

May 2026

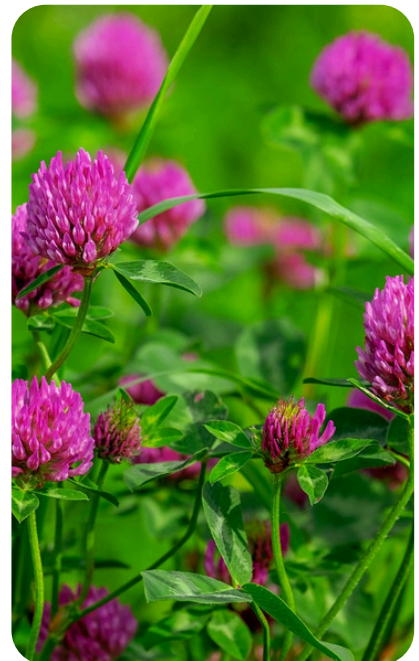
Bioenergy

Each month we review the latest news and select key announcements and commentary from across the bioenergy sector.



**Announcements
& Commentary**

**Research &
Development**



Providing clients with a strategic view of feedstock, technology, policy and marketing opportunity across the bioeconomy.



Welcome readers, to this month's Bioenergy News Review.

This month's Bioenergy headlines underline a biogas sector that is maturing fast with signals coming from different corners of the global biogas market. The deal between Centrica Energy, Bord Gáis Energy, and Stream BioEnergy illustrates how important offtake agreements are in new capacity deployment. The Cork facility - set to become Ireland's largest biomethane plant processing municipal food and garden waste when it opens in 2027 - will process 90,000 tonnes of organic waste annually and deliver 80 GWh of unsubsidised biomethane into the gas grid. Centrica's commitment to offtake the entire output and manage the associated green certificates provides the revenue certainty that project finance requires, and signals that sophisticated energy traders now view biomethane as a credible, bankable commodity. For Ireland, which remains well behind its 2030 biomethane targets, deals of this kind are exactly the mechanism needed to unlock investment at scale.

Maturity also brings portfolio discipline. Air Liquide's decision to divest its biogas production activities in the United States, France, Norway and Sweden - transferring them to Mobius Renewables - is a case in point. For a company whose core identity is built around industrial gases and engineering services, biogas production is an adjacent activity rather than a strategic heartland. The transaction includes multiple landfill gas-to-RNG sites in the US, farm-based plants in France, and interests in Nordic assets, illustrating how established players are actively optimising portfolios while dedicated renewable energy platforms consolidate and expand. The divestiture is not a retreat from the energy transition; it is a recognition that dedicated operators can unlock more value from these assets than a diversified industrial conglomerate. Mobius Renewables, receiving a portfolio of production units and distribution assets across four markets, inherits a meaningful platform from which to grow.

Technology providers also continue to advance. In Brazil, Greenlane Renewables has signed definitive agreements with Panasonic do Brasil to localise production of its next-generation Cascade LF landfill gas upgrading technology. The partnership is thoughtfully structured: Panasonic contributes manufacturing expertise, facility investment of 8-10 million Brazilian Reals, and balance sheet strength; Greenlane retains design authority, supply chain management, and commercial relationships. The goal is to be shipping the first locally produced system before the end of 2026. Brazil's biomethane sector is projected to expand sevenfold by 2035, driven by vast organic residue streams, a tropical climate well-suited to methanogenesis, and an established culture of biofuels innovation.

In the United States, the American Biogas Council announced that 15 more operators have earned their Certified Digester Operator designation this spring, bringing the national total to 75. It is a modest number in absolute terms, but the programme - the only one of its kind in North America - represents something more important than the headcount: a formalisation of operational knowledge that has historically lived in individuals rather than institutions and underlines the need for properly trained personnel in an increasingly expanding market.



The curriculum, developed and delivered by experts from both industry and academia, equips operators with the essential technical skills needed for safe, efficient, and successful long-term careers in the biogas sector. To achieve certification, candidates must complete the Operator School training program, demonstrate a minimum of 2,000 hours of relevant operational experience, and hold valid certifications in first aid, confined space entry, and lockout/tagout before sitting for the final exam.

Read on for the latest news

Policy

Hawaii legislature passes clean fuel standard



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Hawaii legislators on May 6 passed legislation to create a Clean Fuel Standard to advance the State’s climate goals, improve air quality, and promote economic development.

If Governor Josh Green signs the bill, SB 2999, Hawaii’s move would follow the success of similar of policies in California, Oregon, and Washington, and the April 2026 implementation of a program in New Mexico.’

