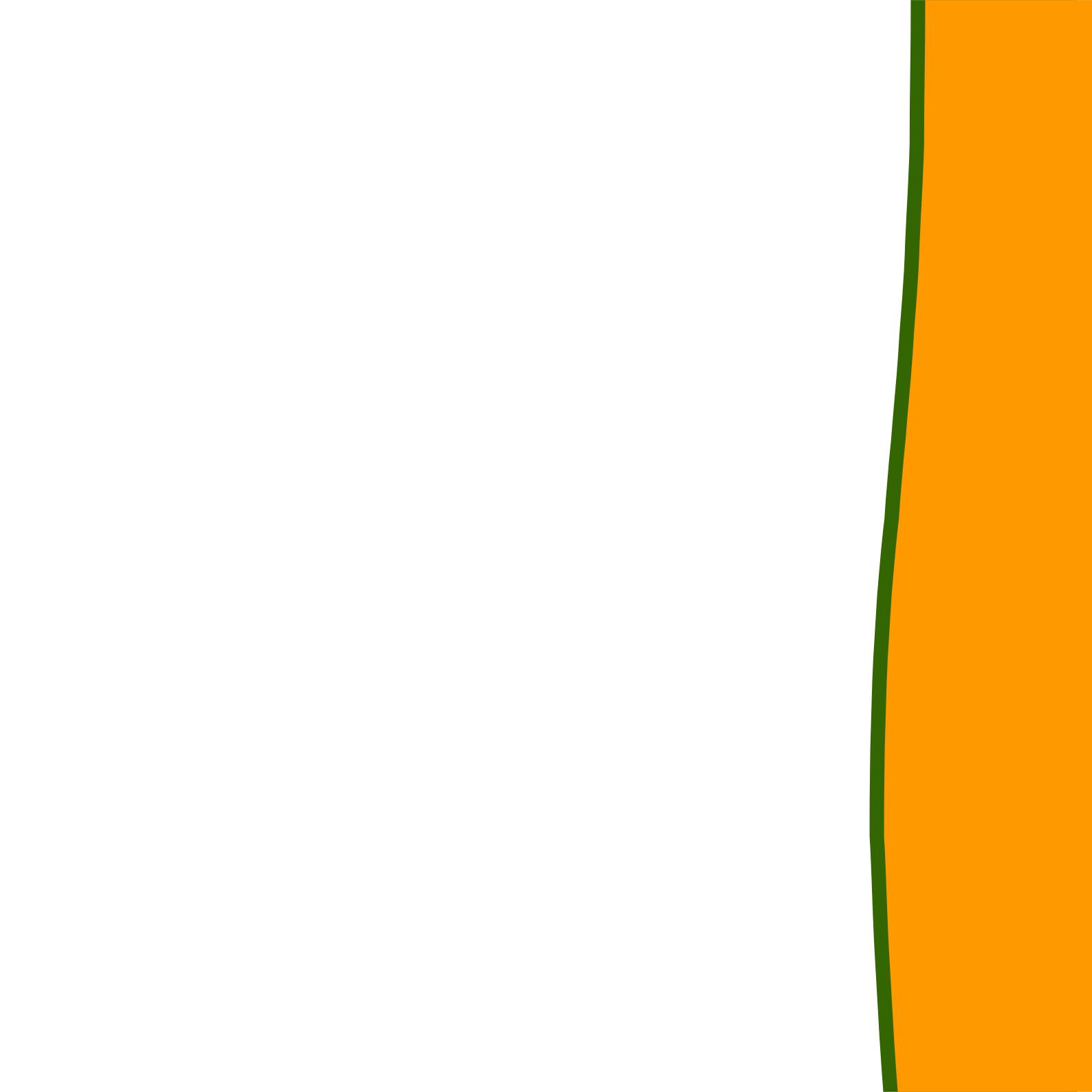


# GRUPO RENDER INDUSTRIAL

DEPARTMENTS OF ENGINEERING AND ASSEMBLY





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## INTRODUCTION. GRUPO RENDER INDUSTRIAL.

**GRUPO RENDER INDUSTRIAL INGENIERÍA Y MONTAJES, S.L.** is an Extremaduran business group in continued expansion.

Founded in 1999 because of the merger between three specialized companies whose main service was the integral management and promotion of projects and industrial facilities. From this union was born a strong work team with long experience, specialized personnel, technical resources and continuous technological innovation. All these qualities conferred on us high competitiveness and give us a reach into all Spanish geography.

GRUPO RENDER INDUSTRIAL main objective is to offer a complete service for engineering and assembly, precise and adequate for the needs of every company or individual.

GRUPO RENDER INDUSTRIAL is a dynamic group and we have a lot of experience and confidence. High capacity and enormous agility endorse us. With these values we have obtained the trust of many companies first-rate and several quality seals confirm this. Our broad diversification allows us to offer: direct contact, personalized and specialized service.

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**GRUPO RENDER INDUSTRIAL MAIN OBJECTIVE IS TO OFFER A COMPLETE SERVICE FOR ENGINEERING AND ASSEMBLY, PRECISE AND ADEQUATE FOR THE NEEDS OF EVERY COMPANIES OR INDIVIDUAL.**

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GRUPO RENDER INDUSTRIAL 'engineering department has highly qualified personnel to develop and manage large-scale projects and technical advance.

The extensive and diverse experience in human resources together the implementation of project management system and software products first-rate, allow us to tackle any type of challenge with guarantees.

From the initial project design to technical assistance on the work, GRUPO RENDER INDUSTRIAL offers: quick, appropriate, groundbreaking and satisfactory solutions in many sectors. Certainly, GRUPO RENDER is the appropriate technical manager for your project.

## **SOLUTIONS.** GRUPO RENDER INDUSTRIAL

GRUPO RENDER INDUSTRIAL offers solutions adapted to any specific technical requirements.

### **SOLUTIONS**

- CONSULTANCY
- PRELIMINARY PROJECT
- PROJECT OF EXECUTION
- PROJECT MANAGEMENT
- TECHNICAL ASSISTANCE IN CONSTRUCTION
- ROLLOUT
- MAINTENANCE RECORDS
- OPTIMISATION OF EXECUTED FACILITIES, USE OF THE LATEST TECHNOLOGIES
- ENERGY OPTIMIZATION

The lifecycle of any project is covered by the team of GRUPO RENDER INDUSTRIAL. From the project design to the putting into service, GRUPO RENDER INDUSTRIAL will lead the installation development until the completion. In addition, the project will be endowed with the best dynamic, demanded by promoters.

GRUPO RENDER INDUSTRIAL does not only give an appropriate response, we will also find the best possible optimizing solution, in the most efficient manner.



## **SOLUTIONS.** GRUPO RENDER INDUSTRIAL

GRUPO RENDER INDUSTRIAL offers a quick and adequate response for any proposals of the execution installations.

### **SOLUTIONS**

- ELECTRICAL INSTALLATIONS OF MEDIUM VOLTAGE DISTRIBUTION NETWORK
- ELECTRICAL INSTALLATIONS OF LOW VOLTAGE DISTRIBUTION NETWORK
- ELECTRICAL INSTALLATIONS OF TELECOMMUNICATIONS NETWORKS
- ELECTRICAL INSTALLATIONS OF POWER PHOTOVOLTAIC PLANTS
- ELECTROMECHANICAL ASSEMBLY IN INDUSTRIAL BUILDINGS
- ELECTROMECHANICAL ASSEMBLY IN AIRPORTS
- ELECTRICAL INSTALLATIONS IN COMMERCIAL AND RESIDENTIAL BUILDINGS
- MOUNTINGS OF AIR-CONDITIONER UNITS
- ELECTRICAL INSTALLATION CERTIFICATES

GRUPO RENDER INDUSTRIAL provides necessary support to perform the electrical installation, but we do not make only the implementation. With an expert team of technicians with long experience in: designs, optimization, implementation and start-up; the promoter and the final user will be advise, from initial conception.

GRUPO RENDER INDUSTRIAL is present with our solutions in the most dynamic sectors of the economy.

### **AREAS OF ACTIVITY**

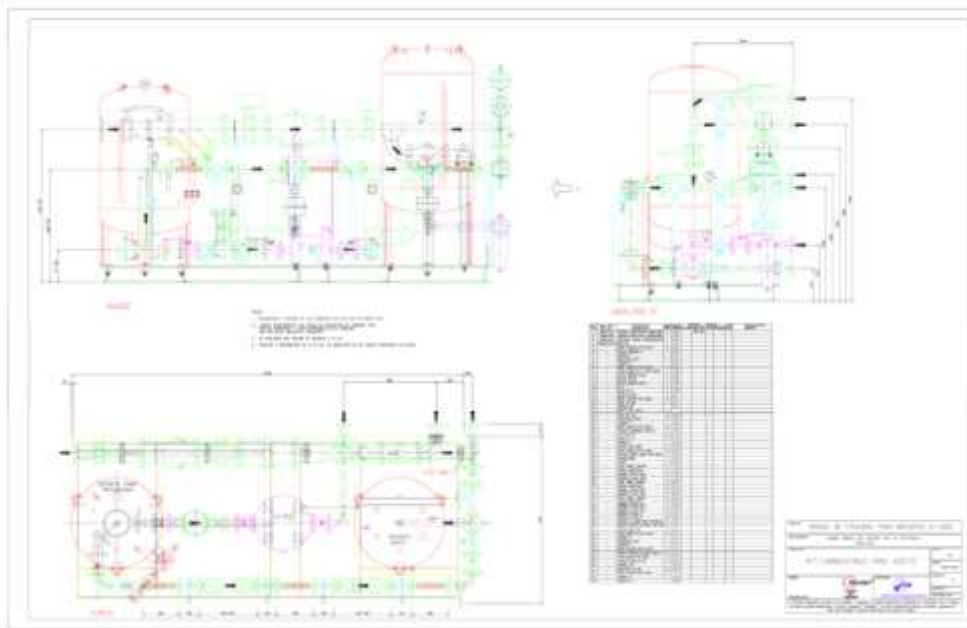
- ELECTRICAL INFRASTRUCTURES
- TELECOMMUNICATION INFRASTRUCTURES
- AIRPORT INFRASTRUCTURES
- ENERGY FACILITIES
- ELECTRICAL INSTALLATIONS
- AIR CONDITIONERS

The effort, and the confidence of GRUPO RENDER INDUSTRIAL in its “know-how” of execution of installations, has finished with the obtainment of the Certificate of state public works contractor in several classifications. These include the maximum classification for companies dedicated to electrical installations that they make state public works without restricted tender budget.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### INSTALLATIONS IN TEST BENCH FOR ENGINES EJ-200 (AIR BASE OF MORÓN DE LA FRONTERA)



**PROJECT:** Air, fuel and fire installations in test bench for engines EJ-200.

**OWNERSHIP:** ITP GROUP

**LOCATION:** Morón de la Frontera (Sevilla)

**DATE:** 2002

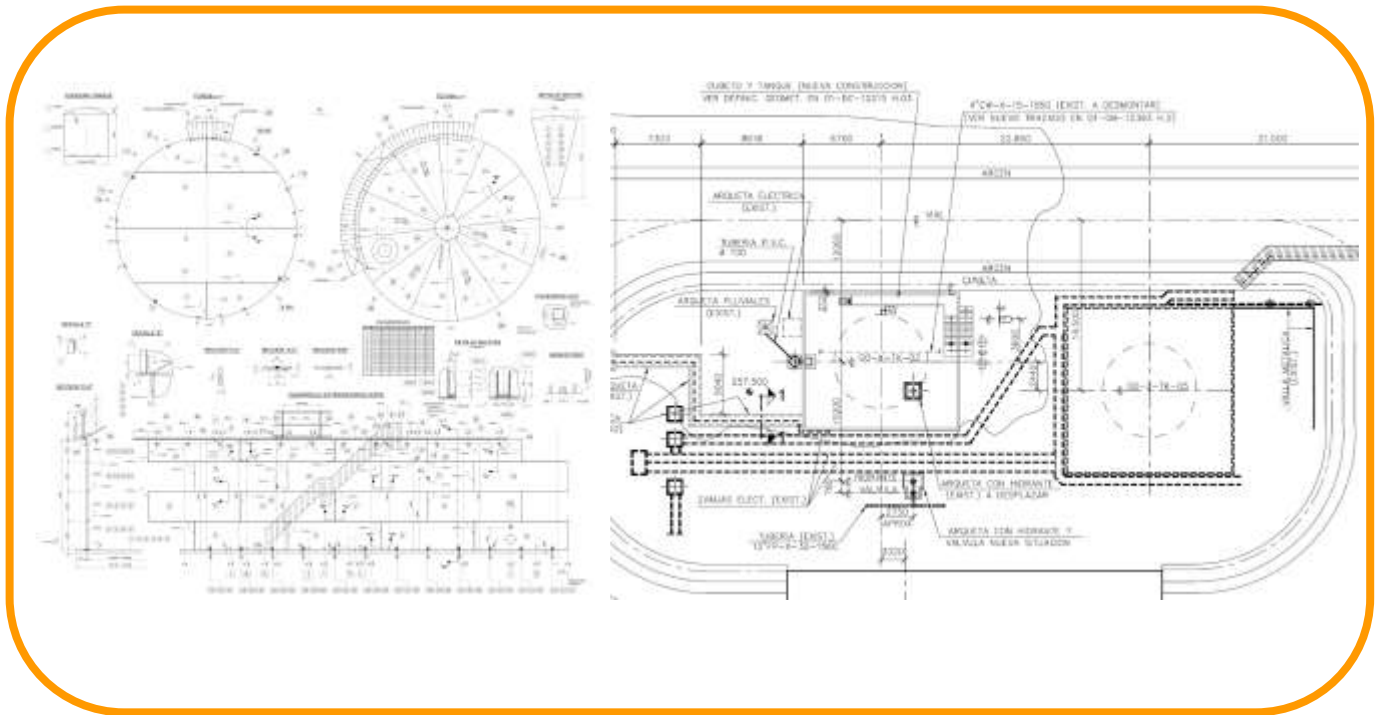
**DESCRIPTION:** Air, fuel and fire installations in test bench for engines EJ-200, air base

**SCOPE:** Executive project

## PROYECTOS. GRUPO RENDER INDUSTRIAL.



### DIESEL TANK FOR 5º GENERATOR (ALMARAZ NUCLEAR POWER STATION)



**PROJECT:** Diesel tank for the 5º generator in nuclear power station (Almaraz)

**OWNERSHIP:** CNA—E.N.S.A.

**LOCATION:** Almaraz (Cáceres)

**DATE:** May 2006

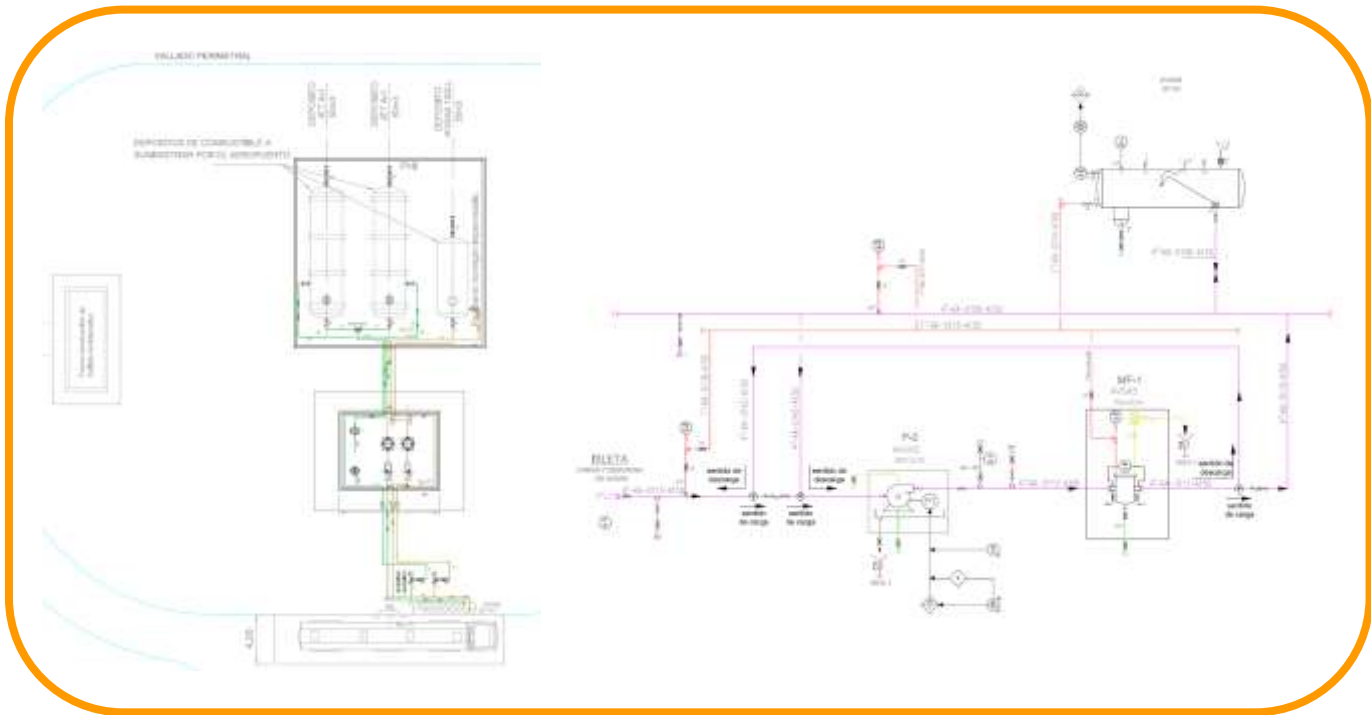
**DESCRIPTION:** Storage infrastructure of gasoil with 380 m<sup>3</sup> tank for 5º generator in a nuclear power station

**SCOPE:** Executive project and construction management

# PROYECTOS. GRUPO RENDER INDUSTRIAL.



## FUEL SUPPLY AIRPORT OF LOGROÑO, AENA



**PROJECT:** Fuel supply installation in Airport of Logroño

**OWNERSHIP:** AENA

**LOCATION:** Logroño (La Rioja)

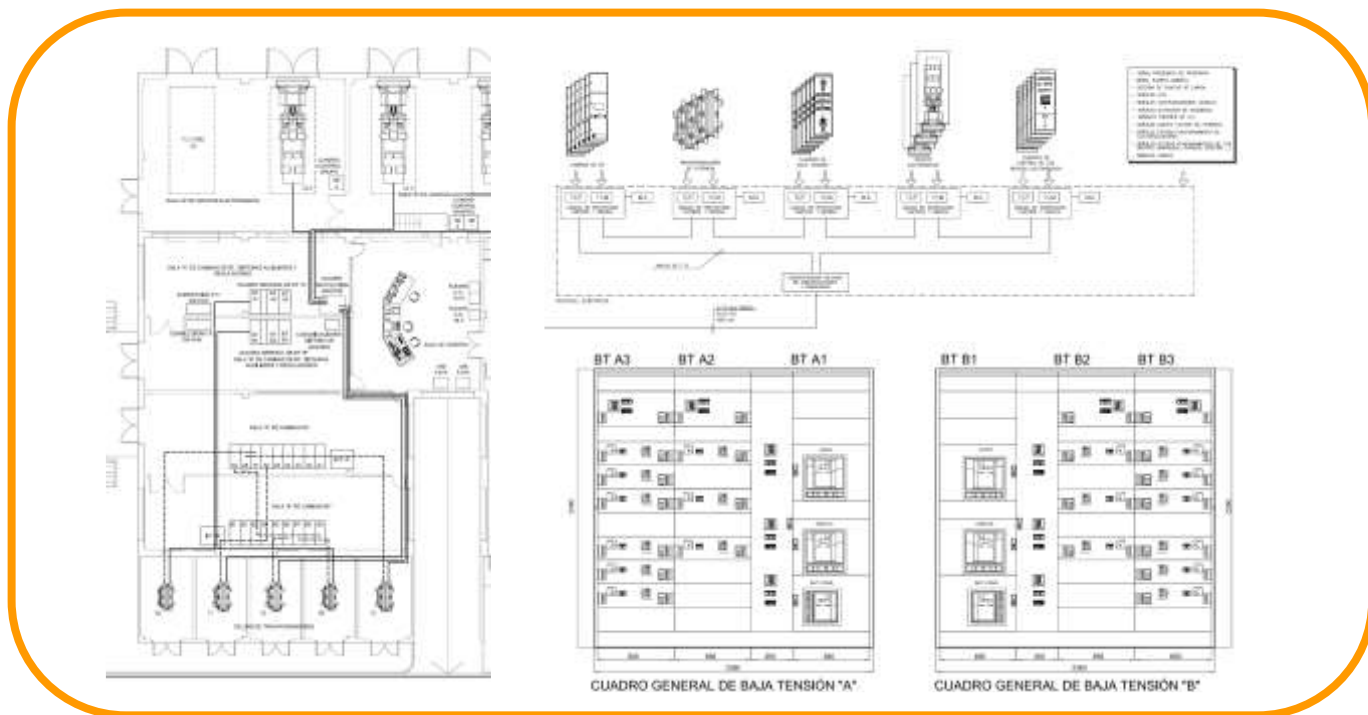
**DATE:** August 2006

**DESCRIPTION:** Fixed fuel supply installation, urbanization development and pipes mapping in Airport of Logroño

**SCOPE:** Executive project and construction management

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### INSTALLATION OF A POWER PLANT (4.000 Kva) IN SAN JAVIER AIRPORT (MURCIA)



