ST CUTHBERTS MILL RESEARCH AND DEVELOPMENT SITE FAQ

What is Pyrolysis?

Pyrolysis is decomposition of material brought about by high temperatures. It is not the same as incineration, due to the absence of oxygen.

It is a transformative (rather than destructive) process which deconstructs waste in the absence of oxygen breaking it down to release energy and recover by-products for recovery or potential re-use, also making it an ideal solution for the plastics that cannot be mechanically recycled.

Who are PyroCore?

PyroCore are based locally in North Somerset, in Portishead.

As an innovative leader in small scale, UK built, future-ready pyrolysis solutions, PyroCore can eliminate the need for landfill; reduce the carbon emissions of businesses; cut waste, raw material and energy costs; and elevate the Corporate Social Responsibility (CSR) of companies.

PyroCore aims to manage discarded materials in a transformative way, deriving maximum economic and environmental value.

What is the R&D site for?

The St Cuthbert's Research & Development (R&D) site planned is a containerised and compact solution (illustrated below) and will be on the site for a maximum of twelve months.

These units are intended for deployment into disaster zones and isolated communities.

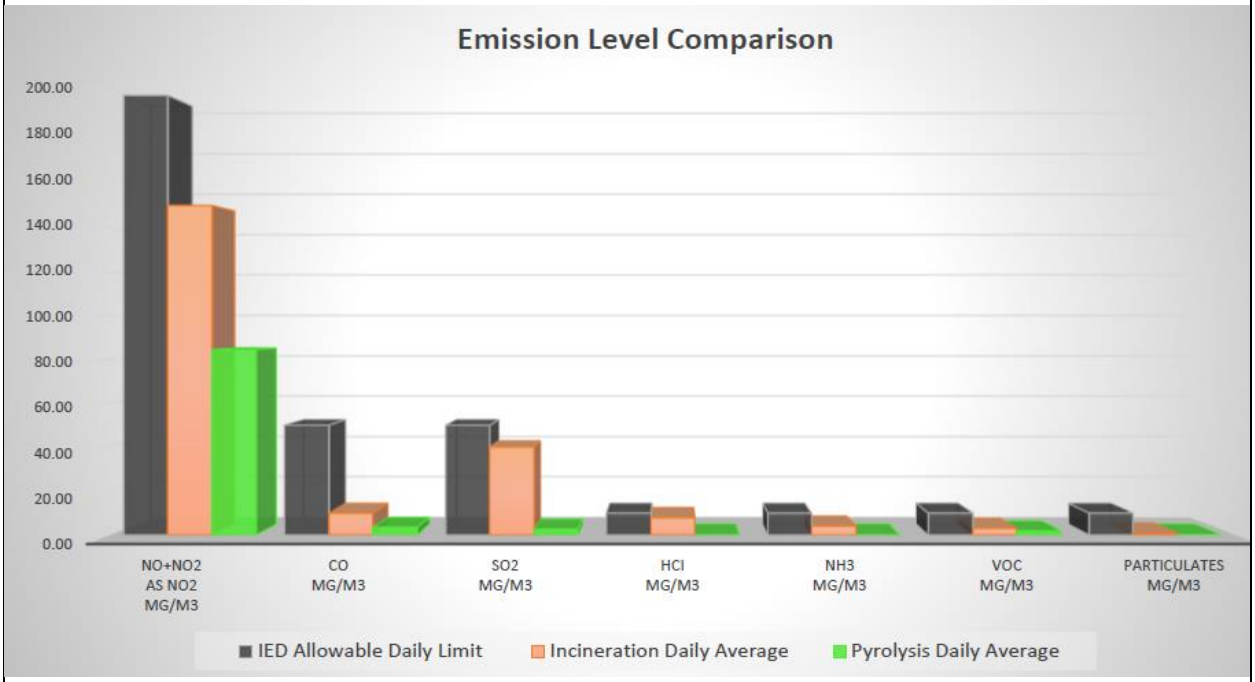
We are working on with prominent universities in pursuit of Zero Emissions Equipment (ZEE) and will be processing clean plastic from the packaging industry and typically reducing volumes of waste by 90-95%.

What emissions will the process emit across the local area?

Our emissions are insignificant from this plant.

We do not produce dioxins and the emissions are continuously monitored using an industry standard Continuous Emissions Monitoring System (CEMS).

The units themselves are self-contained and the chimney that is used in the process is designed to release a small amount of steam and heat, so there will be no threat of dangerous pollutants blowing across the local countryside.



How much waste will be transported to the site?
There will be a maximum of 50 tonnes of waste transported to the site over the 12-month period. In terms of vehicle movements, this equates to one short wheel-based HGV truck entering the site via the St Cuthbert's Mill entrance per week (maximum) and there will be no HGVs passing through LA Moore's yard.
Is this a permanent site?
No, this site will be used for a maximum of 12 months, until our permanent facility is available. The site is fully reversible and dismantlable, as they are designed to be deployed to isolated communities and disaster zones. There is no lasting impact on the location.
What is Carbon char?
Carbon char is a by-product of the pyrolysis process. It is a carbon rich solid. A fraction of the volume processed remains and can be sequestered in several ways to avoid landfill.
Will there be any odour?
No, the pyrolysis process does not create an odour, and feedstock deliveries will drive into an enclosed building. All the material handling systems are also fully enclosed.
Will the site be noisy?
No – the pyrolysis unit operate at around 80Db.
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