



WBA Global Bioenergy Statistics 2017

Bharadwaj Kummamuru
World Bioenergy Association

25th European Biomass Conference and Exhibition
Stockholm, Sweden



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Why Data?

*The **availability of high quality, timely and disaggregated data** is vital for evidence based decision making and to ensure accountability for implementation of the 2030 Agenda. Tracking progress on the Sustainable Development Goals requires **an unprecedented amount of data and statistics at all levels**, which poses a major challenge to national and international statistical systems. The **global statistical community** is working to modernize and strengthen statistical systems to address all aspects of the production and use of data for sustainable development.*



United Nations E/2017/66*

 **Economic and Social Council** Distr.: General
11 May 2017
Original: English

2017 session
28 July 2016-27 July 2017
Agenda items 5, 6 and 18 (a)

High-level segment
High-level political forum on sustainable development,
convened under the auspices of the Economic and
Social Council

Economic and environmental questions:
Sustainable development

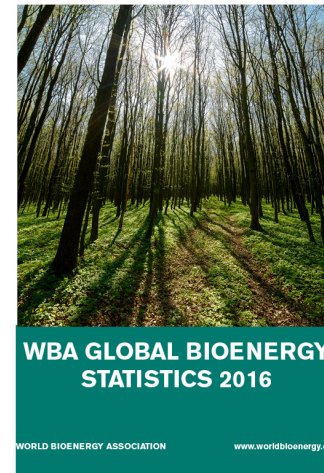
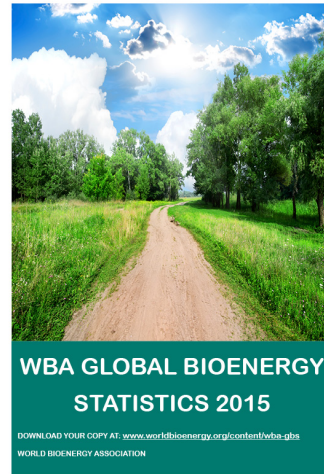
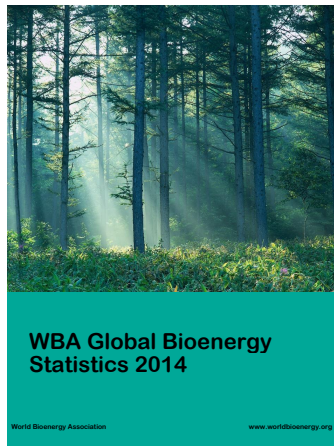
Progress towards the Sustainable Development Goals
Report of the Secretary-General

Summary

Pursuant to General Assembly resolution 70/1, the Secretary-General, in cooperation with the United Nations system, has the honour to submit the report on progress towards the Sustainable Development Goals. The report provides a global overview of the current situation of the Goals, on the basis of the latest available data for indicators in the global indicator framework.*

* The report was submitted on 10 May 2017 because of new data updates from a few international organizations.

Global Bioenergy Statistics



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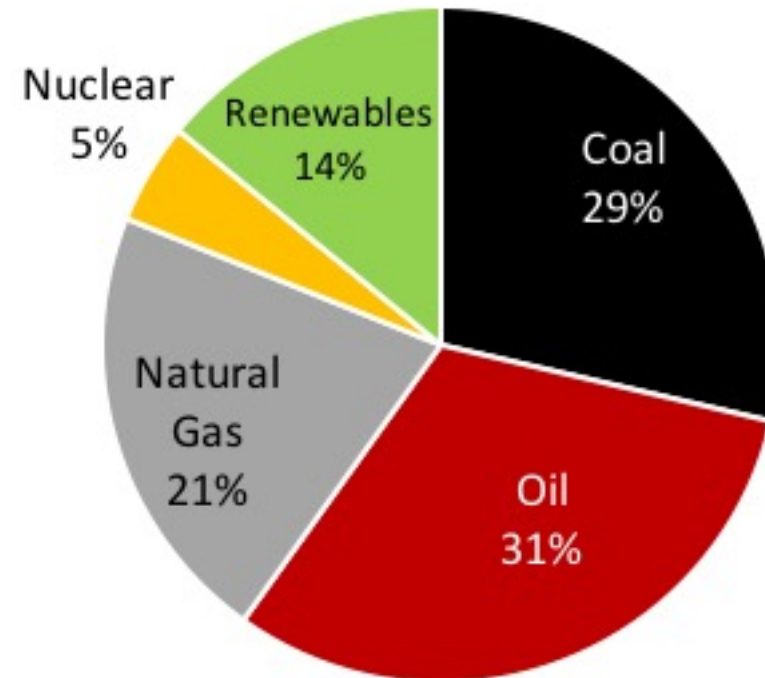
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Global Energy Supply



