

PRESS RELEASE

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Gemidan's new Frederikshavn facility uses rain water to 'clean up' food waste for AD industry

The latest ECOGI centralised food waste pre-treatment facility is now open and fully operational. This new facility is built on a 10,000m² site next to the thermal EfW plant in Frederikshavn, Denmark.



The new facility is owned and operated by the Gemidan waste management group. The facility has a processing capacity of over 50,000 tonnes. Feedstocks will include source separated food waste from homes, industry and businesses in the area.

The feedstock processed produces an 'ultra-pure' substrate for conversion to biogas by local AD plants. This substrate is at least three times cleaner, in terms of physical contamination from plastic, than is required under the already very stringent Danish regulations.

Process flexibility and substrate purity were just two of the key performance objectives when developing ECOGI. The pre-treatment technology was independently performance tested throughout it's six-year development and has been proven to be very effective in processing more highly contaminated feedstocks which include plastic, glass and metals. Substrate purity has also been independently verified at 99.96% free from non-organic physical contamination.



More than half of the water needed by ECOGI to process food waste inputs is salvaged rainwater. It is estimated that 5,600m³ of rain water per year will be harvested on site and stored in a 1,300m³ capacity lagoon. Special separators will remove sand from the rain water prior to use in the pre-treatment process.



Rune Nyhuus, Director of Gemidan Group said 'Gemidan have spent 6 years perfecting ECOGI as a top performing food waste pre-treatment technology. The Gemidan group is now operating two commercial facilities using the ECOGI technology to produce high quality substrate for AD operators in Denmark'. Rune went on to add 'Environmentally we are supporting the circular economy, preventing plastic from polluting farm land and helping to conserve water'.

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