



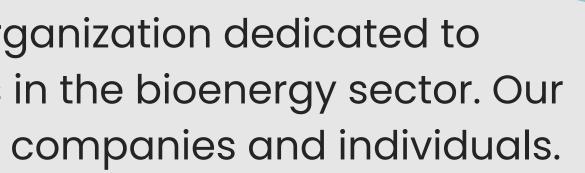
WORLD BIOENERGY ASSOCIATION THE INTERNATIONAL VOICE OF BIOENERGY



About Us

The World Bioenergy Association (WBA) is the global organization dedicated to supporting and representing the wide range of actors in the bioenergy sector. Our members include bioenergy organizations, institutions, companies and individuals.

Mission: To promote the sustainable development of bioenergy globally and to support the business environment for bioenergy



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Activities

Publications

- Global Bioenergy Statistics
- Factsheets
- Mission Reports
- Policy papers

Events

- Study Trips
- General Assembly
- Webinars

Partnerships

- Observer IRENA, UNFCCC
- Liason ISO Standards
- Member Go 100% RE, REN Alliance





Board Members



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Secretariat



Zygmunt Gzyra Polish Chamber of Biofuels



Seth Ginther US Industrial Pellets Association



Bharadwaj Kummamuru Executive Director



Karin Haara Senior Advisor



Lízia Branco Communication Manager

Our



WBAGLOBAL BIOENERGY STATISTICS

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

The report focusses on the **global development of biomass to energy** – supply, production and consumption.

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.





GLOBAL BIOENERGY STATISTICS 2021

World Bioenergy Association

WBA FACTSHEETS

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

The objective of drafting and publishing factsheets is to bring rational arguments in the public discussion and to support the development of bioenergy.

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.

WBA has already published 14 factsheets.





LEAN AND EFFICIENT BIOENERG

WBA COUNTRY MISSIONS

WBA has been conducting successful country missions to share knowledge and experience on bioenergy.

We have had missions to Zambia, Brazil and Kenya, for example, in the past few years. During the trips, WBA contributed with **expertise** by attending conferences, conducting **field trips** and **giving** presentations on the role of biomass in climate change.

These trips have been on the invitation of local country representatives.

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BIOENERGY IN BRAZIL





BIOENERGY IN KENYA



BIOENERGY MAGAZINE

The bioenergy business needs a voice on the international arena. During the launch of the World Bioenergy Association in Jönköping, Sweden at the World Bioenergy Conference, a magazine was released with the objective of **spreading the message on the need for a global association of bioenergy**.

Eight magazines have been released since 2008 **keeping track on the development of WBA** as an organisation along with **developments in the bioenergy field**.

Recently, WBA was pleased to announce a new partnership with Bioenergy International, who became the **official magazine of World Bioenergy Association**.





Bioenergy Sector at the Leading Edge of Transformation & Innovation



ALSO INSIDE

Global Status of Household Blodigesters Role of Southeastern U.S. in the World's Pellet Market Biomass in Spain: Markets, Trends & Technologies

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.





We call upon governments to take the low price of oil as a window of opportunity to act against fossil carbon emissions!

There has rarely been such an opportunity for the global community to take action against feesil carbon emissions and global warming as there is now, in January of 2015. The North Sea Brent oil price has plummeted from 110 USD per barrel last summer to around 50 USD now, a fall of more than half, which will dramatically affect energy markets. All users of oil products at market price around the world will now perceive their diesel, petrol and fuel oil as cheep.

This gives us a unique opportunity to introduce and raise fees and taxes on carbon dicaide emissions in all countries, lenging it pairies for citizens. It represents also a chance to abolish subsidies for lossil furly in countries with governmentally guaranteed had prices. The best strategy would of course be to agree a minimum carbon emission fee in the UN, but it is difficult to reach consensus by negotiation between to many countries. Therefore every government should consider urgently acting on its own, not waiting for global agreement. There are three types of country that should take action as soon as possible

1. Courtries that alreads have parties frees or taxes should take the opportunity to raise these. As an example, in Sweden, petrol and decel prices have decreased by over 2 SEK per litre (20 euro careta) and there is a clear opportunity to raise fael duty by up to half that amount, without much corsumer reaction. The situation is similar in all European countries, many urgently need to strengther their state budgets by increasing revenues. Higher carbon fees, duties or a tax is one way to do it.

