# WBA Global Bioenergy Statistics 2017

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World Bioenergy Association

25th European Biomass Conference and Exhibition
Stockholm, Sweden

WORLD BIOENERGY ASSOCIATION



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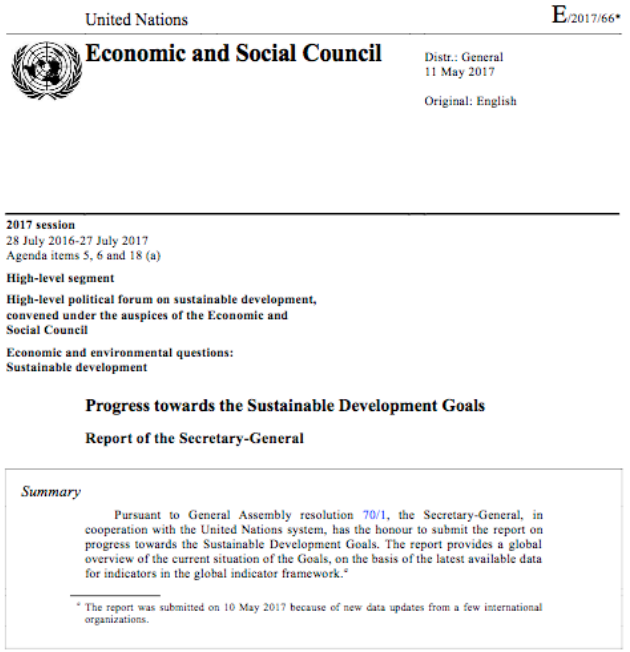
# Why Data?

*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.

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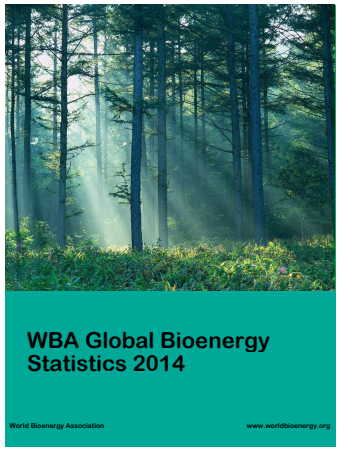
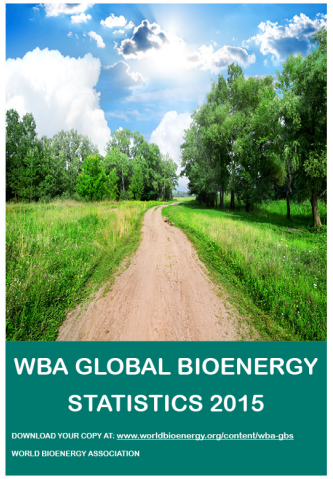
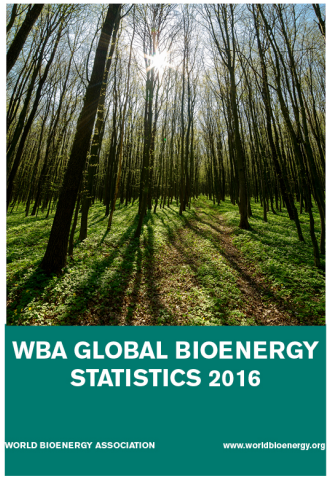
# Global Bioenergy Statistics

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# WBA GLOBAL BIOENERGY STATISTICS 2017

