WORLD
BIOENERGY
ASSOCIATION

About WBA

The **World Bioenergy Association (WBA)** is the global organization dedicated to supporting the wide range of actors in the entire biomass to energy value chain.

Mission: To promote the sustainable development of bioenergy

Membership: Open to all stakeholders, including companies, associations, and individuals engaged in the bioenergy sector.

Organization

Board Members

Anna Törner
Swedish Bioenergy Association

Christian Rakos
Propellets Austria

Darrel Smith
US Industrial Pellets Association

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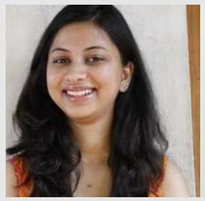

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Mariano Molina
Elimini

Secretariat

Bharadwaj Kummamuru
Executive Director

Alejandra Leon
Project Officer

Maria Zettergren
Accounts

Lízia Branco
Communication Manager

Membership

WBA members include associations and companies across the full biomass-to-energy value chain from more than 40 countries.

Member benefits include:

- Access to **exclusive member content**
- **Speaking opportunities** at WBA events
- **Promotion** of products and services
- **Representation** at international energy and climate forums
- Participation in WBA **working groups**

Find out more at link.

List of WBA members as of September 2025

Activities

Knowledge

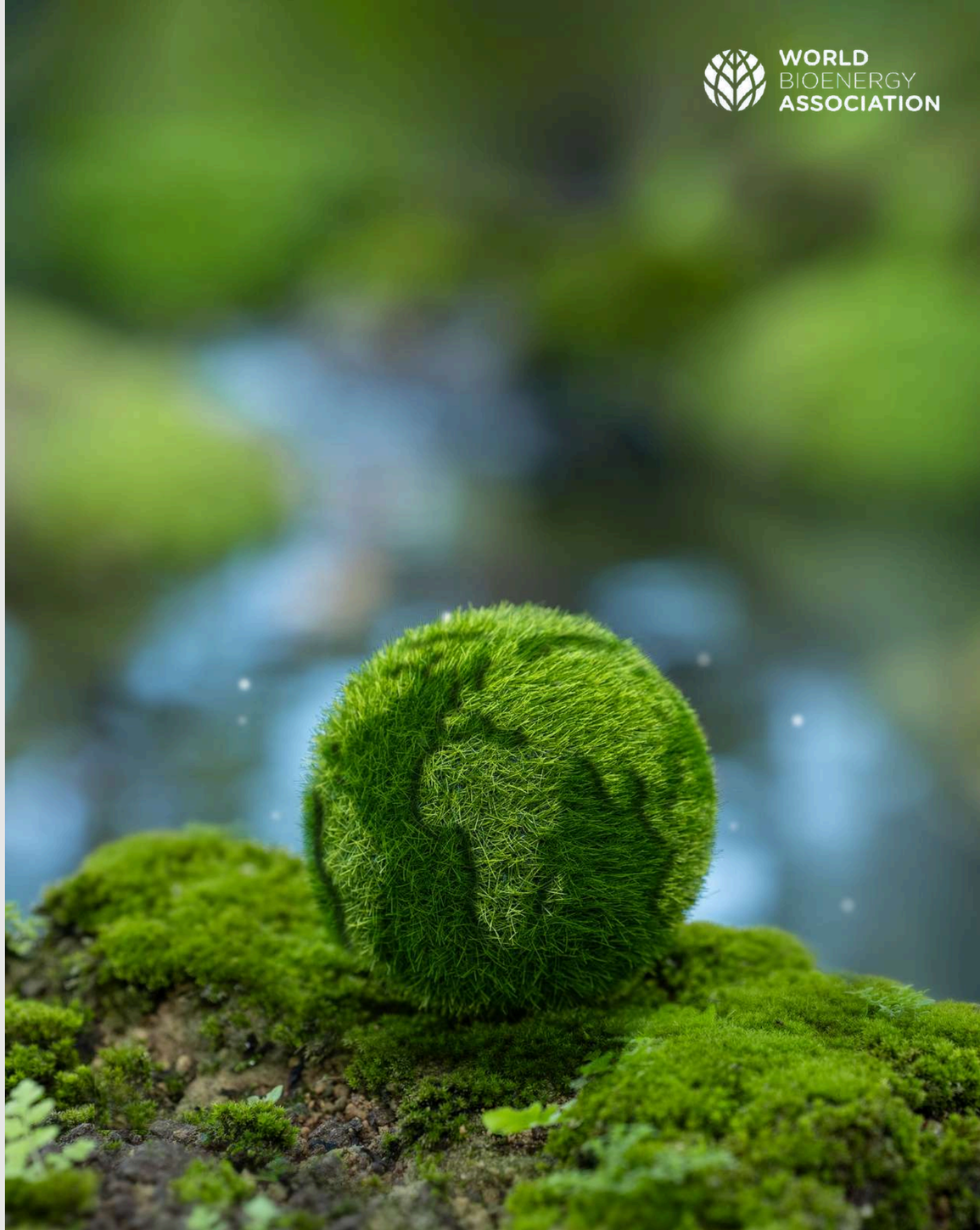
- Global Bioenergy Statistics Reports
- Factsheets
- White Papers
- Policy and position papers