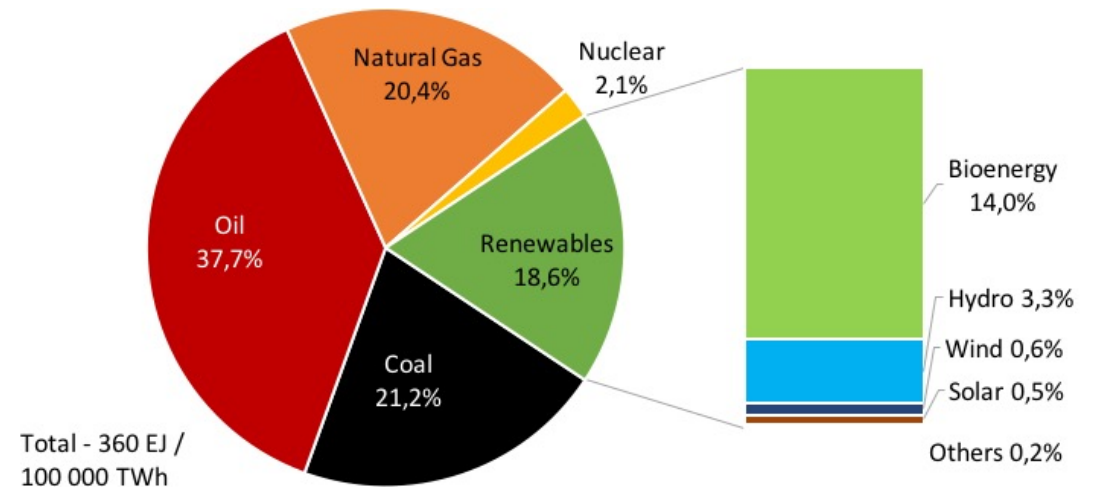
- The global energy supply is still dominated by fossil fuels.
- Renewables share is at 14.1%.
- Since 2000, the increase is only 1%.



Global energy consumption



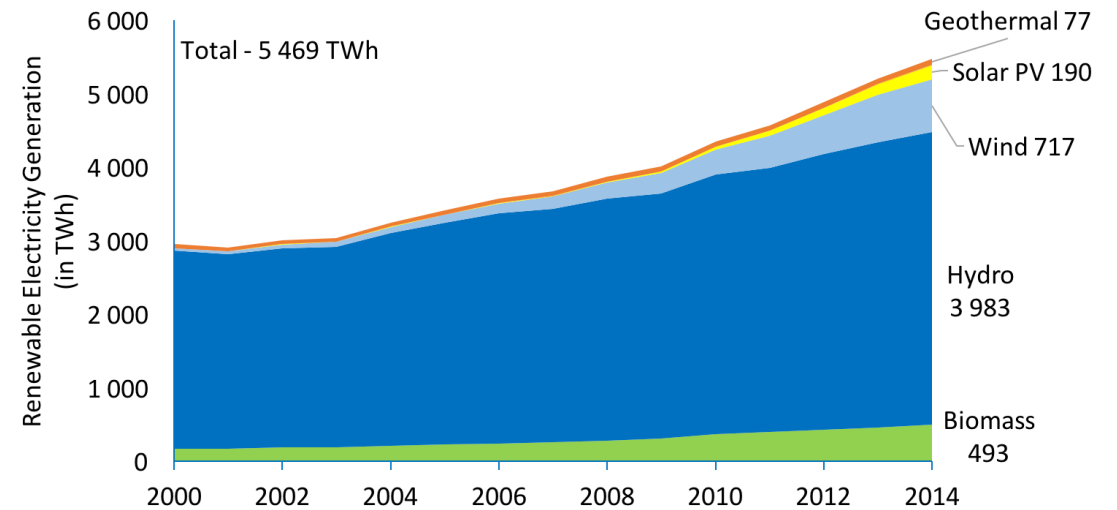
- Renewable energy share increased by 0.2%
- Current renewables share is at 18.6% (2014)
- Bioenergy is the largest renewable energy source (14%)
- Progress on the right path, but too slow