www.worldbioenergy.org

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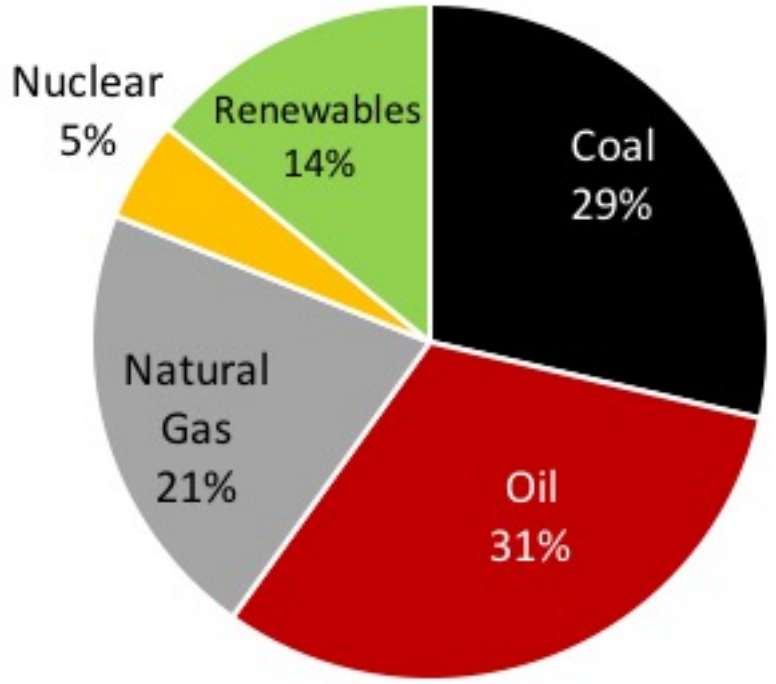
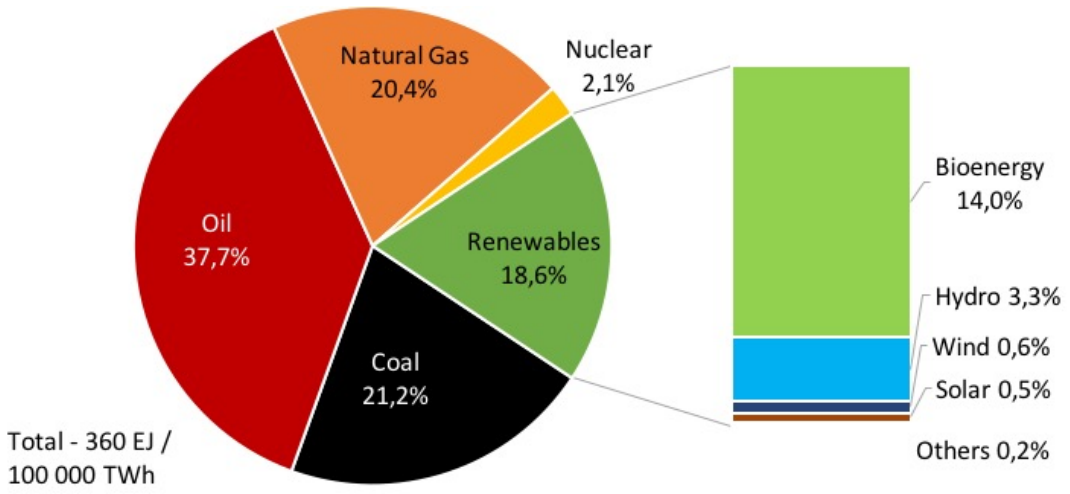
# Global Energy Supply

