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Instra Projets





Logistics Centres:

- **Inditex-Bershka Logistics Centre (87,000 m²) in Palafolls, Barcelona.** Project development and works management
- **Enlargement of the Inditex Logistics Centre (57,000 m²) in Zaragoza.** Project development and works management.
- **Inditex-Tempe Logistics Centre (110,000 m²) in Elche, Alicante.** Preliminary plan development, project and works management.
- **Interventions on the Logistics Systems of the Inditex Logistics Centre in Arteixo, A Coruña.** Project development and works management.



Warehouse and distribution automated systems:



- **Automated silo at the Inditex Logistics Centre of Sallent, Barcelona.** Project development and works management of an automated silo.
- **Logistics System for Packing at the Logistics Centre of Palafolls, Barcelona.** Project development and works management of a logistics system.
- **Logistics System for Hanging Clothes in Zaragoza.** Project development and works management of a logistics system.
- **Automated Silo and Packing Logistics System in Alicante.** Project development and works management of a logistics system and automated silo.



- **Wind farms in Galicia:** Contract with Enel Green Power for the development of 11 wind farms preliminary plans within the Wind Power Plan of Galicia, including the feeder lines.
- **Wind farms in Galicia:** Contract with GECALSA for the development of 8 wind farms preliminary plans within the Galician Wind Power Plan, including the feeder lines.
- **Wind farms in the Canary Islands:** Contract with Enel Green Power for the development of a technical project for the Lomo Gordo Substation and a 66 kV Subterranean Feeder Line.
- **Wind farms in Asturias:** Contract with Endesa Cogeneración for the development of 4 wind farms preliminary plans within the Wind Power Plan of Asturias, including the feeder lines.
- **Wind farms in Cantabria:** Contract with FCC Energía for the development of 5 prototype projects of the study areas specified in the official guidelines, including Wind Power Resources Study, drawing up Technological Accreditation Reports, Environmental Impact Assessment...
- **Wind farms in Cantabria:** Contract with Sociedad Gestora de Parques Eólicos de Castilla y León (Gecal, S.A.) for the development of 7 prototype projects of public works and electrical infrastructures specified in the official guidelines, including Feeder Lines designs, Technological Accreditation Reports...
- **Wind farms in Galicia:** Contract with Endesa Cogeneración y Renovable for the development of the implementation technical project of the Touriñán III Power Upgrade Wind Farm (15 MW)
- **Wind farms in Galicia:** Contract with Olivento (FCC Energía) for the development of the implementation technical project of the Monte Seixo Repowering Wind Farm (48 MW).
- **Wind farms in Galicia:** Contract with Endesa Cogeneración y Renovable for the development of 19 wind farms preliminary plans within the Galician Wind Power Plan, including the feeder lines (481 MW).

- **Wind farms in Burgos:** Contract with Ibervento for the development of the engineering and works management of the electrical infrastructures of Las Paldas wind farm (substation Otero 20/132 kV 1x40 MW+1x50 MW, Lat 132 kV Otero-La Lora)

- **Wind farms in Burgos:** Contract with Prorener for the development of the engineering and works management of the electrical infrastructures of Cogollos II wind farm (30/220 kV 1X50 MW, LAT 220 kV Cogollos – Villalbilla)

- **Technical Support for turnkey contract Wind farm Projects:** Consulting contract with General Electrical Wind Energy for the technical support of their turnkey contract projects llave en mano or the machinery supply to the developing companies in Spain and Portugal, auditing the electrical infrastructure and the public works, development of procedures to design access roads, platforms...

- **Wind farms in Extremadura:** Contract with Ayesa (building company: IER) to provide Technical Support for the development of the wind farm projects of the Wind Power Plan of Extremadura, including technical support to validate and identify locations, feeder lines options (132 kV, SET 220 kV and 400 kV), efficiency studies, final design of wind farms and substations, issuing of industrial plans documentation, agreements with owners and EIAs (23 wind farm and substation projects, 632 MW)



- **Wind farms in Lodoso and Marmellar, Burgos:** technical support contract with General Electrical Wind Energy to support the turbine and anemometric towers assembly.

- **Wind farm in Las Lomillas, Cuenca:** technical support contract with General Electrical Wind Energy for the definition of a series of tests leading to evaluate the performance of the plant's low-voltage protections at specific levels of charge.



- **19 wind farms preliminary plans within the Wind Power Plan of Galicia.** Grupo ENHOL.

- **Valsalgueiro Wind farm:** contract with Navantia for the development of the works management for the plant and the electrical infrastructure of the Valsalgueiro wind farm, A Coruña (Substation 20/66 kV)

- **Singular wind farm of Boqueixón:** Project for singular wind farm tender in Boqueixón, A Coruña (3 MW).

