

June 2026

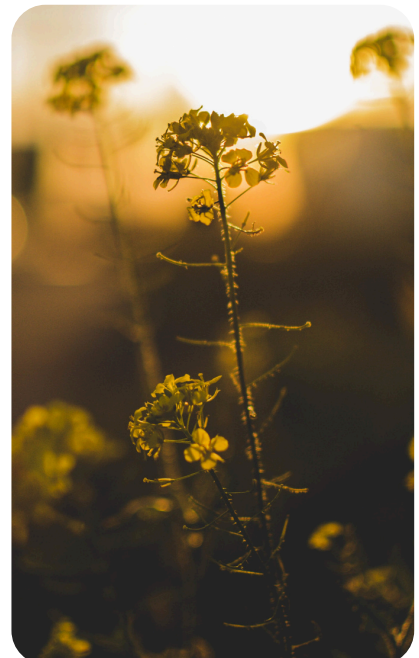
Feedstocks

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



**Announcements
& Commentary**

**Research &
Development**



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



This month's highlighted headlines present how massive volumes of industrial wood waste are being paired with cutting-edge research developments to showcase the capacity of transforming wood waste into energy and useful products.

In the United States, wood and waste biomass consumption reached nearly 2.31 quadrillion Btu in 2024 (over 650,000 TWh), according to updated data from the U.S. Energy Information Administration. The industrial sector led demand, accounting for nearly two-thirds of the total, with strong contributions from residential, electric power, and commercial uses. With an average price of £2.80 per million Btu and total expenditures nearing £4.60 billion, this robust market reflects the established role of biomass.

In Europe, the EemsGas project in Delfzijl, Netherlands, exemplifies large-scale infrastructure for biomass valorisation. A collaboration between Gasunie and Perpetual Next, the initiative will convert recycled waste wood into biomethane (green gas) using advanced TNO technologies: the MILENA gasifier, OLGA tar removal system, and ESME methanation. Recently bolstered by £130 million of support from the Dutch Stimulation of Sustainable Energy Production and Climate Transition (SDE++) incentive, the plant represents a major step toward integrating woody residual streams into the Dutch natural gas network, reducing fossil fuel dependency and supporting decarbonisation goals.

Beyond traditional energy uses, researchers are pioneering sophisticated material innovations from the same feedstocks. At Nanjing Forestry University, scientists developed fluorescent carbon quantum dots (CQDs) from discarded spruce packaging wood. Through hydrothermal processing and dual nitrogen-doping, they created a highly sensitive probe capable of detecting formaldehyde in drinking water at concentrations as low as 0.0016 mM - well below WHO and Chinese safety standards.



Meanwhile, chemists at the University of Alicante in Spain have unlocked even more versatile uses for lignin, the abundant but often underutilised polymer in wood. Employing a light-powered, room-temperature photocatalytic reactor, their process selectively cleaves lignin to produce vanillin - the key molecule for vanilla flavour - at promising yields, while the remaining fragments serve as effective additives for polylactic acid (PLA) biobased plastics.

Read on for the latest news

LEXICON

Our bioeconomy lexicon continues to be a popular resource for many of our followers and industry colleagues.

The lexicon includes over 200 widely used terms, clearly defining each of them and providing advice regarding their use. This is also an interactive tool, allowing users to suggest terms they would like to see included.

If you follow us on LinkedIn then keep an eye out for our weekly featured terms and insights chosen by our team. If you're not following us, then you can find us here:





We are delighted to announce that we have joined the BioRevolution Coalition, a growing alliance of organisations working together to accelerate the development of the UK's bioeconomy and unlock the transformative potential of biotechnology. The UK is well positioned to become a global leader in sustainable innovation. Advances in biotechnology and biomanufacturing are creating new opportunities to address some of society's most pressing challenges, from reducing carbon emissions and improving resource efficiency to strengthening supply chains and supporting economic growth.

The BioRevolution Coalition brings together businesses, researchers, innovators, and other stakeholders who share a common vision: building a thriving bioeconomy that delivers benefits for people, the environment, and the economy. By fostering collaboration across sectors, the coalition aims to help create the conditions needed for innovation to flourish and for bio-based solutions to scale.