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



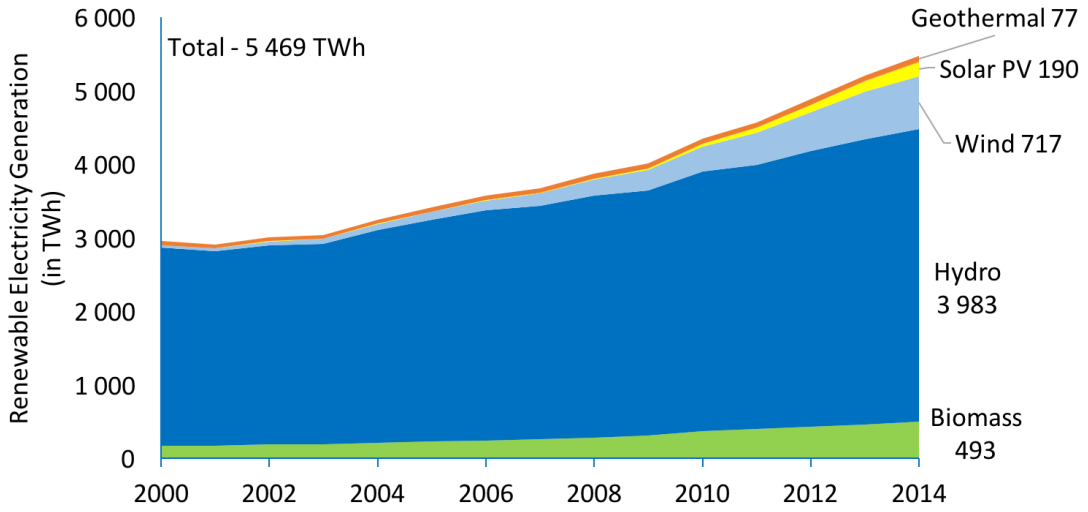
# Global energy consumption

- 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