Events

- Study Trips
- General Assembly
- Webinars
- Working Groups

Advocacy

- Observer Status (UNFCCC, IRENA)
- Membership (REN Alliance, Go100%RE, REN21)
- Partnership (GBEP, CPLC)



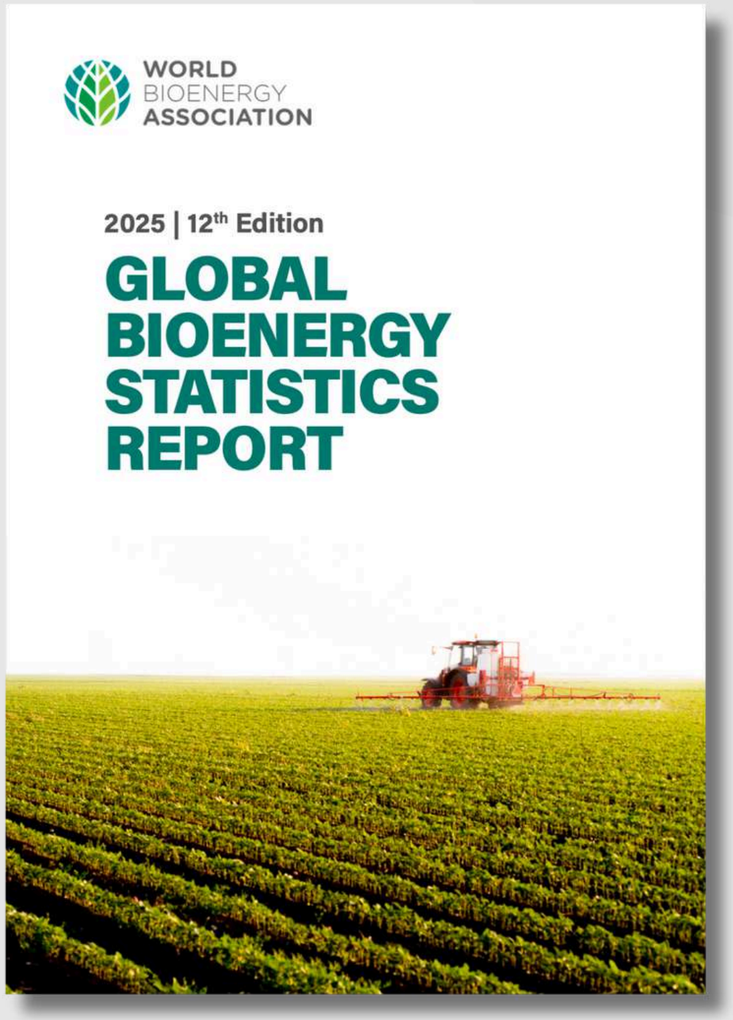
Global Bioenergy Statistics Report

The Global Bioenergy Statistics report is the main annual publication of WBA.

The report includes the **latest updates on the global development of biomass to energy**.

The data is presented on different geographical levels: global, continental and regional levels. These reports are published since 2014 and have been downloaded by governments, financial institutions, universities and companies.

Read the Global Bioenergy Statistics Report 2025 here.



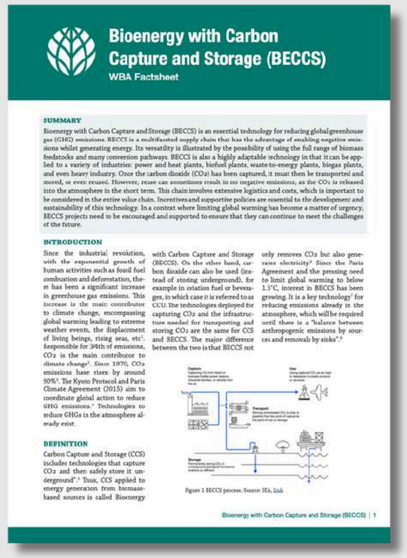
Factsheets

WBA factsheets present a **fact based** overview of bioenergy technologies overview of bioenergy technologies and are a **guiding tool** for policy makers, researchers and companies.