Renewable Electricity



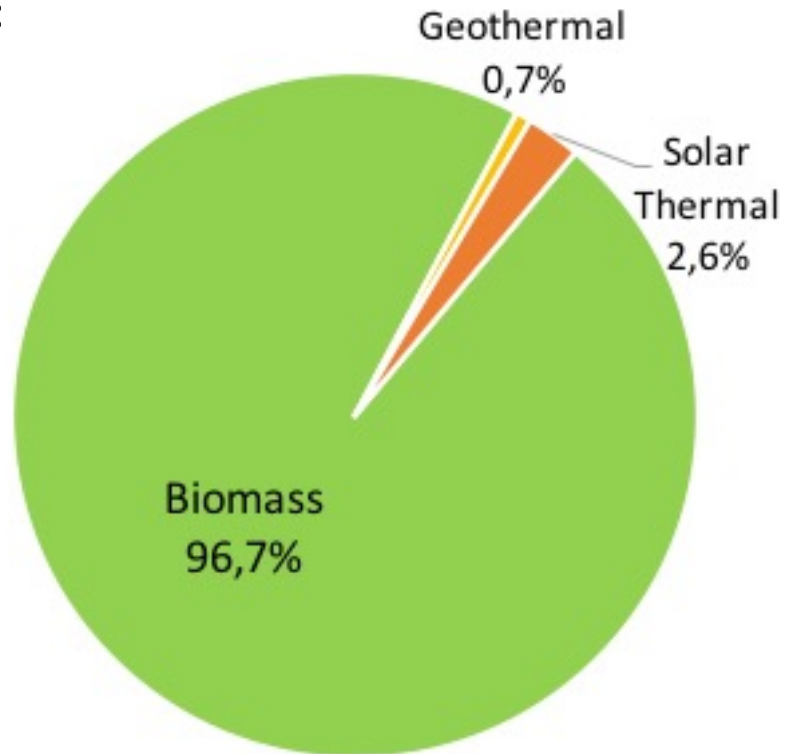
- Renewables generated 5 469 TWh of electricity in 2014.
- Hydro is the largest renewable electricity generating source
- Bioelectricity is the 3rd largest renewable electricity generating source globally
- Current production at 493 TWh