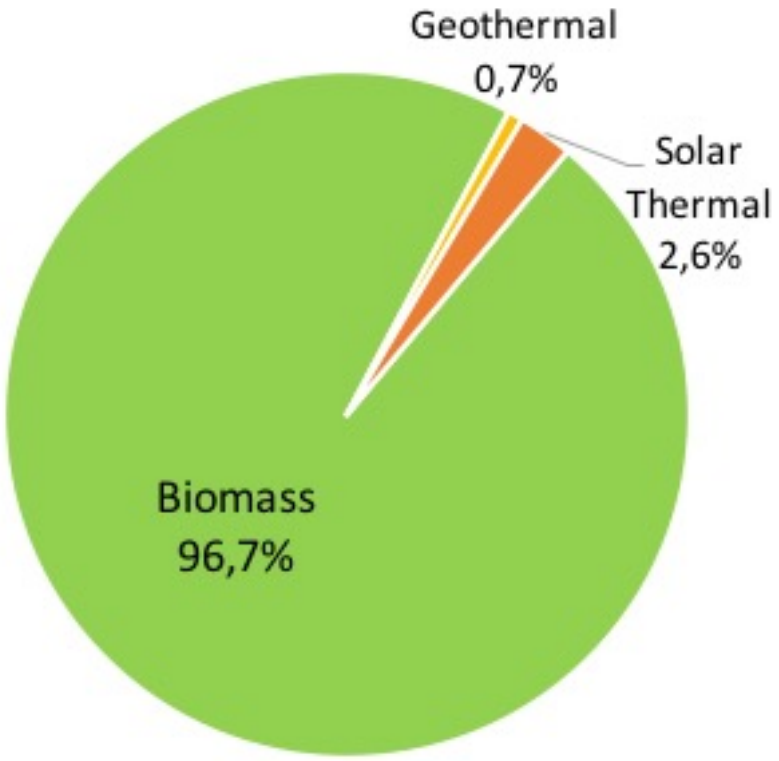
# Renewable Electricity

- 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

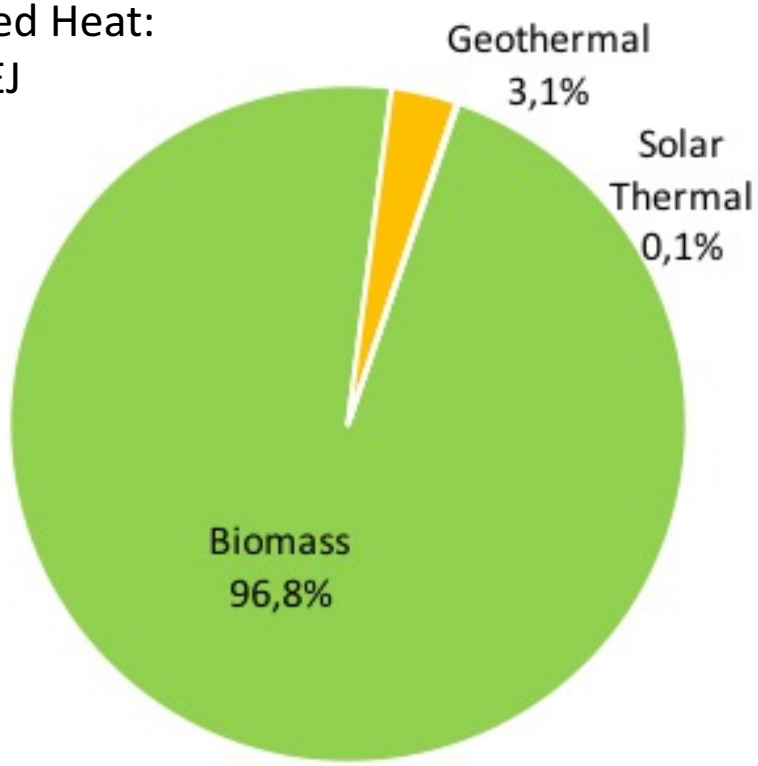


# Renewable heat

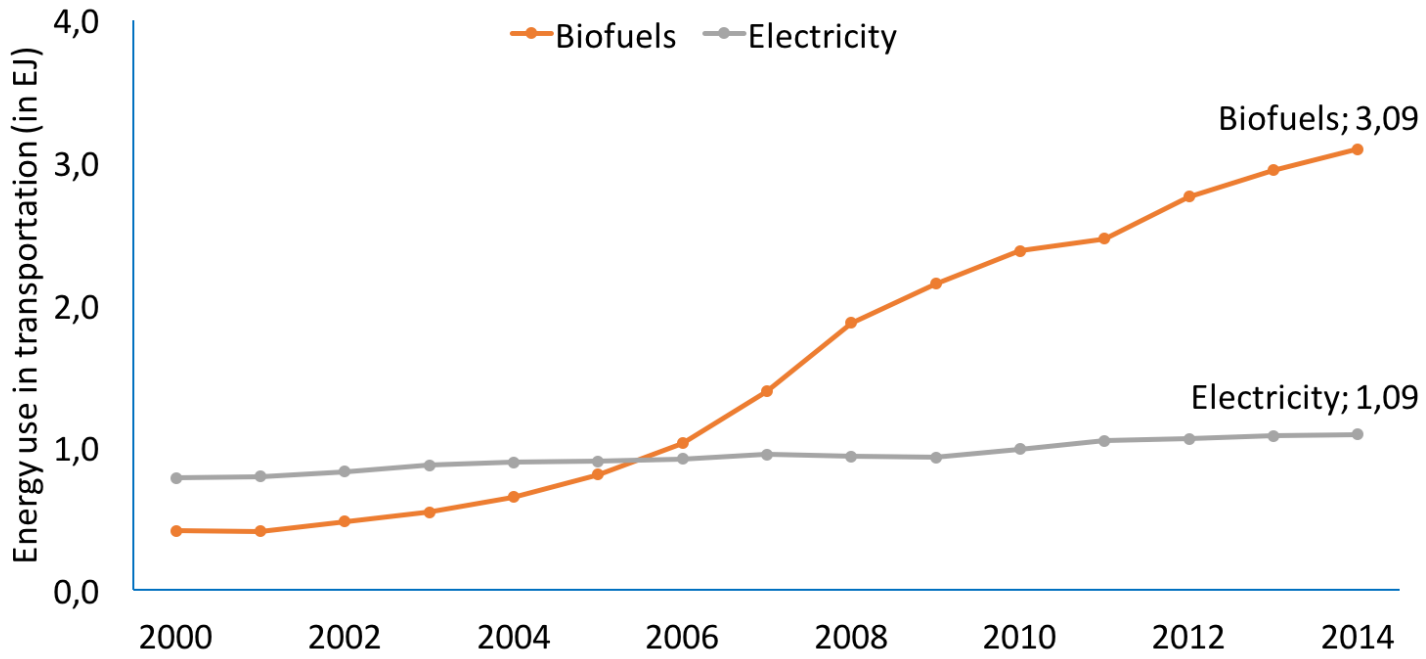