‘The Low Carbon Fuels Coalition celebrates and applauds the Hawaii legislature for passing the clean fuel standard,’ LCFC Executive Director Robin Vercruse said. ‘Programs in other states have not only exceeded carbon intensity targets, but inspired significant economic development. Hawaii is now in line to do reap those proven benefits.’

Elements of the Hawaii legislation include:

- Creation of a credit market to reward the production and use of low-carbon fuels in the State
- Jan. 1, 2028 implementation date
- Eligibility for aviation and maritime fuels
- Measures to protect the program and consumers from unexpected market conditions

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Biogas

Centrica Energy signs biomethane agreement with Stream BioEnergy in Ireland

Centrica Energy, in collaboration with Bord Gáis Energy, has signed an agreement with Stream BioEnergy to provide long term offtake and route-to-market services for Ireland’s largest biomethane facility processing municipal food and garden waste under development near Cork, Ireland. The plant will convert food and green waste into renewable biomethane for injection into the Irish gas grid, supporting the country’s decarbonisation goals and circular economy ambitions.

Stream BioEnergy is a leading developer of biogas plants in Ireland, and this new project represents a significant step forward in scaling sustainable gas production from organic waste...

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Greater Anglia recycles more than 100,000kg of food waste in a year

More than 100,000kg of food waste has been recycled across the Greater Anglia network in the past year, marking a significant step forward in the company’s sustainability efforts.

The announcement has been made to coincide with Stop Food Waste Day, an international initiative aimed at raising awareness of food waste and encouraging more sustainable practices.

The latest data, covering April 2025 to March 2026, shows that 104,000kg of food waste was collected and diverted from disposal, up from 23,900kg across the previous reporting period.

The increase follows the introduction of the government’s Simpler Recycling regulations for workplaces in England in March 2025, alongside improvements to waste collection across Greater Anglia’s stations and depots...

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HAM Group and HAM Chile SpA: New bio-LNG plant in Chile

The HAM Group and HAM Chile SpA, in partnership with Lipigas, have designed, built and will manage their first Bio LNG (renewable liquefied natural gas) upgrading and production plant in South America, located in the Ñuble region, with the capacity to process between 7,500 and 16,500 m³ of biogas per day, which represents a reduction, in the heavy transport industry, of more than 19,000 tons of CO₂ per year, 96% of fine particle emissions and 85% of nitrogen and sulfur oxide emissions, compared to other fuels.

The new plant stands out for its modular, containerized "plug & play" design, made up of six independent, easily interconnected modules: three dedicated to biogas treatment (cleaning and liquefaction) and three providing auxiliary services such as water and dry air supply. Thanks to this configuration, the facility was installed and commissioned in reduced timeframes...

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Biogas industry certifies 15 more digester operators

The American Biogas Council (ABC) today announced that 15 additional operator school students have earned their digester operator certification this spring after passing the organization's rigorous Operator Certification exam. This latest cohort brings the total number of Certified Digester Operators nationwide to 75, further strengthening the skilled workforce that supports the safe and reliable operation of biogas systems across the United States.

Certified Digester Operators play a critical role in ensuring anaerobic digesters run safely and efficiently. These systems capture methane-rich biogas from organic materials such as manure, food waste, and wastewater solids as they break down. That biogas can then be used to generate electricity and heat, fuel vehicles, or produce renewable natural gas. The process also yields a rich organic fertilizer, offering a sustainable alternative to synthetic soil nutrients...

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Chicken waste biogas plant tipped for refusal over bad smell fears

Locals say the application would 'kill' the village, but the developer claims bad odours will be kept to a minimum

A controversial facility which would convert chicken waste to biogas is likely to be refused over fears that bad smells would hit nearby homes.

The facility in Anwick near Sleaford has attracted hundreds of objections and a campaign from local residents.

Lincolnshire County Council planners have visited the site themselves ahead of the decisive meeting on Monday, May 11, when it's recommended that the plan is rejected...

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Air Liquide divests its biogas production activities in four countries

Oxygen, nitrogen, hydrogen, and many other essential small molecules are the invisible pillars of our world and our lives. They have been at the core of the Group's activities since its creation in 1902.

A world leader in gases, technologies and services for industry and healthcare, Air Liquide acts as the backbone of numerous economic sectors, serving 4.3 million customers and patients across 59 countries with approximately 65,000 employees. With revenues close to 27 billion euros in 2025, Air Liquide combines strong performance and useful growth.