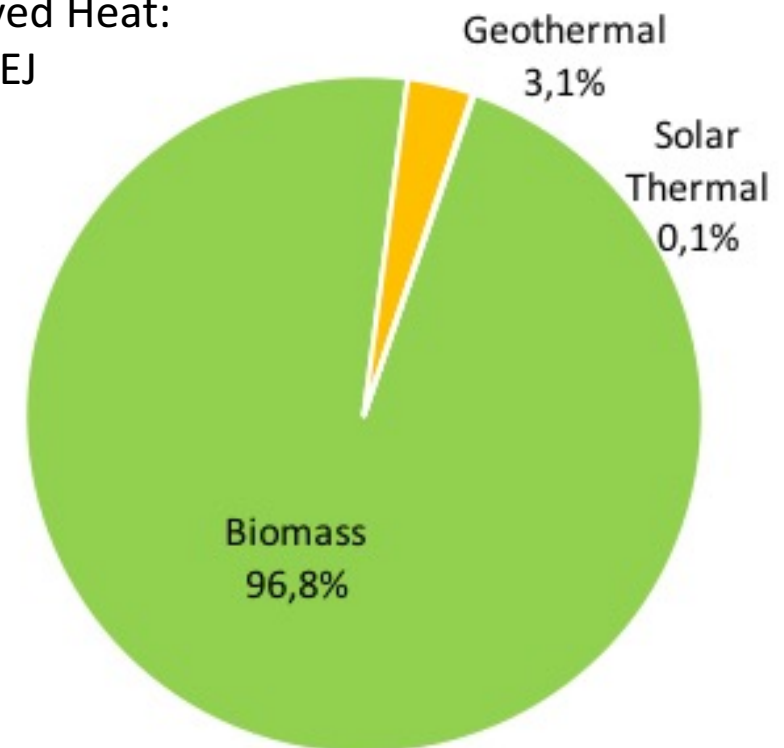
Renewable heat



Direct Heat:
46.7 EJ



Derived Heat:
0.95 EJ

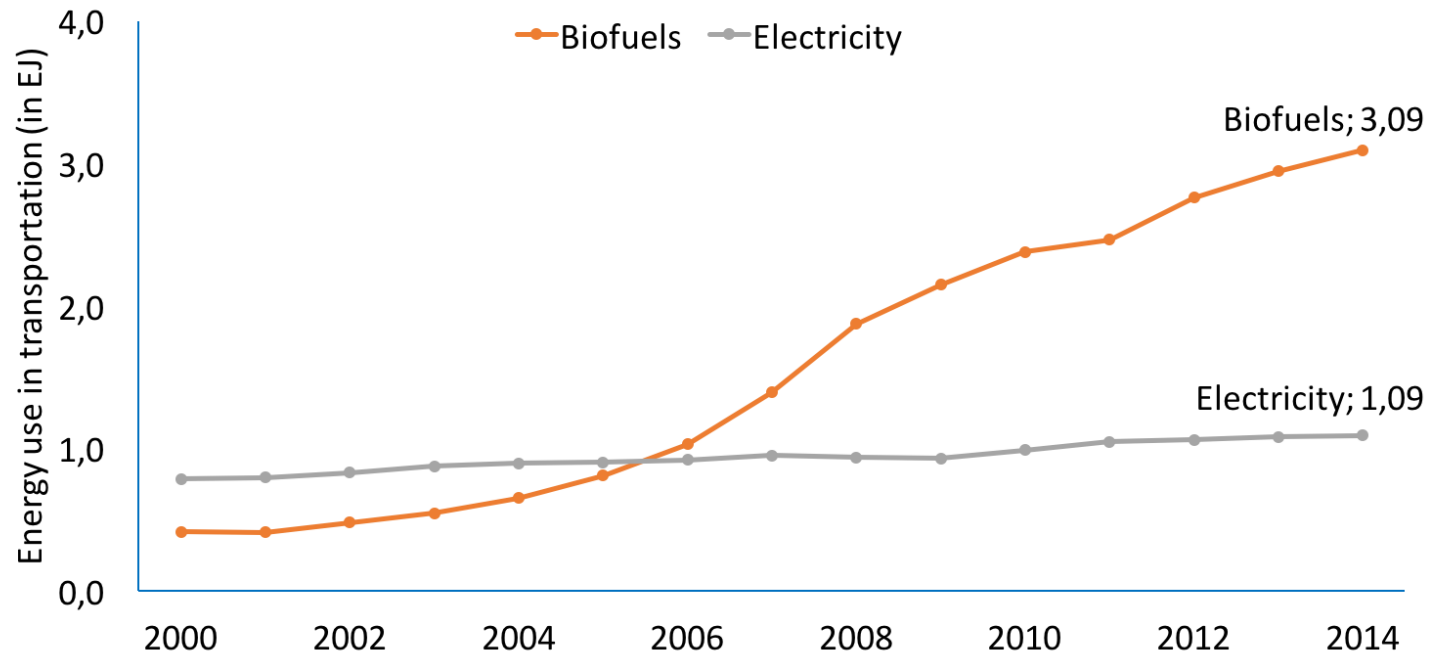


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Renewable