All factsheets are drafted along the same outline: summary, introduction, definitions, basic figures explaining technology, policy and economics, global statistics and a brief opinion of WBA on that subject.

The latest publications cover key topics such as biogas, bioenergy with carbon capture and storage (BECCS), net-zero biofuels, and biomass supply chains.

Read our factsheets here.

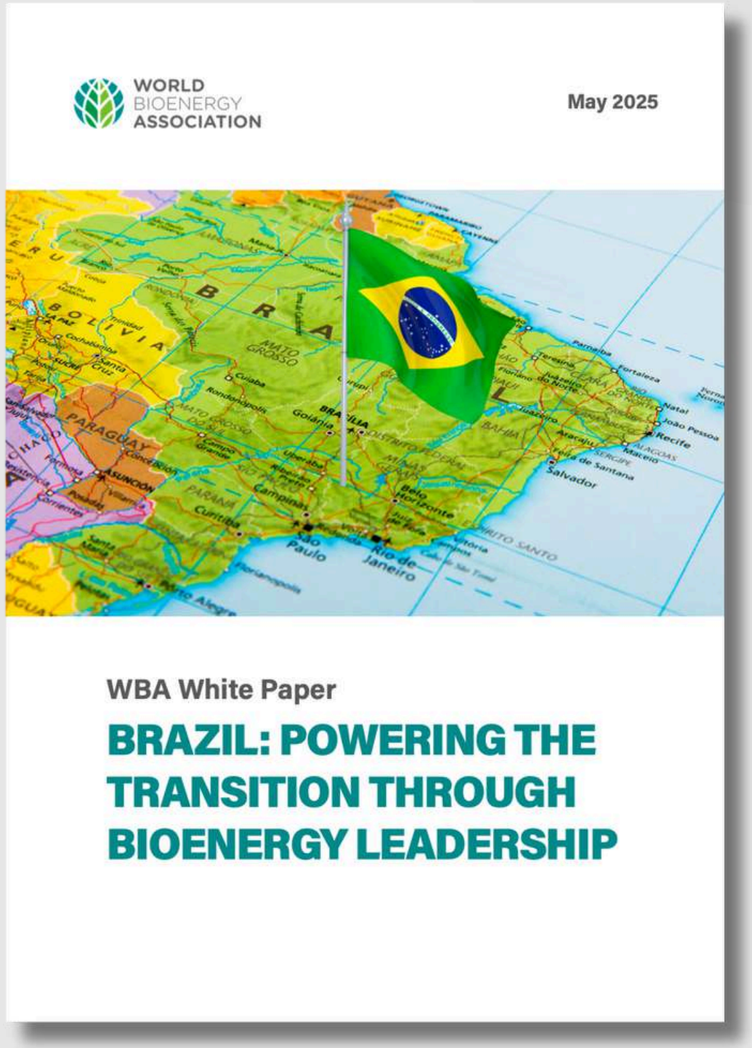


White Papers

WBA white papers offer a comprehensive **overview of the bioenergy sector**, encompassing the latest data on bioenergy development, policy frameworks, financing trends, and insightful **case studies** specific to **targeted countries or regions**.

The latest white papers focus on **India** and **Brazil**: "*India: The Next Big Bioenergy Revolution*" highlights significant untapped bioenergy potential in India, including a projected agro-biomass power capacity exceeding 35 GW by 2030; "*Brazil: Powering the Transition Through Bioenergy Leadership*" documents large-scale deployment outcomes such as record biofuel production, increased blending mandates, expanded bioelectricity and biogas capacity, and new promising regulatory frameworks, such as the "*Fuel of the Future Law*".

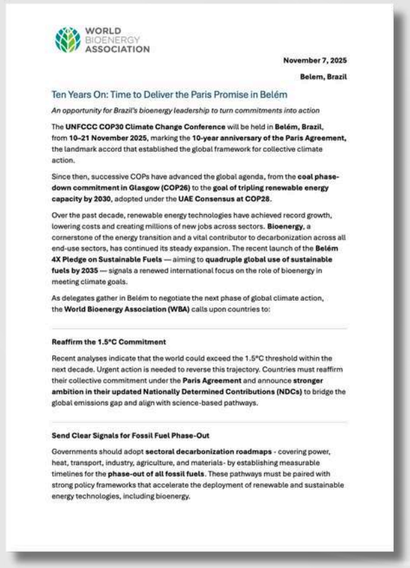
Visit link to read our white papers.