Direct Heat:
46.7 EJ



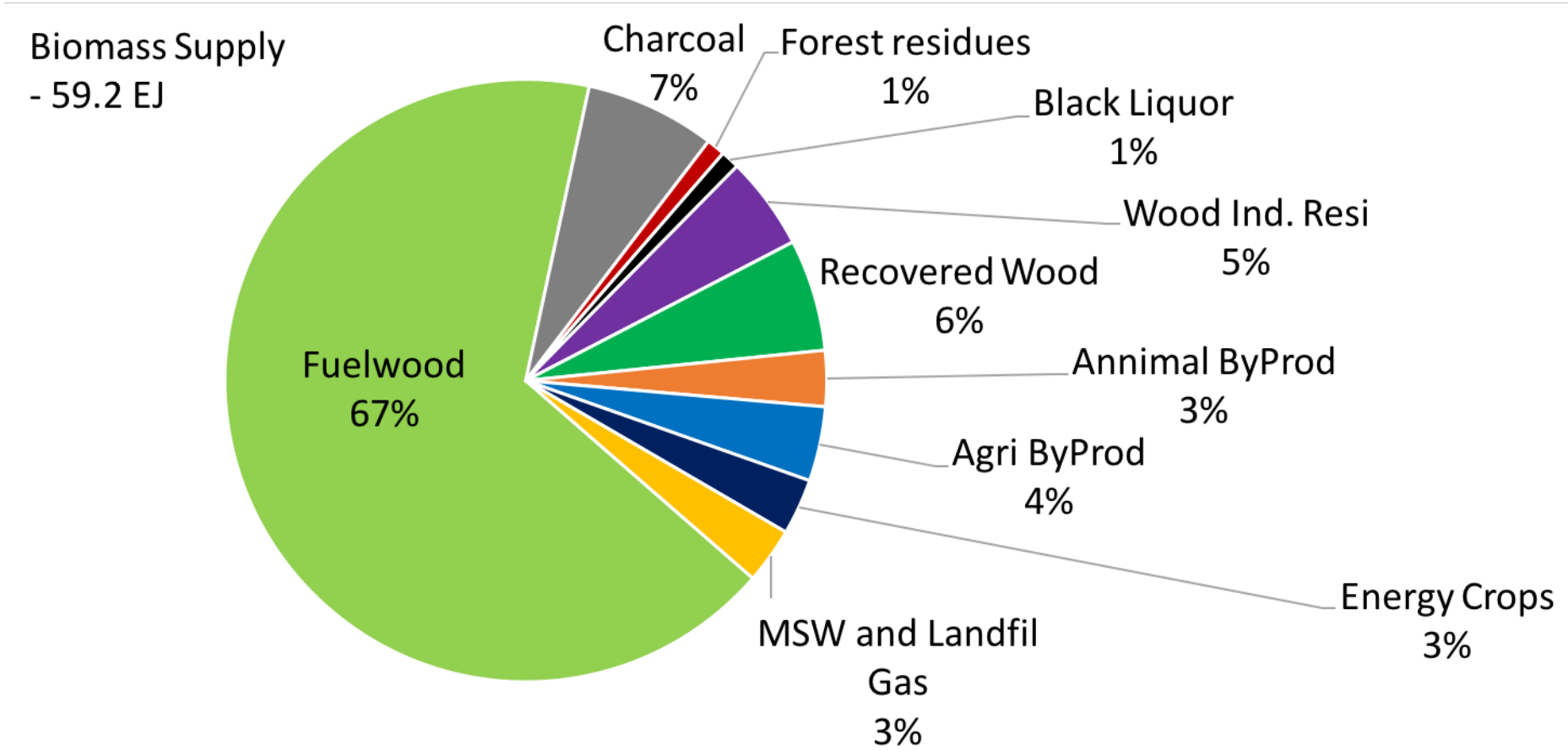

Derived Heat:
0.95 EJ



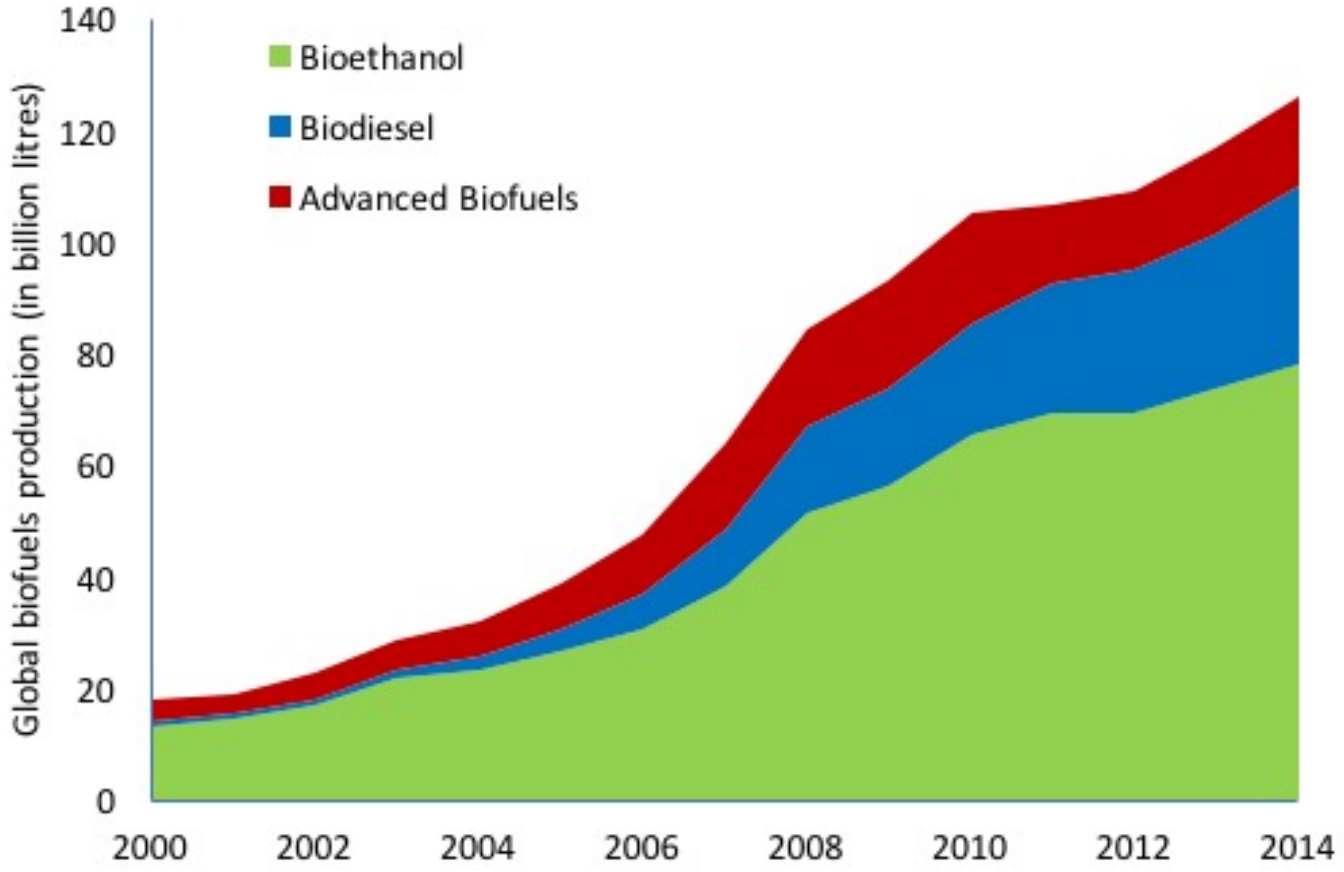
# Renewable transport



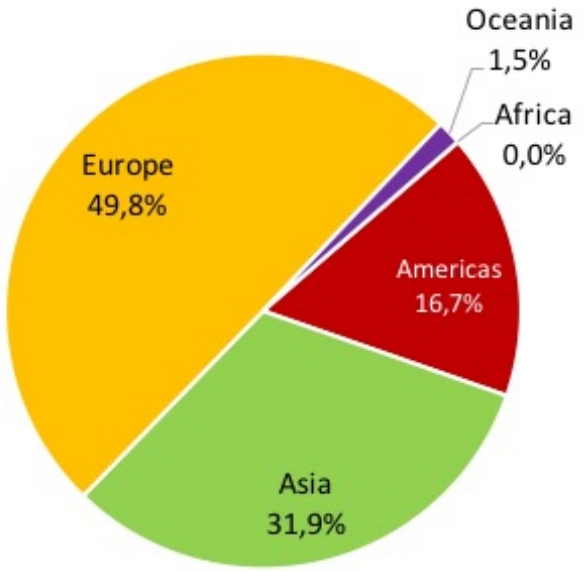
# Feedstock


Biomass Supply
- 59.2 EJ
Charcoal
7%
Forest residues
1%
Black Liquor
1%
Wood Ind. Resi
5%
Recovered Wood
6%
Annimal ByProd
3%
Agri ByProd
4%
Energy Crops
3%
MSW and Landfil
Gas
3%
Fuelwood
67%