- **Wind farms in Albacete:** Contract with Endesa Cogeneración Renovables for the development of the engineering and works management of the electrical infrastructures of wind farms in Albacete (Relumbrar Substation 20/132 kV 2x25MW+1x50MW, Cabeza Morena Substation 20/132 kV 50 MW and Lat 132 kV Alpera-Higueruela).

- **Fuentsanta Wind Farm, Albacete:** technical support contract with General Electric Wind Energy for the development and audit of the electrical infrastructure and public works of the wind plant (33 turbines of 1.5 MW and substation 30/132 kV of 50 MW).

- **Geographical Information Systems for Wind Farms application development.** Consulting contract with Endesa Cogeneración Renovables for the development and implementation of a Geographical Information System (GIS) in a wind plant.

- **Design of Procedures "Procede".** Consulting contract with Endesa Cogeneración Renovables for the "PROCEDE" project, which sets procedures that will standardize the project, building and start up processes for wind farms in Spain and Portugal.



- **Papelera Guipuzcoana Cogeneration Plant 45/50 Mwe:** technical support contract with General Electric for consulting, engineering support and assistance, to perform, among others, the following tasks: installation project of the turbine single type LM6000 PD Sprint, groundwork and OCA certification.

- **Holmen Paper Cogeneration Plant 45/50 Mwe:** technical support contract with General Electric for consulting, engineering and technical assistance (Site manager).

- **Cocarga S.L. Cogeneration Plant, A Estrada:** Detailed engineering for a cogeneration control system at the Cocarga's local abattoir, through an Allen Bradley SLC5000 connected to a supervising PC with Rockwell RSView

- **Technical Support to draw up Viability Studies of 2 Tri-generation Plants of 1 Mwe.**

- **Project and Works Management of 2 Tri-generation Plants at the Mecol Logistics centre (1 Mwe) and at the Bershka Logistics Centre in Palafolls (1 Mwe).**

- **Power Station with 2x50 MWe Gas Turbine in Futila, Angola:** Technical Support contract with the contractor for consulting, engineering and technical support to perform, among others, the following tasks: design of a series of geotechnical tests, analysis of the tests results and foundations designs.

- **Combined Cycle peaking power plant of 270 MWe in Escatrón, Zaragoza:** Technical Support contract with General Electric for consulting, engineering and technical support, performing, among others, the following tasks: start-up procedures, check and supervision of gas installations, SET 400 kV-11 kV and ancillary services, onsite check and engineering and design of different proposals to improve and correct implementation faults, etc.

- **Technical support for Inditex to implement photovoltaic solar plants on the parksites of their Logistics Centres (P>4 MW)**
- **Project for a photovoltaic solar plant of 115 kW in the logistics centre of Palafolls, Barcelona.**
- **Photovoltaic Solar Plant in the Cataboi Industrial Estate in Porriño, Pontevedra:** project for a photovoltaic solar plant on top of the facilities of the industrial estate (1 MW).
- **Photovoltaic Solar Plant on the roofs of the elevated passages of the University of Vigo:** preliminary plans for the implementation of 60 photovoltaic kW on top of the elevated passages of the Vigo Campus.
- **Solar farm in Hoya Gonzalo, Albacete (0.5 MW):** Technical support contract with the building company for the design and remodelling of foundations systems on a fixed/tracking panel, as well as the design of energy efficiency and restructure of the interconnection system





