

## ***Bioenergy in Use***

### **Ince Biopower Ltd – Using Gasification of Waste Wood to Produce Energy**

Ince Biopower Ltd, located near Ellesmere Port in Ince, Cheshire, is the largest plant of its kind operating in the UK. It uses advanced thermal treatment (ATT) technology – otherwise known as gasification – which is an alternative to incineration that turns waste into a combustible gas by heating it in a low-oxygen environment.



The plant uses waste wood to generate low carbon energy, though the technology can also be used to gasify municipal waste and refused derived fuel. Each year, Ince will process up to 170,000 tonnes of waste wood, converting this fuel into syngas and generating 21.5MW of electricity, enough to power over 40,000 homes.

The plant will deliver a net reduction in greenhouse gas emissions worth around 65,000 tonnes of CO<sub>2</sub> per annum, the equivalent of taking more than 40,000 cars off the road. Around 150 jobs were created during the construction of Ince Bio Power. The plant will be operated and managed by about 25 full-time employees. The knowledge accumulated during the project will help to develop gasification technology, such that it can be used to synthesise fuels which can be used in more advanced applications uses beyond electricity generation.

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