

755MW CCGT Power Plant Amorebieta, Spain



Client	Bizkaia Energia SL
Dates	2004 – present
Project Type	Investment (Power Plant), Engineering (Owner's Engineer), Operations and Maintenance (O&M)

Description

ESBI owns the Amorebieta power plant jointly with Osaka Gas of Japan. This is the first internationally-owned power plant to be developed in Spain. It is financed and supported by a consortium of international financial institutions, and represents the largest ever inward investment in the Basque region. With a capacity of 755MW, the plant can supply 30 per cent of the energy needs of the region. Commissioned in Autumn 2005, the plant uses the latest large-scale gas turbine technology.

By using cleaner fuel and high-efficiency technology, it offers substantial benefits in terms of improved environmental performance and competitively-priced electricity. ESBI has been involved in Amorebieta from the very start of the project: from the identification of the investment opportunity, through design, planning and construction, to operation and maintenance.

Services

ESBI is contracted to continue the management of the plant's operation and maintenance through to 2026.

Services provided by ESBI on this project include:

- Project development activities;
- Full environmental and planning consultancy;
- Development of the engineering, procurement and construction (EPC) tender request package through to placement of the EPC contract;
- Project and contract management;
- Complete engineering support during all phases of the project;
- Site management and quality surveillance;
- Commissioning and testing management and
- Operation and Maintenance

Technology

The plant consists of 2 x General Electric 9FA PG9351 gas turbines and 1 x Alstom steam turbine. The plant has 2 x Doosan horizontal gas-flow natural circulation HRSGs and 3 x GE generators.