**WORK:** Electrical installations of supply and power plant with 4.000 Kva in San Javier Airport (Murcia)

**PROMOTER:** AENA

**LOCATION:** Murcia Airport

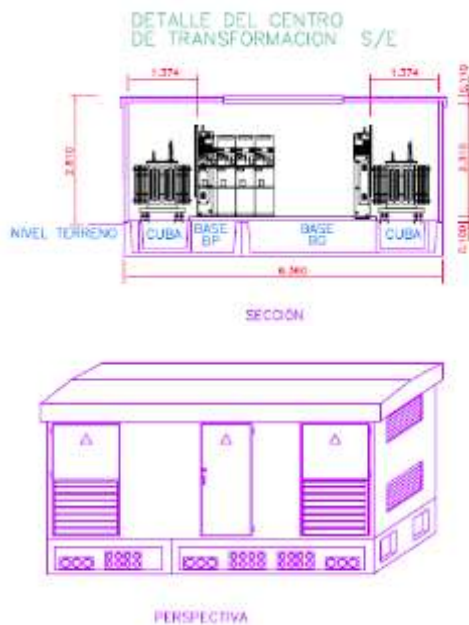
**DELIVERY:** October 2007

**DESCRIPTION:** Electrical supply infrastructure of medium voltage in the power plant (4.000 kVA)

**SCOPE:** Integral execution of the electrical installations (high and low voltage) and some mechanical installations (fire protection and conditioning)

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### ELECTRICAL INFRASTRUCTURE IN HOUSING DEVELOPMENT WITH 16.5 Ha IN CABANES (CASTELLÓN)



**WORK:** Electrical infrastructure and lighting of housing development with 16.5 Ha in Cabanes (Castellón)

**PROMOTER:** ENSANCHE URBANO

**LOCATION:** Cabanes (Castellón)

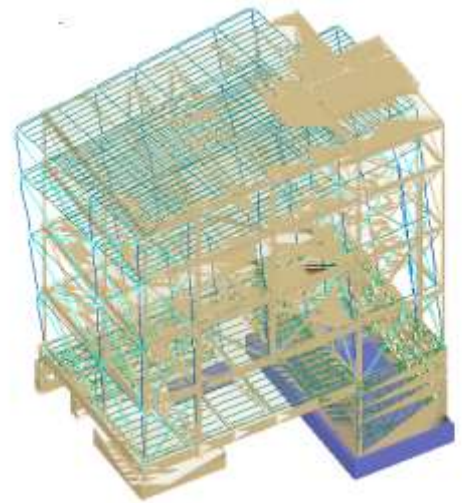
**DELIVERY:** October 2008

**DESCRIPTION:** Underground electricity grids (high and low voltage) and transformer centres.  
Total power: 1.530 kVA

**SCOPE:** Integral execution of the electrical installations and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### ENLARGEMENT OF THE AIR-TRAFFIC CONTROL TOWER IN THE INTERNATIONAL AIRPORT OF GRAN CANARIA



**PROJECT:** Enlargement of the air-traffic control tower in Gran Canaria Airport

**OWNERSHIP:** AENA.

**LOCATION:** Las Palmas de Gran Canaria

**DATE:** 2006

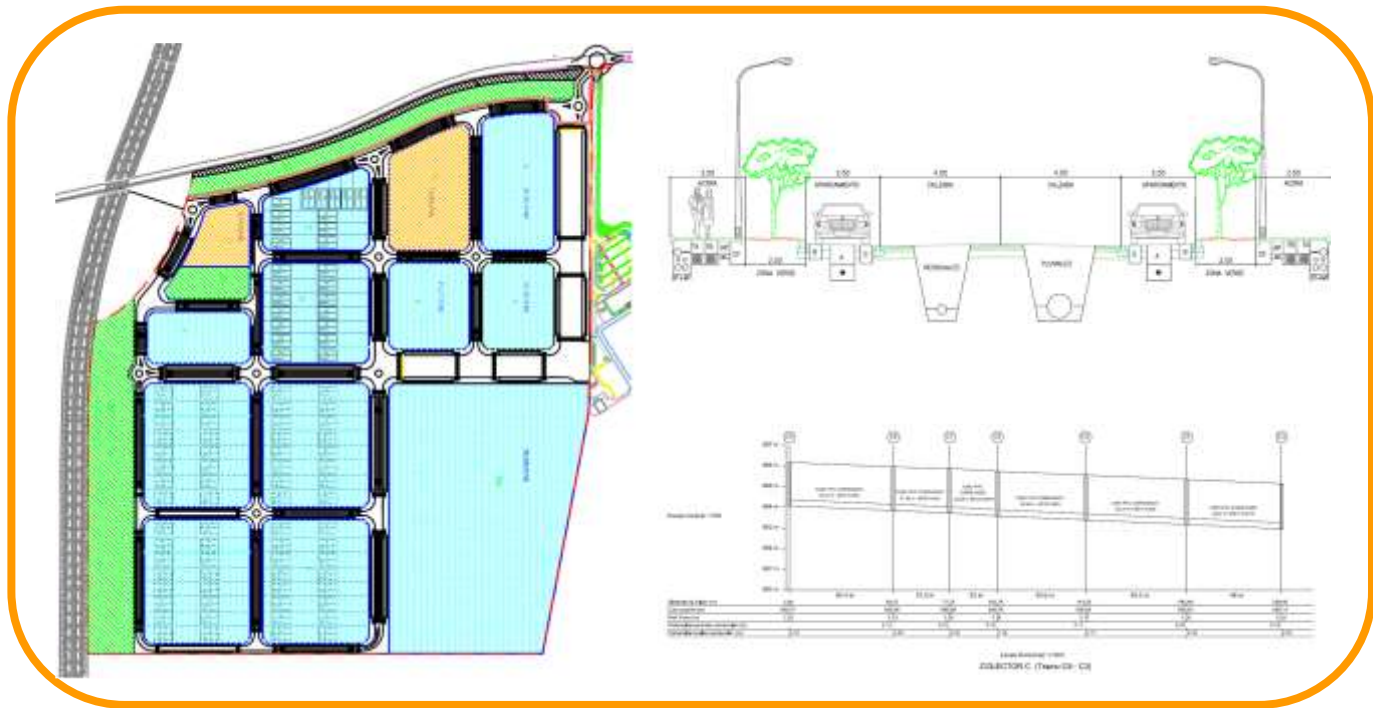
**DESCRIPTION:** Construction of new building, attached urbanization and covered parking area

**SCOPE:** Executive project: Architecture, Structure, Installations and Urbanization

# PROJECTS. GRUPO RENDER INDUSTRIAL.



## URBANIZATION IN THE AIR AND LOGISTIC PARK OF ALBACETE



**PROJECT:** Scheduling of air and logistic park (80 Ha) and calculation of the networks of supply services

**OWNERSHIP:** INSTITUTO DE FINANZAS DE CASTILLA-LA MANCHA

**LOCATION:** Albacete

**DATE:** 2006

**DESCRIPTION:** Urban planning and calculation of the networks of services (water, electricity, telephony and sanitation), including the coordination of underground facilities

**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### CONDITIONING INSTALLATION IN OFFICES, NAVALMORAL DE LA MATA



**WORK:** Conditioning installation in offices with 400 m<sup>2</sup> surface through hot/cold water system

**PROMOTER:** GRUPO RENDER INDUSTRIAL

**LOCATION:** Industrial estate Campo Arañuelo. Navalморal de la Mata (Cáceres)

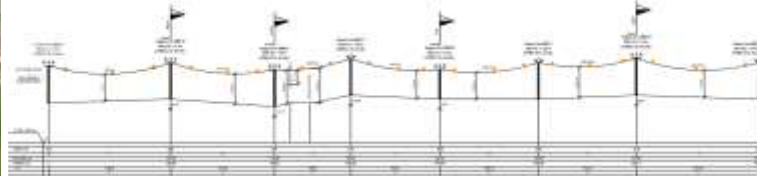
**DELIVERY:** July 2008

**DESCRIPTION:** Conditioning installation in offices through radiant floor and fancoils. Heat pump (75,4 kW) and system control

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### PHOTOVOLTAIC PLANT (2,5 MWp) WITH SOLAR TRACKER IN BELVIS DE MONROY (CÁCERES)



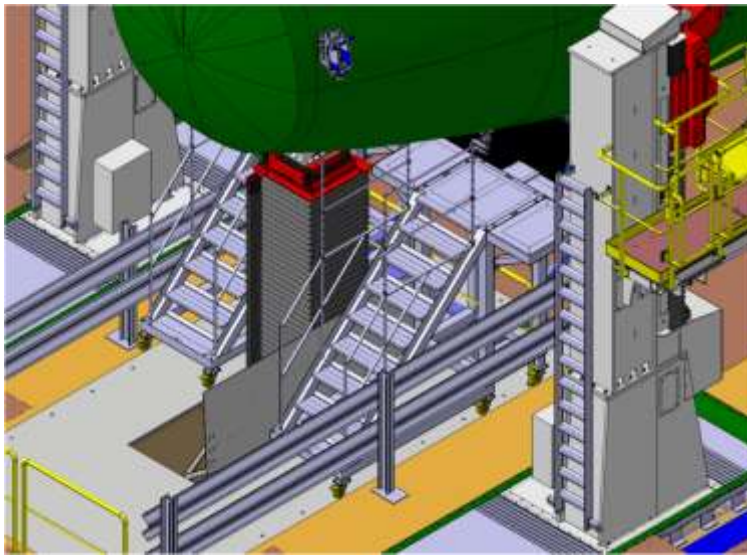
**WORK:** Photovoltaic plant with: solar tracker, transformation centre and evacuation line  
**PROMOTER:** RENDER ENERGÍAS RENOVABLES, S.A.  
**LOCATION:** Belvis de Monroy (Cáceres)  
**DELIVERY:** September 2008

**DESCRIPTION:** Photovoltaic plant (2,5 MWn): 252 Solar trackers, 3 transformation centres 0,4/20 kV and 5.914 meters of evacuation line (20 kV)  
**SCOPE:** 50 % = Implementation photovoltaic plant. 100 % = Construction work high voltage infrastructure

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ACCESS PLATFORM FOR THE ASSEMBLY STA-60 (A-400M)



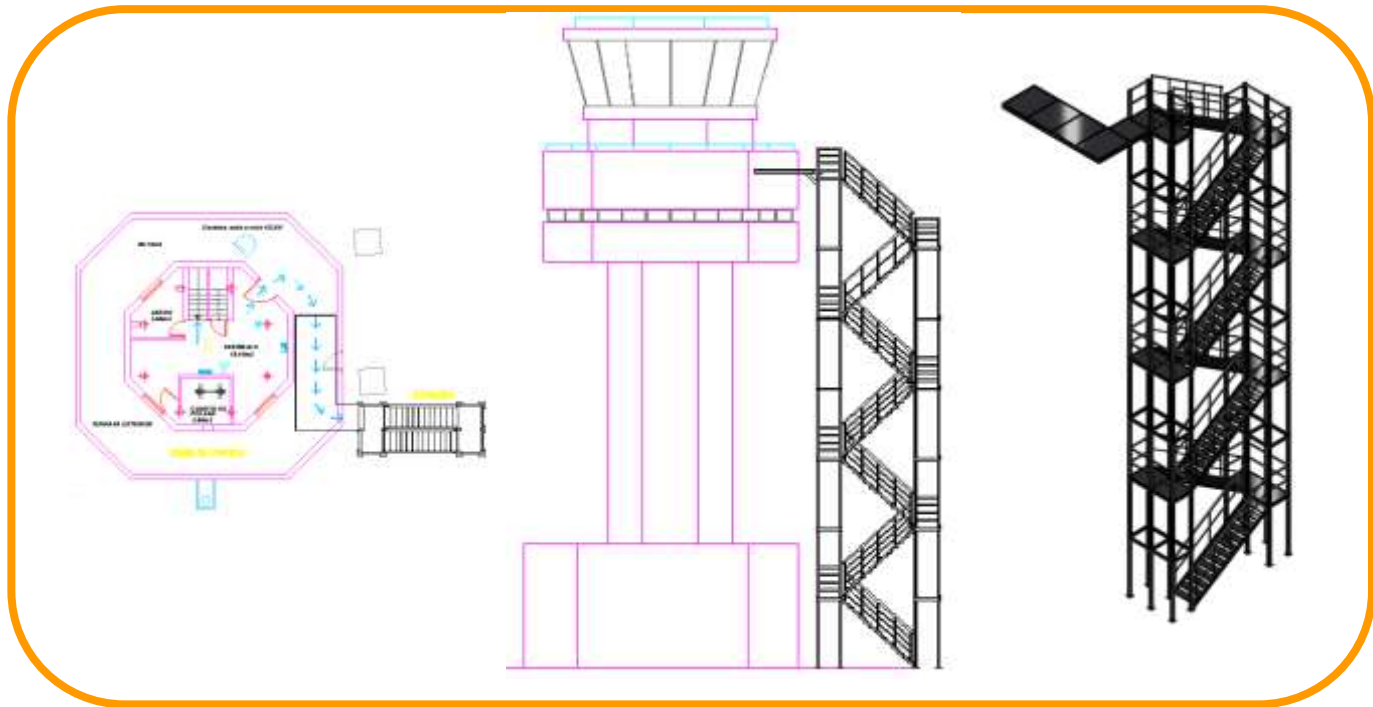
**PROJECT:** Design access platforms for assembly front landing gear of the plane  
**OWNERSHIP:** EADS-CASA  
**LOCATION:** Sevilla  
**DATE:** June 2007

**DESCRIPTION:** Design the calculation of structures through finite element program  
**SCOPE:** Structures calculation

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### EMERGENCY STAIR FOR THE AIRPORT CONTROL TOWER-PAMPLONA



**PROJECT:** Emergency stair for the air traffic control tower in Airport of Pamplona

**OWNERSHIP:** AENA

**LOCATION:** Pamplona (Navarra)

**DATE:** December 2007

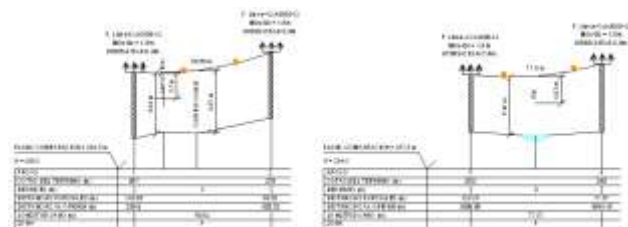
**DESCRIPTION:** Drafting of the project: emergency stair in air traffic control tower

**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ELECTRICAL INSTALLATION IN COMPOSITE MATERIALS PRODUCTION PLANT, GETAFE (MADRID)



**WORK:** Photovoltaic plant with: solar tracker, transformation centre and evacuation line  
**PROMOTER:** RENDER ENERGÍAS RENOVABLES S.A.  
**LOCATION:** Tiétar (Cáceres)  
**DELIVERY:** September 2008

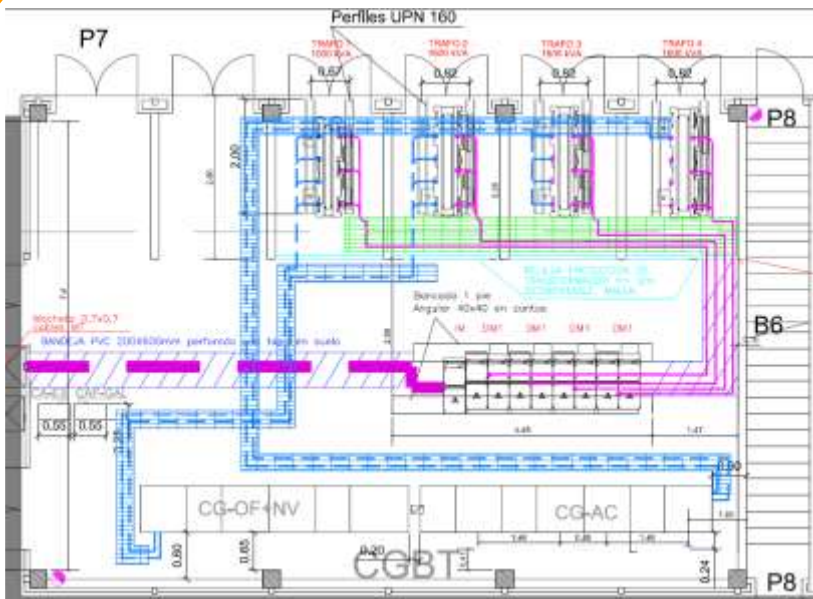
**DESCRIPTION:** Photovoltaic plant (1,4 MWn): 141 Solar trackers, 3 transformation centres 0,4/20 kV and 2.423 meters of evacuation line (20 kV)

**SCOPE:** 50 % = Implementation photovoltaic plant. 100 % = Construction work high voltage infrastructure

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### INSTALACIÓN ELÉCTRICA DE PLANTA DE PRODUCCIÓN DE MATERIALES COMPOSITE EN GETAFE (MADRID)



**WORK:** Composite materials production plant

**PROMOTER:** FIDAMC

**LOCATION:** Getafe (Madrid)

**DELIVERY:** September 2009

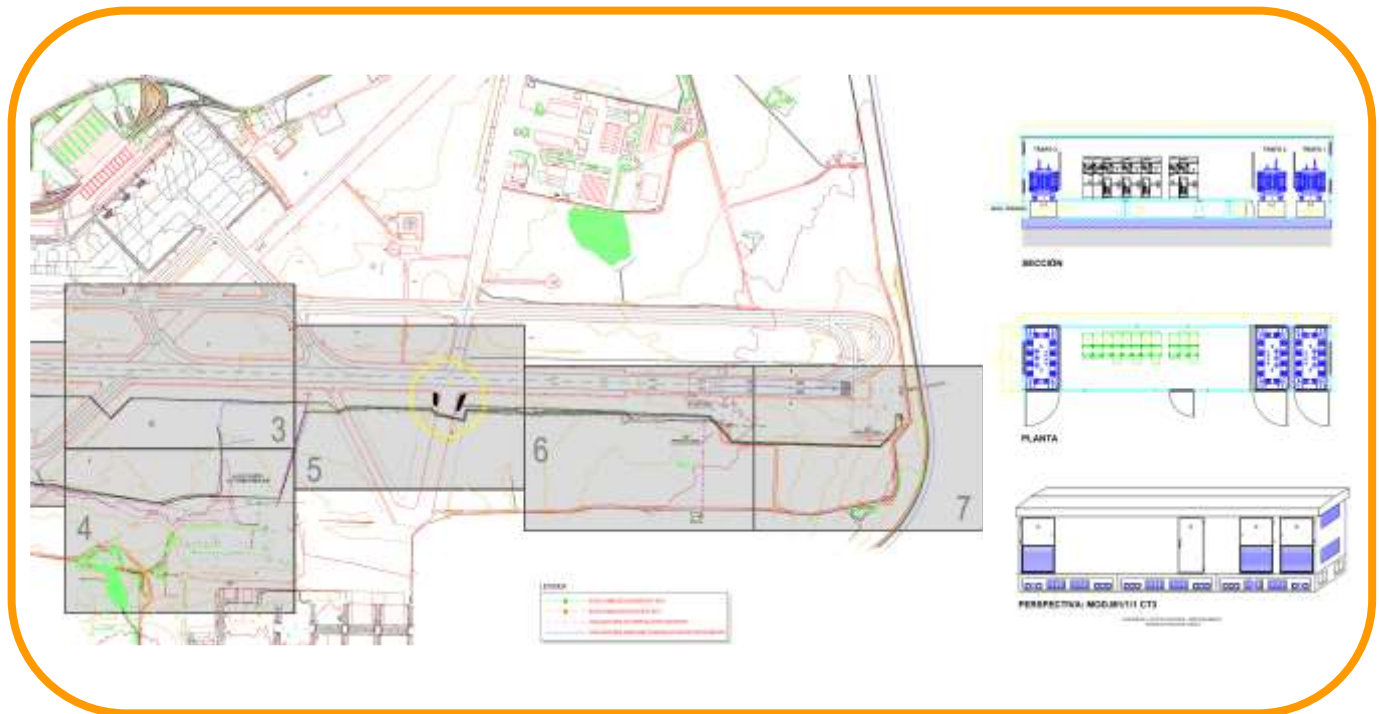
**DESCRIPTION:** Electrical infrastructure for power in a production plant through: sectioning station and transformation centre (5.800 kVA). Also, low voltage electrical installations in offices

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### BASIC INFRASTRUCTURE FOR THE ILS IN SEVILLA AIRPORT



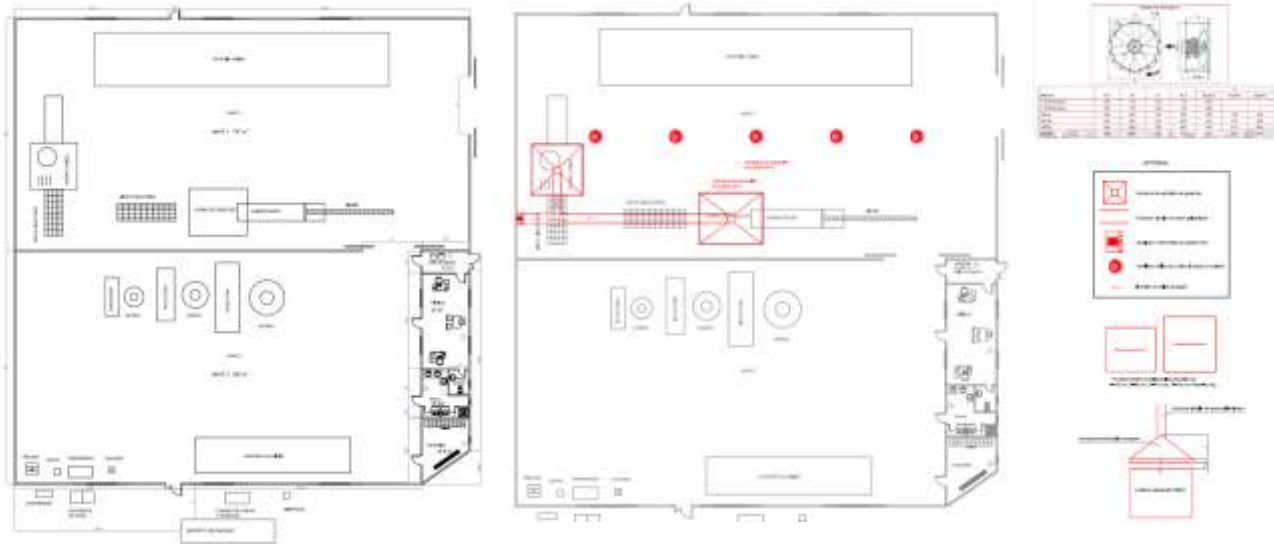
**PROJECT:** Basic infrastructure for ILS in Airport of Sevilla  
**OWNERSHIP:** AENA  
**DATE:** October 2007

