Planet

CIRCULAR ECONOMY

What are we doing?

We utilise 100% of by-products from our beef processing plants to generate renewable electricity, heat, fertiliser, bio-diesel and biomass fuels.

Our 'farm to fork' cattle process is a closed loop system that utilises by-products that would otherwise be disposed of as waste. The final products from our closed loop system integrate back into our processes as well as other agricultural, commercial and industrial purposes. These products reduces reliance on extracted fossil fuels.

Foyle Bio – This is our anaerobic digestion business. We utilise waste from our water treatment works to make biogas. We then burn this biogas as a renewable fuel to generate electric and heat for our factories. Once this bio materials are processed a solid bio material remains in the tank. We pasteurise these solids and make it into a valuable fertiliser which our producers use to sustain the grass pastures our cattle thrive on.

Foyle Proteins – This is our animal by-product rendering business. We utilise animal by-products that are not fit for human consumption and would otherwise be sent for disposal.

The primary product is tallow oil which is used to make bio-diesel. This bio-diesel is used in combustion engines as an alternative to extracted oil products.

A further product from our process is solid biomass. This biomass is used as a renewable fuel in large industrial processes such as incinerators, smelting plants or steel works. As an alternative to solid fossil fuels such as coal, it again reduces reliance on extracted fossil fuels.

Did you know…

A litre of bio-diesel has a smaller Carbon Footprint than mineral diesel – 94% less $kgCO_2e$ per litre.

A kWh of biogas has a smaller Carbon footprint than natural gas – 99.9% less $kgCO_2e$ per kWh.

A kWh of electricity produced from burning biogas has a smaller Carbon Footprint than the UK grid national average – 99.9% less $kgCO_2e$ per kWh.

Source - 2020 UK Government GHG Conversion Factors for Company Reporting