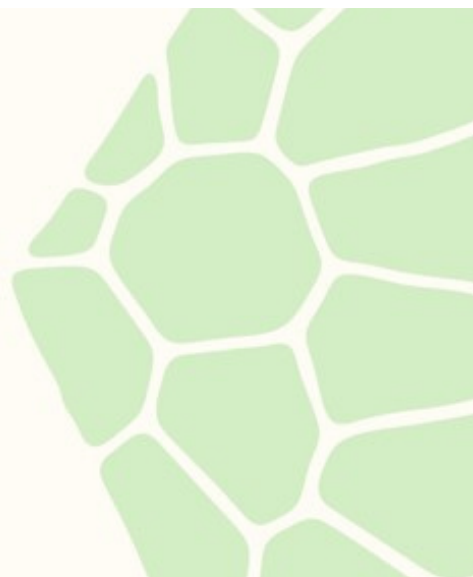
As a coalition member, we are proud to contribute to this collective effort. We believe that collaboration is essential to driving meaningful progress and ensuring that the UK can fully realise the opportunities presented by the biorevolution. The transition to a more sustainable future will require new approaches, new partnerships, and a shared commitment to innovation. Joining the Bio Revolution Coalition represents an important step in that journey, and we are excited to play our part in helping shape a resilient, prosperous, and sustainable bioeconomy for the UK.

To learn more about the Bio Revolution Coalition and its mission, visit <https://biorevolution.uk/>.

Biology,

ENGINEERED FOR GROWTH

Backing the Bioeconomy for UK's
Future Growth and Resilience



Policy

Policy options to create lead markets for clean, sustainable and circular feedstocks in the chemical industry

Reaching the EU's climate targets requires cutting emissions across its entire economy. While low-carbon energy and notably electrification can significantly reduce emissions in many sectors, the chemical industry faces a specific challenge: Around half of its emissions arise from industrial processes linked to chemical reactions and feedstock use. For chemical products, carbon is, and will remain, an essential building block – yet more than 90 % of it is currently fossil-based.

Defossilising feedstock requires a fundamental transformation of the industry's value chains, i.e. a (gradual) shift towards alternative carbon sources such as sustainable biomass, recycling and captured CO₂.

This CEPS report examines alternative carbon pathways from both a technological and a market perspective, with a particular focus on both methodological and policy frameworks required to make this transformation happen. To contribute to this debate, the report reviews a range of policy options to generate demand for alternative carbon sources currently under discussion for the chemical industry, including voluntary labelling, public procurement and mandatory targets as well as certification or credit-based mechanisms.

[Click here for more information](#)

Research & Development

Funding Notice: Department of Energy Announces up to \$10 Million for Algal Systems Research and Development to Expand U.S. Bioenergy Feedstock



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The U.S. Department of Energy (DOE) Bioenergy Technologies Office (BETO) announced up to \$10 million in funding to support high-impact research and development (R&D) focused on algae system cultivation and preprocessing. The notice of funding opportunity (NOFO), Maximizing Algal System Yield (MASY), will support BETO's R&D priorities in the area of Renewable Carbon Resources for advancing algal systems. Algae can provide abundant, feedstock sources for affordable, reliable biofuels, bioproducts, and bioenergy that do not compete with existing feedstocks. For this NOFO, algae include microalgae, cyanobacteria, and macroalgae (also referred to as seaweed).

The MASY NOFO seeks applications to address 'pinch points' (defined as a challenge area within a proposed system that, if relieved, would enable scaling towards commercialization) in algal system operations that currently limit algae expansion as a domestic bioenergy feedstock. By addressing these challenges now with targeted applied R&D, BETO will accelerate the development of innovative technologies that can enable algae developers to bring new bioproducts to market, that will grow domestic supply chains, expand access to renewable feedstocks, and improve energy security.

[Click here for more information](#)

Markets

US biofuel feedstock consumption expands in March



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U.S. biofuel producers consumed 30.193 billion pounds of feedstock in March, up nearly 12% when compared to February and up 6% when compared to March 2025, according to data released by the U.S. Energy Information Administration on May 29. Biofuel producers consumed 26.594 billion pounds of corn in March, up from both 24.118 billion pounds consumed in February and 25.362 billion pounds consumed in March of last year.

Grain sorghum consumption reached 560 million pounds in March, up slightly when compared to the 559 million pounds consumed the previous month and up more significantly from the 447 million pounds consumed in March 2025.

U.S. biofuel producers consumed 1.283 billion pounds of soybean oil in March, with 697 million pounds consumed for biodiesel and 587 million pounds consumed for renewable diesel.