**DESCRIPTION:** High-voltage electrical installations (3-15 KV) to supply the ILS, including tubes banks and processing plant in airstrip.  
**SCOPE:** Executive project, construction management and arrangements with the public administrations.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### INSTALLATION OF SMELTING AND INJECTION ALUMINIUM RALEX



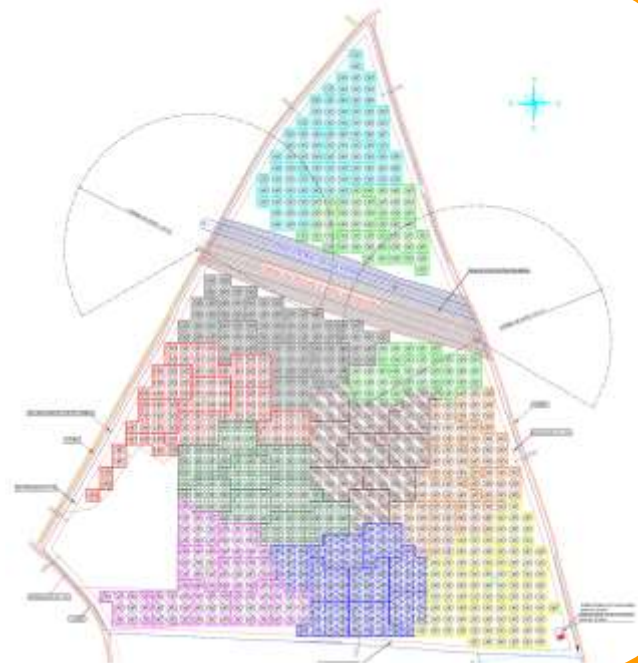
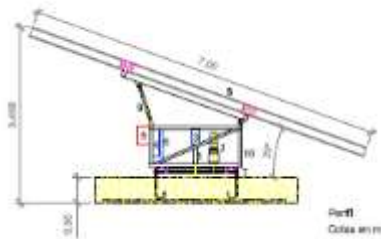
**PROJECT:** Aluminum refinery  
**OWNERSHIP:** REFINERÍA DE ALUMINIOS DE EXTREMADURA, S.L.  
**LOCATION:** Malpartida de Plasencia (Cáceres)  
**DATE:** July 2007

**DESCRIPTION:** Infrastructure for diesel distribution and dosage to aluminium smelters  
**SCOPE:** Preliminary design, executive project, environmental clearance and construction management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC PLANT (10 MW) IN GROUND WITH SOLAR TRACKER, TORDESILLAS (VALLADOLID)



**PROJECT:** Photovoltaic plant in ground with solar tracker  
**OWNERSHIP:** TORDESILLAS SOLAR  
**LOCATION:** Industrial estate 10 and 804, Tordesillas (Valladolid)  
**DATE:** July 2009

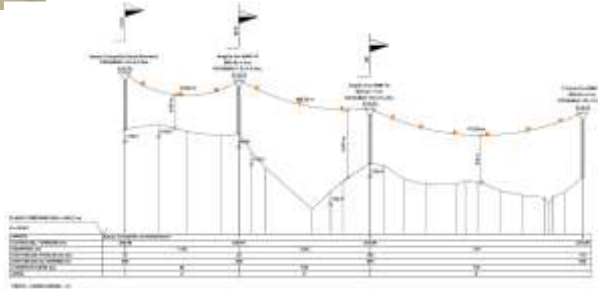
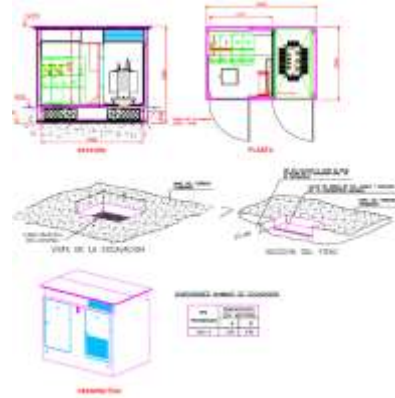
**DESCRIPTION:** Photovoltaic plant: 10 MW, 920 solar trackers, 11 transformation centers and evacuation line (45kV)

**SCOPE:** Executive project, construction management, arrangements with the public administrations and putting into service

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ELECTRICAL INSTALLATION OF THE PURIFICATION PLANT IN ORELLANA LA VIEJA (BADAJOZ)



**WORK:** Pump stations and electrical infrastructure in purification plant (waste water)

**PROMOTER:** JUNTA DE EXTREMADURA

**LOCATION:** Orellana La Vieja (Badajoz)

**DATE:** October 2009

**DESCRIPTION:** Electrical infrastructure of power: sectioning station, overhead power line (20 kV), transformation centre, low voltage installations, control system and two pump stations

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### THEATRE/AUDITORIUM AND CENTER OF CONTEMPORARY ART IN CIUDAD REAL



**PROJECT:** Theatre/Auditorium and center of contemporary art in Ciudad Real. Auditorium for 1.043 spectators, a center of contemporary art with 2050 m2 and an underground car park with 169 spaces

**OWNERSHIP:** EMUSVI SL

**DATE:** 2008

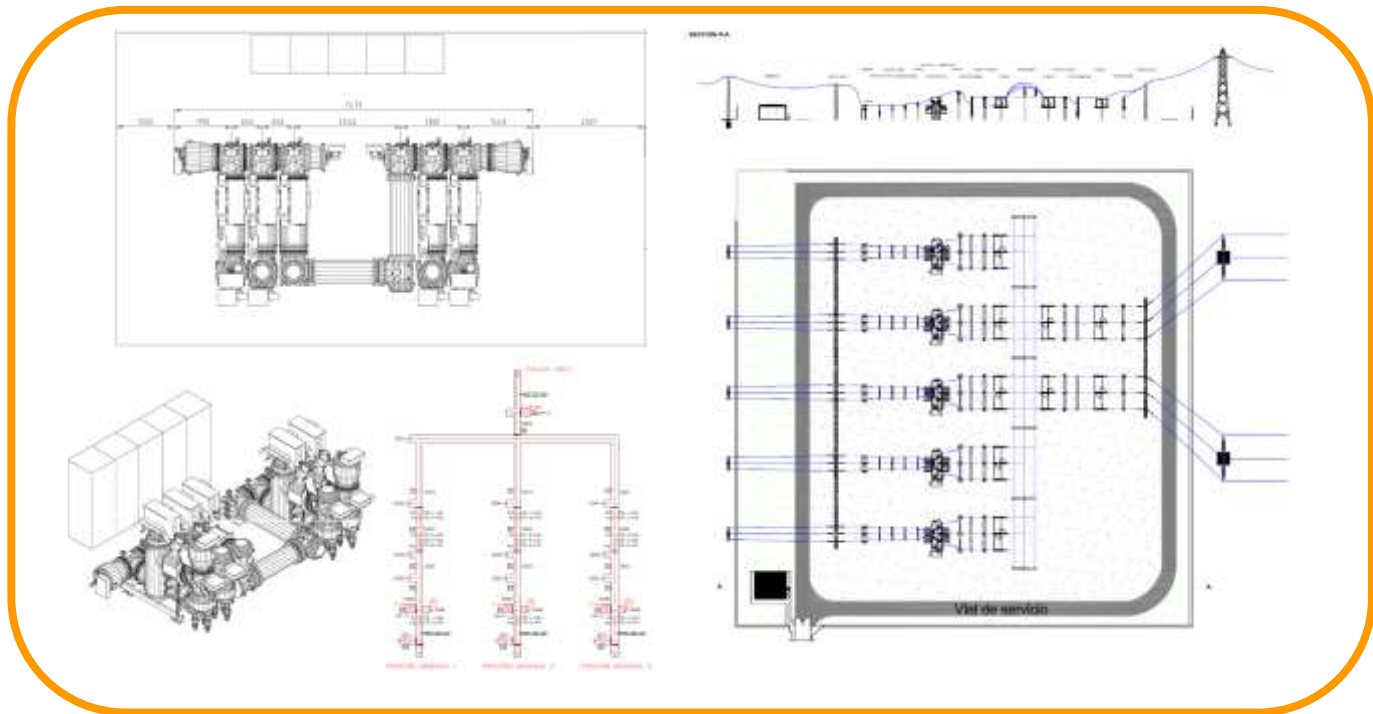
**DESCRIPTION:** Changes to installations: plumbing and sanitation, electricity, lighting, telecommunications, conditioning, ventilation, solar sanitary heating water system, photovoltaic, fire protection systems...

Constructed surface = 15.950m2.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ELECTRICAL INSTALLATIONS OF 5 THERMOSOLAR PLANTS IN EXTREMADURA



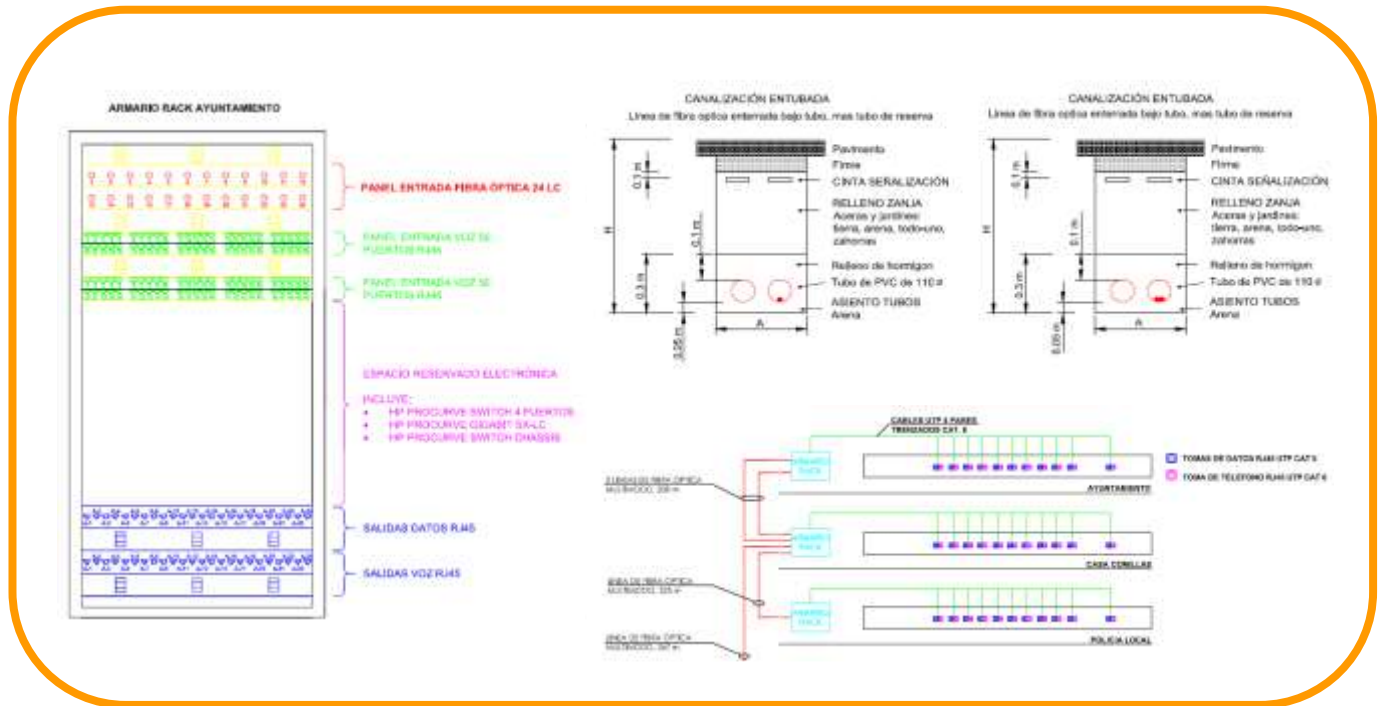
**PROJECT:** Thermosolar plants in Extremadura  
**OWNERSHIP:** NATURENER  
**LOCATION:** Extremadura  
**DATE:** 2008 y 2009

**DESCRIPTION:** Electrical installation (generation, transport and distribution). In the transport installations, design substations GIS-type (66, 220 and 400 kV) and AIS-type (220 kV)  
**SCOPE:** Basic project and equipment definition

# PROYECTOS. GRUPO RENDER INDUSTRIAL.



## OPTICAL FIBER INSTALLATION BETWEEN DIFERRENT MUNICIPAL BUILDINGS



**WORK:** Telecommunications infrastructure between some municipal buildings

**PROMOTER:** COUNCIL OF DE NAVALMORAL DE LA MATA

**LOCATION:** Navalморal de la Mata (Cáceres)

**DELIVERY:** July 2010

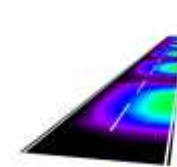
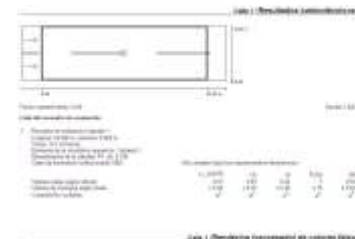
**DESCRIPTION:** Interconnection with optical fiber between 5 municipal buildings. 1.900 meter of optical fiber, racks, panels and switches

**SCOPE:** Construction work

# PROYECTOS. GRUPO RENDER INDUSTRIAL.



## URBAN PUBLIC LIGHTING THROUGH LED TECHNOLOGY IN FUSTIÑANA (NAVARRA)



Calle 1. Fustiñana. Luminarias de 471	
1.1	1.1
1.2	1.2
1.3	1.3
1.4	1.4
1.5	1.5
1.6	1.6
1.7	1.7
1.8	1.8
1.9	1.9
1.10	1.10
1.11	1.11
1.12	1.12
1.13	1.13
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1.81	1.81
1.82	1.82
1.83	1.83
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1.86	1.86
1.87	1.87
1.88	1.88
1.89	1.89
1.90	1.90
1.91	1.91
1.92	1.92
1.93	1.93
1.94	1.94
1.95	1.95
1.96	1.96
1.97	1.97
1.98	1.98
1.99	1.99
2.00	2.00



**WORK:** Urban public lighting through LED technology in Fustiñana (Navarra)  
**PROMOTER:** COUNCIL OF FUSTIÑANA  
**LOCATION:** Fustiñana (Navarra)  
**DELIVERY:** September 2010

**DESCRIPTION:** Public lighting installation: 471 LED luminaries in different streets  
**SCOPE:** Supply, installation and Start-up

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### PROJECT INDUSTRIAL PLANT, DEVELOPMENT AND PHOTOVOLTAIC INSTALLATIONS, GRUPO RENDER INDUSTRIAL



**PROJECT:** Industrial plant project: offices, workshops and store of Grupo Render Industrial

**OWNERSHIP:** GRUPO RENDER INDUSTRIAL

**LOCATION:** Navalmoral de la Mata (Cáceres)

**DATE:** 2006 -2008

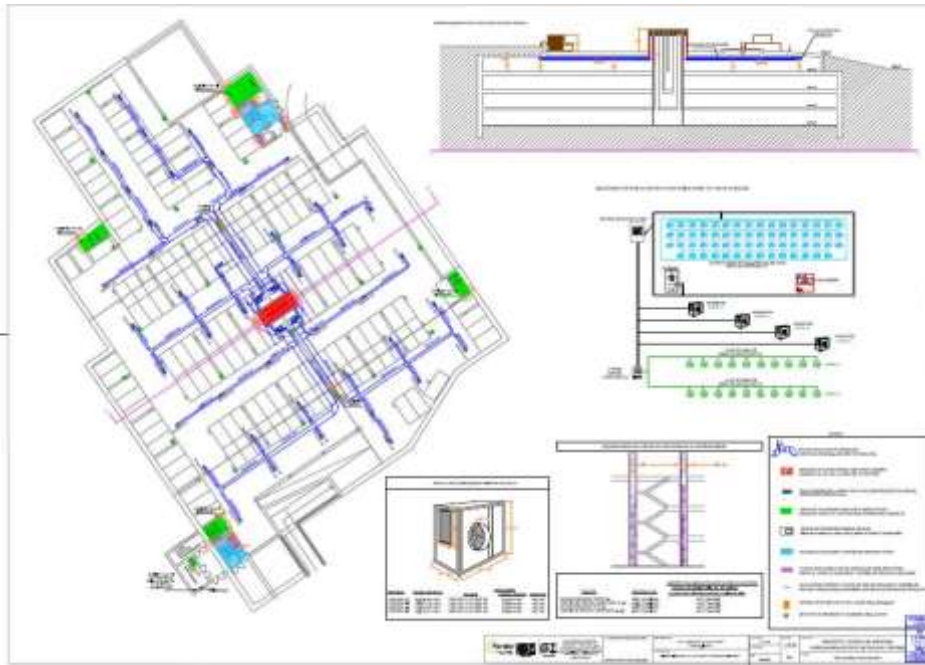
**DESCRIPTION:** Structure design project, development, electrical installation, conditioning and photovoltaic (35 kWn)

**SCOPE:** Basic and executive project, processing of permits and construction management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### GARAGE WITH FOUR LEVELS BELOW GROUND (692 SPACES). COSLADA (MADRID)



**PROJECT:** Facility project and business for garage with 4 levels below ground.  
**LOCATION:** c/ Frankfurt c/v - C/ Berlín. Coslada—Madrid  
**OWNERSHIP:** EMVICOSA.  
**DATE:** 2009

**DESCRIPTION:** Design and calculations for installations: Plumbing, sanitation, fire fighting systems, ventilation, lighting and landscaped plaza above ground level.  
**SCOPE:** Execution of installations  
Activity license

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### TOURIST ACCOMMODATIONS IN THE REGIONAL GAME RESERVE CÍJARA: LOS CERRILLOS, LAS BOYERIZAS Y EL VIVERO.



**PROJECT:** Tourist accommodations in the regional game reserve Cíjara.

**OWNERSHIP:** GEBIDEXSA

**LOCATION:** Helechosa de los Montes y Herrera del Duque (Badajoz).

**DATE:** April 2009

**DESCRIPTION:** Drafting project: architecture, facilities and development

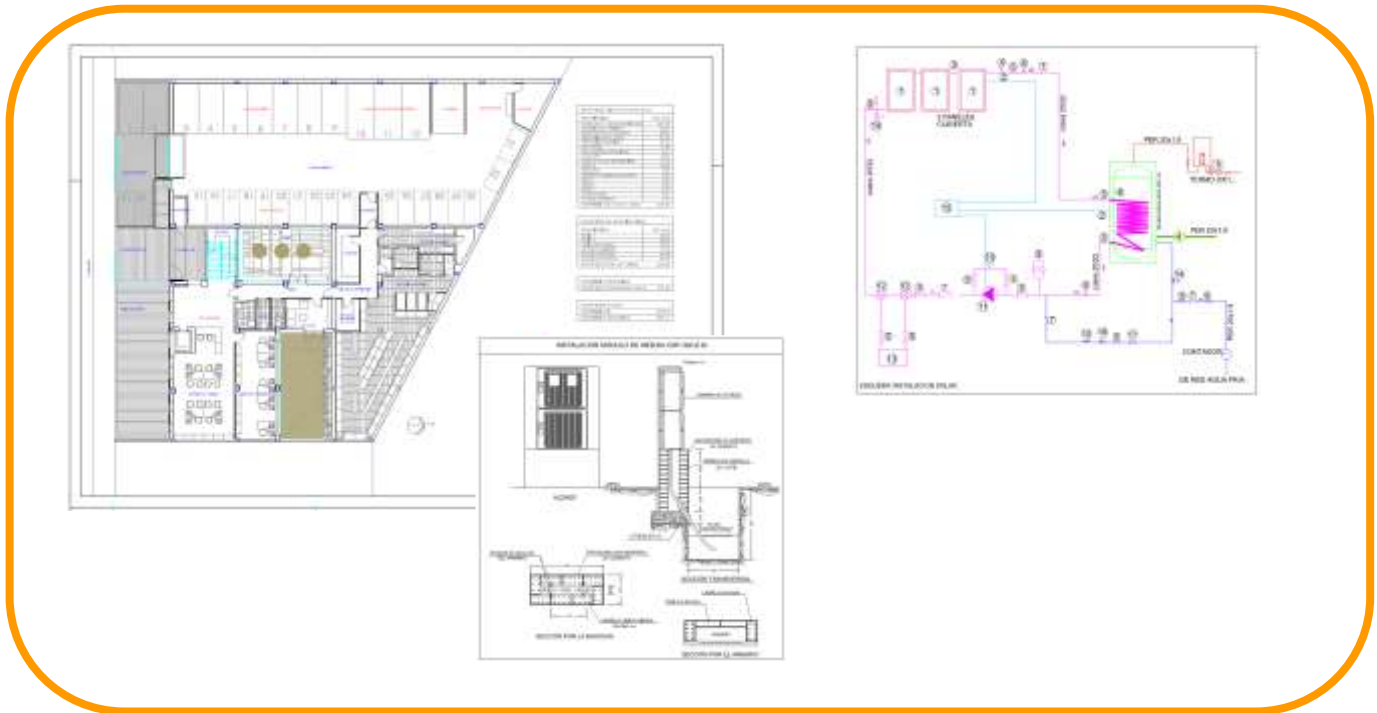
**SCOPE:** Basic and executive project



## PROJECTS. GRUPO RENDER INDUSTRIAL.



### BUILDING FOR DGT (GUARDIA CIVIL) IN NAVALMORAL DE LA MATA (CÁCERES).



**PROJECT:** Building for DGT (Guardia Civil) in Navalmoral de la Mata (Cáceres).

**OWNERSHIP:** DGT

**DATE:** December 2009

**DESCRIPTION:** Design and calculations for installations to executive project. (Plumbing and sanitation, electricity, lighting, conditioning, ventilation, energy rating...) Work: Technical assistance to the discretionary direction  
Constructed surface = 987 m2.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### HEALTH CENTER MÉRIDA-NORTE IN MÉRIDA (BADAJOZ)



