

# Marchwood 850MW CCGT Power Plant UK



<b>Client</b>	Marchwood Power Limited (ESBI and Scottish & Southern Energy)
<b>Dates</b>	2004 – present
<b>Project Type</b>	Investment (Power Plant); Engineering (Owner's Engineer)

## Description

ESBI redeveloped the former power station site at Marchwood industrial park to an 850MW Combined Cycle Gas Turbine (CCGT) power plant.

## Services

In advance of construction, ESBI conducted a technical and environmental due diligence study, with consideration of the EU's Large Combustion Plant Directive and Emissions Trading Scheme. The proposed plant was also evaluated in terms of its competitiveness in the UK market and the charging implications arising from its location on the electricity and gas transmission systems.

In November 2003, ESBI purchased Marchwood Power Ltd. Construction commenced in 2007 and was handed over in late 2009. At the height of the construction programme, up to eight hundred people were involved in building the new station.

ESBI will provide Owner's Engineer services during plant construction. Once commissioned, ESBI will act as the Operation and Maintenance contractor for an initial twenty-year period.

## Technology

The plant consists of 2 x Siemens V94.3A Gas Turbines, 1 Siemens KN steam turbine in a 2:2:1 combined cycle configuration. The plant uses direct sea-water cooling and is connected to the National Grid 400kV system.