatever the size of the construction.

*Safety* // We have assumed a strong commitment to Work Risk Prevention and we also have numerous official certifications endorsing us.

*Quality* // Our experience in the sector has provided us with exhaustive knowledge in terms of techniques, materials and machinery, always putting the best solutions on the market at your disposal.

Geographic Mobility // We are capable of successfully undertaking works anywhere in Spanish territory and we have already taken part in projects in the majority of Spain.





The project will permit the connection of the "El Carmen" and "Las Mercedes" districts with the Puertollano city centre crossing over the railway lines.

improvements:







Building work began in 2008. The new Stadium has a seating capacity of 7,254 and the pitch has an area of 105x64 metres.

Powerful floodlighting has been installed in the four corners, with a lighting power of 850 lux.

It has 24 boxes in the Grandstand area, which the Puertollano Sports Club has put up for sale to companies and institutions



NAVARROPIQUER Civil engineering

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ENERGY

Navarro Piquer's clear commitment to carrying out leading projects in the implementation of clean energies, either in biodiesel plants, solar thermal plants or photovoltaic plants, has enabled us to participate with strategic partners in the starting up of R&D plans for the technological development of DSG (Direct Steam Generation). Navarro Piquer continues to be leader in the implementation of civil engineering in pioneer projects in Spain for the commissioning of renewable energy plants.



PUBLIC WORKS

ENERGY

The AllWall<sup>®</sup> system has been used for the walls of the building. This new system permits continuous factory walling which combines traditional masonry techniques with modern practices of contemporary architecture

land to

No.

### Iberdrola Solar Thermal Plant, Puertollano, Ciudad Real



Thermal plant in which the boiler equipment has been replaced by a solar field formed by Parabolic Trough Collectors

» The solar field of the Puertollano Solar Thermal Plant consists of 352 parabolic cylilnder collectors of approximately 150 m in length. Solar collection area of 287,760 m2.

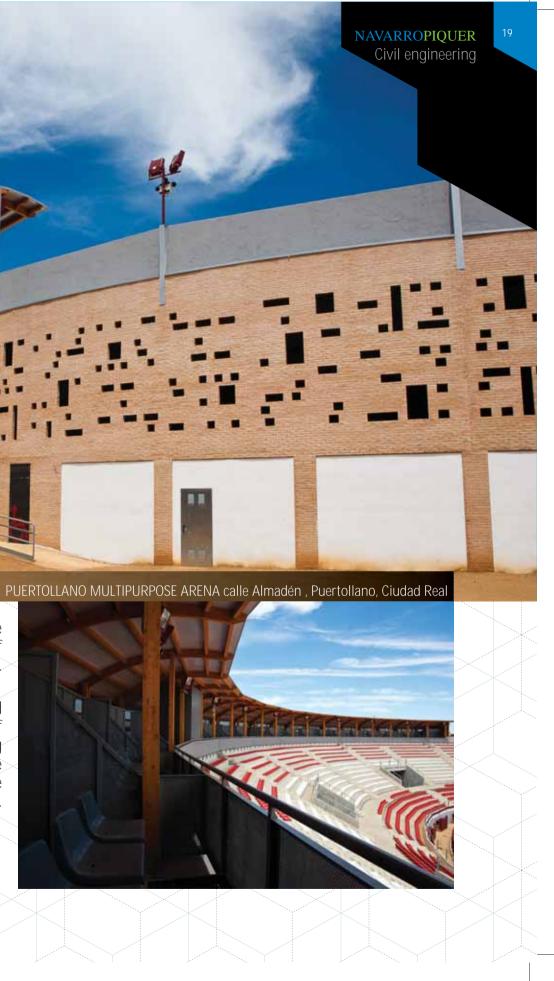
» The plant contains 118,272 parabolic mirrors and 12,672 absorption tubes (about 50 kilometres of tube).