transport



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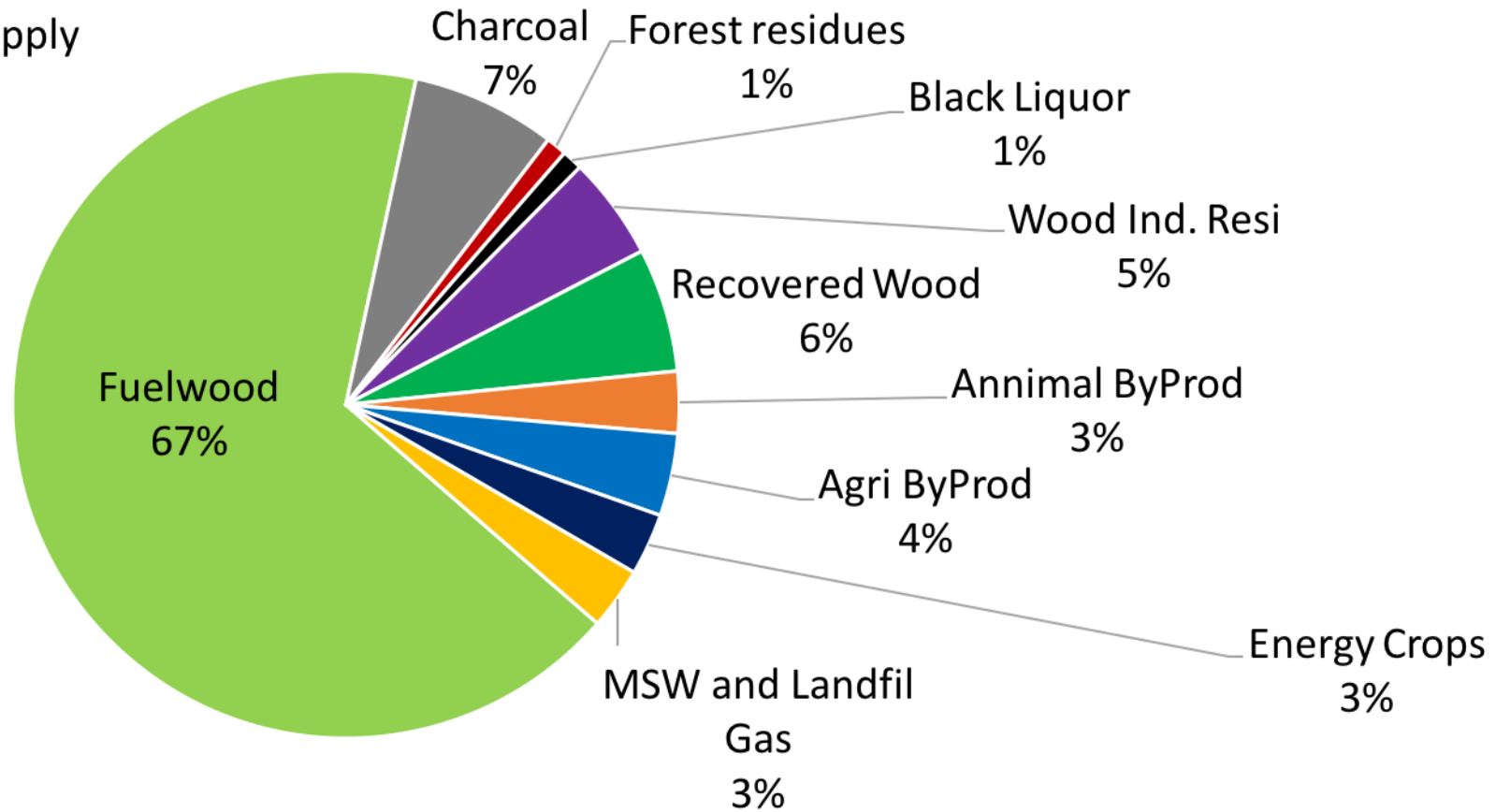
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Feedstock