2. Countries with no fees or taxes on carbon emissions should introduce such mea on focal transport fuels and on basil fuels for heading. They can introduce such taxes at a tower level, but with the ournet drastic fall in oil prices, even relatively high carbon dioxide fees may be accepted by consumers. The important thing is to aut now before oil prices climb again.

3. Finally, countries with fixed and state-guaranteed prices on fuels, many of which are of producing nations, should take away the guarantee. Quaranteed prices vary between country, but total subaidies are very high at the global level. When world market prices for oil were climbing some years go this resulted in budget problems for many countries. One example is Nigeria, where President icodiuck Jonathan tried to abolish the country's fixed had prices, resulting in protests and risting. Now, these countries have a chance to abolish such policies and even introduce a low carbon fee When oil prices start to climb again, it will mainly be attributed to market prices.

There is convencing research showing that carbon emission less are the most efficient general method to combet climate change. The main reasons why carbon fees are so efficient are:

. Carbon dioxide less raise the price of fusal emissions and thereby penalise lossil fuels for their negative effects on the climate. Consequently carbon slowlde fees also favour renewables and energy efficiency.

· Carbon should been are fair and logical because they are proportional to the actual emission Increased costs on emissions thus help individuals and enterprises to make better decisions for our common future. They can calculate new profitable investments or change behaviour to improv economy, e.g. buy a more efficient car, insulate the house, take the take instead of the car, or use public transport. Businesses can develop new products that can be competitive on a market when more efficient products are in demand, etc.

WORLD BIOENERGY



FES 2030

AFTER COP 21 (PARIS): FOSSIL EXIT STRATEGY 2030

One year after the conference in Paris, the world is moving away from the targets of COP21. The most embarrassing fact is the ongoing increase of the CO₂ concentration in the amosphere. This concentration reached 400ppm in 2014 for the first time in the human nistory. A value of 420 ppm is usually regarded as upper limit to keep a temperature rise below 2°C likely (Source: IPCC)

The main reason of this growing conntration of CO2 in the atmosphere is the huge inflow of CO2 emissions caused by burning fossil fuels. Moreover, the oil prices have dropped 50% in he past two years which is an incentive to use more fossil fuels and thus increase emission

If the flow of CO2 emissions continues for another decade at the same pace, the threshold of 420 ppm CO, in the atmosphere will be surpassed and the targets of COP21 greement will be unreachable for centuries

The world needs an exit strategy to leave fossil fuels, step by step and year by year. A minimum reduction path, in terms of fossil fuel energy consu nption, would be from the surrent 463 EJ in 2013 to 300 EJ by 2030 and near zero by 2050.

At the same time, each country needs a strategy for fast deployment of renewable energy sources including solar, wind, bioenergy, geothermal and hydropower. The world must move towards a 100% renewable energy before 2050 to achieve the Paris COP21 targets.



Figure J Global wer of front facts (2013 - 2050)

Fossil exit strategy for Europe:

Similar to the global scenario, Europe is moving away from the targets of COP 21. In 2015, the emissions increased as compared to 2014. The EU targets for 2030 - reduction of 40% emissions as compared to 1990 and 27% renewable energy stare - do not comply with the targets of COP 21. Europe also needs a fossil exit strategy to achieve the targets of Paris. The

Aufd Blassergy Hollindergebr. 17 SE 111-81 Stockheim, Sweden Heinenergy stg

Tel: =46 (2) 8 441 79 84



PELLETS.AFRICA

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 the World Bioenergy Association has set up the **website www.pellets.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.