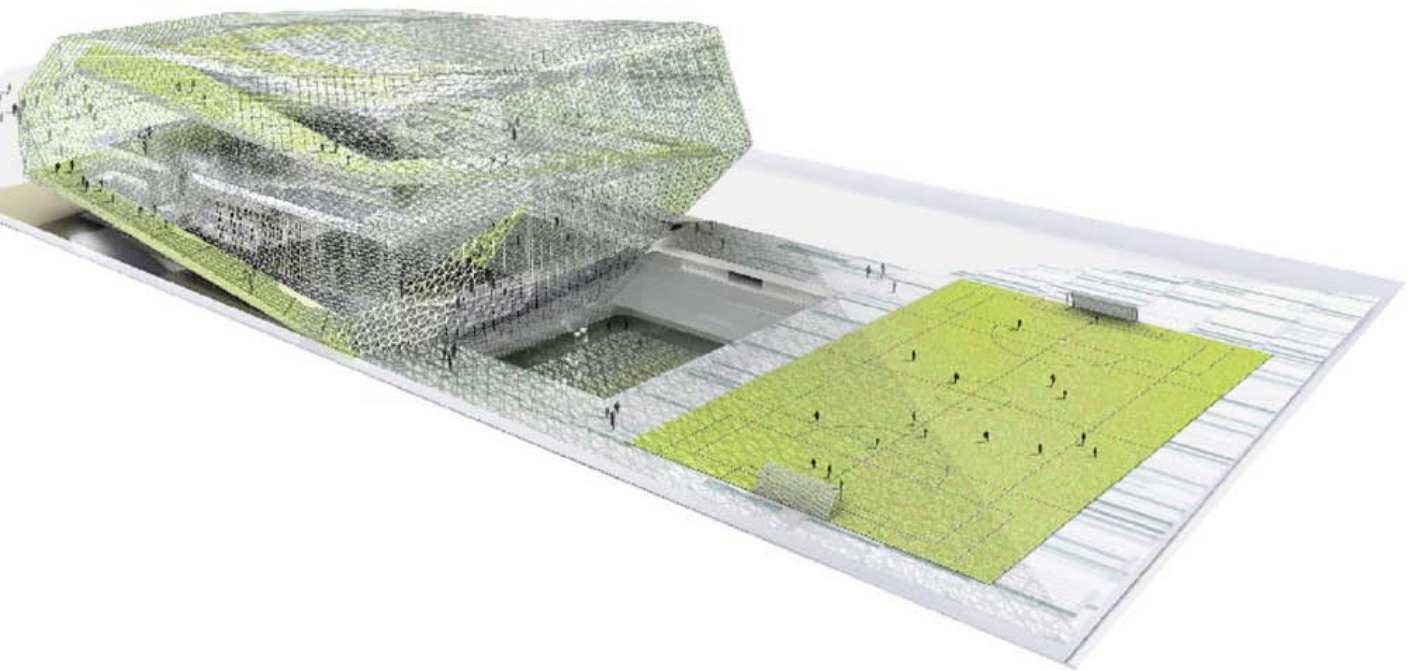
- **Project and installations works management** at the Montecelo Hospital in Pontevedra.
- **Technical Support for the Implementation Plan of the electrical installation of the Radiology Department** at the new Hospital Puerta del Hierro in Majadahonda, Madrid.
- **Building Project, Detailed Engineering and Technical Support for the contractor for the construction and start-up** of the new Hospital de Bata, Equatorial Guinea.
- **Installations and activity project for the Assisted Elderly Hospital in Vigo.**



Installation projects, singular buildings and urban installations:



- **Fire detection system at the Xunta de Galicia's San Caetano Complex.** Project design to reform the fire detection installation for the regional government's San Caetano administrative complex.
- **City of Justice's Facility in Córdoba:** Technical assistance for the project implementation of installations for HVAC, fire protection, plumbing and sanitation and ventilation of the car park (46,000 m²).
- **Project for the Facilities at the Industrial Estate of Cataboi, Porriño, Pontevedra:** Installation design for HVAC, fire protection, plumbing, sanitation and natural gas within a project of 40 facilities of the Industrial Estate.
- **Building project of the Industrial Estate of Cataboi-Porriño, Pontevedra.** Design for the electrical, fire protection, plumbing, sanitation and natural gas installation within the Industrial Estate project.
- **Olías del Rey Housing Estate, Toledo:** Design for the electrical, plumbing, sanitation and natural gas installation within the housing project.
- **Urban Installations development:** Humanization plan for the following streets of Vigo: Sagunto, Barcelona, Coruña, Bouzas and the Beiramar tunnel. Design of the electrical, sanitation and natural gas installation within the project of construction and humanization of streets.
- **Project for a new airport in Murcia:** Design of HVAC, electrical, fire protection, plumbing, sanitation and photovoltaic solar panels installation of the Terminal Building, SEI, Power Station.
- **Reform project of the Bank of Spain's Head Office:** Project of HVAC, electrical, fire protection, plumbing, sanitation and photovoltaic solar panels installation for the Inland Revenue and Land Registry depts. at the Bank of Spain head office.
- **Elevated passages project at the Campus of Vigo.** Development project of the electrical, voice and data network, car park and elevated passages installation.
- **Building project of a 30,000 m² Parking garage in Pontevedra.** Development project of the electrical, voice and data network, PA system, parking assistance, CCTV, fire protection, NBE-CPI (basic building regulation) and ventilation installation of an underground parking garage.
- **Tunnel Lighting Installation project for the A-52 Motorway.** Installation project for a 400 m tunnel in Tomiño, Pontevedra.



