







ALBA 1,792 MW PS5 CCGT & POWER DISTRIBUTION NETWORK

ESB International is responsible for the specification, tender negotiation leading to contract award, design review, Project and Construction management, safety and commissioning supervision of the ALBA PS5 CCGT power plant project and associated Power Distribution Network



Power Generation Engineering

Start Date - End Date 2015 - 2020

Client Name
Aluminium Bahrain B.S.C. (Alba)

Duration of Assignment **5 years**

BACKGROUND

Following the appointment of ESB International in September 2015, the EPC consortium of GE/GAMA was issued with Notice to Proceed in August 2016. The combined cycle gas turbine plant consists of 3 x GE 9HA01 gas turbines and achieved commercial operation in 2019. These "H" technology gas turbines are the first of their type in the Middle East and the first application in an aluminium smelter.

In a parallel procurement process Siemens was appointed to supply and install new 220 kV and 33 kV sub-stations and associated transformers/ reactors as well as a Scada system for the new power distribution system.

The existing Alba Power Distribution network is also incorporated into the new Scada system.

Recently, in Feb 2022, ESB International have also now been appointed as Engineering, Construction and Management (ECM) Consultant by Alba for a CCGT 4th Block to be added to PS5, this time utilising the latest MHI Gas Turbine technology. Notice to Proceed is expected in April 2022 for this project.

THE SERVICES WE PROVIDED

- > Project development activities
- > Management of project planning
- Specification preparation, tender evaluation and EPC contract Award
- > Management of site preparation
- > Detailed engineering design review
- > Project construction & commissioning supervision
- Complete engineering support during all phases of the project
- > Site management, safety management and quality surveillance
- > Project closeout and Warranty services

WE SHOULD BE TALKING TO EACH OTHER

To discuss your Power Generation needs, please get in touch with ESB International at the contact points below.

ESB INTERNATIONAL

One Dublin Airport Central Dublin Airport Cloghran County Dublin Ireland K67 XF72

Tel +353 (0) 1 703 8000 Fax +353 (0) 1 703 8088

Email marketing@esbi.ie Web www.esbinternational.ie

ESB INTERNATIONAL

Oman Office
Office 206
2nd Floor
Holiday Inn
Al Mazoon Street
South Al Mawaleh
Muscat
P.O. Box, P.C. 118
Sultanate of Oman

Tel: +973 (0)17 708 118

ESB INTERNATIONAL

Bahrain Office Office 1002 Building 655 Road 3614 Block 436 Seef District Kingdom of Bahrain

Tel: +973 (0)17 708 118 Fax: +973 (0)17 700 115