Position Papers

WBA frequently issues position papers to **inform the bioenergy and wider energy community** about the **opinion of WBA** on **various technologies, policies and debates surrounding bioenergy**. These are issued either by WBA or jointly with other leading organizations.

Visit link to read our position papers.



WORLD BIOENERGY ASSOCIATION

November 7, 2025

Belem, Brazil

Ten Years On: Time to Deliver the Paris Promise in Belém

An opportunity for Brazil's bioenergy leadership to turn commitments into action

The **UNFCCC COP30 Climate Change Conference** will be held in **Belém, Brazil**, from **10–21 November 2025**, marking the **10-year anniversary of the Paris Agreement,** the landmark accord that established the global framework for collective climate action.

Since then, successive COPs have advanced the global agenda, from the **coal phase-down commitment in Glasgow (COP26)** to the **goal of tripling renewable energy capacity by 2030**, adopted under the **UAE Consensus at COP28.**

Over the past decade, renewable energy technologies have achieved record growth, lowering costs and creating millions of new jobs across sectors. **Bioenergy**, a cornerstone of the energy transition and a vital contributor to decarbonization across all end-use sectors, has continued its steady expansion. The recent launch of the **Belém 4X Pledge on Sustainable Fuels** — aiming to **quadruple global use of sustainable fuels by 2035** — signals a renewed international focus on the role of bioenergy in meeting climate goals.

As delegates gather in Belém to negotiate the next phase of global climate action, the **World Bioenergy Association (WBA)** calls upon countries to:

Reaffirm the 1.5°C Commitment

Recent analyses indicate that the world could exceed the 1.5°C threshold within the next decade. Urgent action is needed to reverse this trajectory. Countries must reaffirm their collective commitment under the **Paris Agreement** and announce **stronger ambition in their updated Nationally Determined Contributions (NDCs)** to bridge the global emissions gap and align with science-based pathways.

Send Clear Signals for Fossil Fuel Phase-Out

Governments should adopt **sectoral decarbonization roadmaps** - covering power, heat, transport, industry, agriculture, and materials- by establishing measurable timelines for the **phase-out of all fossil fuels**. These pathways must be paired with strong policy frameworks that accelerate the deployment of renewable and sustainable energy technologies, including bioenergy.

Ten years on: time to deliver the Paris promise in Belém

WORLD BIOENERGY ASSOCIATION

08 November 2024

Baku, Azerbaijan

Bioenergy is ready to deliver ambition and action

Bioenergy is Indispensable for Achieving Climate Goals: A Call for Ambition and Action

Message to the International Energy and Climate Community at COP29

As the global community convenes at COP29 in Baku, we face a critical juncture. The impacts of climate change are no longer future projections, but present realities. The global average surface temperature in **August 2024** was **1.51°C above pre-industrial levels**, with record-breaking weather phenomena becoming the norm. The urgent need to transition to a sustainable energy system has never been clearer.

Despite the promises of climate action, **fossil fuels met 80% of global energy demand in 2023**, locking in emissions for decades to come. The energy sector remains the largest source of global carbon dioxide emissions, which **increased by 1 Gt in 2023 compared to 2019 levels**.

To mitigate human-induced climate change impacts, renewables offer a sustainable path forward. Although **renewable power capacity** is growing, reaching an unprecedented **3 870 GW in 2023**, this progress remains insufficient to meet global climate targets. Deployment also varies significantly across technologies and regions, highlighting the need for accelerated and more evenly distributed growth in renewables worldwide.

Bioenergy's Unique Role in the Energy Transition

Bioenergy stands at the forefront as the largest renewable energy source. It is versatile, utilizing a multitude of feedstock to meet all end uses for energy, materials, and chemicals. **Modern bioenergy usage reached 41 EJ in 2022**[1], accounting for 55% of renewable energy and over 6% of the global energy supply.

Bioenergy plays an indispensable role in established sectors—**accounting for 96% of renewable heat, 93% of renewable transport fuels, and 8% of renewable electricity generation**—while also supporting emerging technologies in hard-to-abate sectors like aviation, shipping, and heavy industry.

