



Project:
Airbus North

Value:
£15 million

Completion date:
2010

Main Contractor:
Morgan Sindall

Client:
Airbus UK

Project Summary:
A new 50,000m² building that will provide a construction location for aerostructure components for leading aircraft manufacturer, Airbus.

Case Study **Airbus**

Balfour Beatty Engineering Services completes £15 million M&E services installation at new Airbus North Factory

For the wing manufacturing facility at the new Airbus North Factory in Broughton, North Wales, Balfour Beatty Engineering Services (BBES) utilised its prefabrication and off-site modularisation capabilities to deliver the full mechanical and electrical services solution within an 18 month timeframe.

Working with main contractor Morgan Sindall, BBES secured the contract at the new 50,000m² facility by showing that its Modular Systems + division could deliver a number of time and cost savings. Under the Modular Systems + brand, BBES has developed and created an innovative range of modular building services and off-site solutions that can reduce the number of working hours on site, as well as significantly reduce hot works and working at height requirements.

As part of the project, BBES' Modular Systems + division supplied a fully clad 250m² prefabricated plant room weighing over 100 tonnes, delivered and installed in seven separate pieces as well as more than 100 horizontal service modules measuring 8.75m long, all built at the off-site manufacturing facility in the carefully controlled factory environment, before being assembled on site.

Using lean manufacturing processes and off-site fabrication, BBES promotes sustainability throughout the company's working practices. To maintain this, the full services installation delivered by Modular Systems + incorporated renewable energy technologies and low emission systems including a solar hot water system on the roof of the plant room – generating 30% of the facility's domestic hot water.

BBES also provided the full electrical infrastructure for the facility by extending the site's high voltage ring main to supply each quarter of the building with its own external 1.5Mva 11kV transformer and main switchboard.



**Balfour Beatty
Engineering Services Limited**

Unit 4, Woods Bank Estate,
Woden Road West,
Wednesbury, West Midlands
WS10 7SU

Tel +44 (0)121 568 2800 Fax +44 (0)121 568 2777
Email enquiry@bbesl.com

www.bbесl.com