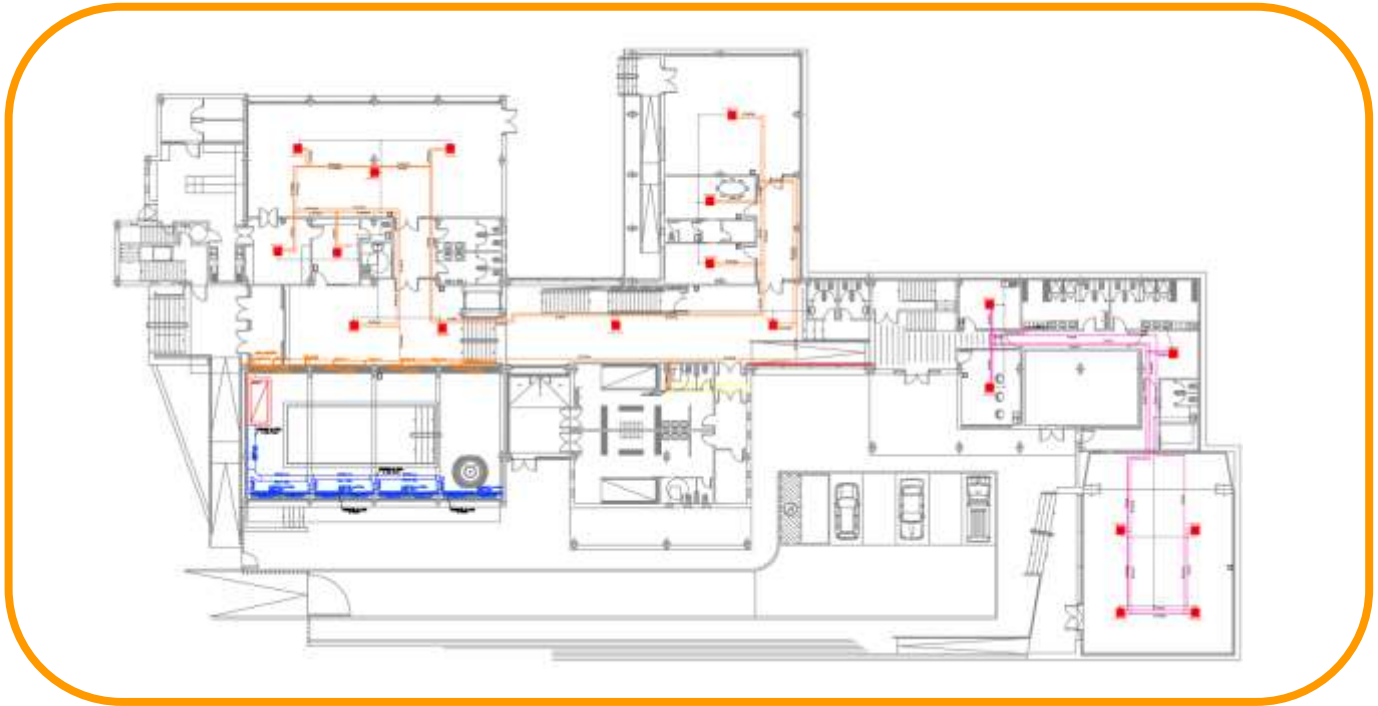
**PROJECT:** Helath Center Mérida-Norte  
**OWNERSHIP:** SERVICIO EXTREMEÑO DE SALUD  
**LOCATION:** Mérida (Badajoz)  
**DATE:** December 2009

**DESCRIPTION:** Integral installations in health center, particularly: conditioned air by fan-coils and underfloor heating  
**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### SOCIAL-SANITARY CENTER IN ROMANGORDO (CÁCERES)



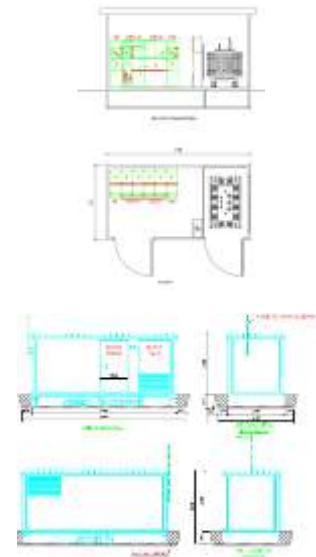
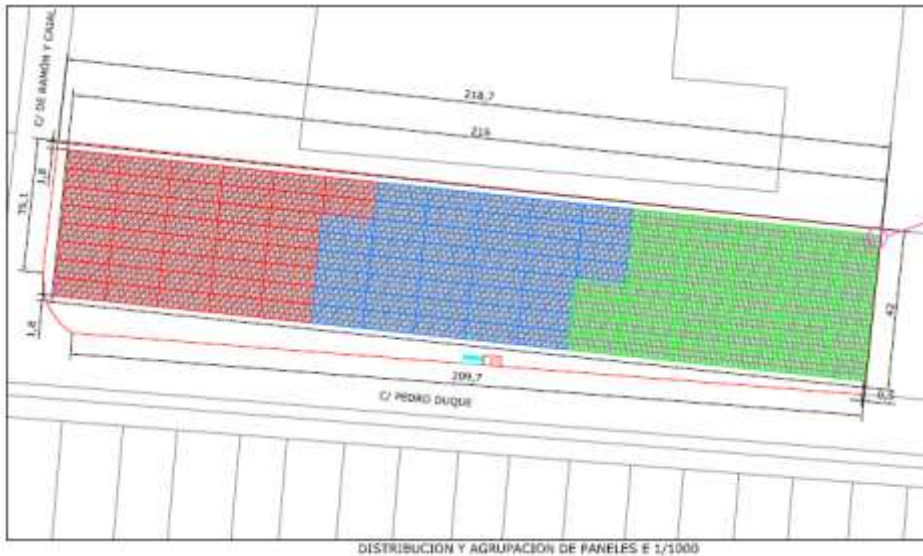
**PROJECT:** Social-Sanitary Center in Romangordo  
**OWNERSHIP:** COUNCIL OF ROMANGORDO  
**LOCATION:** Romangordo (Cáceres)  
**DATE:** February 2010

**DESCRIPCIÓN:** Instalaciones integrales en edificio singular de 5.692 m<sup>2</sup> de superficie construida donde destacan la piscina y recinto climatizado con deshumidificador.  
**ALCANCE:** Proyecto de ejecución.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC PLANT (1 MWn) AND CANOPY IN DAGANZO



**PROJECT:** Photovoltaic plant (1 MWn) and marquee for heavy vehicles in industrial estate Gitesa

**OWNERSHIP:** SICE

**LOCATION:** Daganzo (Madrid)

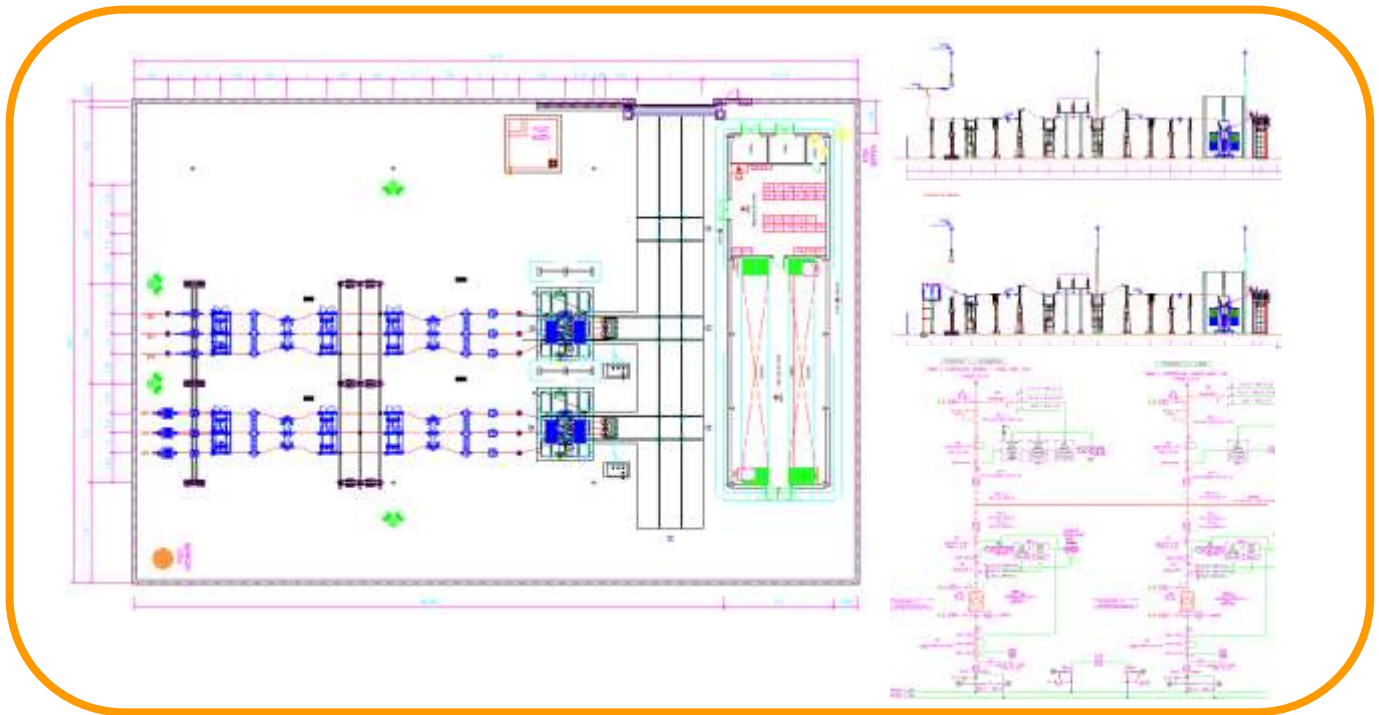
**DATE:** March 2010

**DESCRIPTION:** Marquee for heavy vehicles with photovoltaic plant, transformation center and evacuation line

**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### TRANSFORMER SUBSTATION 20/66 kV 2x10 MVA, PHOTOVOLTAIC CENTRAL CONNECTION TO DISTRIBUTION SYSTEM



**PROJECT:** Transformer substation 20/66 kV  
2x10 MVA, photovoltaic central  
connection to distribution system of  
ENDESA DISTRIBUCIÓN in Alange  
(Badajoz)

**OWNERSHIP:** SAMPOL

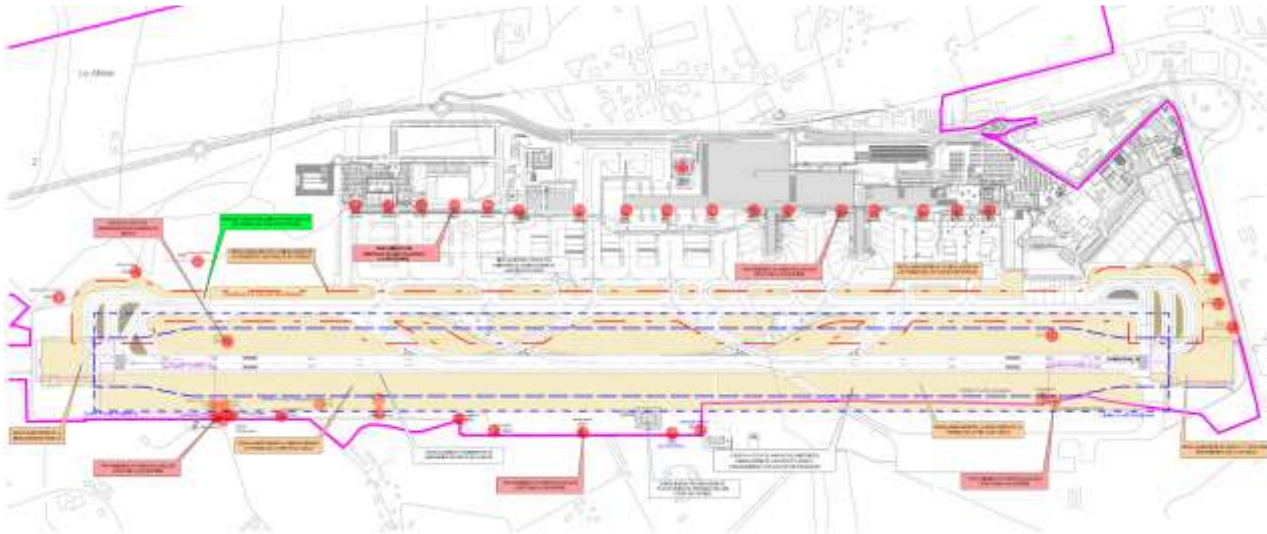
**DESCRIPTION:** Transformer substation AIS-type with a  
capacity of 2x10 MVA, voltages 20/66 kV,  
and control building, for connection  
distribution system of ENDESA  
DISTRIBUCIÓN to the evacuation of  
photovoltaic plant

**SCOPE:** Project as-built and construction

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REMOVAL OF BARRIERS IN MALAGA AIRPORT



**PROJECT:** Removal of barriers in the Airport of Malaga  
**OWNERSHIP:** AENA  
**LOCATION:** Airport of Málaga  
**DATE:** October 2010

**DESCRIPTION:** Removal of barriers in the parking management system so that they can obtain aerodrome certification  
**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### CONDITIONING SYSTEMS IN BUILDINGS DEPENDENT ON THE AIRPORT OF ALMERÍA



**WORK:** Supply and installation of conditioning systems in different places in Almería

**PROMOTER:** DIR. DE NAVEGACIÓN AÉREA (AENA)

**LOCATION:** Almería Airport

**DELIVERY:** December 2010

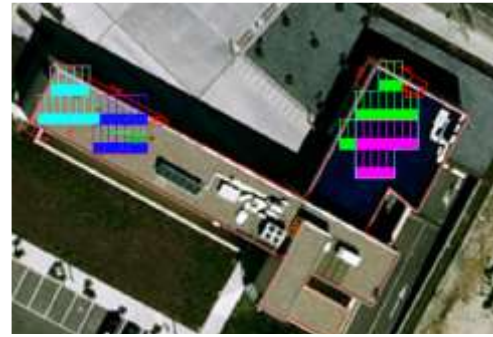
**DESCRIPTION:** Replacement conditioning systems in different buildings dependent on the Almería Airport (VOR, GP, Radar Turrillas...). Electrical installation and control system

**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### 12 PHOTOVOLTAIC INSTALLATIONS IN MUNICIPAL BUILDINGS ROOFTOP (RIVAS-VACIAMADRID)



**WORK:** 12 photovoltaic installations in municipal buildings rooftop  
**PROMOTER:** COUNCIL OF RIVAS-VACIAMADRID  
**LOCATION:** Rivas-Vaciamadrid (Madrid)  
**DELIBERY:** February 2011

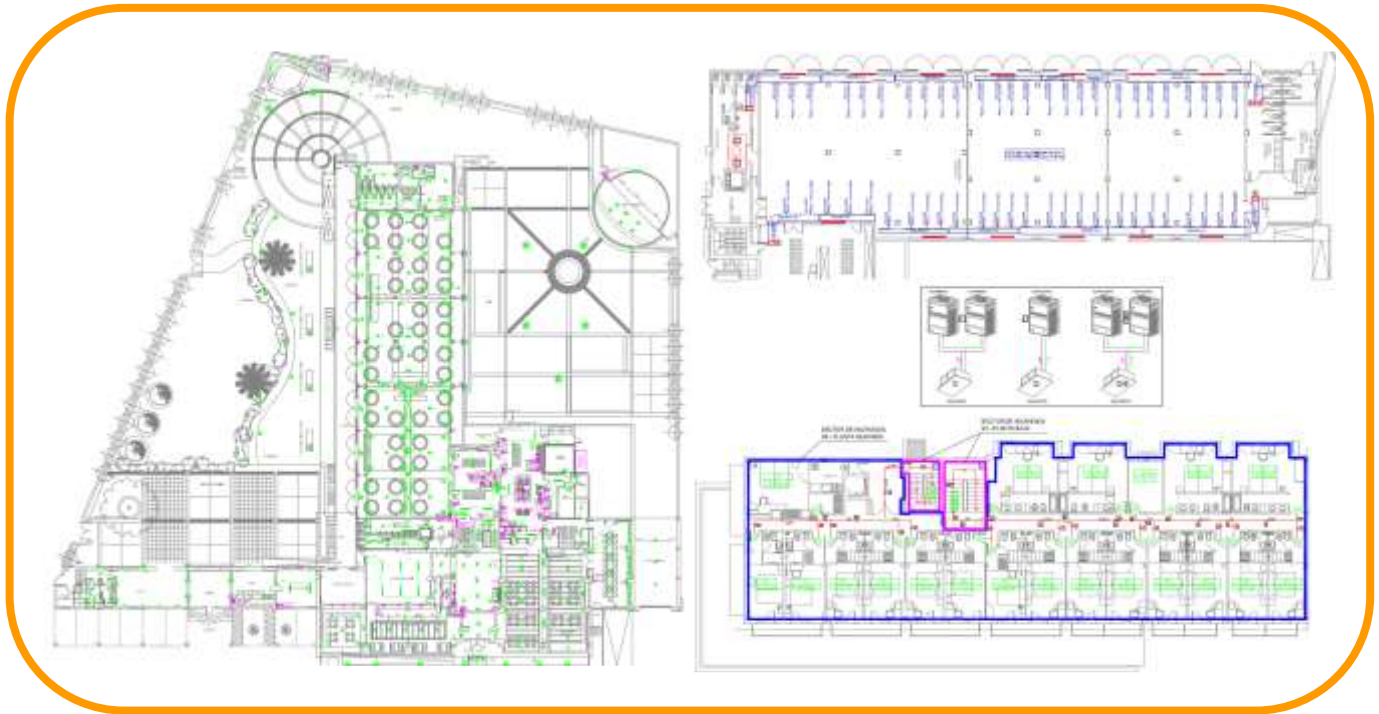
**DESCRIPTION:** Photovoltaic installation in 12 municipal buildings. 1.142 panels, 266 kWp and 220 kWn

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### HOTEL RESTAURANT 4\* LOS GRANADOS IN NAVALMORAL DE LA MATA (CÁCERES)



**PROJECT:** Electrical installations, fire fighting systems and conditioning in Hotel Restaurant 4\* Los Granados

**OWNERSHIP:** LOS GRANADOS HOTEL BOUTIQUE

**DATE:** May 2011

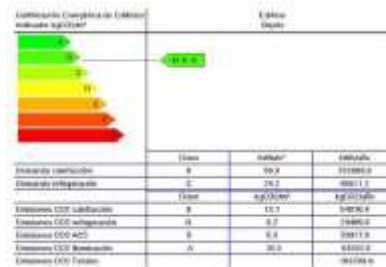
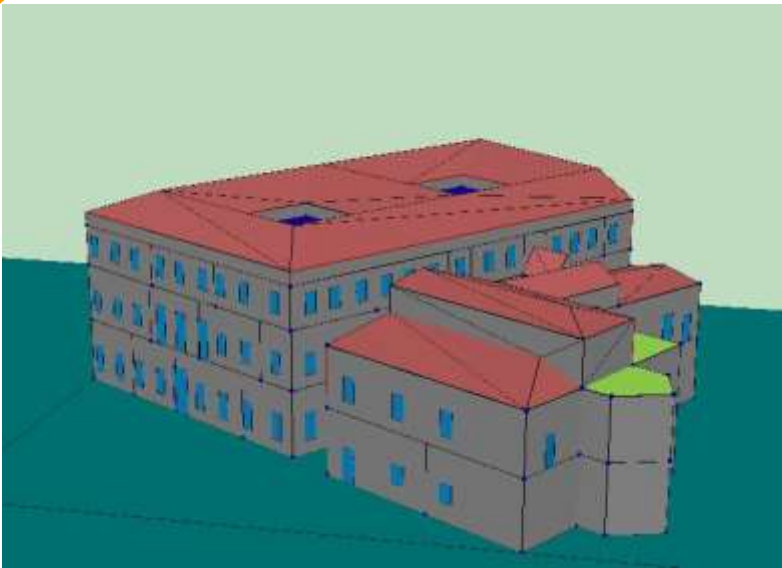
**DESCRIPTION:** Electrical installation, fire fighting systems and conditioning in Hotel 4\* (35 rooms, 2 restaurants and 2 leisure areas)

**SCOPE:** Executive project, construction management and arrangements with the public administrations

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ENERGY RATING OF HISTORICAL BUILDING: DIOCESAN SEMINARY OF PLASENCIA (CÁCERES)



**PROJECT:** Rehabilitation project and reform of the diocesan seminary, Plasencia (Cáceres). Energy rating

**OWNERSHIP:** DIOCESE OF PLASENCIA

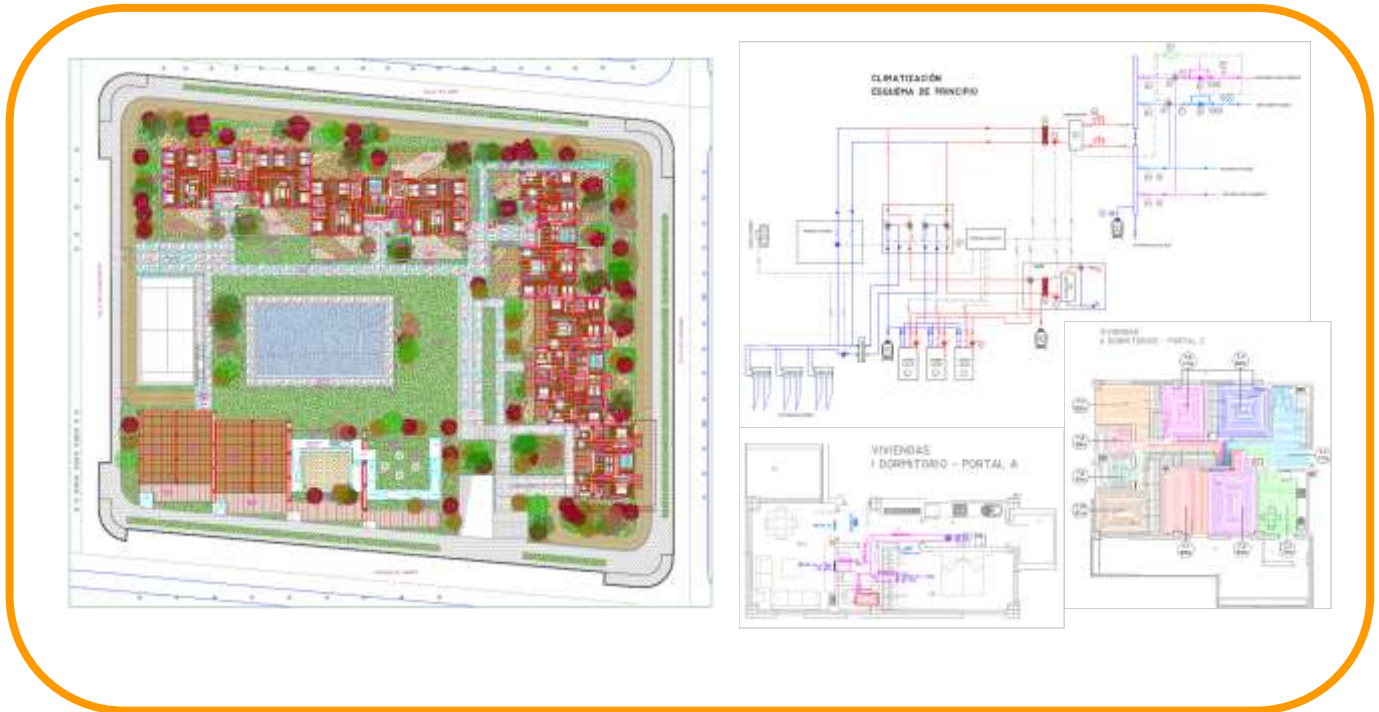
**DATE:** 2011

**DESCRIPTION:** Calculation of the final energy rating for historical building.  
Constructed surface = 4.188 m<sup>2</sup>.

