

Proposed biogas plant

Cycle0

We are planning to build a biogas plant in Kellysgrove, Ballinasloe Co. Galway. This leaflet explains more about the benefits of this plant and answers frequently asked questions about biogas plants and biomethane production.

The plant will process only agri-centric waste, using anaerobic digestion (AD) to help reduce on-farm emissions, manage nitrates and generate renewable natural gas for Ireland.

Ask your questions

We're holding a virtual townhall meeting for local residents where we'll share more detail on our plans and answer your questions.



Scan for more details.





Why Ireland needs biogas

Producing biogas with AD helps to reduce greenhouse gas emissions by managing organic waste, especially from farms, more efficiently.

The Climate Action Plan 2030 and the Biomethane Strategy 2024 set a target of generating 5.7TWh of indigenous biomethane in Ireland. To achieve this target, 150-200 biogas plants like this will need to be built.

These plants will help local farmers to manage their slurry, manures and nitrates and will contribute to a reduction in greenhouse gases being released.

Key plant features:

-  Modern odour control technology that significantly reduces odours
-  Built-in safety features, advanced monitoring and robust safety training and management
-  Mitigation of any small increases in traffic, detailed in our planning application
-  Licence to operate governed by DAFM and the EPA. Best available technologies used.

Zero

Health risk

No hazardous substances or materials are associated with the facility

100%

Gas grid injection

No trucks delivering gas with 100% injection direct into the gas grid

10

Local jobs

Local green employment opportunities during construction and operation at the plant

Learn more



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Biogas plants FAQs

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We're CycleØ. We are a European company with plans to build 4 anaerobic digestion (AD) plants in Ireland, producing a total of 160GWh of renewable natural gas a year, enough to heat 12,000 Irish homes. We operate plants in Spain and built the first private gas grid injection point on the Spanish gas grid.

We are funded by Ara Partners, a sustainability-focused investment fund based in Ireland and the US. We have a small team based in Ireland, which will grow as we build.



A typical biogas plant design for Ireland - scan to take a virtual tour



Biogas plants FAQs

+ What about smells, noise and traffic?

We follow strict environmental and planning standards, and will use an odour control system to significantly reduce smells. Our solid feedstock is stored in airtight containers under negative pressure, which retains odours in the building.

Trucks will deliver our feedstock with the use of tractors limited as much as possible. Deliveries will be received on the site without the need for queuing along local roads. Spreading digestate, (the organic by-product of the AD process) on fields instead of slurry, creates less odour and reduces the risk of run-off into nearby water courses.

+ How safe are biogas plants?

Well-designed, modern biogas plants present a low safety risk. Our plants are built with safety as a priority and include features such as advanced monitoring, robust ventilation and explosion-proof equipment. We regularly train our staff, adhere to all standards and have robust emergency procedures to further enhance safety.

+ What about my local environment?

Our plans undergo detailed environmental impact assessments, with sites planned to minimise impact on nearby buildings, and to protect wildlife, rural and scenic areas of beauty, biodiversity or ecosystems. We screen our plants by planting trees around them to help blend with the natural surroundings.

Our plants will only process agri by-products, with no food waste managed at our sites. We'll have set operational hours with staff on-site at all times.

+ What about property prices?

There is no evidence that the presence of a biogas plant has a negative effect on house values in Ireland.

+ Will water courses be affected?

The plant will be self-sufficient in water and our offices, silos and shed rooves are designed to capture rainwater. Our attenuation pond is designed to hold rain from a 1 in 100 year weather event.

Learn more



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