

800 MW INTEGRATED GASIFICATION COMBINED CYCLE

POWER

PIEMSA (Repsol)
Petronor Refinery in Bilbao - Spain



**COMPLETION
DATE 2000**

PROJECT DESCRIPTION

800 MW Integrated Gasification Combined Cycle Plant to be located close to the Petronor Refinery in Bilbao (Spain). The plant includes:

- a 195 t/h visbroken vacuum residue gasification unit based on two GE (ex Texaco) quench gasifiers including carbon recovery and grey water treatment, syngas cooling and conditioning, H₂S scrubbing, oxygen claus sulphur unit, air separation unit;
- a 900 MWe combined cycle power plant consisting of no. 2 gas turbines GE FR 9 FA, no. 2 Heat Recovery Steam Generators, no. 1 Steam turbine with water condenser;
- utilities and offsites.

The combined cycle power plant is fed with the syngas produced by the gasification unit.

FOSTER WHEELER ITALIANA SCOPE OF WORK

Feasibility Studies

- Selection of the gas turbines, and of syngas sweetening technology
- FEED (Front End Engineering Design) executed
- Investment cost +/-10% with inquiries issued for major packages
- Contractual approach strategy
- Environmental Impact Study