Biomass Supply
- 59.2 EJ

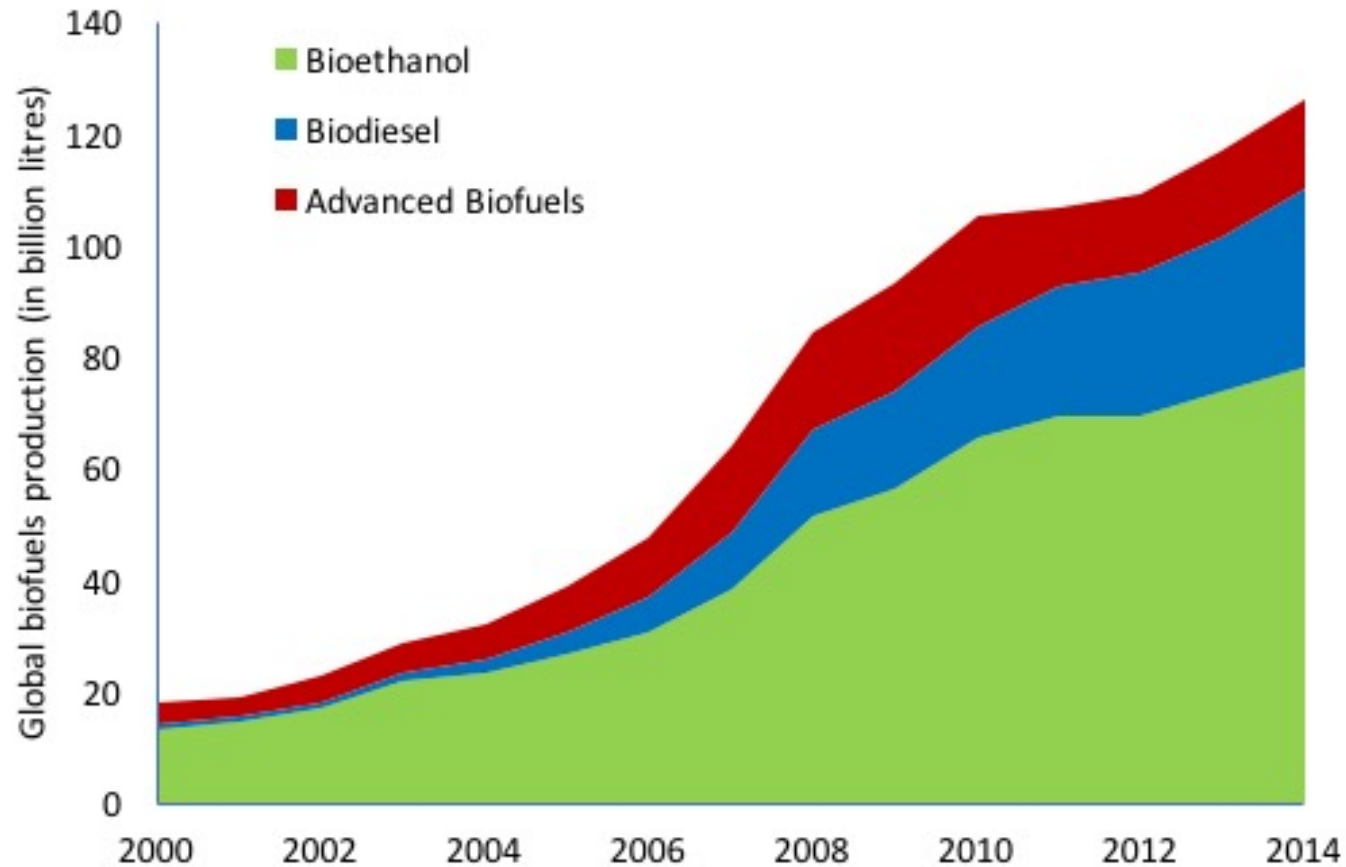


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Bioenergy sectors – Liquid Biofuels

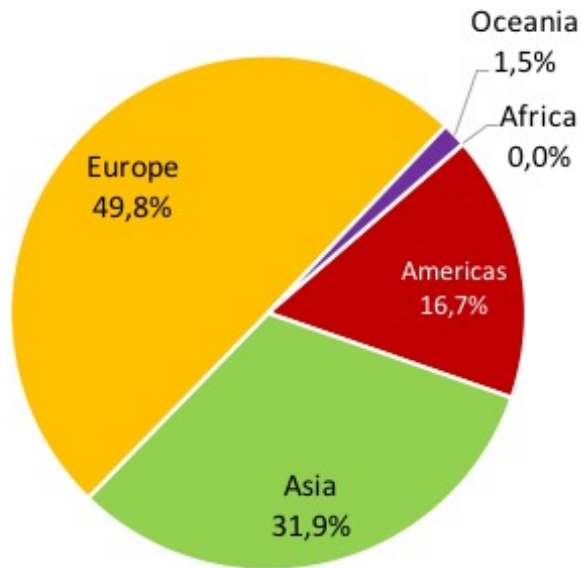


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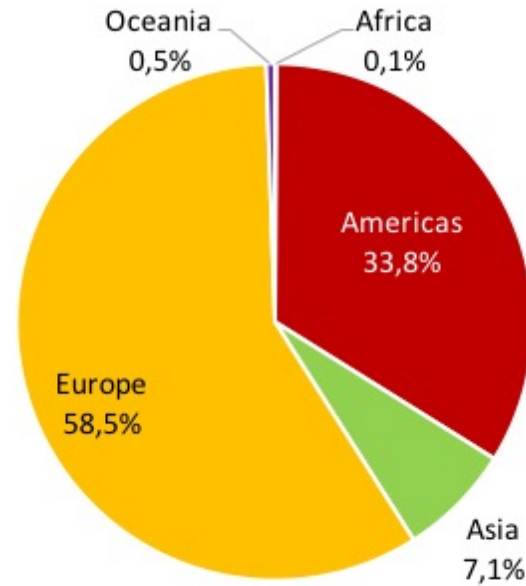
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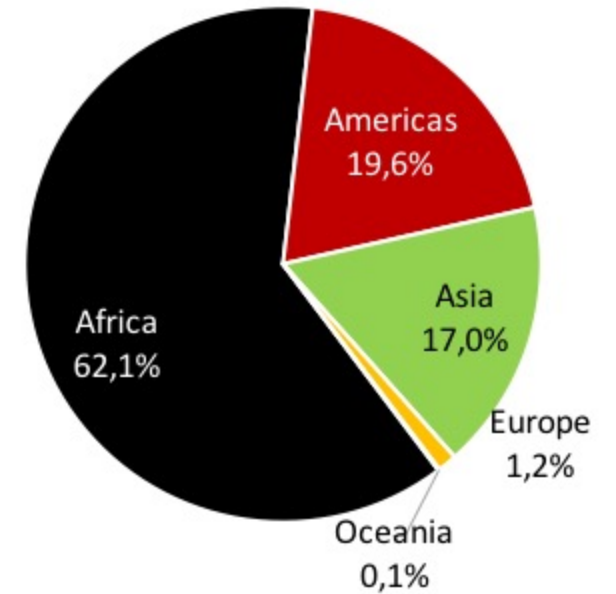
Special sectors



