



SOLUTION NOTE

PUERTO MAZARRON SUBSTATION

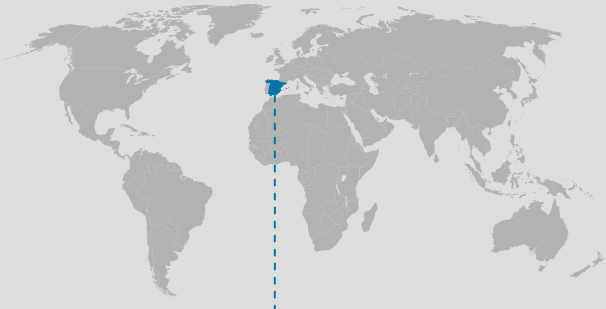
Iberdrola (Spain)

PUERTO MAZARRON SUBSTATION SOLUTION

The province of Murcia has been the fastest growing energy consumer in Spain for the last three consecutive years and Iberdrola has invested over 300m€ over the last decade. These investments have been translated into a 20% improvement in the quality of energy supply and a benchmark for other utilities operating in Spain.

One good example of this is the addition of a new 40 MVA substation in Puerto Mazarrón to complete a 42 substation base and over 20.000 km of distribution power lines to provide energy to approximately 850.000 customers.

DUE TO » 2010
CLIENT » Iberdrola
LOCATION » Murcia, Spain
SOLUTION » Complete Substation Solution
SEGMENT » Utility (UTI) - Transmission & Distribution



ORMAZABAL ORMACONTAINER:
 TURNKEY MOBILE MEDIUM VOLTAGE (MV) CONTAINER UP TO 36 KV

Enclosure Type:
Metallic

Installation:
No need for civil works

Transportation:
No need of special transport



ORMAZABAL CPG.0:
 FIXED MOUNTED, SINGLE BUSBAR,
 GAS INSULATED SWITCHGEAR UP TO 36 KV

Switchgear Type:
Circuit Breaker Panel (V)

Electric Data:
24 kV – 2000 A – 25 kA

Scope of Supply:
8 Cubicles



ORMAZABAL ekorRPS:
 MULTIFUNCTIONAL PROTECTION UNIT

Characteristics:
Multifunctional protection, control and measurement relay



ORMAZABAL Substation Solutions:
 Remote Terminal Unit (RTU), Current (CT) And Voltage (VT) Transformers, Cable Connectors, Accessories and Spares

THE CHALLENGE AND THE SOLUTION

While drafting the new substation project, Iberdrola defined the necessity of having a temporary installation which would reduce the amount of hours of energy outage during construction. At the same time, another goal was to have an auxiliary substation that could easily service this and other substations in the region during high energy demand seasons, when eventual incidences occur and during maintenance labours once the substation was fully operating.

Thanks to Ormazabal Solution, the client obtained the following benefits:

- No need for civil works or special transport during the transportation and installation
- Tailor made solution
- Plug & Play philosophy: Upgrades and reconfigurations of electrical schemes in minimum time
- Ultra safe switchgear, internal arc tested according to international standards
- High reduction of the amount of hours of energy outage during construction