

## **33. Zona Franca – Gran Via L’Hospitalet power plant**

### **MUNICIPALITY**

Barcelona

### **HEADING**

The new Marina district of El Prat Vermell and adjacent areas are to incorporate the most efficient and least contaminating energy services.

### **DESCRIPTION OF PROJECT**

After the mandatory international tender, on 26 June 2009 the design, legalisation, construction and management of the Zona Franca-Gran Via L’Hospitalet power plant was definitively awarded to DALKIA.

The network will be managed by the company registered in Companies House as Ecoenergies Barcelona Sud, Zona Franca i Gran Via l’Hospitalet, SA, constituted by the award winner together with IDAE, ICAEN and Barcelona City Council.

The modular project consists of three phases:

Phase 1 – Construction of the heating and cooling power plant at La Marina (24 MWf and 12 MWt) and the biomass plant (1.32MWe or 4.9MWt) recycling plant waste from Barcelona Parks and Gardens on the site of the former SEAT thermal plant in the Zona Franca district. Aim: to supply energy to some users in 2011 and recycle plant waste for energy generation.

Phase 2 – Construction of the heating and cooling power plant (21MWf and 35MWt) on the same site as the biomass recycling plant, and construction of the plant (30 MW from a 6-module system) to recover cold from the ENAGAS regasification process, as well as the transport system for the Zona Franca plant.

Phase 3 – Development of the distribution network for heating (hot water at 90°C) and cooling (cold water at 5°C) from the Zona Franca plant. Aim: to provide an energy supply to the new district of La Marina.

### **ECONOMIC AND TECHNICAL DATA**

- Expected date for coming into service: 2011
- Total investment forecast: €69.3 M
- In 2023, 113.8 GWh/year of thermal (hot and cold) energy will be supplied through the network, saving the emission of 13,412 tonnes of CO<sup>2</sup> per year

### **PROJECT ADDRESS**

[www.teresa.cat](http://www.teresa.cat)

[www.barcelonaenergia.cat](http://www.barcelonaenergia.cat)

### **RESPONSIBLE**

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