Consumption was at 1.058 million pounds in February, with 577 million pounds going to biodiesel and 481 million pounds going to renewable diesel, and at 832 million pounds in March 2025, with 502 million pounds consumed for biodiesel and 331 million pounds consumed for renewable diesel.

[Click here for more information](#)

Wood & Crops

Lincolnshire County Council launches Wood Cycle trial to support residents and community groups

Lincolnshire County Council is launching a new Wood Cycle trial at Tattershall Household Waste Recycling Centre to encourage reuse, reduce waste and support local community projects.

The UK generates around 4.5 million tonnes of waste wood every year, much of which is already diverted for recycling or energy recovery. Through this new initiative, any suitable new or used wood brought to the site will be set aside and made available free of charge to residents, charities, and community groups for reuse.

The trial will initially start at Tattershall where there will be a dedicated area for people to donate good-quality wood and for others to collect what they need. The results of the trial will be used to help formulate the next steps.

Accepted types of wood include solid wood, worktops, hardwoods, plywood, chipboard, dimension timber, floorboards, pallets, laminate and wooden doors. Items that are unsuitable include logs or green timber, wood containing nails or woodworm, and certain treated materials.

[Click here for more information](#)

Eemsgas receives funding for waste wood gasification project

The EemsGas project (formerly Torrgas Delfzijl) aims to establish a commercial gasification plant in Delfzijl where waste wood from recycling is converted into green gas. Gasunie is developing this plant in collaboration with Perpetual Next. The plant will use technology developed by TNO.

The plant combines three technologies developed by TNO: MILENA, OLGA and ESME. Together, these technologies form a system in which waste wood is converted into green gas.

[Click here for more information](#)

US wood and waste biomass consumption tops 2.3 quadrillion Btu

New figures from the US Energy Information Administration show that American consumption of wood and waste biomass reached close to 2.31 quadrillion Btu in 2024, with the industrial sector accounting for nearly two thirds of total demand.

The data, drawn from the EIA's updated State Energy Data System estimates published in May, shows the residential sector taking a 16% share, electric power 14% and commercial 6%. Georgia was the leading state overall, representing close to 9% of national consumption, followed by Alabama at 7% and Virginia at 5%. Georgia also led industrial consumption, taking nearly 12% of the 1.48 quadrillion Btu the sector used across the year.



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Carbon Direct Releases Sustainable Agricultural Biomass Sourcing Guide for Carbon Dioxide Removal, in Collaboration With Microsoft and Stripe

Biomass-based CDR made up 95%+ of high-durability carbon removal in 2025, yet no framework governed agricultural residue sourcing. Carbon Direct built this guide, in collaboration with Microsoft and Stripe, to give buyers concrete criteria to embed in contracts today.

[Click here for more information](#)

Biorefinery



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BHP AND GCMD trial multi-feedstock B100 blend in an existing supply chain

BHP and the Global Centre for Maritime Decarbonisation (GCMD) have blended biofuels from two distinct feedstocks—used cooking oil and waste animal fats—and introduced the lower-emissions marine fuel into a BHP-chartered bulk carrier as part of a pilot project.

The BHP and GCMD pilot will assess how biofuels from multiple feedstocks can be blended, handled, and introduced under real-world operating conditions using existing used cooking oil bunkering infrastructure.

At the same time, insights from this pilot will help identify solutions to challenges related to fuel quality, handling, traceability, and onboard vessel performance.

Biofuels for global shipping today rely heavily on used cooking oil – a feedstock whose availability is approaching its projected limits. Biofuel from waste animal fats presents a promising option to expand the supply of lower-emissions marine fuels.

[Click here for more information](#)

Funding Notice: U.S. Department of Energy Announces \$12 Million to Advance Biorefinery Technologies for Biofuels and Biochemicals

The U.S. Department of Energy (DOE) Bioenergy Technologies Office (BETO) announced \$12 million in funding to support the advancement of integrated biorefinery technologies to reduce emissions for the transportation and industrial sector.

This funding opportunity announcement (FOA), FY24 Scale-Up of Integrated Biorefineries, will help reduce technology uncertainty and demonstrate bioenergy technologies that produce low carbon intensity biofuels and biochemicals, particularly sustainable aviation fuels (SAFs), using biomass and waste resources.

The U.S. transportation sector, including aviation, marine, rail, off-road, and heavy-duty vehicles, depends heavily on petroleum, which in 2022 supplied over 90% of its energy needs and accounted for 37% of transportation energy use.

