

Green Frog Power

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



The heat generator at Green Frog Power

Green Frog Power based in Hull was commissioned in March 2010. Once fully operational, the plant will save 124,000 tonnes CO₂ over 10 years, and is set to generate enough electricity to power 6,480 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 consumes to generate heat for the businesses' operations.

Renewable Energy

- Generates electricity using liquid biomass fuels
- Will save 124,000 tonnes CO₂ over ten years once operational
- Can produce power for 6,480 homes
- Heat generated by plant is sold to local business
- Created 12 jobs

“By sitting Green Frog’s plant next to other businesses with a need for heat generated by our process, we are able to further cut energy use and carbon emissions. It makes both sound financial and environmental sense.”

Mr. Jeremy Taylor – MANAGING DIRECTOR – GREEN FROG POWER

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 has 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.

“ Green Frog Power is turning a waste product into a high value fuel, generating electricity, and providing a heat source for a neighbouring business. It also reduces carbon emissions and reduces the need for fossil fuels. It’s a great example of how renewable energy projects make commercial and environmental sense. ”

Jemma Benson – PRINCIPAL CONSULTANT – CO2SENSE

CO2Sense Principal Consultant, Jemma Benson, says, “Green Frog Power is turning a waste product into a high value fuel, generating electricity, and providing a heat source for a neighbouring business.

It also reduces carbon emissions and reduces the need for fossil fuels. It’s a great example of how renewable energy projects make commercial and environmental sense.”

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.

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.

Green Frog Managing Director, Jeremy Taylor, says, “By sitting Green Frog’s plant next to other businesses with a need for heat generated by our process, we are able to further cut energy use and carbon emissions.”

“It makes both sound financial and environmental sense.”



The engine used to generate electricity

CO2Sense was established by Yorkshire Forward to help businesses in the region to prosper in the low carbon economy.

We provide expertise and funding to help environmental companies to grow. We work with partners to help all organisations to fund and develop initiatives that reduce their carbon emissions.