

## Project Description

EGGER Barony is one of Ayrshire's biggest employers and a significant user of energy. The site produces around 400,000 m<sup>3</sup> of raw chipboard on an annual basis. The energy consumption at the site is driven by process requirements with a small percentage related to the operation of the factory offices.

The client requirement was to undertake a two stage energy supply options study. The focus of the Stage 1 project was to identify suitable technologies that could be taken forward for further detailed evaluation.



## Project Details

- Project carried out in 2017
- Deliverables include both a detailed technical study and face to face presentation of findings to site team and wider EGGER management

## Contact

- John Barclay
- [john.barclay@itpennergised.com](mailto:john.barclay@itpennergised.com)
- +44 (0) 7881 385633

## STAGE 1 LOW AND ZERO CARBON ENERGY SUPPLY STUDY

### Our Role

ITPenergised (ITPE) worked with site management team to identify and evaluate low and zero carbon energy options for the site. The feasibility assessment considered the potential for a number of technologies including:

- Gas fired CHP - turbine/engine
- Wind turbine generation – on site or adjacent land
- Solar PV
- Solar thermal
- Fuel cells - central or decentralised
- Energy from Wood – gasifier or anaerobic digestion
- Energy storage
- Biomass boiler or direct biomass firing
- Biomass CHP; gasifier or turbine
- Heat pumps
- Geothermal
- Discounted at proposal stage - wave, hydro, tidal, P2G and absorption cooling

The findings of the evaluations were presented in a review report which considered each technology in the context of criteria including:

- Benefits
- Barriers
- Incentives available
- Technology maturity/risk
- Supply chain maturity and after sales support
- High level costs and typical ROI

### Client

**EGGER Barony, Scotland**

**[www.ITPenergised.com](http://www.ITPenergised.com)**