- **Lalín Arena multipurpose hall (10,000 m²), Lalín:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of a multipurpose hall, sports centre with basketball and athletics courts, gym, spa and offices.
- **Hortaleza Sports Complex (5,800 m²), Madrid:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym, spa and sports courts.
- **San Chinarro Sports Complex (10,200 m²), Madrid:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym, spa and sports courts.
- **Móstoles Sports Complex (6,700 m²), Madrid:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym and spa.
- **Segalerva Sports Complex (7,700 m²), Málaga:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym and spa.

- **La Florida Sports Complex (4,700 m²), Vigo:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym and spa.
- **Barreiros Sports Complex (5,200 m²), A Coruña:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym and spa.
- **Navia Sports Complex (6,200 m²), Vigo:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of a multipurpose hall, sports centre with basketball and athletics courts, gym, spa and offices.
- **Prados de la Fuente Sports Complex (11,000 m²), Oviedo:** Project of HVAC, electrical, fire protection, plumbing and sanitation installation of the sports centre with indoor and outdoor pools, gym and spa.

- **Technical Support to draw up the Vigo Airport's power supply reliability improvement Project:** detailed engineering for an electrical continuity unit implementation, reform of the Low Voltage Master Distribution Board and Substation Transformer of the Vigo Airport (AENA).
- **Hospital in Bata, Equatorial Guinea:** Contract with Isolux-Corsan to develop detailed engineering, buy list, assembly supervision and support to start up the Hospital installations with 72 beds, 3 operating theatres with HVAC installation, fire protection conditions (CPI), water treatment systems, central power supply from diesel generatos (2x1350kVa)...
- **Automation of the Propane Transfer Plant for Shell in Sober, Lugo:** Detailed engineering to implement process automation and remote management of the SHELL GAS Propane Transfer Plant.
- **HVAC Management System of the Montecelo Hospital Phase III in Pontevedra:** detailed engineering for the Air Treatment Control Units, VAV boxes, Fan-coil units, Inductors and Pumps Subcentral controlled by MCR type switches and SCADA XBS integration.
- **Pontevela Shopping Centre Management System, Ourense.** Detailed engineering for a management system for the whole shopping centre, consisting in an Allen Bradley's SLC500 automatons network to manage power, lighting and a diesel generator, as well as a Siemens PRU automatons network to control HVAC. A Rockwell's SCADA RSView supervises all process, controlling the SLCs directly and the Siemens automatons through an OPC server.





• **Aranjuez Plaza Shopping Centre, Aranjuez, Madrid:**

Technical support contract to form an ECOP (Private Construction Coordination Team) consisting in three architects, two installation engineers and two assistant-supervisors, as well as revising the architectural and installations project of all business premises (200 units; 50,000 m2 GLA)

• **L'Anec Blau Shopping Centre, Castelldefells, Barcelona:** Technical support contract to form an ECOP (Private Construction Coordination Team) consisting in three architects, two installation engineers and two assistant-supervisors, as well as revising the architectural and installations project of all business premises (140 units; 28,000 m2 GLA).

• **Estación Marítima Leisure Centre, Harbour of A Coruña:** Technical support contract to supervise the installation of the common services and form an ECOP (Private Construction Coordination Team) consisting in an engineer and two assistant-supervisors, as well as revising the architectural and installations project of all business premises (40 units; 11,500 m2 GLA).

• **Pontiñas Shopping Centre, Lalñin, Pontevedra:**

Technical support contract to form an on-site ECOP (Private Construction Coordination Team) consisting in an architect, an installations engineer and an assistant-supervisor, as well as revising the architectural and installations project of all business premises (70 units, 14,100 m2 GLA).

• **Gran Vía Shopping Centre, Vigo:** Technical support contract to form an ECOP (Private Construction Coordination Team) to revise the achitectural and installation projects of new business premises.

Projects and Technical Support at Shopping Centres



- **A Laxe Shopping Centre, Vigo:** Technical project to regularize the low/high voltage electrical installation of the shopping centre at the international docking bay.
- **A Laxe Shopping Centre, Vigo:** Technical assistance to help the contractor to revise the installation projects.
- **L'Anec Blau Shopping Centre, Castelldefells, Barcelona:** Electrical installation project and ICTs (Telecommunications Standard Infrastructure).
- **Pontevella Shopping Centre, Ourense:** Electrical installation project and ICTs (Telecommunications Standard Infrastructure).
- **Pontiñas Shopping Centre, Lalín, Pontevedra:** Technical support to help the contractor with the preliminary plans to reserve space and define installations systems.
- **Adaptation and operation project of business premises at shopping centres** (Cafeterías Jamaica, Tiendas Celio, Mango, Calzedonia...)