Biogas – 58.7 billion Nm³



Pellets – 28 million tonnes



Charcoal – 52 million tonnes

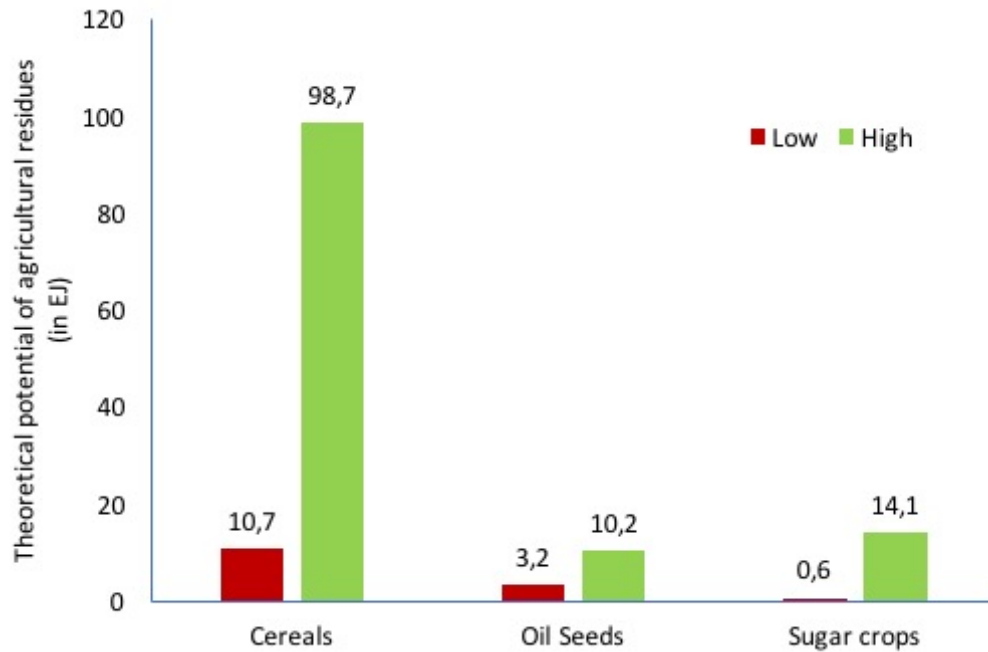


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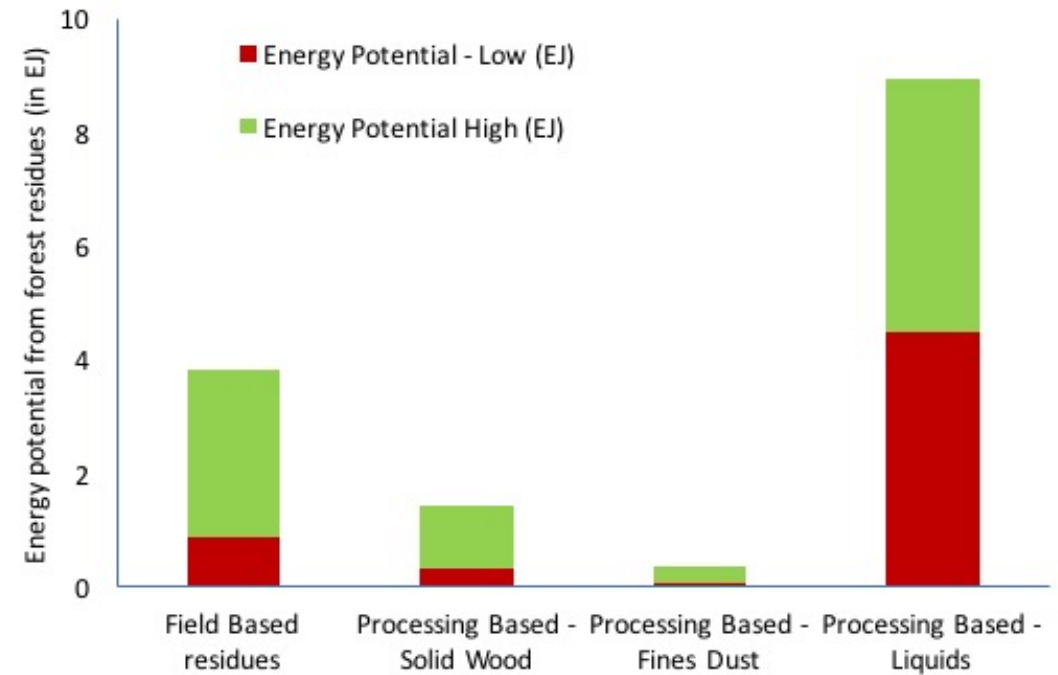
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Residues