Additionally, the U.S. chemicals industry self-reported 186 million metric tons of CO₂ emissions in 2022. Therefore, the use of renewable carbon feedstocks, such as biomass and organic waste, provides an opportunity to not only reduce our carbon footprint but also forge a path to conversion strategies that require less energy.

[Click here for more information](#)

Waste

Scottish councils face £28.7m annual carbon cost from waste incineration, campaigners warn

Scottish councils could face an additional £28.7 million annual bill from 2028 when waste incineration is brought within the scope of the UK Emissions Trading Scheme (ETS), according to a new analysis by Zero Waste Scotland that has prompted campaigners to call for stronger action to reduce plastic waste and dependence on incineration.

The study, commissioned by Zero Waste Scotland, assessed the impact of extending the UK ETS to energy-from-waste (EfW) and waste incineration facilities. It found that fossil carbon emissions from Scottish local authority residual waste amount to approximately 718,000 tonnes of carbon dioxide equivalent annually, with plastics accounting for a substantial proportion of those emissions.

Under current projections, local authorities could incur ETS-related costs of £28.7 million in 2028.

Although forthcoming measures such as Scotland's Deposit Return Scheme and the collection of plastic films and flexibles under Extended Producer Responsibility (EPR) arrangements are expected to reduce emissions and associated costs, councils would still face estimated ETS costs of £27.02 million annually. Further waste-reduction and recycling measures could lower the figure to £24.94 million, according to the report.

[Click here for more information](#)

New permit issued for Beddington energy-from-waste site

The Environment Agency has approved an application for a new permit submitted by Viridor South London Ltd. It will enable the company to increase the amount of waste handled at its energy-recovery facility at Beddington in south London.

Specialist officers have considered proposals in detail, along with information and evidence provided during 2 public consultations, and is satisfied the permit variation can be granted. The Environment Agency's role is to assess each application and decide if it meets all requirements under relevant environmental legislation and provides a high level of protection to the environment and human health.

It will only vary a permit if it is satisfied this is the case.

Compliance at the site will continue to be robustly regulated in line with the conditions of the revised permit.

[Click here for more information](#)

Bio energy firm pulls out of food waste contract

A council says it is "disappointed" that an energy firm has "pulled out" of a four-year contract to process food waste at a specialist facility.

Suffolk County Council announced in July that Bio Capital had agreed to process food waste at a planned anaerobic digestion (AD) plant in Reydon, near Southwold.

It said the company walked away from the original agreement but an "interim solution" was now in place, and that food waste was being sent to sites in March, Cambridgeshire, and Halstead, Essex.

[Click here for more information](#)

CaixaBank boosts sustainable energy through the financing of a waste treatment plant in the United Kingdom

CaixaBank will finance Viridor (backed by KKR and Equitix) for the construction of the Tees Valley Energy Recovery Facility (TVERF), a waste processing plant located in the Tessworks industrial zone in Redcar, around 50 miles from the city of York, in north-east England (United Kingdom).

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[Click here for more information](#)

MHI Receives Waste Treatment Technology Verification Report from JESC for Its Biomass High-Efficiency Recovery and Recycling System

Mitsubishi Heavy Industries, Ltd. (MHI), to contribute to the realization of a resource-circulating society, is working to develop and commercialize AdBio® (Biomass High-Efficiency Recovery and Recycling System),(Note1) a system to efficiently sort and recover biomass such as food waste and paper from municipal waste and unsorted food waste, enabling stable recovery of biogas in methane fermentation systems. MHI has recently received a technology verification report from the Japan Environmental Sanitation Center (JESC)(Note2) verifying that AdBio® is at a level for practical application in terms of technology, conducted as part of JESC's Waste Treatment Technology Verification Project.

[Click here for more information](#)

Events

19th - 22th June 2026

**34th European Biomass
Conference and Exhibition 2026**

The Hague, Netherlands

[Click here for more information](#)

20th - 21st October 2026

Global Bioeconomy Summit 2026

Dublin, Ireland

[Click here for more information](#)

3rd - 5th November 2026

**S&P World Biofuels, Ethanol and
Feedstocks Conference**

Barcelona, Spain

[Click here for more information](#)