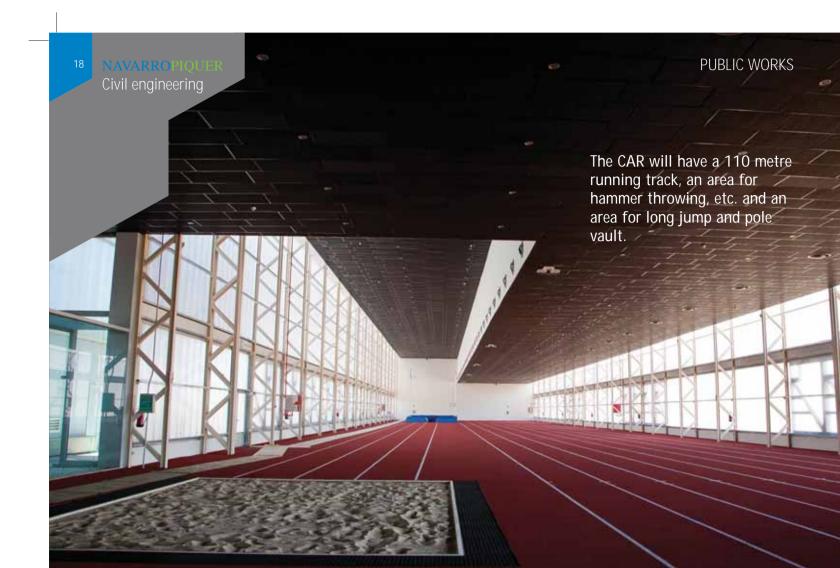
» The collectors are arranged in the plant in such a way as to minimize radiation losses due to projected shadows, such that the plant occupies approximately 1,350,000 m2 (135 ha) of land.

» The Plant is expected to produce 114.2GWh per year, equivalent to the average consumption of 20,000 homes.

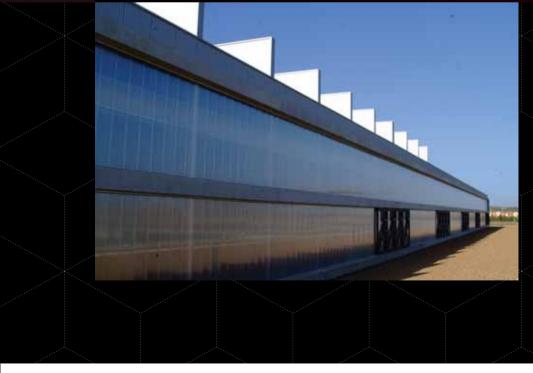
The site is located in the northeast of the town of Puertollano.

The work has consisted basically of the building of the foundations for erecting the prefabricated concrete structure and walling using the AllWall<sup>®</sup> system.

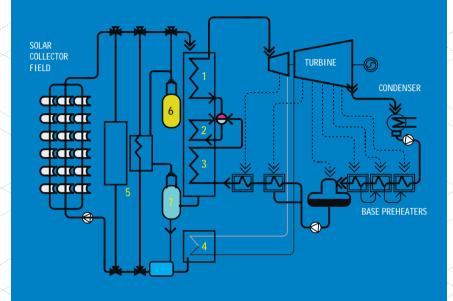




HIGH PERFORMANCE CENTRE Calle Malagón, Puertollano, Ciudad Real



The High Performance Centre is a building that combines functionality with a style associated with the mining heritage of Puertollano. A corporate lattice has been placed on the outside, whose materials bring to mind those used in the construction of mining masts, and which allow plenty of light to enter the building. ENERGY





5. FOSSIL FUEL BOILER 6. HOT TANK



NAVARROPIQUER Civil engineering

## Iberdrola Solar **Thermal Plant**

Type of technology: Collectors Parabolic Troughs (CCP)

Location: Puertollano Ciudad Real.