Looking forward, **bioenergy is projected to nearly triple by 2050**, fulfilling **20% of global energy demand** in the Net Zero Emissions Scenario[1]. Importantly, bioenergy contributes not only to emissions reductions but also to **energy security**, particularly in regions facing

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Bioenergy is ready to deliver ambition and action

RENALLIANCE
renewables working together

Joint statement on Renewables working together

Building Back Better through a Green Recovery

The renewable industries will work together to deliver 100% renewable energy. This can only be achieved through renewable energy integration. Together, the renewable energy technologies are greater than the sum of their parts. A significant increase of investment in renewables will fuel economic growth, create employment and contribute to a climate-safe future. To ensure this, we call for the following:

- **Accelerated deployment across all sectors, especially in heating, cooling and transport sectors, also by connecting the sectors.**
  The uptake of renewables in heating, cooling and transport remains slow, even though these sectors account for over three fourths of total final energy demand. Policy attention in this area is still lacking.
- **Substantial financial incentives for renewables to create competitive advantage for end-users and encourage self-supply.**
  The deployment of renewables in the energy sector still faces multiple barriers. Further policy support is needed to advance the achievement of a 100% renewable energy future. Policies ranging from pricing instruments to financial and fiscal incentives, quotas, and obligations, are needed to support clean, efficient and renewable energy projects.
- **Consider additional benefits and services of renewables when designing market mechanisms, not just lowest price.**
  The socio-economic benefits of the transition to a 100% renewable energy future is of vital importance. Mitigating climate change through the deployment of price competitive renewable energy need to be considered to future-proof our economy and society.
- **Broader policy frameworks devoted to a just and inclusive energy transition.**
  Renewable energy technologies lie at the heart of the energy transformation. This transition should focus on deployment, enabling and integrating policies that attract the full variety of investors, from individuals, communities, SMEs up to larger companies to participate and invest.
- **Development of green skills and renewable jobs offered to communities.**
  Incentives for education and training are needed to match the future skills demand for the energy transition. These incentives should address social and gender equity.
- **Mapping and promotion of health benefits of a green energy-based economy.**
  Replacing fossil fuels with renewable energy technologies is a positive force for climate, health and society.

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Joint statement on Renewables working together

WBA POSITION ON COVID19: IMPACTS AND OUTLOOK FOR BIOENERGY

BIOENERGY AS ESSENTIAL SERVICE. Bioenergy (including solid biomass, liquid biofuels and biogas) has provided clean, on demand energy and its role in meeting end use of electricity, heating and transport fuels should be recognized as essential product and service in times of crisis.

A BIOENERGY FUTURE. Policy makers should assure investors and the wider bioenergy community of their support to bioenergy and its crucial role in reducing fossil fuel use, generating jobs, local economic development and combating climate change.

DIS-INCENTIVIZE FOSSIL FUELS. Low oil prices, low cost of renewable energy sources and the momentum towards a clean energy future provide the opportunity for policy makers to dis-incentivize fossil fuels development by eliminating subsidies, implementing carbon pricing policies and developing fossil fuel exit strategies.

BUILD BACK BETTER WITH BIOENERGY. Recognizing the crucial role of bioenergy in the global energy mix, governments should include support to sustainable bioenergy technologies and pathways as key themes at the centre of economic recovery packages. No more fossil fuel support.

TIME FOR AMBITION AND ACTION. Recognizing that we face a climate urgency, national governments must increase their climate ambition by setting long term, ambitious and stable targets for bioenergy and renewable energy.

WBA position on COVID19

Carbon tax – key instrument for energy transition!

Global warming is the most challenging problem facing humanity today due to the excessive use of fossil fuels. Carbon tax (carbon dioxide tax) is a simple and efficient way to reduce the use of fossil fuels, improve energy efficiency, and make renewables more competitive. It can be tax neutral, as reducing other taxes will complement carbon tax implementation. It is a smart move to a more sustainable lifestyle and investment for the future. Therefore, the carbon taxes are an indispensable tool for rapid transition to a climate compatible energy system using less fossil fuel and more renewables.

- Easy to apply
- Easy to calculate
- Tax neutral
- Economic
- Efficient

Background and theory

Polluter Pays Principle and Carbon Dioxide Tax

Internalising environmental costs: According to Polluter Pays Principle (PPP), emitters of CO_2 should pay a Carbon tax for their emissions and in this way pay for current and future costs caused by the emission. Hence, the environmental costs (external costs) are internalized and made a part of the total cost of the polluting activity.