**SCOPE:** Verification of compliance of the limits energy demand efficiently  
Calculation of energy rating

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### EXECUTION PROJECT FOR 80 HOUSES, GARAGES AND COMMERCIAL PREMISES IN TRES CANTOS (MADRID)



**PROJECT:** Building with 80 houses, garages and commercial premises in Tres Cantos (Madrid)

**OWNERSHIP:** ARROYO BODONAL S.C.M.

**DATE:** 2011

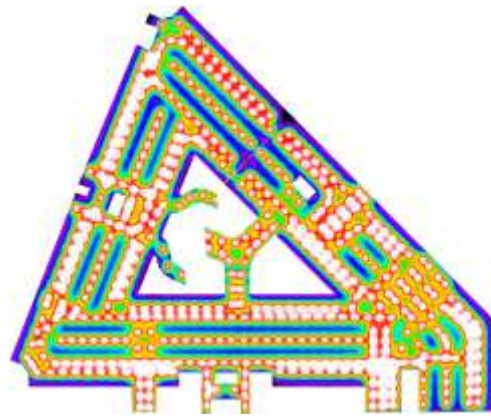
**DESCRIPTION:** Design and calculations for installations: Plumbing, sanitation, electricity (low voltage, medium voltage and lighting), conditioning (Fancoils and under-floor heating), ventilation, fire fighting systems, sanitary heating water system, geothermal, telecommunications and swimming pool

**SCOPE:** Execution project and energy rating

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ENLARGEMENT THE CAR PARK P1 IN SEVILLA AIRPORT



**WORK:** Electrical installation (low and high voltage) in the enlargement of car park P1 (Sevilla Airport)

**PROMOTER:** AENA AEROPUERTOS

**LOCATION:** Sevilla Airport

**DELIVERY:** May 2012

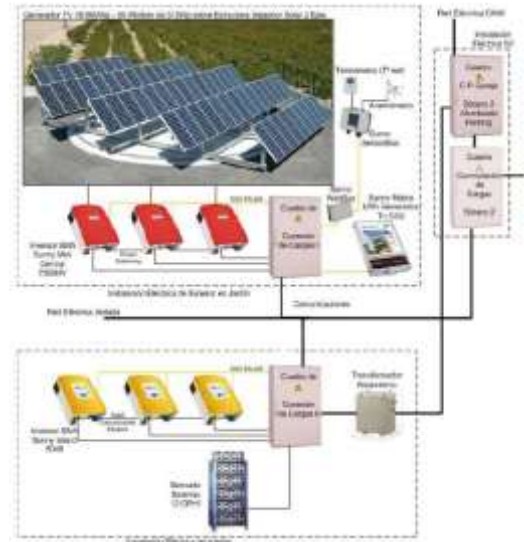
**DESCRIPTION:** Electrical installation for a car park with 4 levels. Processing plant (400+160 kVA) and 2.300 lighting points (LED)

**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC INSTALLATION (19,09 kWp) TO SELF-CONSUMPTION OAMI BUILDING



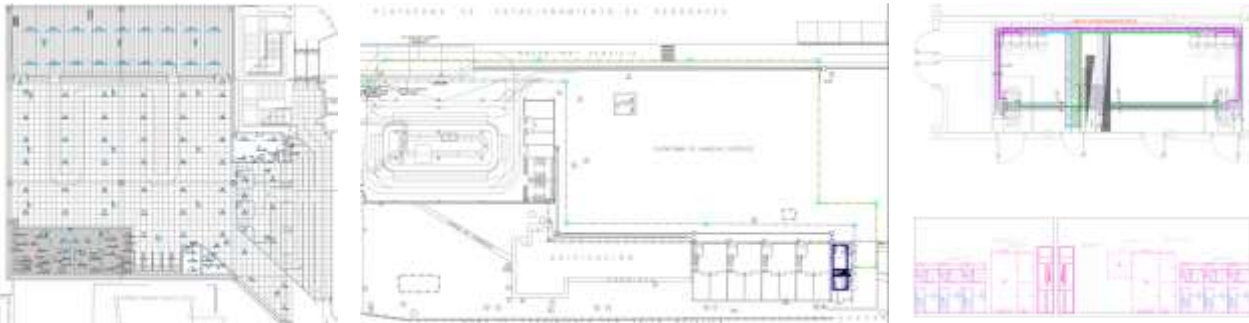
**WORK:** Photovoltaic installation of 19,09 kWp to self-consumption  
**PROMOTER:** OFICINA DE ARMONIZACIÓN DE MERCADO INTERIOR (OAMI)  
**LOCATION:** Alicante  
**DELIBERY:** May 2012

**DESCRIPTION:** Photovoltaic installation for self-consumption in a Organismo de Armonización del Mercado Interior building  
**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ENLARGEMENT THE DIFFERENT AREAS IN ASTURIAS AIRPORT



**WORK:** Electrical installation (low and high voltage) in: baggage hall, crews access room, area for carts and warehouses handling

**PROMOTER:** AENA AEROPUERTOS

**LOCATION:** Asturias Airport

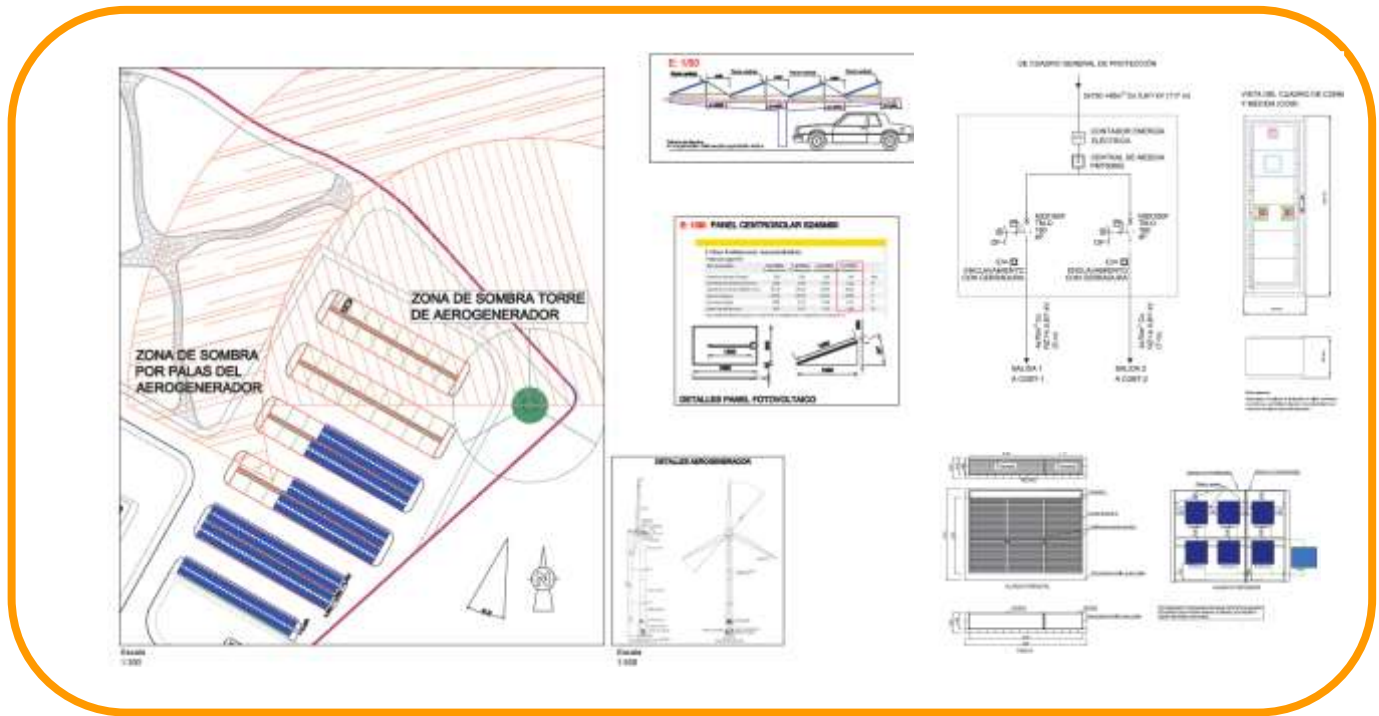
**DELIVERY:** July 2012

**DESCRIPTION:** High voltage: processing plant of 630+630 kVA  
Low voltage: enlargement the different areas

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### PHOTOVOLTAIC PLANT IN AIR-TRAFFIC CONTROL CENTER (CANARIAS)



**PROJECT:** Photovoltaic installation for self consumption in air-traffic center of Canarias

**OWNERSHIP:** AENA AEROPUERTOS

**LOCATION:** ACC Airport of Gran Canarias

**DATE:** July 2012

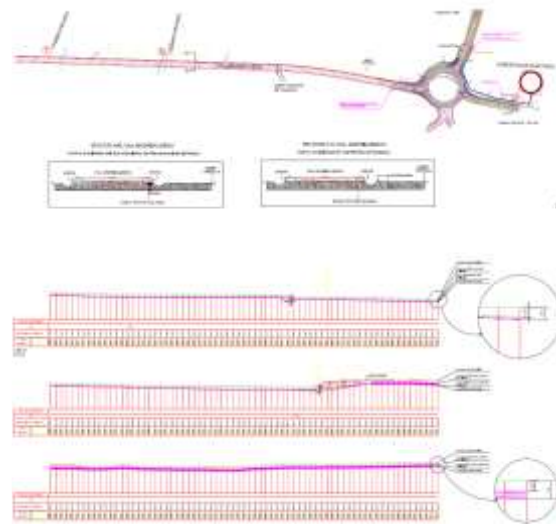
**DESCRIPTION:** Project design: photovoltaic plant for self consumption in marquees of the parking in air-traffic center

**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### CHANGE OF PROJECT OF REGIONAL INTEREST LOS VIÑAZOS IN NAVALMORAL DE LA MATA (CÁCERES)



**PROJECT:** Draft amendment

**OWNERSHIP:** GESTIÓN E INFRAESTRUCTURAS, SUELO Y VIVIENDA DE EXTREMADURA, S.A.

**DATE:** August 2012

**DESCRIPTION:** Draft amendment, including high-voltage underground lines (2 km)

**SCOPE:** Executive project, construction management and arrangements with the public administrations

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### EMERGENCY POWER GENERATOR WITH 800 Kva IN HOSPITAL CARLOS III



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Reservados todos los derechos. No se permite la explotación económica ni la transformación de esta obra. Queda permitida la impresión en su totalidad.



**WORK:** Emergency power generator (800 kVA) in Carlos III Hospital  
**PROMOTER:** HOSPITAL CARLOS III  
**LOCATION:** C/ Sinesio Delgado, 10  
**DELIBERY:** September 2012

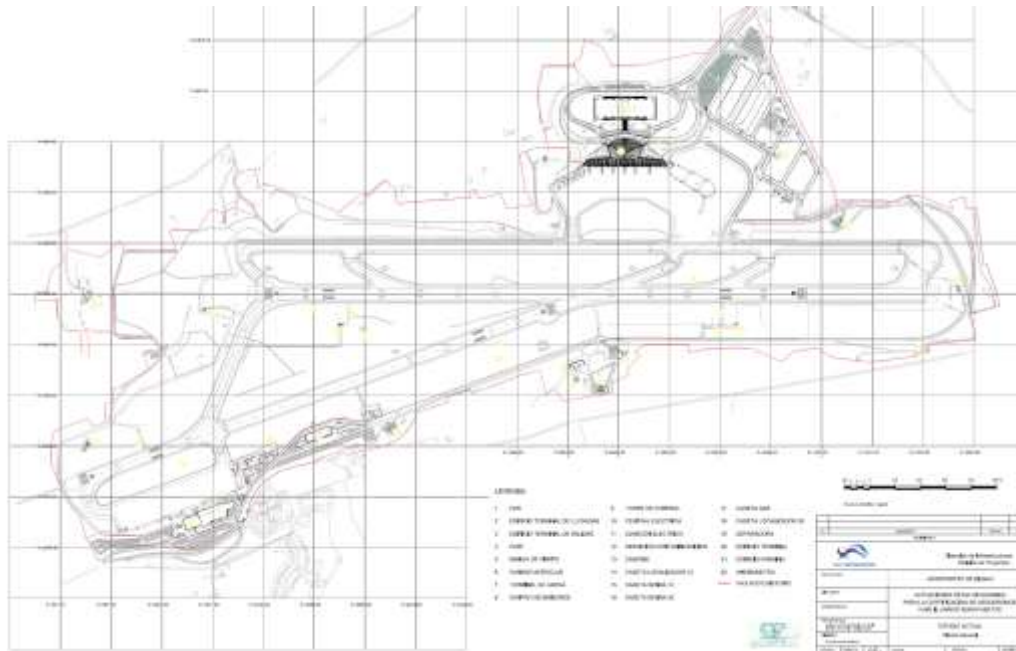
**DESCRIPTION:** Emergency power generator to supply a hospital. Low voltage lines implementation between energy input and the generator

**SCOPE:** Supply, installation, start-up and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PROCEEDINGS IN AIR NAVIGATION FOR CERTIFICATION IN AIRPORTS: SEVILLA, VALENCIA, SANTANDER, VITORIA AND BILBAO



**PROJECT:** Proceedings in air navigation for certification in different airports

**OWNERSHIP:** AENA

**LOCATION:** Airports: Sevilla, Valencia, Santander, Vitoria y Bilbao

**DATE:** December 2012

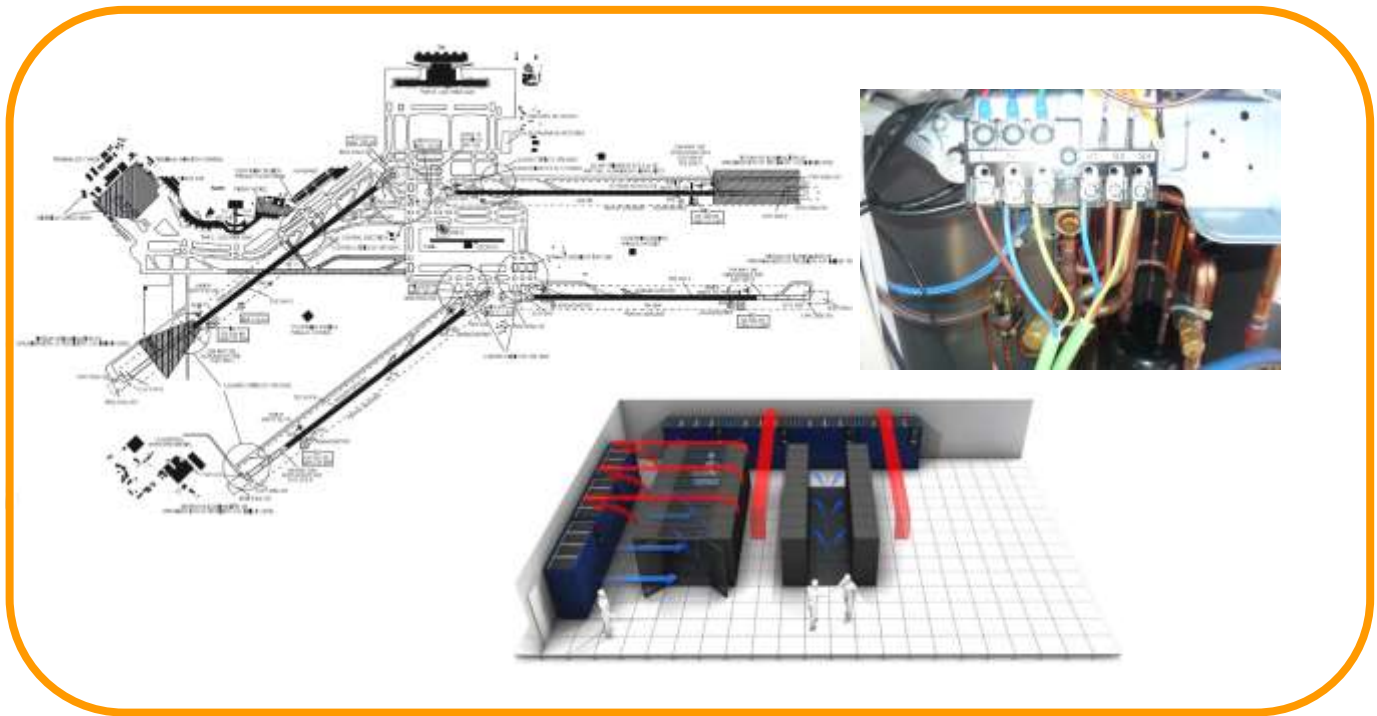
**DESCRIPTION:** Proceedings in air navigation to obtain aerodrome certification. Removal of barriers, booths of electric power transformer, elements of METEO...

**SCOPE:** Executive project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### CONDITIONING OF THE ROOMS WITH BATTERIES IN MADRID-BARAJAS AIRPORT



**WORK:** Conditioning of the rooms with batteries in Airport of Madrid (Barajas-Adolfo Suarez)

**PROMOTER:** AENA AEROPUERTOS

**LOCATION:** Airport of Madrid-Barajas

**DELIVERY:** December 2012

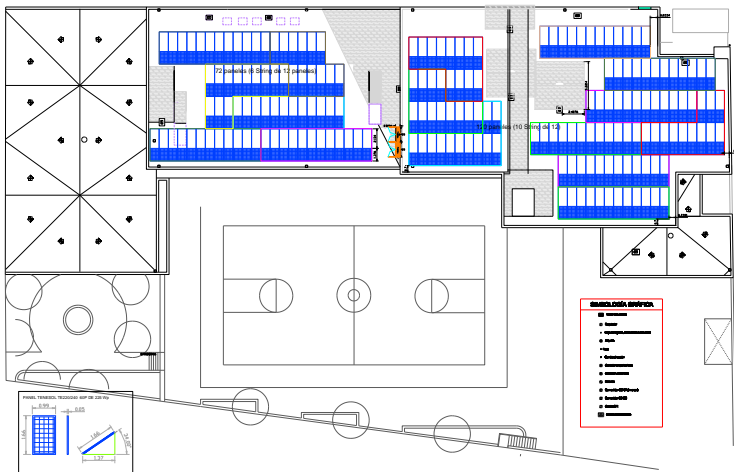
**DESCRIPTION:** Replacement of conditioning systems in rooms with batteries (Terminal T1, T2 and T3). Electrical installation and control system

**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC INSTALLATION (43,20 Kw) AND PREFABRICATED TRANSFORMATION CENTRE TO SUPPLY A MUNICIPAL BUILDING



**WORK:** Photovoltaic installation (43,20 kWn) to supply a municipal building and transformation centre

**PROMOTER:** COUNCIL OF CABRA

**LOCATION:** Municipal Building in Cabra

**DELIVERY:** December 2012

**DESCRIPTION:** Photovoltaic installation in rooftop for self-consumption, voltage lines implementation and transformation centre to connect with electric network

**SCOPE:** Construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### SERVICE STATION AND FUEL DISTRIBUTION SYSTEM LOS MAJUELOS, SAN SEBASTIÁN DE LOS REYES (MADRID)



**PROJECT:** Service station and fuel distribution system Los Majuelos, San Sebastián de los Reyes (Madrid).

**OWNERSHIP:** DISA PENINSULA SLU

**DATE:** 2009-2013

**DESCRIPTION:** Mechanical installation for fuel supply, vehicle washing, building, marquee, development, accesses, link-ups...