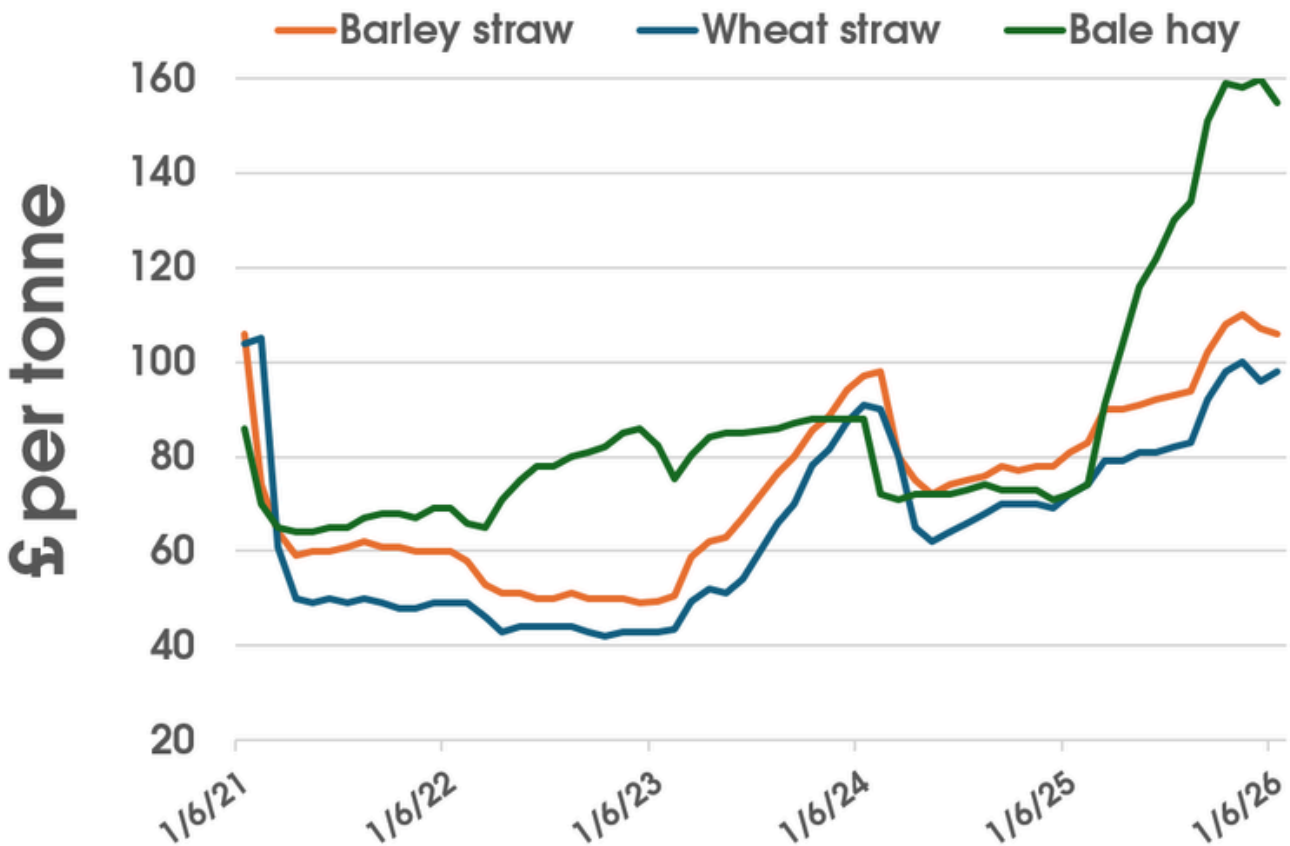
Feedstock prices

UK spot prices of bagged wood pellets, delivered. Grain and oilseed prices are across all main regions of the UK.

	Wood Pellets	Milling wheat	Feed wheat	Feed barley	Oilseed rape
	£/kg, 5% VAT	£/tonne, ex-farm	£/tonne, ex-farm	£/tonne, ex-farm	£/tonne, ex-farm
High	0.50	193.00	188.00	160.00	461.50
Low	0.35	185.00	164.00	143.00	434.00
Average	0.40	189.25	178.63	151.00	448.17

For wood pellets prices we consider UK pellet traders advertised selling prices.
For details on grains and oilseed prices, see [Farmers Weekly](#).

Monthly prices of ex-farm Hay and Straw in England and Wales. Prices shown are for 5 years up to June 2026.



Source: British Hay and Straw Merchants' Association, Defra

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Alder BioInsights is a leading international consultancy with expertise on the conversion of biomass to bioenergy, biofuels and biobased products.

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