

Planning for Climate Change Case Study



Green Frog Power, Hull

- **Local authority area:** Hull City Council
- **Stakeholders:** Green Frog Power, CO2Sense

Summary

CO2Sense Yorkshire gave Green Frog Power £200,000 to help set up their power plant, which generates green electricity from the combustion of liquid biomass fuels.

Background

- Generates electricity using liquid biomass fuels
- Will save 124,000 tonnes CO2 over ten years
- Can produce power for 4000 homes
- Heat generated by plant is sold to local business
- Created 12 jobs

Method

- The Green Frog Power Plant uses Gphase, a by-product of biodiesel productions and waste from vegetable oil that has been traditionally sent to landfill. The Gphase can usually be secured at no cost. Once Green Frog have collected the oil, it can be converted into valuable fuels. Some of this is used for energy generation, with the rest sold as a component for biodiesel production by local businesses.
- The plant has been built on an old, previously derelict industrial site, and has also created 12 jobs for the region. The Hull region has a long history of oil-related businesses, and so Green Frog Power has been able to draw on this pool of expertise.
- The plant is producing clean electricity, whilst bringing new industry and opportunities to the area.

Result - Key outcomes and impact

- Green Frog Power based in Hull was commissioned in March 2010. The plant will save 124,000 tonnes CO2 over 10 years and is set to generate enough electricity to power 4,000 houses every year.



- As well generating electricity, the plant also has the opportunity to sell heat produced during the combustion process to a nearby tannery business. This will replace 70% of the gas the tannery currently uses to generate heat for the business' operations.
- There are plans to roll this technology out across the North, where a further 12 plants that could benefit from a renewable source of heat have already been identified.

Key contact

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