**SCOPE:** Urban qualification of the land, basic and executive project, construction management, safety and health, legalization...

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### RETIREMENT HOME AND DAY CARE CENTRE IN NAVALMORAL DE LA MATA (CÁCERES)



**PROJECT:** Retirement home and day care centre.  
**OWNERSHIP:** COUNCIL OF NAVALMORAL DE LA MATA  
**DATE:** 2011-2013

**DESCRIPTION:** Design and calculations for installations to executive project (Day Care Centre). Revision and compliance review (Retirement home). Remedies proposal. Work: Technical assistance to the discretionary direction  
Constructed surface = 3.570 m<sup>2</sup>.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### POWER SUPPLY TO THE SIGNAGE AT VALENCIA AIRPORT



**WORK:** Power supply to the signage at the Valencia Airport  
**PROMOTER:** AENA AEROPUERTOS  
**LOCATION:** Valencia Airport  
**DELIVERY:** December 2012

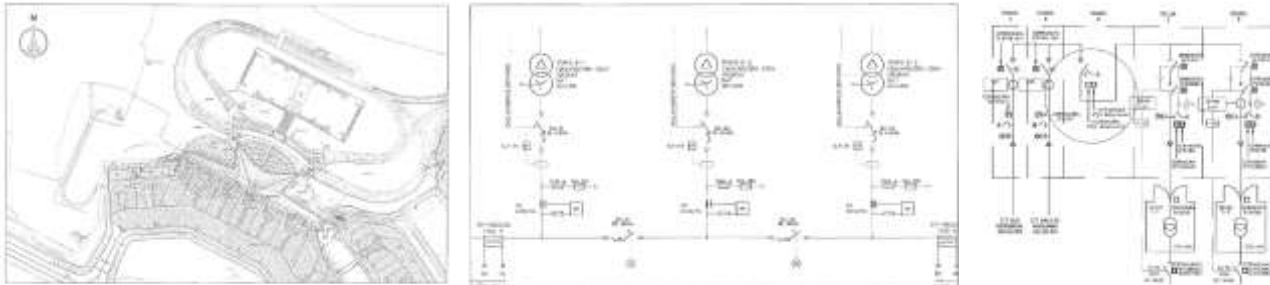
**DESCRIPTION:** Installation of the electric distribution grid (low voltage) to supply the signage at the terminal T1 and terminal T2 in Valencia Airport

**SCOPE:** Project management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### IMPROVEMENTS IN THE ELECTRIC DISTRIBUTION GRID IN BILBAO AIRPORT



**WORK:** Improvement in the electric distribution grid in Bilbao Airport  
**PROMOTER:** AENA AEROPUERTOS  
**LOCATION:** Bilbao Airport  
**DELIBERY:** April 2013

**DESCRIPTION:** Reform of electrical installation (low and high voltage), airside and landside

**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ADAPTATION OF CONDITIONING SYSTEMS IN CENTER SIMULATION AND CONTINGENCIES (SEVILLA)



**WORK:** Adaptation of conditioning system in center simulation and contingencies  
**PROMOTER:** DIR. DE NAVEGACIÓN AÉREA (AENA)  
**LOCATION:** Airport of Sevilla  
**DELIBERY:** April 2013

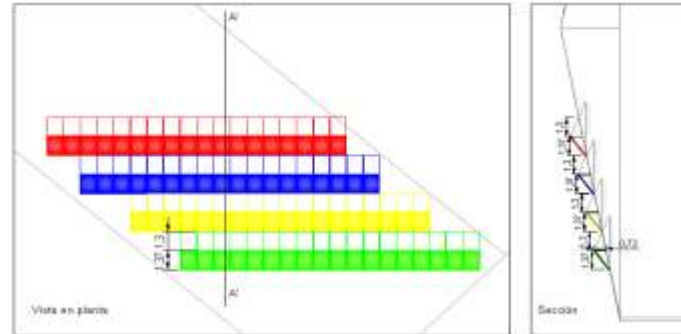
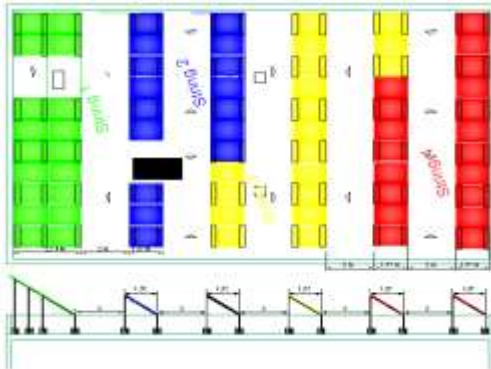
**DESCRIPTION:** Reform of conditioning systems in rooftop and floor through UTA. Building with criticize operability

**SCOPE:** Construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### TWO PHOTOVOLTAIC INSTALLATIONS FOR SELF-CONSUMPTION (17,15 kWp) IN SPORTS CENTRE AND SCHOOL



**WORK:** 2 photovoltaic installation of 17,15 kWp for self-consumption in Villasbuenas de Gata sports centre and Torre Don Miguel school

**PROMOTER:** MANCOMUNIDAD DE MUNICIPIOS DE SIERRA DE GATA (CÁCERES)

**LOCATION:** Municipal buildings Sierra de Gata

**DELIVERY:** April 2013

**DESCRIPTION:** Photovoltaic installation in rooftop for self-consumption in two municipal buildings, Sierra de Gata

**SCOPE:** Project management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REPLACEMENT OF CONDITIONING SYSTEMS IN AIRPORT AND AIR TRAFFIC CONTROL TOWER, MADRID-CUATRO VIENTOS



**WORK:** Replacement of conditioning systems in these buildings: terminal, hangar with simulators and air traffic control tower

**PROMOTER:** AENA AEROPUERTOS SA

**LOCATION:** Madrid-Cuatro Vientos Airport

**DELIVERY:** March 2014

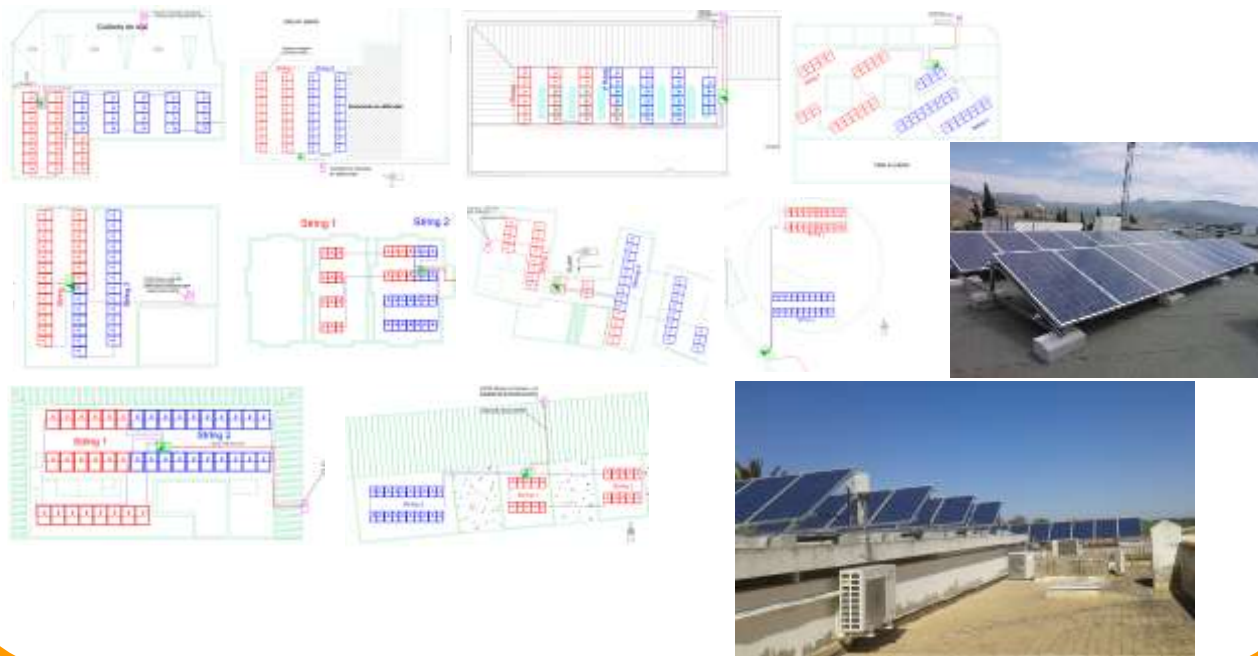
**DESCRIPTION:** Replacement of: coolers, compact equipment and splits , including distribution grids, power supply and control system

**SCOPE:** Drafting project, construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### 10 PHOTOVOLTAIC INSTALLATION (100 kW<sub>n</sub> IN TOTAL) FOR SELF-CONSUMPTION IN SOME MUNICIPAL BUILDINGS (JANDA INTERIOR)



**WORK:** Ten photovoltaic installations for self-consumption in Janda Interior (Cadiz)

**PROMOTER:** PROVINCIAL COUNCIL OF CÁDIZ

**LOCATION:** San José del Valle, Medina Sidonia, Paterna, Benalup y Alcalá de los Gazules

**DELIBERY:** August 2014

**DESCRIPTION:** Photovoltaic installations in rooftop for self-consumption in some municipal buildings, interconnected with the mains

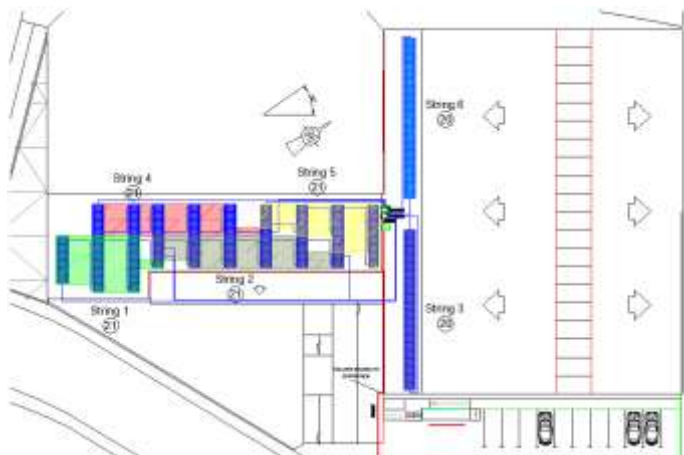
**SCOPE:** Drafting project, construction work and legalization



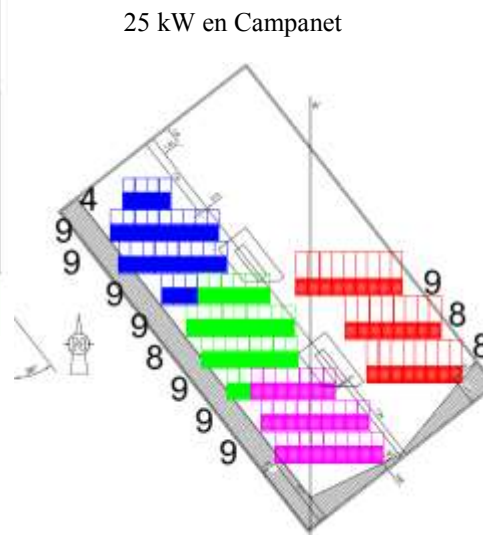
## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC INSTALLATIONS FOR SELF-CONSUMPTION: 30 kW IN ANDRATX AND 25 kW IN CAMPANET (MALLORCA).



30 kW en Andratx



25 kW en Campanet

**WORK:** Photovoltaic installation in rooftop.

**PROMOTER:** ANDRATX COUNCIL  
CAMPANET COUNCIL

**LOCATION:** Cami de Gaieta en Campanet  
Carrer Son Prim, 7 en Andratx

**DELIBERY:** December 2014

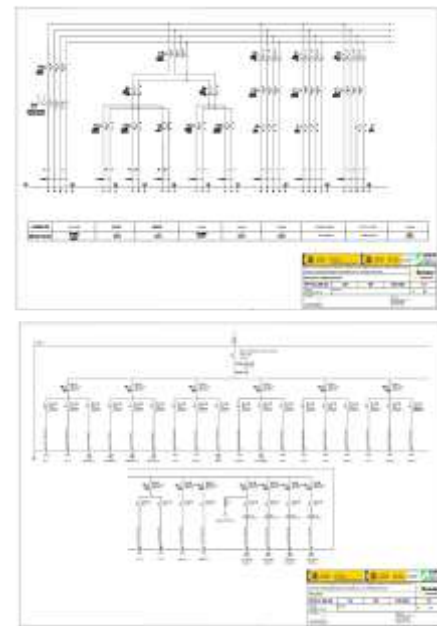
**DESCRIPTION:** Photovoltaic installation of 25 kW in rooftop of Gaita de Campanet resort and 30 kW photovoltaic installation in rooftop of Andratx sports centre

**SCOPE:** Drafting project and construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REPLACEMENT OF ELECTRICAL PANELS IN ALHAURÍN DE LA TORRE PRISON (MÁLAGA)



**WORK:** Replacement of electrical panels in Alhaurín de la Torre Prison

**PROMOTER:** Sociedad de Infraestructuras y Equipamientos Penitenciarios (SIEP)

**LOCATION:** Alhaurín de la Torre Prison

**DELIVERY:** March 2015

**DESCRIPTION:** Replacement of 154 electrical panels in different areas of the prison

**SCOPE:** Construction work, project as-built and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PHOTOVOLTAIC INSTALLATION WITH BATTERIES IN ROTA SPORTS CENTRE (CÁDIZ)



**WORK:** Photovoltaic installation with batteries in Rota sports centre

**PROMOTER:** CÁDIZ PROVINCIAL COUNCIL  
**LOCATION:** C/ Sargento Céspedes en Rota  
**DELIVERY:** April 2015

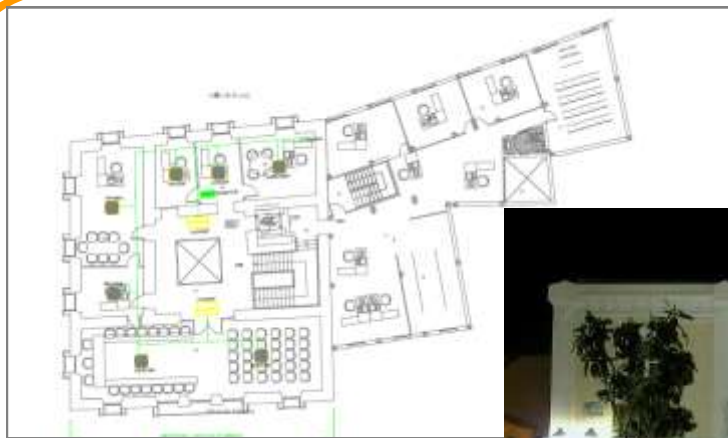
**DESCRIPTION:** Photovoltaic installation with: 80 panels of 300 Wp (24 kW in total), a grid inverter STP 20000TL, 3 inverters Sunny Island 6.0h and 48 batteries of 3000 Ah.

**SCOPE:** Drafting project and construction work

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### CONDITIONING REFORM IN THE NAVALMORAL DE LA MATA TOWN HALL



**WORK:** Reform of conditioning system in historical building, the town hall

**PROMOTER:** COUNCIL OF NAVALMORAL DE LA MATA (CÁCERES)

**LOCATIONNN:** Plaza España, 1 Navalmoral (Cáceres)

**DELIBERY:** May 2015

**DESCRIPTION:** Installations of conditioning and ventilation through VRV systems, air-handling units and air curtains. Centralized control

**SCOPE:** Drafting project, construction work and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ADAPTATION OF ELECTRICAL AND SAI ROOMS IN ALICANTE AIRPORT

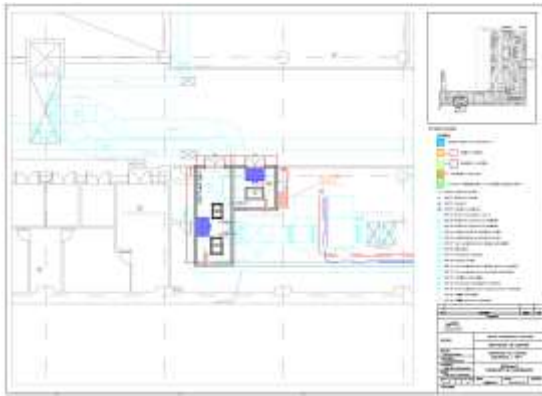
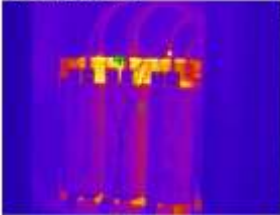


Imagen termográfica



**WORK:** Adaptation of electrical and SAI rooms in the Airport of Alicante

**PROMOTER:** AENA AEROPUERTOS, S.A.

**LOCATION:** Airport of Alicante-Elche

**DELIVERY:** June 2015

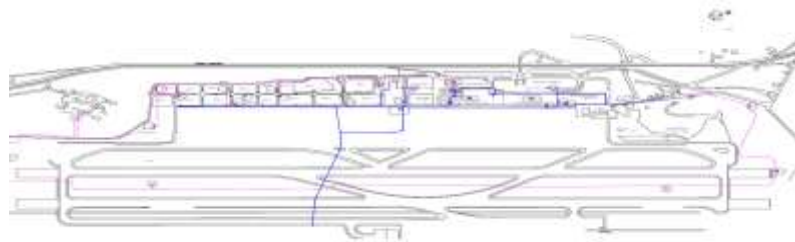
**DESCRIPTION:** Redesign of the system: new electrical rooms, modification systems (HVAC and fire fighting) and relocation of electrical panels, SAI and batteries

**SCOPE:** Construction work, energy consulting, projects as-built and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### LEGALIZATION AND CONSTRUCTION PROJECTS OF LOW-VOLTAGE ELECTRICAL INSTALLATION IN GRAN CANARIA AIRPORT



**PROJECT:** Legalization project and relevance of electrical installations in the main building of Gran Canaria Airport

**OWNERSHIP:** AENA AEROPUERTOS

**LOCATION:** Gran Canaria

**DATE:** April 2014—Currently

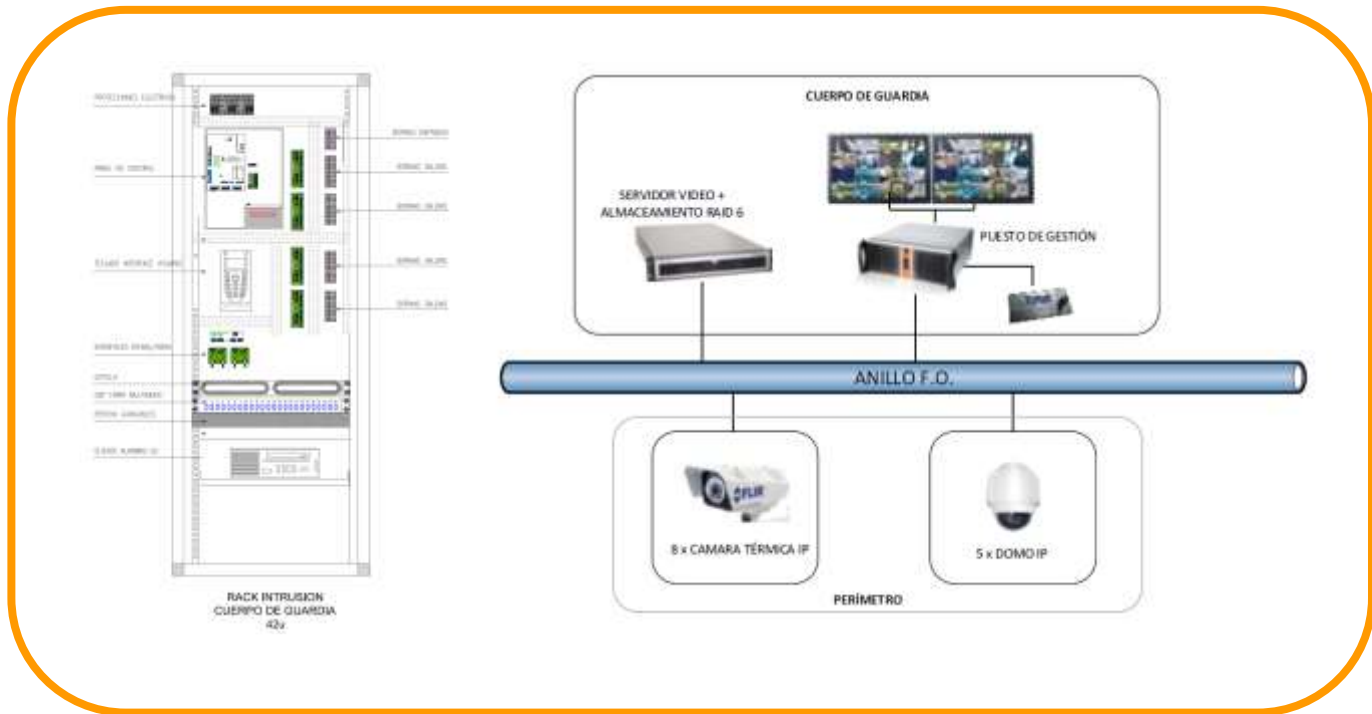
**DESCRIPTION:** Data collection from electrical installations, drafting project to relevance and legalization