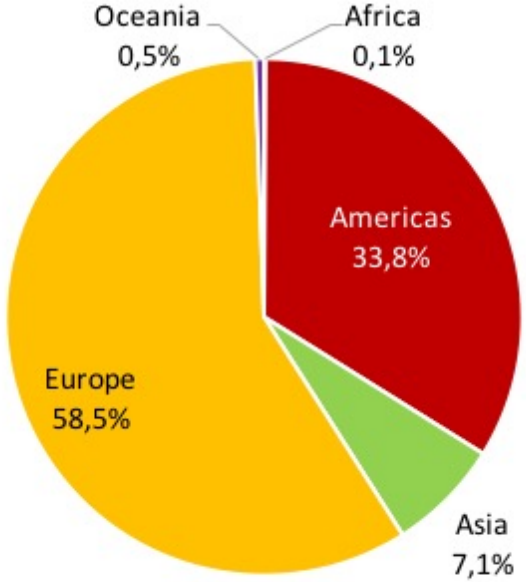
# Bioenergy sectors – Liquid Biofuels



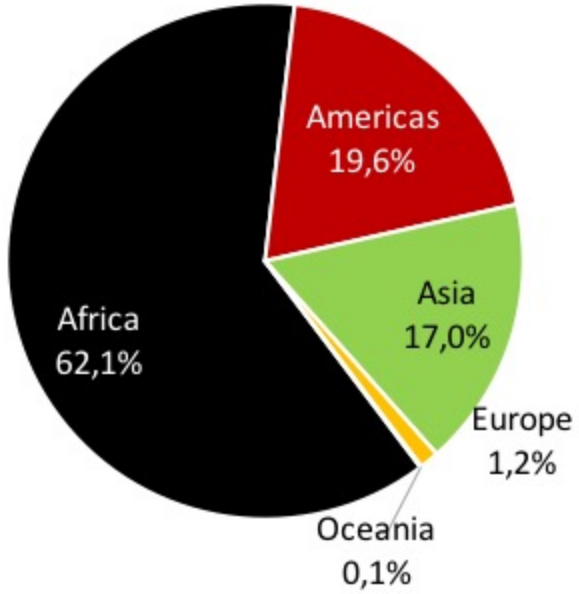
# Special sectors




Biogas – 58.7 billion $Nm^3$

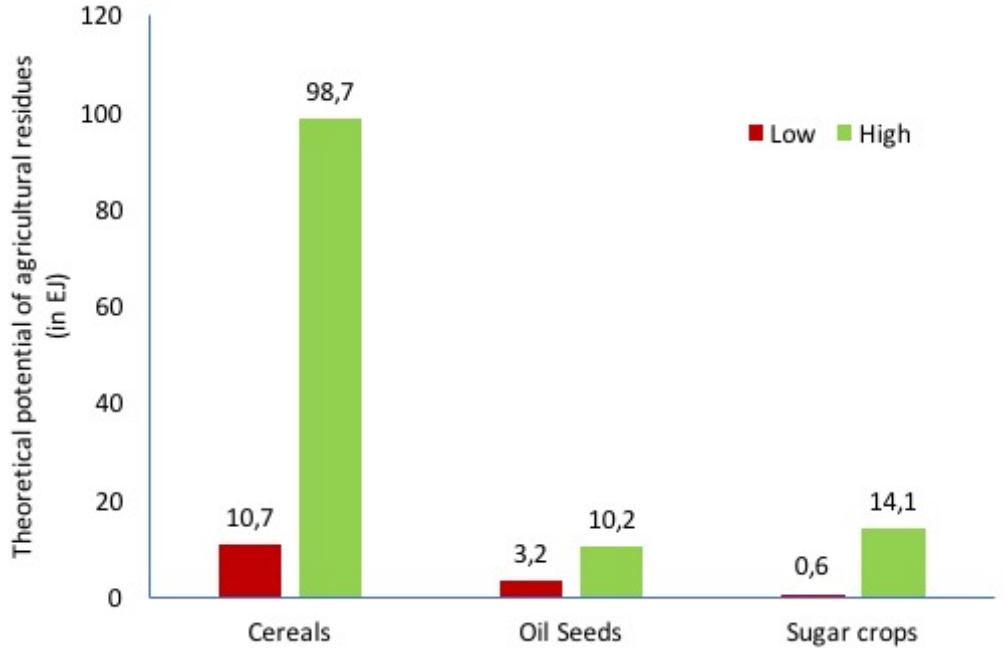



Pellets – 28 million tonnes

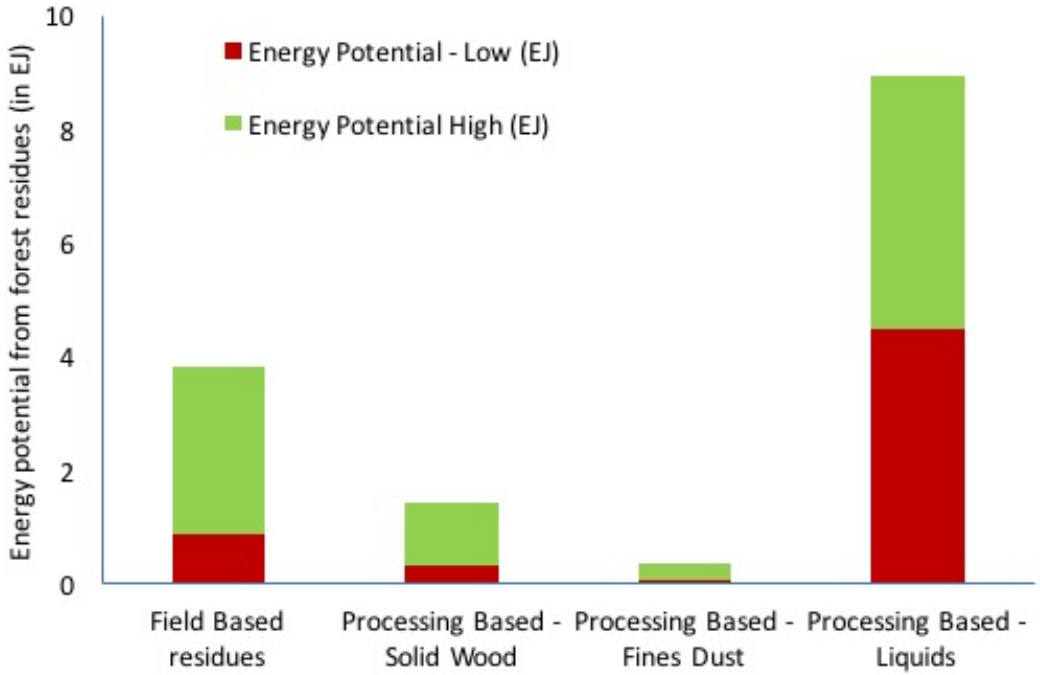



Charcoal – 52 million tonnes

# Residues




Agricultural residues




Forestry residues

# 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 & Herzego-vina | 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** | | |