The Group is a leader with a diversified, resilient business model and a strong local footprint across the globe. Through deep engineering expertise and technological innovation, Air Liquide provides scalable solutions that enhance industrial efficiency, accelerate decarbonization, and strengthen value chains.

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Researchers develop method to make renewable natural gas directly from waste



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A pilot study of a new method for treating sewage sludge from a wastewater treatment plant efficiently created renewable natural gas while reducing the cost of the treatment.

The work, reported in the *Chemical Engineering Journal*, could help communities sustainably clean up waste while getting renewable natural gas for their energy needs.

When the researchers pretreated sludge collected from a nearby wastewater facility, they produced 200% more renewable natural gas compared to current practices and reduced the final disposal cost by nearly 50%. Renewable natural gas could be used in the same way as fossil-fuel based natural gas for a wide variety of uses, including for electricity generation, home heating, or for transportation without the same climate effect as fossil fuels...

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Greenlane signs definitive agreements with Panasonic as cascade LF production partner in Brazil

Greenlane Renewables Inc. is pleased to announce it has signed definitive agreements with Panasonic do Brasil Limitada ("Panasonic") to localize production of Greenlane's proprietary next-generation Cascade LF landfill gas upgrading technology in Brazil.

Under the terms of the agreements, Greenlane and Panasonic will partner to establish volume production of Greenlane's Cascade LF and Cascade MS proprietary standard product lines.

Panasonic has been granted a technology license for fabricating the products in Brazil. Panasonic will produce the Greenlane branded product modules in its facilities in São José dos Campos in the Brazilian state of São Paulo, investing in facility modifications, tooling, and production equipment, while also providing the necessary working capital and advance payment assurances to meet customer requirements...

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Surfleet Marsh site earmarked for anaerobic digestion plant due to be visited by Lincolnshire County Council

A proposed site for one of two new anaerobic plants in South Holland is set to be visited by county planners.

Members of the planning and regulation committee are recommended to visit the land to the East of Surfleet Bank and West of Wood Farm, Spalding.

The site is one of two proposed by Naylor Farms and the application dates back to 2023. The company's other proposed anaerobic digestion site, off Rangell Gate, is not included in the planned site visit.

The county council consulted on the applications earlier this year.

The digestors will both be state-of-the-art, according to Naylor Farms, and if both are approved would create more than 50 jobs.

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Biomass

Geminor scales up biomaterials as a strategic priority



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Geminor is scaling up its biomaterials activities as a strategic priority, building on existing biomass trading and expanding beyond its established waste-based energy solutions to further strengthen its role as a supplier of feedstock with higher biogenic content.

The move reflects a broader industry shift in which waste and biomass are increasingly converging as part of the transition to low-carbon energy systems. By combining these streams, Geminor aims to deliver more flexible and locally adapted fuel solutions to customers across the energy, cement and industrial sectors.

Victor Smith, recently appointed to lead Geminor’s biomaterials initiative has said:

‘Bio and waste are increasingly converging, and we are in a unique position to combine both streams, We are combining local knowledge in low-value fractions with the scale of traditional biomass flows – creating flexible, locally adapted supply solutions across the value chain’

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Biomass power plant planned at Highland Pellets

Arkansas-based wood pellet manufacturer Highland Pellets LLC has plans to build a biomass power plant and install carbon capture technology to supply renewable energy to its Pine Bluff factory, according to a permit application submitted to the U.S. Army Corps of Engineers Little Rock District.

Highland is asking the Corps to approve a Clean Water Act permit for “Project Oscar,” which would be located on a 38-acre parcel just north of the existing Highland Pellets facility. The company says the infrastructure would supply energy for both the pellet plant itself and “adjacent industries,” according to the permit.

Specific details about the project are unclear. The application didn’t mention the project’s cost, and a company representative couldn’t be reached for comment...

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Wekweeti seeks government funding to heat community by biomass

One of the greatest hurdles that the Hamlet of Wekweeti faces in getting a proposed biomass program off the ground is securing funding from the territorial and federal governments, says senior administrative officer Fred Behrens.

While the cost of that start-up could run into the millions, it has the potential to provide enough heat to warm the 40 homes and 11 institutions locally and get the community off diesel for good.

Mark Heyck, executive director of the Arctic Energy Alliance:

‘Wekweeti sees that the biggest threat to the community is climate change, so it’s taking a proactive approach. They are checking a lot boxes’

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EfW

Indonesia speeds up waste-to-energy plant in Greater Bandung West Java



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The Indonesian Ministry of Environment is seeking to accelerate the waste-to-energy (WtE) plant development to address the waste crisis in the Greater Bandung metropolitan area, West Java.