**SCOPE:** Previous works, legalization project and construction management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REFORM PROJECTS FOR INSTALLATION OF PERIMETER SECURITY IN PRISONS: ALICANTE Y MURCIA II



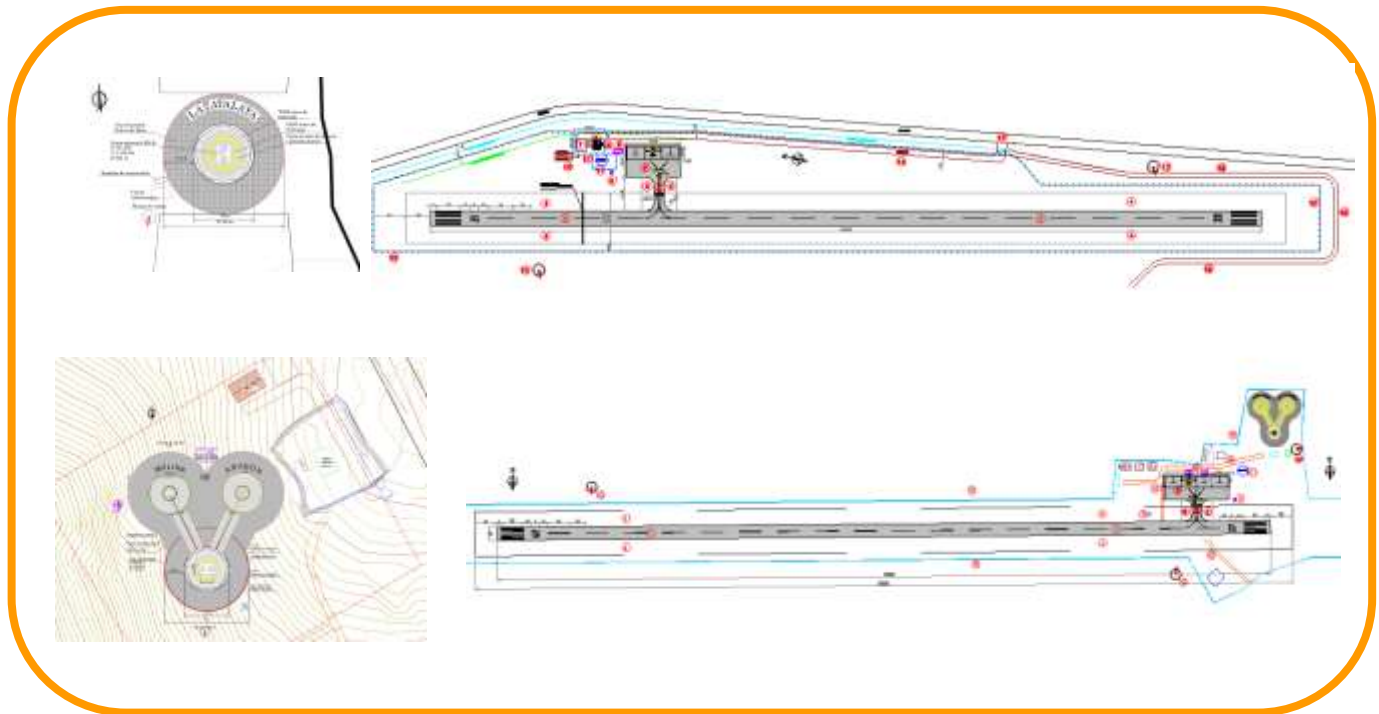
**PROJECT:** Reform project for installation of perimeter security in two prisons: Alicante y Murcia II.  
**OWNERSHIP:** SOCIEDAD DE INFRAESTRUCTURAS Y EQUIPAMIENTOS PENITENCIARIOS, S.A. (SIEP)  
**DATE:** 2014-Currently

**DESCRIPTION:** Analysis existing facilities and suggested improvements. CCTV, presence detectors, thermal cameras, perimeter fence, concertinas...  
**SCOPE:** Construction and execution project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### PERALVECHE AERODROME, CAMPILLOS AERODROME, LA ATALAYA HELIPORT AND MOLINA DE ARAGÓN HELIPORT



**PROJECT:** Drafting projects, management project and legalization of aerodromes and heliports designed for extinguishing fires in Castilla La Mancha.

**OWNERSHIP:** GEACAM (Administration Castilla-La Mancha)

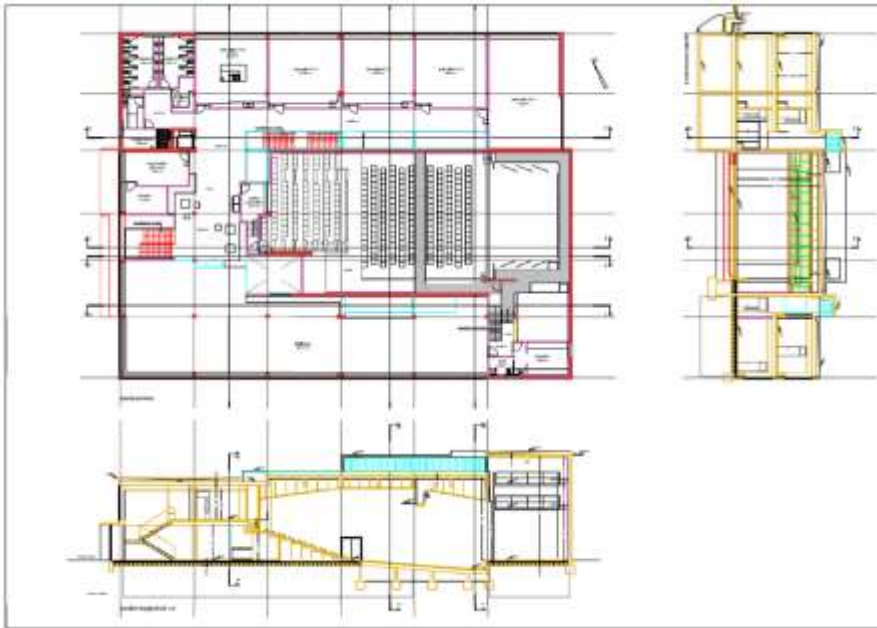
**DESCRIPTION:** Drafting projects of aerodromes and heliports designed for extinguishing fire, including buildings, development, installations and aeronautical infrastructures

**SCOPE:** Basic projects, studies of aeronautical justification, construction management and legalization

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### NEW CIVIC CENTER, LA VICTORIA (VALLADOLID)



**PROJECT:** New civic center in La Victoria (Valladolid). Theatre/Auditorium for 310 spectators, classrooms, studios, library, administration area...

**OWNERSHIP:** COUNCIL OF VALLADOLID

**LOCATION:** Valladolid

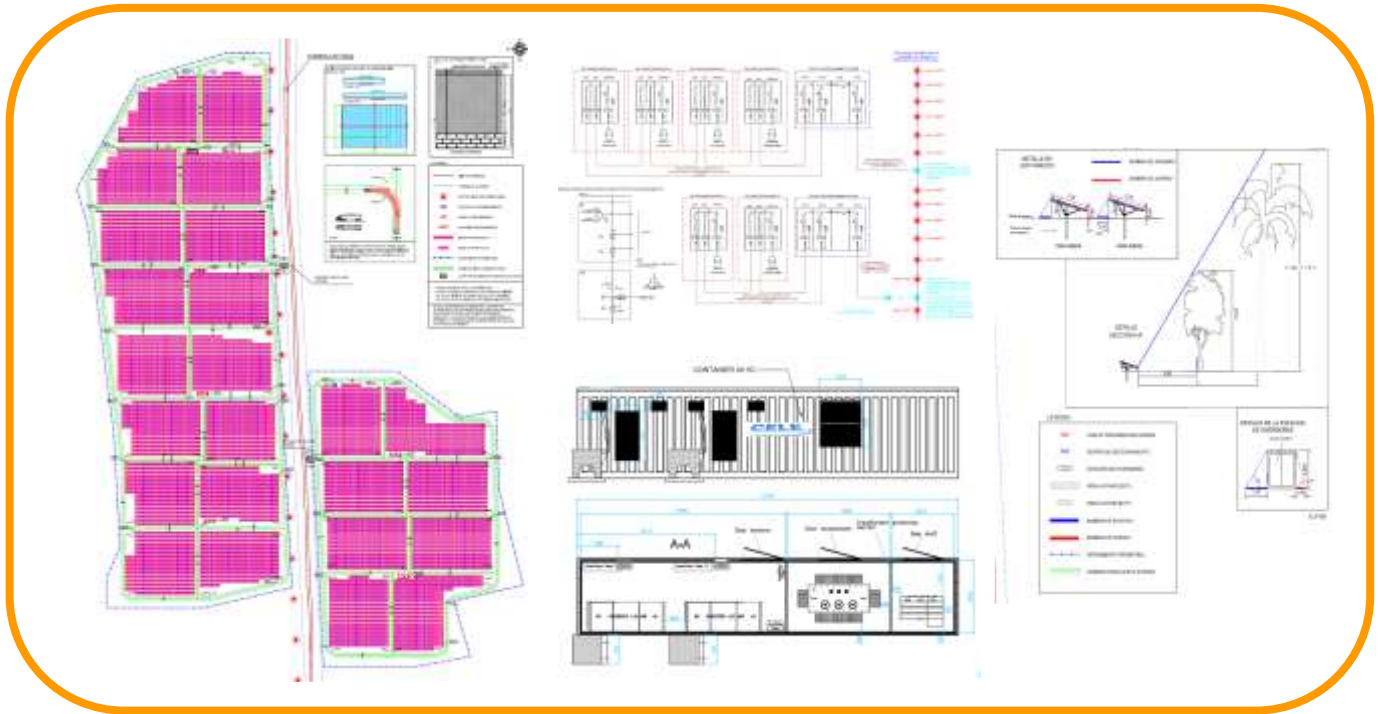
**DATE:** 2014

**DESCRIPTION:** Plumbing, sanitation, electricity, lighting, telecommunications, conditioning, ventilation, fire fighting systems, solar sanitary heating water system, underfloor heating/refreshing...

Constructed surface = 2.700 m<sup>2</sup>.

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### 5 MW PHOTOVOLTAIC PLANT + 10 MW TO COMPLEMENT THE HYDROELECTRIC POWER PLANT IN DAVID (PANAMÁ)



**PROJECT:** 5 MW photovoltaic plant + 10 MW to complement the hydroelectric power plant in Panamá

**OWNERSHIP:** PANAMÁ POWER HOLDING

**LOCATION:** Ciudad de David (Panamá)

**DATE:** December 2013 - September 2014

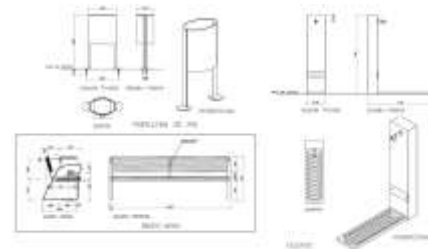
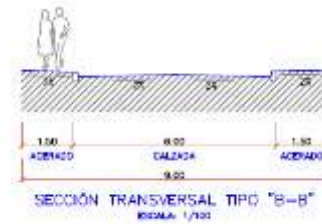
**DESCRIPTION:** Technical/economic feasibility studies, drafting of basic analysis and execution project

**SCOPE:** Previous works and project of execution

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### DRAFTING PROJECT AND CONSTRUCTION MANAGEMENT IN HOUSING DEVELOPMENT UA 7, JARAÍZ DE LA VERA (CÁCERES)



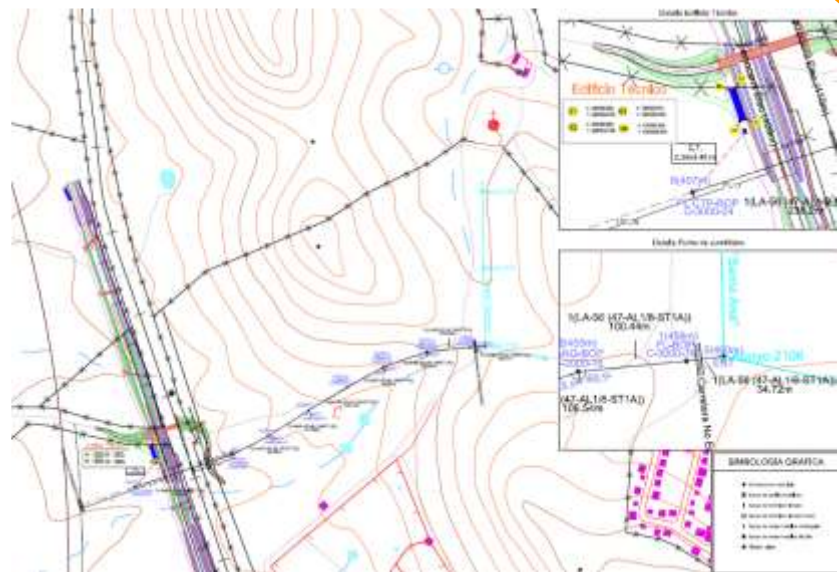
**PROJECT:** HOUSING DEVELOPMENT IN JARAÍZ DE LA VERA  
**OWNERSHIP:** AGRUPACIÓN DE INTERES URBANO UA7  
**LOCATION:** C/ Ronda de San Isidro  
**DATE:** August 2014 - Currently

**DESCRIPTION:** Drafting project, construction management and safety  
  
Constructed surface : 8.384 m2  
  
**SCOPE:** Implementation project and construction management

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ELECTRICAL CONNECTIONS OF TECHNICAL BUILDINGS BY HIGH-PERFORMANCE LINE MADRID-EXTREMADURA, TRANCHE CÁCERES-BADAJOS



**PROJECT:** Design of electrical connections to four technical buildings in the tranche between Cáceres-Badajoz, high performance line Madrid Extremadura.

**OWNERSHIP:** INECO (ADIF)

**DESCRIPTION:** Drafting of projects to make high voltage electrical connections, from supply points to technical buildings

**SCOPE:** Stakeout studies, topography and execution project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REPLACEMENT OF TRANSUBSTITUCIÓN TRANSFORMERS IN CIUDAD REAL STATION



**WORK:** Replacement of transformers in station of Ciudad Real

**PROMOTER:** ADIF

**LOCATION:** Station of Ciudad Real

**DELIVERY:** JULY 2015

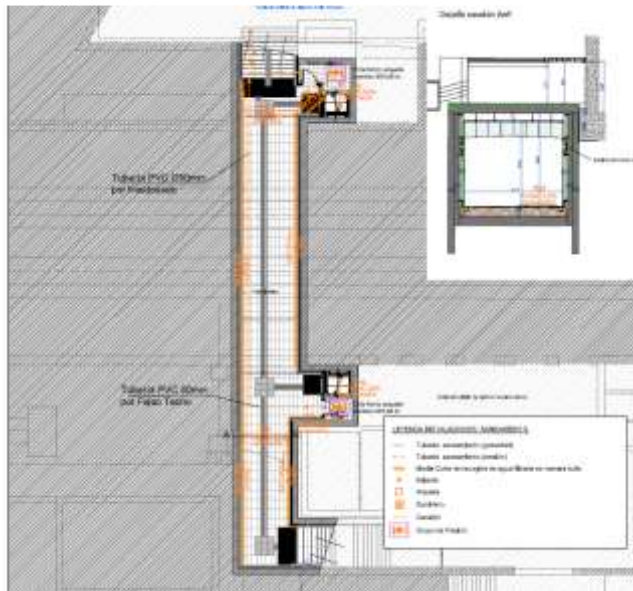
**DESCRIPTION:** Supply and installation of transformers in station of Ciudad Real. Equipment of fire doors with different blades and controlled ventilation

**SCOPE:** Installation of transformers and fire doors

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### DRAFTING OF PROJECT TO IMPROVE THE ACCESSIBILITY IN THE STATION SAN JOSÉ DE VALDERAS



**PROJECT:** IMPROVEMENT THE ACCESSIBILITY OF THE STATION IN SAN JOSÉ DE VALDERAS  
**OWNERSHIP:** RENFE/VIAJEROS  
**LOCATION:** Avd. Lisboa en Alcorcón  
**DATE:** June 2015 - December 2015

**DESCRIPTION:** Improvement the connections between lobbies, enlargement of the bottom step and installation of lifts

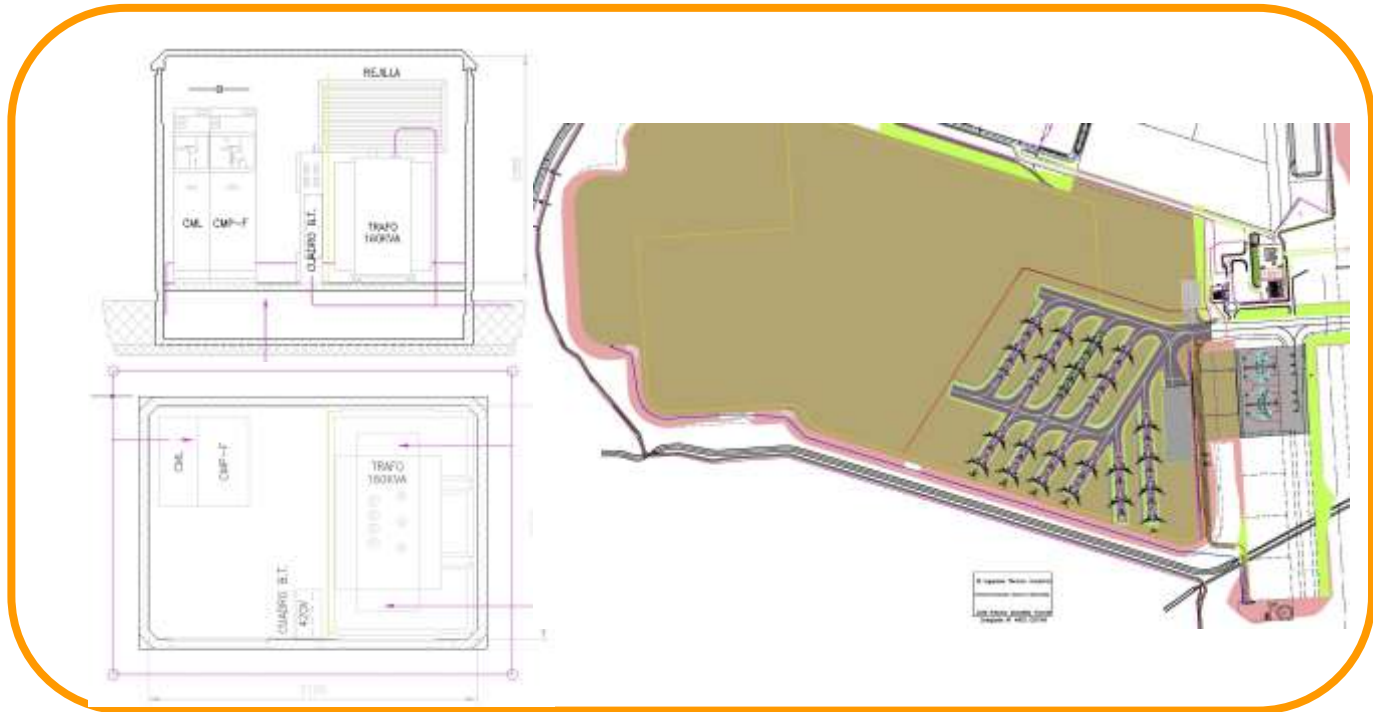
**BUDGET:** 1.629.534,50 €.

**SCOPE:** Implementation project

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ELECTRICITY SUPPLY AND PROCESSING PLANT, TERUEL AIRPORT



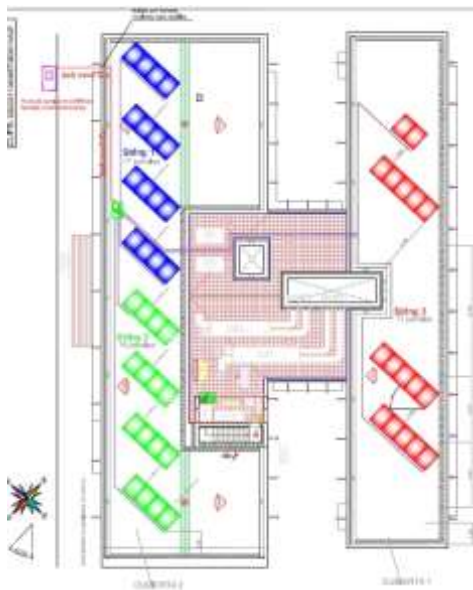
**PROJECT:** Electricity supply and transformation centre in an area of Teruel Airport  
**OWNERSHIP:** CONSORCIO DEL AERÓDROMO AIRPORT OF TERUEL  
**LOCATION:** Airport of Teruel. Caudé (Teruel)  
**DATE:** March 2015

**DESCRIPTION:** Ground-Level transformer substation and electricity supply from other processing plant  
**SCOPE:** Electrical installation (High voltage).  
Underground installation with 3 single-pole cable wires and PVC pipe.  
Total length = 1.797 m.