7. COLD TANK

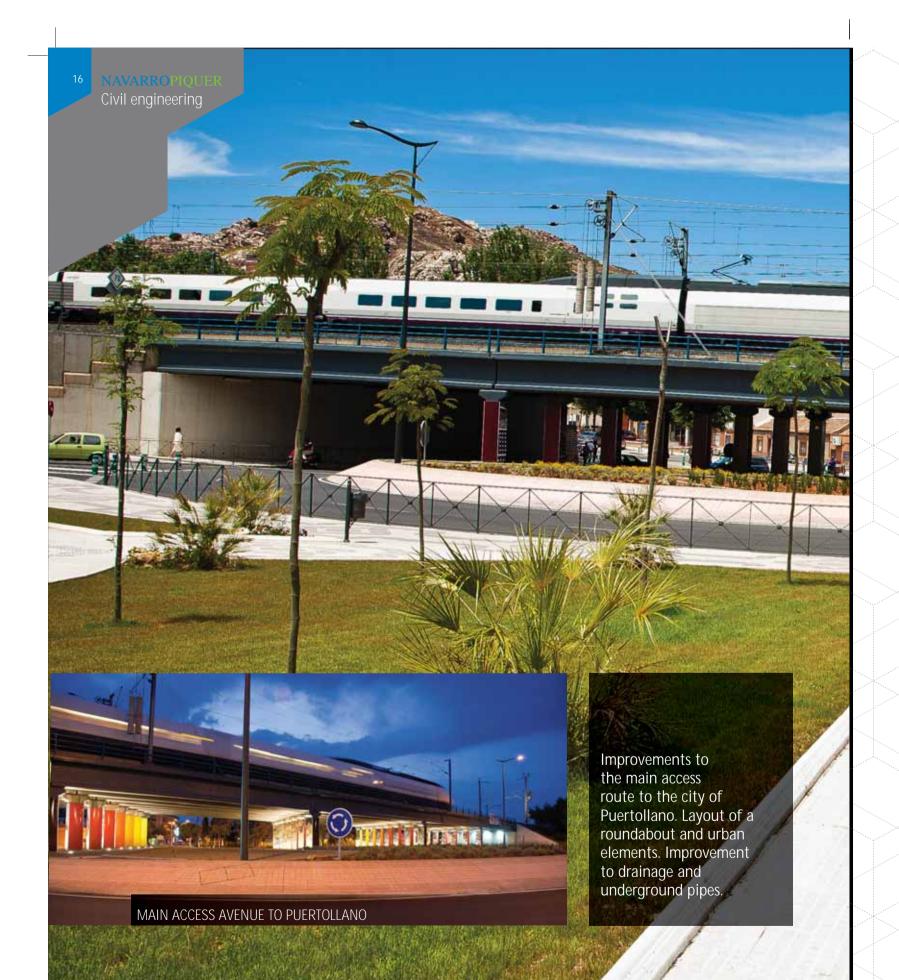


NAVARROPIQUER Civil engineering

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### PUBLIC WORKS

In recent years, the recognition of Navarro Piquer as one of the leading Civil Engineering companies in the region has enabled it to take part in major projects of a public nature. Thus, we can see its major presence in notable projects in Puertollano, such as the main access avenue to the city, the multipurpose arena, the High Performance Sports Centre, the municipal slaughterhouse and the Puertollano Football Stadium.



ENERGÍA » proyecto de futuro

# GDV

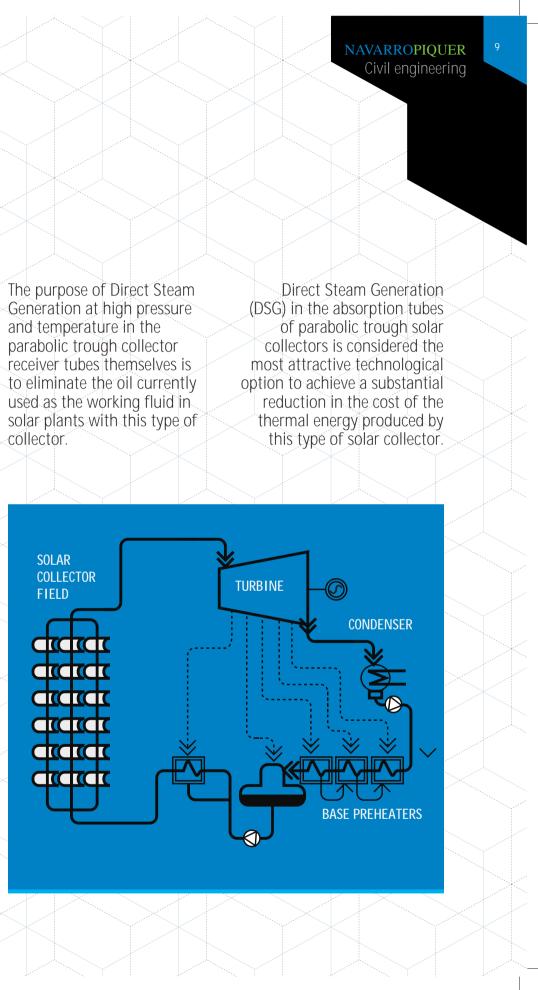
Navarro Piquer is carrying out R&D projects in association with IDAE, CIEMAT and IBERDROLA for the development of the technological development of DSG (Direct Steam Generation) collector.

Elimination of thermal oil.

