BOOM YOUR BRAND – ONLINE AND IN PRINT!

Advertise 24/365, part of the year or campaign based. Our web platform is re-
Bioenergy International 24/7
All print advertisers appear in the digital version opening additional marketing
of 4 000 copies. The e-magazine is the digital version of the printed edition.
Bioenergy International comes out with six print issues of which one is a dedi-
Print - reach readers in 66 countries/territories

Maintain your brand, online and in print, in Bioenergy International.

value chains, your advertising is always in context. These span across
advocate press with a clear editorial focus on the biomass-to-energy
kit. As an advertiser you can leverage our channels to reach qualified

Oceania 2 %
Africa 2 %
Americas
Europa

Of the
228 302 users
22%

100000
50000

User Sessioners, 00:01:26 average visit duration, 89% new and 11%
,
302 453 user
22%

From Google Analytics

7%


Xinyi Shen
jeanette.fogelmark@bioenergyinternational.com
dorota.natucka@bioenergyinternational.com
Dorota Natucka-Persson
alan.sherrard@bioenergyinternational.com
EDITOR IN CHIEF

pellets. A recently published “four fundamentals guide” to help policymakers develop a science-based approach when the discussing carbon accounting
This would seem especially true for so-called crop-based biofuels – grain ethanol or palm oil biodiesel – as well as forest derived biomass such as wood
Benefits aside, biomass is still arguably the most misunderstood and emotive energy source. Its inherent diversity and interdependency makes it complex.

manure-based biogas plants or wood pellet plants – a circular bioeconomy symbiosis.
ment and payment opportunities are found in rural areas where both the feedstock and production plant are located such as corn and sugarcane ethanol plants,

jobs globally were found in bioenergy – the population of Mongolia (ranked 136 in the 2019 revision of World Population Prospects). Many of these employ-
According to the International renewable Energy Agency (IRENA), bioenergy was the second largest employer 2017-2018 – over 3.22 million direct and indirect

cooling) potential remains “vastly underexploited” and deployment is not in line with global climate targets, which calls for greater ambition and stronger policy

municipal and industrial waste) will continue to have the biggest growth in renewable resources between 2019 and 2024.

Half of all renewable energy consumption in 2018 came from modern bioenergy, and, according to the International Energy Agency's (IEA's)

BIOENERGY – THE UNSUNG ENERGY TRANSITION HERO

in
2020 sees Bioenergy International enter into its 19 th consecutive year of publication, reporting firsthand on biomass to
carbon benefits.
helps keep land in forest and incentivizes investments in new and more productive forests, all of which have significant
– demand for wood
4 Economic factors influence the carbon impacts of forest biomass energy

2 Measuring the carbon benefits of forest biomass energy must consider cumulative carbon
accumulation in the atmosphere over time. Comparisons between forest biomass emissions and fossil fuel emissions
atmosphere and can significantly distort or ignore comparative carbon impacts over time.

3 An accurate comparison of forest biomass energy carbon impacts with those of other
energy sources requires the use of consistent timeframes in the comparison
3 an accurate comparison of forest biomass energy carbon impacts with those of other
energy sources requires the use of consistent timeframes in the comparison

2 Measuring the carbon benefits of forest biomass energy must consider cumulative carbon
accumulation in the atmosphere over time. Comparisons between forest biomass emissions and fossil fuel emissions
atmosphere and can significantly distort or ignore comparative carbon impacts over time.

– most debates

– most debates

continuing as part of the growing global bioenergy movement, together with you.
subscribers that have made this milestone possible. It is your advertising, sponsoring, and subscription custom that
energy developments around the world. A big shoutout and thank you to all of our advertisers, readers, sponsors and
“BOOM” YOUR BRAND – ONLINE AND IN PRINT!

Bioenergy International (BioInt) is a master key in your marketing mix kit. As an advertiser you can leverage our channels to reach qualified target groups and relevant decision-makers with purchasing power. As advocate press with a clear editorial focus on the biomass-to-energy value chains, your advertising is always in context. These span across traditional industry sectors, sub-sectors and markets opening up new opportunities for your products and services. Build, Own, Operate and Maintain your brand, online and in print, in Bioenergy International.

Print - reach readers in 66 countries/territories
Bioenergy International comes out with six print issues of which one is a dedicated issue on pellets “Pellets Special”. Each issue has a minimum print run of 4 000 copies. The e-magazine is the digital version of the printed edition. All print advertisers appear in the digital version opening additional marketing opportunities.

Web - Bioenergy International 24/7
Ensure that your company appears on www.bioenergyinternational.com. Advertise 24/365, part of the year or campaign based. Our web platform is responsive and works for all desktops, tablets and smartphones. Updated daily with news and commentary from around the world, it has seen continual year-on-year growth in visitors and reach since its launch in October 2016.