## PROYECTOS. GRUPO RENDER INDUSTRIAL.



### 3 PHOTOVOLTAIC INSTALLATIONS FOR SELF-CONSUMPTION IN DEVELOPMENT CENTRES OF BADAJOZ COUNCIL



**WORK:** Photovoltaic installation for self-consumption in development centres (DIP. Badajoz)

**PROMOTER:** AGENEX / DIP. BADAJOZ

**LOCATION:** Puebla de la Calzada, Villafranca de los Barros y Zafra

**DELIBERY:** September 2015

**DESCRIPTION:** Photovoltaic installation for self-consumption in the rooftop of some development centres. Systems connected to the interior network

**SCOPE:** Drafting project and construction work

## PROYECTOS. GRUPO RENDER INDUSTRIAL.



### IMPROVEMENTS OF THE PROTECTIVE DEVICES TO PREVENT LIGHTNINGS IN FACILITIES AGAINST FOREST FIRES



**WORK:** Improvements of devices to prevent forest fires from the lightning (Castilla-La Mancha)

**PROMOTER:** GEACAM

**LOCATIONN:** 46 places in Toledo, Guadalajara, Ciudad Real and Albacete

**DELIBERY:** October 2015

**DESCRIPTION:** Adaptation of protection systems against lightning in 46 firefighting centres and observation towers

**SCOPE:** Installation of catchment heads, impact meters, earthing network...

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### COMPLETION OF THE HOUSING DEVELOPMENT (UA 14 AND UA 15) IN NAVALMORAL DE LA MATA



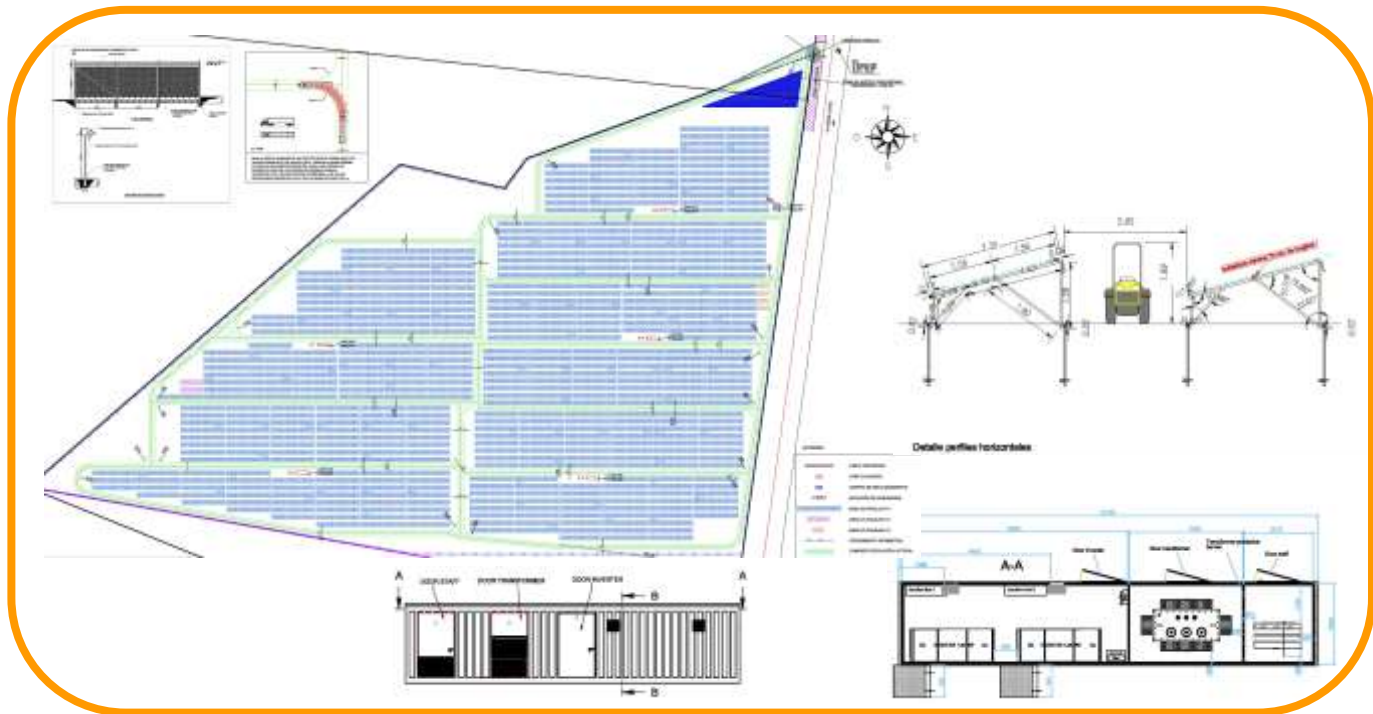
**WORK:** Completion of housing development (UA 14 and UA 15)  
**PROMOTER:** COUNCIL OF NAVALMORAL DE LA MATA  
**LOCATION:** UA 14 and UA 15 in Navalmoral de la Mata  
**DELIBERY:** December 2015

**DESCRIPTION:** Housing development works.  
Total surface = 90.000 m2  
**SCOPE:** Supply of topsoil, plantation of grass, installing hosting games for children, public lighting, horizontal and vertical signs and indications, pumping systems in lakes...

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### DRAFTING OF PHOTOVOLTAIC PLANT PROJECT. MAINS CONNECTION FOR SALE CONCURRENCE ACTS (PANAMÁ)



**PROJECT:** Photovoltaic plant with 12,96 MWp.  
Mains connection for sale concurrence acts in Panamá

**OWNERSHIP:** FOTOVOLTAIC INVESTMENT CORP

**DATE:** December 2015

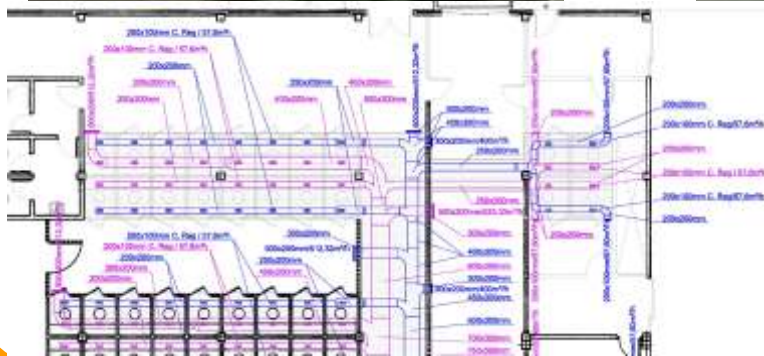
**DESCRIPTION:** Drafting of photovoltaic plant project (12,96 MWp)

**SCOPE:** Drafting of: basic and implementation project.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REFORM OF THE CONDITIONING SYSTEMS IN PRISON OF PICASSENT



**PROJECT:** Reform of conditioning systems

**OWNERSHIP:** SIEP

**LOCATION:** Picassent Prison (Valencia)

**DATE:** July-September 2015

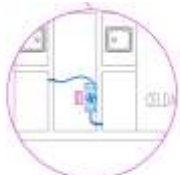
**DESCRIPTION:** Renewal of the conditioning installations in 5 buildings. Production equipment (Total power = 434,09 kW), heat recovery systems, electric installation and control system

**SCOPE:** Design of project

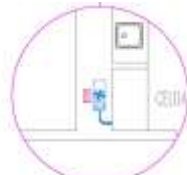
## PROJECTS. GRUPO RENDER INDUSTRIAL.



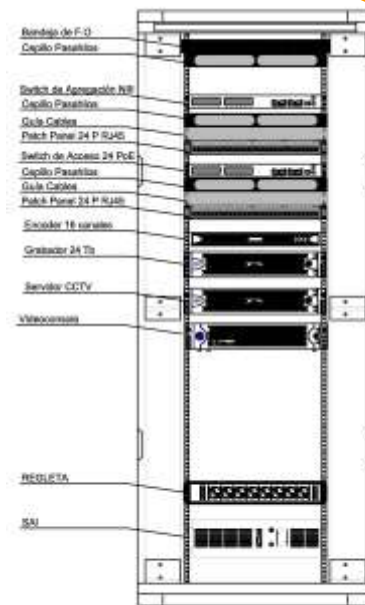
### INSTALLATION OF FIRE DETECTION SYSTEM, PERIMETER SECURITY FACILITIES AND CCTV, PRISION OF PEREIRO AGUIA (ORENSE)



Detalle caja aspiración dos canales.  
Escala 1:25



Detalle caja aspiración un canal.  
Escala 1:25



RACK RMS 42 U  
JS (CCI)

**PROJECT:** Fire detection systems, perimeter security and CCTV.  
**OWNERSHIP:** SIEP, S.A.  
**LOCATION:** Prision de Pereiro de Aguilar (Orense)  
**DATE:** July 2015

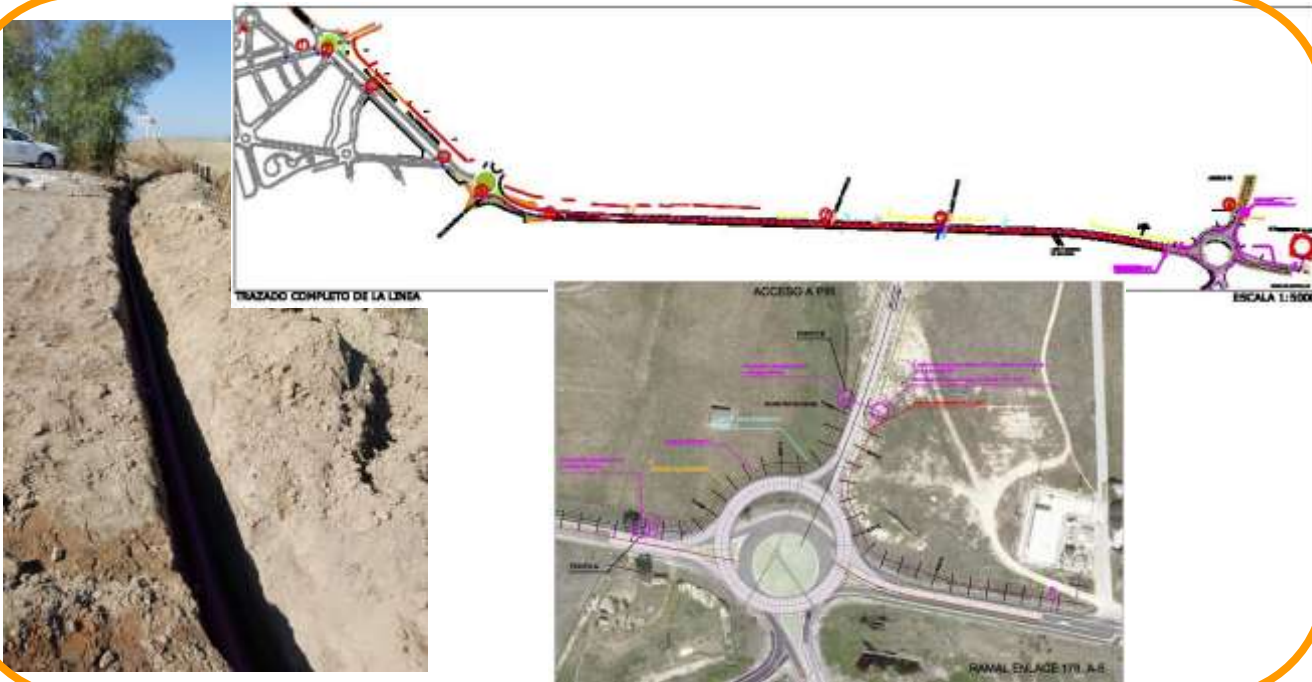
**DESCRIPTION:** Reform of fire detection systems in several modules, perimeter security and CCTV.  
**SCOPE:** Technical project. The fire detection system is formed by 825 detectors, installation of indoor CCTV and anti-intruder system



## PROJECTS. GRUPO RENDER INDUSTRIAL.



### COMPLETION OF HIGH VOLTAGE LINE BETWEEN STR IBERDROLA-UA-14 AND UA-15.



**PROJECT:** Channelling and electrical wiring (high voltage) between STR Navalmoral substation- UA14

**OWNERSHIP:** COUNCIL OF NAVALMORAL DE LA MATA

**LOCATION:** Navalmoral de la Mata

**DATE:** September 2015

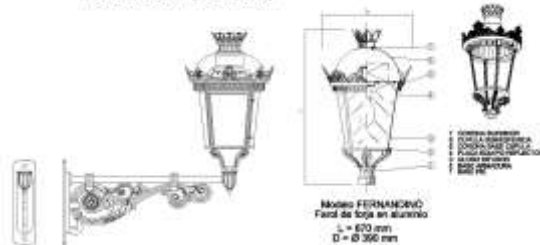
**DESCRIPTION:** Draft project and construction management

**SCOPE:** Electrical installation (High voltage).  
Underground installation with 3 single-pole cable wires and PVC pipe.  
Total length = 1472 m.

# PROJECTS. GRUPO RENDER INDUSTRIAL.

## PUBLIC LIGHTING, PERALEDA DE LA MATA

DETALLE PALOMILLA TIPO VILLA Y LUMINARIA DE EXTERIOR TIPO FERNANDO VII ( FERNANDINA)



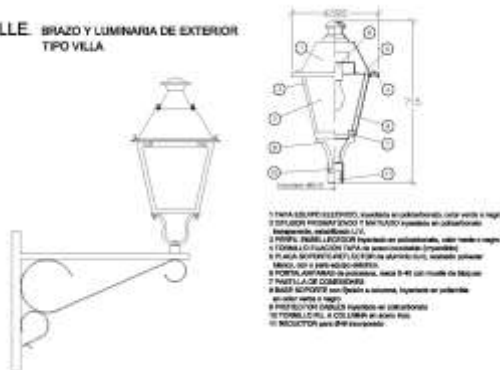
DETALLE CANDELABRO Y LUMINARIA DE EXTERIOR TIPO FERNANDO VII ( FERNANDINA) TIPO VILLA



DETALLE BRAZO Y LUMINARIA DE EXTERIOR TIPO CAZOLETA



DETALLE BRAZO Y LUMINARIA DE EXTERIOR TIPO VILLA



DETALLE BRAZO Y LUMINARIA DE EXTERIOR RECTA ( FL 2X36 W)



**WORK:** Electrical installation. Public lighting in Peraleda de la Mata.

**PROMOTER:** COUNCIL OF CACERES

**LOCATIONNN:** Peraleda de la Mata (Cáceres)

**DELIBERY:** September 2015

**DESCRIPTION:** Existing luminaries were replaced by others with higher energy efficiency

**SCOPE:** 284 new luminaries. The town will reduce the consumption of electrical energy (60%)

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### ATRP SUST. ELECTRICAL PANELS AND ACTIONS TO ADAPT THE REGULATION OF THE DISTRIBUTION NETWORK (LOW VOLTAGE), ADOLFO SUÁREZ MADRID-BARAJAS AIRPORT



**PROJECT:** Atrp sust. Electrical panels and actions to adapt the regulation of the distribution network (Low Voltage)

**OWNERSHIP:** AENA, S.A.

**LOCATION:** Airport Adolfo Suárez Madrid-Barajas

**DATE:** September 2015

**DESCRIPTION:** Technical assistance, draft project and installation of 14 electric energy measurement equipment

**SCOPE:** Technical assessment of 1.328 electrical panels and replacement of 261 with higher quality standards

## PROJECTS. GRUPO RENDER INDUSTRIAL.

### OVERHEAD AND UNDERGROUND POWER LINE (HIGH VOLTAGE). INSTALLATION OF PROCESSING PLANT



**WORK:** Overhead and underground power line and installation of transformation centre  
**PROMOTER:** GRUPO TRAGSA  
**LOCATION:** Santoyo (Palencia)  
**DELIVERY:** November 2015

**DESCRIPTION:** The electrical installation (high voltage) is formed by power line (overhead and underground) and a processing plant. The purpose is to supply a pump station

**SCOPE:** Construction work,

## PROJECTS. GRUPO RENDER INDUSTRIAL.



**TECHNICAL ASSISTANCE FOR COLLECTING THE START-UP DOCUMENT IN ELECTRICAL FACILITIES (HIGH VOLTAGE), AIRPORTS OF MADRID-CUATRO VIENTOS, SON BONET Y VALLADOLID**



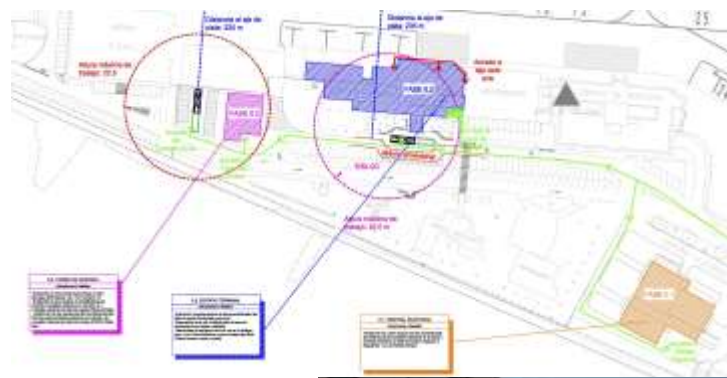
**PROJECT:** Technical assistance for collecting the start-up document, high voltage facilities  
**OWNERSHIP:** AENA, S.A.  
**LOCATION:** Airports of Madrid-Cuatro Vientos, Son Bonet and Valladolid  
**DATE:** December 2015

**DESCRIPTION:** Technical assistance for collecting the Start-up document of new electrical facilities, located in different airports  
**SCOPE:** Writing the necessary documentation and obtaining of regular inspections.

## PROJECTS. GRUPO RENDER INDUSTRIAL.



### INSTALLATION OF CONDITIONING EQUIPMENTS AIRPORT MADRID-CUATRO VIENTOS



**WORK:** Project, supply and installation of conditioning systems

**PROMOTER:** AENA, S.A.

**LOCATION:** Airport Madrid - Cuatro Vientos

**DELIVERY:** 2015-2016

**DESCRIPTION:** Supply and installation of new conditioning systems: coolers, precision equipment, distribution networks, power supply, control system

**SCOPE:** Drafting project, construction work and legalization

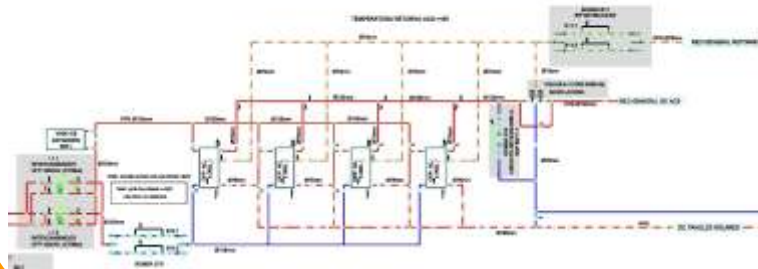
## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REFORM OF ELECTRIC INSTALLATIONS (LOW VOLTAGE), SOLAR SANITARY HEATING WATER SYSTEMS AND FIRE DETECTORS. SOCIAL INTEGRATION CENTRE IN VALENCIA



ESQUEMA DE FONTANERIA



**PROJECT:** Renewal the systems involved in:  
Sanitary heating water and solar energy

**OWNERSHIP:** SIEP

**LOCATION:** Picassent Prison (Valencia)

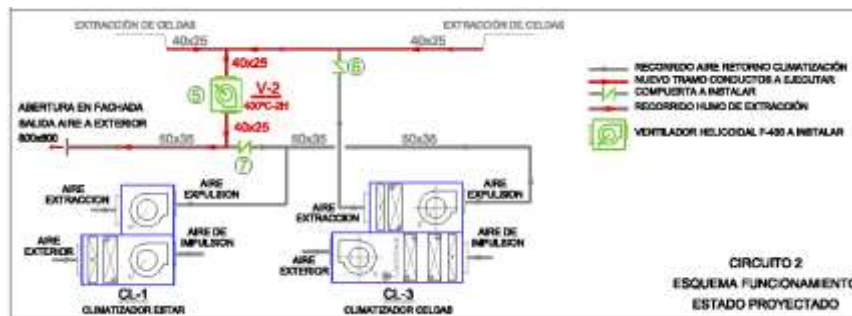
**DATE:** 2015

**DESCRIPTION:** Acting on 37 buildings: replacement of the boilers, burner, heat exchangers, circulator pumps, pipe network (16.177,00 m), plumbing, electrical installation, control system...

# PROJECTS. GRUPO RENDER INDUSTRIAL.



## FIRE DETECTION AND EXTINGUISHING INSTALLATION IN THE PRISON OF MALLORCA (BALEARES)



**PROJECT:** Fire detection and extinguishing installation

**OWNERSHIP:** SIEP

**LOCATION:** Mallorca Prison

**DATE:** January 2016

**DESCRIPTION:** Implementation of fire detection system (aspiration type in cells and punctual type in common areas) and smoke extraction system

**SCOPE:** Design of project



## PROJECTS. GRUPO RENDER INDUSTRIAL.



### REFORM OF STEAM FACILITY IN MALLORCA PRISON (BALEARES)



**PROJECT:** Reform of steam installation

**OWNERSHIP:** SIEP

**LOCATION:** Prison of Mallorca

**DATE:** January 2016

**DESCRIPTION:** Renewal of steam system in the drying room and removal systems. Electric installations. New calender and ironers

**SCOPE:** Design of project

## ACREDITATIONS. GRUPO RENDER INDUSTRIAL.

GRUPO RENDER INDUSTRIAL disposes of accreditation certificates about several management systems. These certificates confirm the trend towards the continuous improvement of our services.

GRUPO RENDER INDUSTRIAL has achieved successfully: from quality management system **ISO 9001:2008**, from environmental management system **ISO 14001:2004** and from occupational health and safety management system **OHSAS 18001:2007**.

The implementation of these management systems in the company, particularly in the engineering technical services, provides our customers the security for our work, which is executed in accordance with high-quality parameters.

### GRUPO RENDER INDUSTRIAL DISPOSES OF ACCREDITATION CERTIFICATES ABOUT MANAGEMENT SYSTEMS: ISO 9001:2008, ISO 14001:2004 AND OHSAS 18001:2007

In addition, GRUPO RENDER INDUSTRIAL has Management Certificate **I+D+I (UNE 166002 Standard)**.

This certificate allows GRUPO RENDER to systematize the investigation, development and innovation activities. Achieving new production processes and substantial gains in existing methods.





**GRUPO RENDER**

**Ingeniería multidisciplinar y montajes industriales**

Polígono Industrial Campo Arañuelo, C/ Canteros, s/n • 10300 Navalmoral de la Mata. CÁCERES

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