If you are interested in presenting your company in the Pellets. Africa website or in becoming member of the World Bioenergy Association please feel free to contact the Executive director of our organization, Mr. Bhardawaj Kumamuru: bharadwaj.v.kummamuru@worldbioenergy.org

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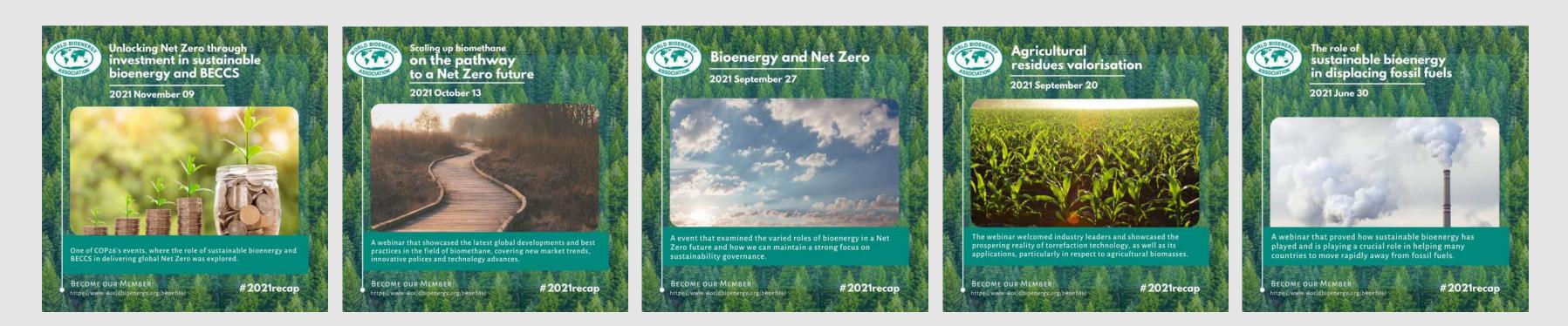
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WEBINARS

Since the beginning of the pandemic, WBA started organising multiple webinars on a wide range of fields. For multiple times, representatives of exemplar organizations and associations gathered to discuss pressing subjects and to share experiences about their own line of activity. The recordings are of these events are made available to the public in our website.





GENERAL ASSEMBLY

The WBA General Assembly 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.

Vienna, 2021 Stockholm, 2019 Nagano, 2017 Istanbul 2016 Nairobi 2015



BIOENERGY FOR THE FUTURE

In the face of climate change, providing reliable supplies of renewable energy has become one of the biggest developmental challenges of our time, and bioenergy has a significant role to play in carbon removal and emissions reduction, as well as in the development of bioenergy-based fuel alternatives for fossil fuels.

Thus, WBA has partnered with **ITN Productions Industry News** to make Bioenergy for the Future, a programme, fully available to the public, that looks at the **innovations and developments in the Bioenergy sector**.



COLLABORATIONS

- Observer organization, UNFCCC
- Observer organization, Green Climate Fund
- Liaison, ISO 13065: Sustainability criteria for bioenergy
- Cooperation, IRENA
- Steering Committee member, REN21
- Member, REN Alliance
- Founder, Go100% campaign
- Alliance for Rural Electrification (ARE)
- Bioenergy International Magazine
- Bioenergy Insight
- FutureIsClean campaign
- Energy Business Review (EBR)





JOIN US! MEMBERSHIP

Benefits:

- Strengthening lobbying in favour of bioenergy in a global scale and influence policy decisions at national and regional level
- Access to WBA's network of companies, associations and experts
- Possibilities of collaboration for obtaining investments in bioenergy sector
- Invitation to regional conferences and workshops
- Access to information on bioenergy climate policy reports, factsheets on different bioenergy technologies and issues, news etc
- Possible collaboration in working groups, webinars, projects, conferences etc.





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FOR ANY QUERIES:

Address

Kammakargatan 22, SE-111 40 Stockholm, Sweden

Phone +46 08 441 70 84

Email info@worldbioenergy.org

