



Nicholas O'Dwyer  
CONSULTING ENGINEERS

## CONOCO PHILIPS REFINERY SUB-STATION

Construction of a new 110kV sub-station

**Client: Conoco Philips**

### SUMMARY:

**Value:** €1.0 million  
**Electrical Engineer:** ABB  
**Status:** Complete

**Services Provided:**  
Tender Documentation / Tender Review  
Detailed Design  
Construction Management

Nicholas O'Dwyer were employed by ABB as lead civil / structural engineers and Construction Manager for the civil / structural works. Nicholas O'Dwyer also had direct responsibility to the client in terms of tendering documentation and evaluation.

The project involved the construction of a new 110kV to 20kV client sub-station including transformer bunds, pylon foundations, plinths, roadways, drainage and all civil engineering works. Nicholas O'Dwyer were also responsible for all cable phasing drawings and diversions into existing sub-station building.

Construction works took place adjacent to the existing 'live' sub-station and included very carefully planned works during a limited two week shut-down period at the refinery. Although strictly outside the refinery boundary, the client insisted on full implementation of their health and safety policy for works in a restrictive environment.