Sector
Bioenergy International is read by qualified representatives from different business sectors that share a common interest in bioenergy.

From Google Analytics
Reach 215 countries/territories, 228 302 users, 302 453 user sessioners, 00:01:26 average visit duration, 89% new and 11% returning visitors respectively (from start Oct 2016 - Nov 2019).

Of the 228 302 users, 65% came via organic search and 22% from the “BioInt News & Views” newsletter.
EDITORIAL THEMES & FEATURES
(Note: with the exception of Pellets Special, each issue covers pellets, biogas, liquid biofuels, heat & power, policy, markets & finance).

1. JANUARY/FEBRUARY

BIOMASS FOR HEAT & POWER
Spotlight 1: Bioenergy in industry  Spotlight 2: Forest & field biomass supply chains
Material Deadline: 12 March  Distribution Start: 18 March
This issue takes a look at some of the world’s larger biomass based energy projects. In addition, a look at how manufacturing and process industries are embracing bioenergy solutions to provide space and/or process heat, steam, cooling and/or power.
Directory: Forest Biomass Equipment

2. MARCH/APRIL

“PELLETS SPECIAL”
Material Deadline: 20 April  Distribution Start: 6 June
A special, stand along issue of Bioenergy International dedicated to pellets, which includes advanced biomass pellets (aka black pellets) and agri-biomass pellets. A companion to the “World of Pellets” wall poster, this the 6th edition includes site reports, a review of 2019 and outlook for 2020, pellet production technology features and will be distributed at all major pellet events 2020.
First published in 2005, the “World of Pellets” poster has been updated ever since. It gives a visual overview of global biomass pellet production and location. Listed plants have an annual production capacity of 10 000 tonnes or more.
Directory: Pellets Special Suppliers

3. MAY/JUNE

ENERGY FROM RESIDUES & RESIDUE TREATMENT
Spotlight 1: Flue gas & ash handling  Spotlight 2: Anaerobic digestion (AD) & Organic Rankine Cycle (ORC) technologies
Material Deadline: 19 June  Distribution Start: 5 July
This issue features energy recovery from residues such as RDF and MSW as well as other non-conventional biogenic sources including secondary sources such as waste heat and exhaust gases like carbon capture and utilisation/recycling (CCU/R), gas-to-liquid (G2L) as well as residue treatment including industrial, urban organics and wastewater treatment.
Directory: Global Suppliers

4. AUGUST/SEPTEMBER

BIOMASS FOR TRANSPORTATION
Spotlight 1: Feedstock pretreatment technologies  Spotlight 2: Transport powertrain technologies
Material Deadline: 31 August  Distribution Start: 14 September
Forestry and agriculture represent major feedstock sources for liquid and gaseous transportation fuels, conventional and advanced, while providing food, feed, fodder and fibre. This issue looks at how these multi-functions complement each other and how they can be integrated as biorefineries as well as other “Power-to-X”, “carbon recycling” and chemical recycling technologies and fuels.
Directory: Biofuels Equipment

5. OCTOBER/NOVEMBER

DISTRICT ENERGY - HEAT, POWER & COOLING
Spotlight 1: Energy storage  Spotlight 2: Biomass handling
Material Deadline: 19 October  Distribution Start: 2 November
Distributed heat and/or power and/cooling for residential and commercial applications is resource efficient but not widely practised. The opening up of such network infrastructure for third-party suppliers is a model that is gaining momentum. This issue looks at some of these projects and the case for district/distributed energy networks.
Directory: Size Reduction and Densification

6. DECEMBER

STORAGE, SHIPPING AND LOGISTICS
Spotlight 1: Dust & off-gasing  Spotlight 2: Gas-to-grid, gas-to-liquid & liquefaction
Material Deadline: 25 November  Distribution Start: 12 December
Mobilising biomass from the forest or field or moving pellets and biofuels from the plant to market is an infrastructural and logistical challenge. So too is energy storage – heat storage, power-to-heat, power-to-gas (methane and/or hydrogen) and gas grids. This issue also looks at the health, safety and quality degradation challenges along with developments to monitor and mitigate them.
Directory: Biogas Technology Suppliers
The opening up of such network infrastructure for third-party suppliers is a model that is gaining momentum. This issue Distributed heat and/or power and/cooling for residential and commercial applications is resource efficient but not widely practised. The opening up of such network infrastructure for third-party suppliers is a model that is gaining momentum. This issue Distributed heat and/or power and/cooling for residential and commercial applications is resource efficient but not widely practised. The opening up of such network infrastructure for third-party suppliers is a model that is gaining momentum. This issue Distributed heat and/or power and/cooling for residential and commercial applications is resource efficient but not widely practised. The opening up of such network infrastructure for third-party suppliers is a model that is gaining momentum.
This issue takes a look at some of the world’s larger biomass based energy projects. In addition, a look at how manufacturing and distribution.