Carbon content of the fuel as basis: The Carbon tax should be in relation to the emission of CO_2 by the different fossil fuels. This is well known, and in direct relation to the carbon content of each fuel.

A green tax shift: The purpose of the tax is not to increase taxation, but to steer the economy in a sustainable direction. Other taxes can be lowered to compensate for the raised Carbon tax, in a "green tax shift". If the tax shift is not applied, incomes from the Carbon tax can be used for research and development of renewable energy technology as or for adaptation and compensation for people affected by the emissions.

Applied to all sectors: The Carbon tax should be introduced in all sectors of society. If cap and trade is used for certain sectors, Carbon taxes should be adopted for other sectors and in the long run, it should replace cap and trade system.

General acceptance needed: Initially, the level of the Carbon tax is not the main issue. More important is to get a general acceptance. Once the tax is introduced, it can be raised gradually to make it possible for companies and individuals to take action to reduce their use of fossil fuels.

SVEBIO

Carbon tax - key instrument for energy transition

Webinars

WBA organizes multiple webinars annually on a **wide range of bioenergy topics**. The webinar speakers come from **leading experts** from organizations, typically WBA members, who showcase the **latest developments in technologies, policies and markets**.

In 2025, WBA hosted the following webinars:

- 4 Nov: *Future Bioenergy Opportunities: Emerging Markets in Brazil and Beyond*
- 7 Oct: *South-South Cooperation to Scale Transport Biofuels*
- 9 Sep: *Brazil's Bioenergy Success: Insights from Industry, Academia, and Policy*
- 24 Jun: *What would it take for SAF to take off?*
- 5 Jun: *What It Takes to Produce and Deliver Certified Sustainable Biomass*
- 27 May: *Can bioenergy projects benefit financially from saving CO2?*
- 18 Mar: *Small-scale biomass applications for clean cooking*

Recordings and presentations are available on demand at link.

General Assembly (GA)

The WBA GA is the **annual gathering of our members and the wider bioenergy community**. It is an opportunity for the stakeholders including private sector, associations, researchers, and civil society to **discuss and debate the challenges and opportunities for the growth of the bioenergy sector**.

Last year, the WBA GA was held alongside the GBEP Bioenergy Week in Kampala, Uganda. In the preceding four years, the WBA GA took place in Brazil, China, India, and Austria.

Photos from the WBA GA and GBEP Bioenergy Week 2025, Kampala, Uganda. Photo credit: Alan Sherrard, Bioenergy International

“Bioenergy Horizons”

Last year, WBA launched the first season of “**Bioenergy Horizons**”, a **documentary series** produced in collaboration with **BlackRook Media**. The series combines evidence-based journalism with compelling storytelling to showcase **cutting-edge bioenergy innovation and deployment around the world**.

The first season showcased pioneering bioenergy innovators across the value chain, with episodes featuring **Jord**, **Graanul Invest**, **MDC Energia** & **Solvi**, **Greenfield Global**, and I**EA Bioenergy**, alongside academic perspectives from **Aarhus University**.

This year, WBA will continue its collaboration with BlackRook Media on a **second season** of Bioenergy Horizons, planned for launch at COP31 in late 2026. **Watch the series here.**

Monthly Newsletter

Each month, our newsletter provides an **overview of WBA's ongoing and upcoming projects and initiatives**, alongside **updates on key developments across our work**. It also features **WBA-supported events** and **announcements from our members**, fostering collaboration, knowledge exchange, and engagement across the global bioenergy sector.

To receive first-hand updates on our publications, upcoming events, and relevant news from the bioenergy community, subscribe to our mailing list here.

We believe **Africa** is going to be the **next very large market for pellet production and use** and we can see **rapidly growing numbers of inquiries and projects emerging**.

Because of the enormous potential and the relevance of pellet cooking for sustainable development and climate protection WBA has set up the **website** www.propellets.africa to **support African developers of pellet plants**. This website includes a section that **lists all relevant suppliers**. We have a specific **working group on advanced biomass cooking** that open for all members interested in the subject.

Partnerships and Advocacy

- Observer (UNFCCC)
- Observer (Green Climate Fund)
- Observer (IRENA)
- Observer (Global Bioenergy Partnership)
- Member (IRENA Coalition for Action)
- Member (Go100%RE)
- Steering Committee/Member (REN21)
- Partner (Carbon Pricing Leadership Coalition)

Contact Us

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