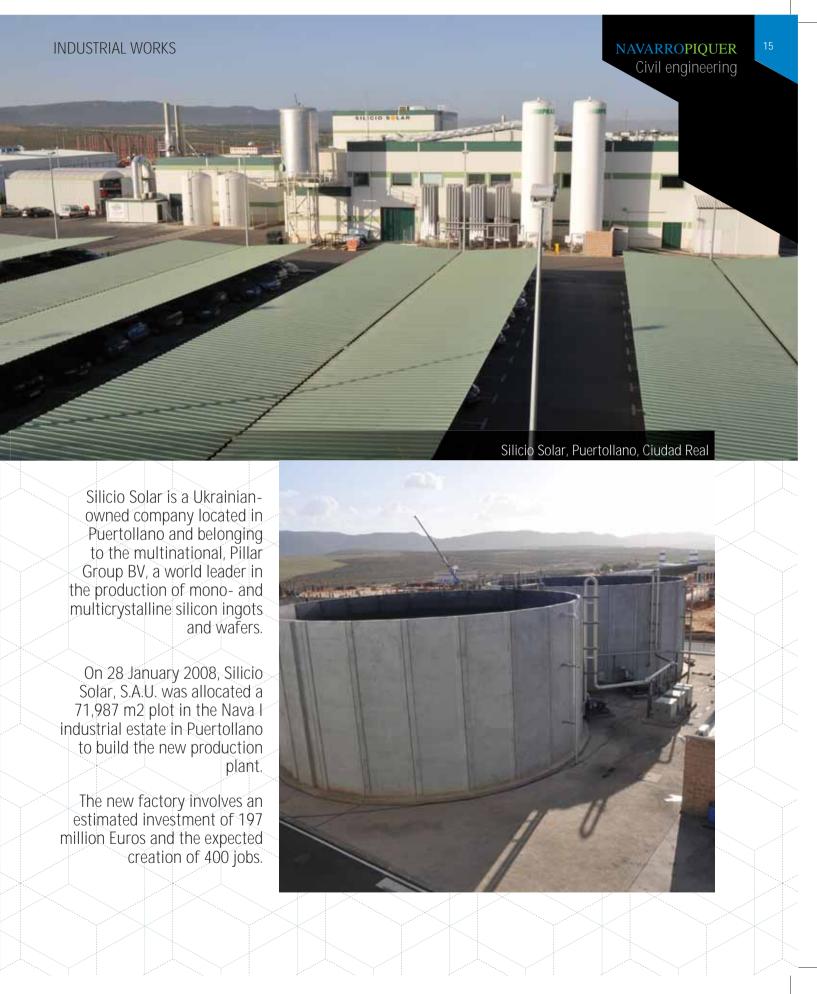
Direct generation of steam in the absorption tube.

Improved energy efficiency.

Reduced size of Solar Field for the same production thanks to increased efficiency







Civil engineering

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## 2007

1000

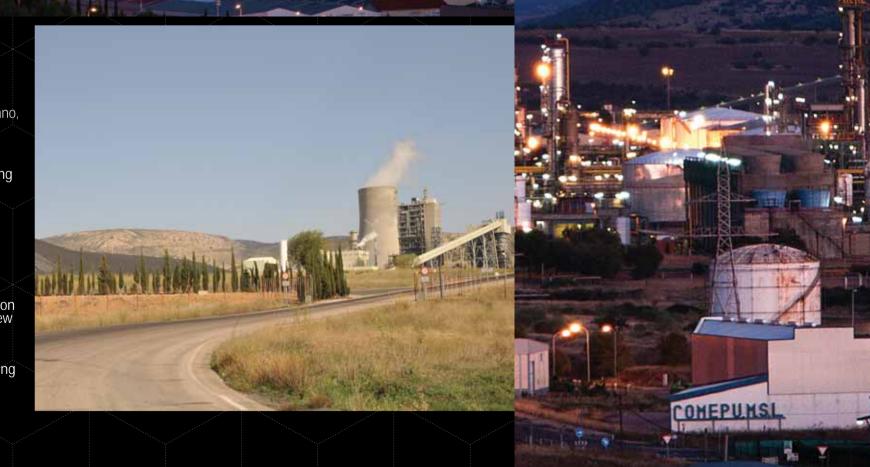
» Repsol Petróleo, S.A., Puertollano, (Ciudad Real).

» Civil Works for the conditioning and signalling of the streets in the northern zone of the complex.

» Repsol Petróleo, S.A., Tarragona.

» Project T-35. Construction of a substation for the new Benzene Plant

» New blocks for anchoring the torch of refinery II.



NAVARROPIQUER Civil engineering

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### INDUSTRIAL WORKS

TARRAGONA PUERTOLLANO CARTAGENA BILBAO

From the start, Navarro Piquer has been associated with industrial projects carried out in the region, marked chiefly by the presence of the Repsol refinery in Puertollano.

The groundwork performed in the industrial area and the complexity of the different jobs carried out throughout its history in key locations such as Cartagena, Tarragona and Bilbao, make Navarro Piquer genuine specialists in the implementation of technical programmes in the sector of civil engineering applied to industrial projects.



# 2010

» Repsol Petróleo, S.A., Puertollano, (Ciudad Real).

- » Extension of storage capacity C-10
- » Maintenance Contract (2 years).
- » Petronor, S.A., Muskiz, (Vizcaya).

» Project ADI-1000 New Units to reduce Fuel-Oil production

» Repsol Petróleo, S.A., Cartagena, (Murcia).

- » Project C-10, extension of Cartagena refinery.
- » Construction of several prefabricated electric substations,



## 2009

(Ciudad Real).

Warehouse.