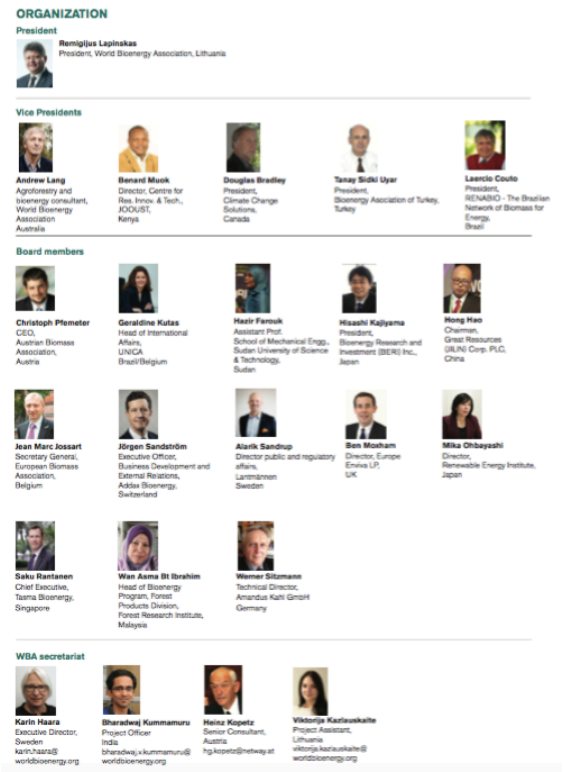
**GWh ***TWh

# 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

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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





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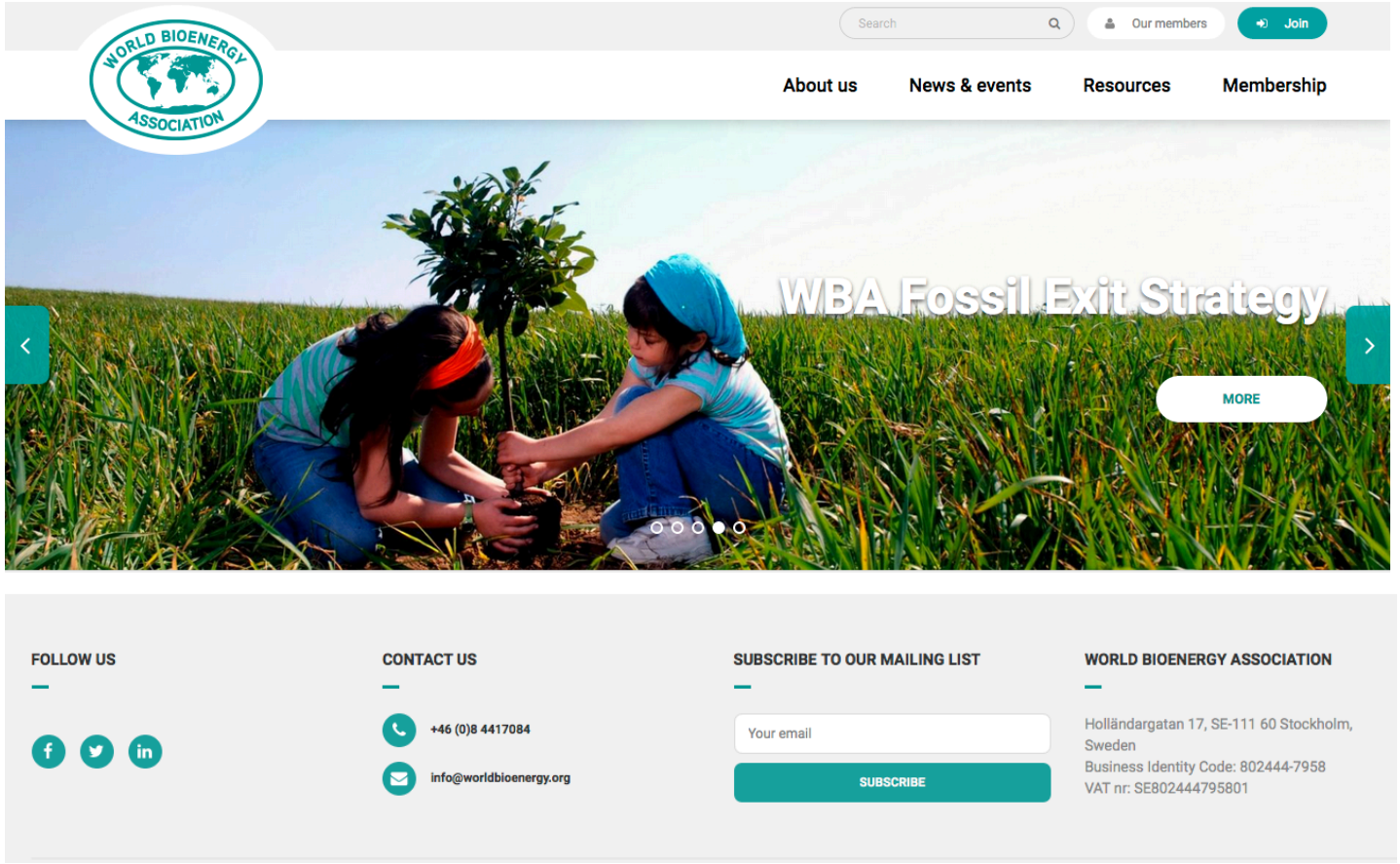
# New Website – Subscribe



# 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!


World Bioenergy Association

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