Environment Minister Mohammad Jumhur Hidayat said in Bandung District:

'We don't want to drag this out. If a decision is reached during the coordination meeting, the tender for this waste-to-energy project can begin immediately'

He explained that his ministry is currently accelerating the development of the Oxbow Cicukang WtE plant in Margaasih Sub-district, Bandung District, to address the increasingly urgent waste crisis.

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Carbon Capture

First French prototypes that extract CO₂ from the air offer promise and uncertainty

At first glance, it would go unnoticed. Erected behind a factory in Drancy, a northeastern suburb of Paris, the cooling tower looks like an ordinary industrial installation: a 3.5-meter-high metal box topped with a fan, humming like a fountain. It is actually France's first "direct air capture" (DAC) prototype – a technology designed to extract CO₂ directly from the air to help mitigate the climate crisis.

Air is drawn in through vents and filtered using a liquid chemical solvent. In a warehouse of pumps, tanks and pipes, an electric current flows through membranes to recover greenhouse gases, which are then concentrated. It is a complex process to isolate a molecule that makes up just 0.04% of the atmosphere.

Since July 2025, the machine has operated for around 1,500 hours and captured 1.3 metric tons of CO₂.

Valentin Fougerit, cofounder and CEO of the start-up Yama, he pointed to a dashboard displaying real-time data and mentioned:

'At this stage, the main goal is to demonstrate that it works safely'

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Wirral landowner fights CO₂ pipeline plans being 'pushed'



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A Wirral landowner has hit out at "deeply inadequate" information and "bullying tactics" over plans for a major carbon capture and storage pipeline.

The project, known as Peak Cluster, is a 120-mile carbon capture pipeline intended to transport CO₂ from cement factories in the Peak District through Cheshire and Wirral, before compressing the gas and sending it under the sea. The pipeline will include several Above Ground Installations (AGIs).

Campaigners against the project argue it will do little to tackle climate change and have a significant environmental impact compared to alternatives. Peak Cluster on the other hand say the UK "urgently needs more sustainable ways to produce the essential materials we rely on every day"...

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BP plans to sell shares in flagship carbon projects as it pulls back from green agenda

BP plans to sell stakes in two flagship carbon capture and storage projects in the north-east of England as the company continues to retreat from the green agenda.

The oil company hopes to reduce its share in the Net Zero Teesside (NZE) project, which aims to develop the UK's first gas power plant to be fitted with a controversial carbon capture system to remove its emissions.

It also plans to cut its stake in the Northern Endurance Partnership project (NEP), which plans to build a network of offshore pipelines to transport carbon dioxide from the Humber, including the Teesside power plant, and store it under the North Sea.

BP's flagship carbon capture projects were backed by Bernard Looney, the company's former chief executive, as "the right thing for the world, a tremendous business opportunity" which would create the nation's first major carbon capture project and "maybe the world's first zero-carbon industrial cluster"...

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Events

19th - 22nd May 2026

EUBCE 2026 (34th European Biomass Conference & Exhibition)