**Spotlight 1**

**BIOMASS FOR HEAT & POWER**

A special, stand alone issue of Bioenergy International dedicated to pellets, which includes advanced biomass pellets (aka black material). The issue also looks at the health, safety and quality degradation challenges along with developments to monitor and mitigate them.

**Spotlight 2**

**Dust & off-gasing**

**Gas-to-grid, gas-to-liquid & liquefaction**

ENERGY FROM RESIDUES & RESIDUE TREATMENT

Transport powertrain technologies

Distributed heat and/or power and/or cooling for residential and commercial applications is resource efficient but not widely installed in the last years. A round-up of different projects and local solutions.

**Spotlight 2**

**Energy storage**

**Biomass handling**

Dust & off-gasing

Gas-to-grid, gas-to-liquid & liquefaction

**Directory: Biofuels Equipment**

Forestry and agriculture represent major feedstock sources for liquid and gaseous transportation fuels, conventional and advanced, including site reports, a selection of the best equipment developed for this industry.

**Directory: Biogas Technology Suppliers**

A special digital stand alone issue of Bioenergy International dedicated to the global anaerobic digestion (AD), biogas & biomethane industry. A review of 2019 & outlook for 2020, technology features & case studies, it will be made available FREE online.

**Directory: Pellets Special Suppliers**

First published in 2005, the "World of Pellets" (pellets) and agri-biomass pellets. A companion to the "World of Pellets" directory, the pellets special includes advanced biomass pellets (aka black material).
BIOENERGY – THE UNSUNG ENERGY TRANSITION HERO

Half of all renewable energy consumption in 2018 came from modern bioenergy, and, according to the International Energy Agency’s (IEA’s) latest market forecast – Renewables 2019 Market Analysis and Forecast to 2024 – modern bioenergy (liquid biofuels, solid biomass, biogas, municipal and industrial waste) will continue to have the biggest growth in renewable resources between 2019 and 2024.

Although buildings are anticipated to account for over half of global renewable heat growth, followed by industry, the share of global heat consumption from renewables is expected to increase only marginally, from 10 percent today to 12 percent in 2024. Overall, the IEA notes that renewable heating (and renewable cooling) potential remains “vastly underexploited” and deployment is not in line with global climate targets, which calls for greater ambition and stronger policy support.

According to the International renewable Energy Agency (IRENA), bioenergy was the second largest employer 2017-2018 – over 3.22 million direct and indirect jobs globally were found in bioenergy – the population of Mongolia (ranked 136 in the 2019 revision of World Population Prospects). Many of these employment and payment opportunities are found in rural areas where both the feedstock and production plant are located such as corn and sugarcane ethanol plants, manure-based biogas plants or wood pellet plants – a circular bioeconomy symbiosis.

Benefits aside, biomass is still arguably the most misunderstood and emotive energy source. Its inherent diversity and interdependency makes it complex. This would seem especially true for so-called crop-based biofuels – grain ethanol or palm oil biodiesel – as well as forest derived biomass such as wood pellets. A recently published “four fundamentals guide” to help policymakers develop a science-based approach when discussing carbon accounting and the potential role forest biomass energy can play in energy and climate policy is particularly useful.

1 The carbon benefits of sustainable forest biomass energy are well established – most debates regarding the carbon benefits of forest biomass energy are about the timing of the benefits rather than whether they exist.

2 Measuring the carbon benefits of forest biomass energy must consider cumulative carbon emissions over the long term – the most effective carbon mitigation measures are those which reduce carbon accumulation in the atmosphere over time. Comparisons between forest biomass emissions and fossil fuel emissions at the time of combustion and for short periods thereafter do not account for long term carbon accumulation in the atmosphere and can significantly distort or ignore comparative carbon impacts over time.

3 An accurate comparison of forest biomass energy carbon impacts with those of other energy sources requires the use of consistent timeframes in the comparison – measuring the net cumulative carbon emissions from forest biomass energy over a 100 year timeframe, as is done for fossil fuels, more accurately captures and more appropriately demonstrates the cumulative carbon benefits of bioenergy compared to fossil fuels.

4 Economic factors influence the carbon impacts of forest biomass energy – demand for wood helps keep land in forest and incentivizes investments in new and more productive forests, all of which have significant carbon benefits.

2020 sees Bioenergy International enter into its 19th consecutive year of publication, reporting firsthand on biomass to energy developments around the world. A big shoutout and thank you to all of our advertisers, readers, sponsors and subscribers that have made this milestone possible. It is your advertising, sponsoring, and subscription custom that enables our coverage and dissemination through the different channels and platforms. We look forward to 2020 and continuing as part of the growing global bioenergy movement, together with you.