Agricultural residues



Forestry residues



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Country statistics



- WBA initiative to gather data
- In 2017 report – 9 countries
 - China, India, Malaysia, Uganda, Malawi, Japan, Ivory Coast, Iran, Bosnia and Herzegovina, Cape Verde
- General Data, Forestry, Agriculture, Waste, Bioenergy, Jobs, Prices

Table 71 Bioelectricity generation

	China	India	Malaysia	Uganda	Malawi	Japan	Ivory Coast	Iran	Bosnia & Herzegovina	Cape Verde
Total Installed Capacity (MW)	10 318	9 112	661		0	41 996 ***				
Solid Biomass (MW)	5 304		686*		18	1 280 ***				
Liquid Biofuels (MW)						0.28 ***				
Biogas (MW)	331		65*			4.94 ***		20.8**		
Black Liquor (MW)						31 635 ***				
Municipal Solid Waste (MW)	4 683					9 033 ***		25.6**		

GWh *TWh

More information



- Fuelwood
- Land area
- Crop data
- Global, continent and top countries
- Jobs
- Land use of biofuels
- Protein production

WBA – Organization





- Governed by the board
 - 19 board members from 17 different countries (*Lithuania, Germany, Canada, Australia, Kenya, Turkey, Brazil, Belgium, Singapore, Austria, Malaysia, Japan, Sudan, Sierra Leone, UK, China, Sweden*)
 - Representing all sectors of bioenergy from all continents
 - Private sector, academics, consultants, associations etc.
- Secretariat
 - President – Remigijus Lapinskas (Lithuania)
 - Office – Karin, Bharadwaj, Remigijus, Heinz, Viktorija
- Membership
 - More than 200 members from 50 countries











ORGANIZATION

President
Remigijus Lapinskas
President, World Bioenergy Association, Lithuania



Vice Presidents

 Andrew Lang Agronomy and bioenergy consultant, World Bioenergy Association Australia	 Bernard Muok Director, Centre for Res. Innov. & Tech., JCOUST, Kenya	 Douglas Bradley President, Climate Change Solutions, Canada	 Tanay Sidiqi Uyar President, Bioenergy Association of Turkey, Turkey	 Laercio Couto President, RENAING - The Brazilian Network of Biomass for Energy, Brazil
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 Christoph Pfemeter CEO, Austrian Biomass Association, Austria	 Geraldine Kutas Head of International Affairs, UNICA Brazil/Belgium	 Haziq Fariuk Assistant Prof., School of Mechanical Engg., Sultan University of Science & Technology, Sultan	 Hisashi Kajiyama President, Bioenergy Research and Investment (BERI) Inc., Japan	 Hong Hao Chairman, Great Resources (GRNI) Corp. PLC, China
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 Saku Rantanen Chief Executive, Terra Bioenergy, Singapore	 Wan Ansa Bi Ibrahim Head of Bioenergy Program, Forest Products Division, Forest Research Institute, Malaysia	 Werner Stemann Technical Director, Amandus Kallit GmbH Germany		

WBA secretariat

 Karin Haara Executive Director, Sweden kari@haara@worldbioenergy.org	 Bharadwaj Kummamuru Project Officer India bharadwaj.kummamuru@worldbioenergy.org	 Heinz Koppitz Senior Consultant, Australia hg.koppitz@netway.at	 Viktorija Karlauskaitė Project Assistant, Lithuania viktorija.karlauskait@worldbioenergy.org
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WBA – Activities

- Global Bioenergy Statistics
- Bioenergy Equipment Directory
- Factsheets
- Country mission reports
- Role of bioenergy in cities
- Setting up bioenergy associations/Bioenergy hubs
- Workshops, webinars and side events (e.g. COP)
- Bioenergy action plans
- Sustainability label
- Collaborations – REN21, IRENA, REN Alliance, Go100%, ISO
- Observer – UNFCCC, Green Climate Fund



New Website – Subscribe



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Membership



- Membership Types
 - Full Members – Bioenergy associations (300 – 5000 Euros/year)
 - Associated members – Companies (300 – 5000 Euros/year)
 - Individual members – Individuals (50 Euros/year)
- Benefits
 - Strengthen lobbying in favor of bioenergy
 - Access to WBA network of companies, partner associations and experts
 - Possibilities to collaborate on WBA projects
 - Invitation (WBA discounts) to conferences and workshops etc.

Thank you!



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