CONFERENCE

The Hague, Netherlands

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8th - 9th July 2026

World Biogas Expo & Summit 2026

CONFERENCE

Birmingham, UK

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5th - 6th November 2026

European Bioenergy Future

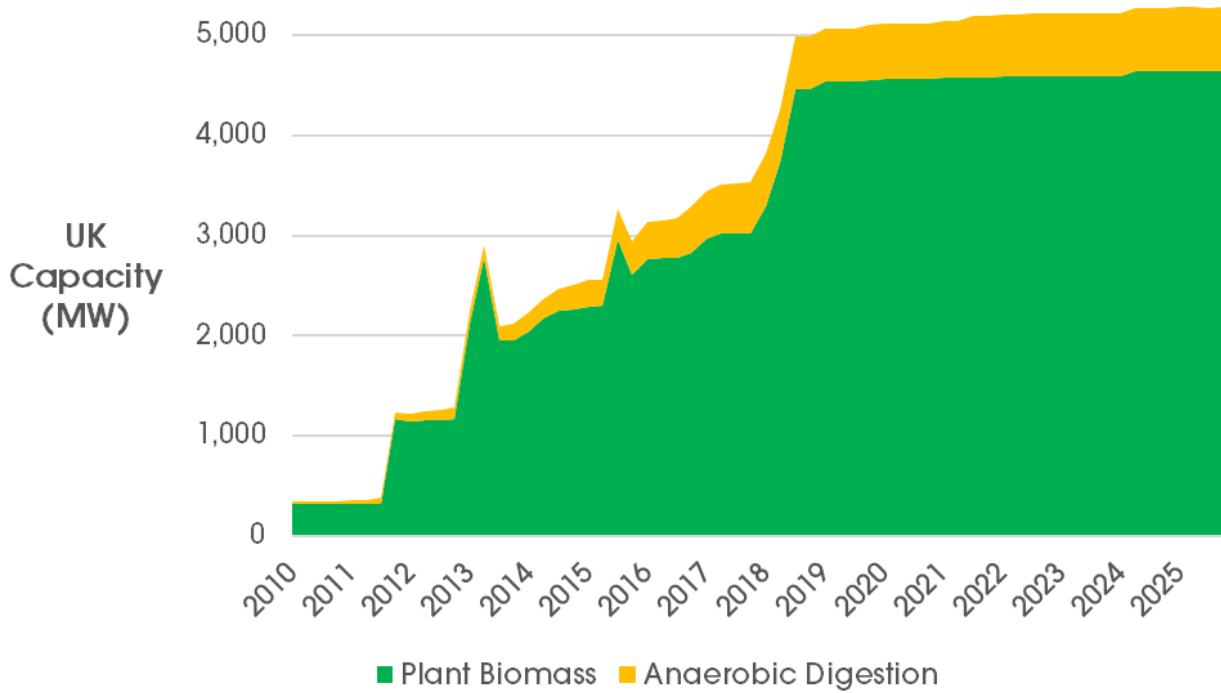
CONFERENCE

Brussels, Belgium

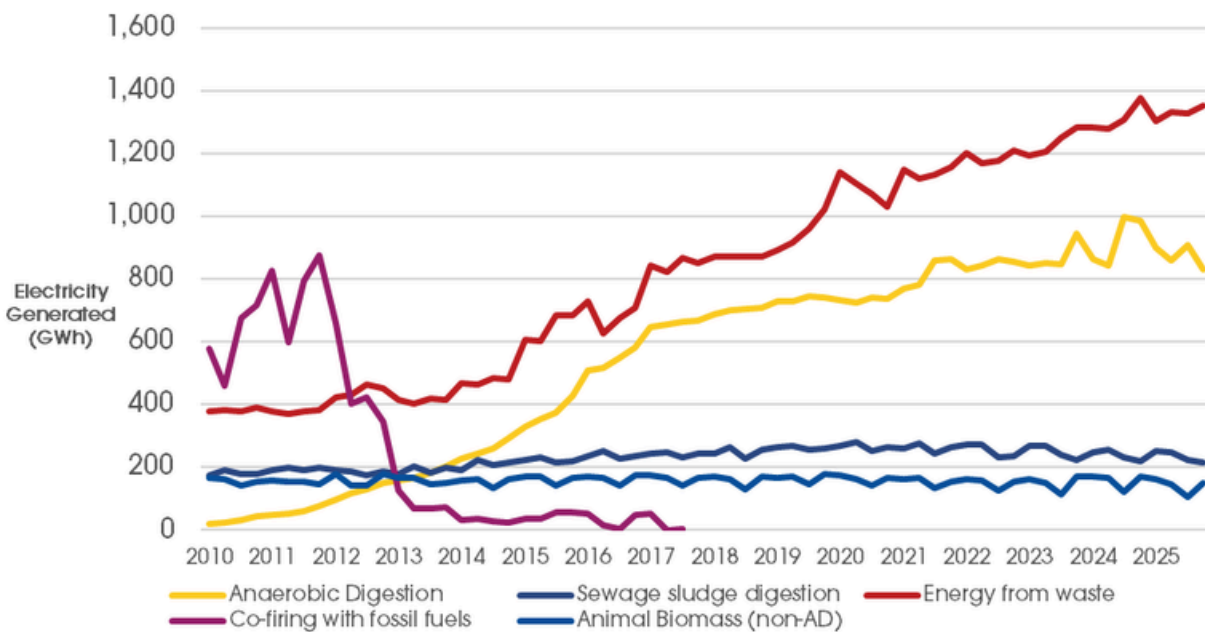
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Deployed biopower capacity

Quarterly information on installed electricity generation capacity from plant biomass and AD (Office for National Statistics)



Quarterly information on UK renewable electricity generated from various bioenergy resources (Office for National Statistics)



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