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Modern bioenergy: the overlooked giant of renewables

Modern bioenergy is the only renewable source that can provide electricity, direct heat and transport fuels. Two thirds of modern bioenergy heat is used in industry.
Total renewable energy consumption is expected to increase by almost 30% over 2018-2023, covering 40% of global energy demand growth.
Strong bioenergy deployment required between now and 2030

Total bioenergy consumption called for in IEA’s 2DS scenario.

Bioenergy consumption needs to double by 2030, and biofuels in the transport sector will need to treble. Advanced biofuels will need to massively scale up.
Biofuels play a critical role in all existing climate scenarios to reach Paris goals.

Transport fuel demand comparison 2015 with 2DS and 4Ds in 2050

A significantly increased biofuels share is essential to move towards a 2DS in the transport sector.
20 countries launch the Biofuture Platform at COP22

Launch event also attended by heads and top-level representatives of FAO, IEA, IRENA, UNIDO, SE4ALL and of private sector organizations such as the WBCSD, UNICA, ABBI.
Biofuture Member Countries

- Argentina
- Brazil
- Canada
- China
- Denmark
- Egypt
- Finland
- France
- India
- Indonesia
- Italy
- Morocco
- Mozambique
- Netherlands
- Paraguay
- Philippines
- Sweden
- United Kingdom
- United States
- Uruguay
Biofuture Platform – main activities

• International policy conferences: promote dialogue, exchange, policy convergence, collaboration

• Launch of a Declaration on the bioeconomy to provide strong signal to markets. Proposed title: "Scaling-up the low carbon bioeconomy: an urgent and vital challenge “

• Preparation of the 1st “Biofuture State of the Low Carbon Bioeconomy Report”
A collective effort of international initiatives on bioenergy

Policy debate, country ownership, advanced bioeconomy

Sustainability, capacity building, cooperation

Agricultural and biomass practices

Scientific and technical collaboration

Energy analysis, knowledge

Renewable energy deployment, development cooperation

Research and innovation promotion, collaboration

Private sector link
Biofuture Platform – 2017/2018 events

- **Biofuture/Mission Innovation CEM8 side event** (Beijing, June 8, 2017). Highlighting the role of the bioeconomy in a clean energy future.
- **Biofuture Summit** (São Paulo, October 24-25, 2017). Exchange national policy experiences.
- **Biofuture@COP23** High-Level Side event (Bonn, Nov 16, 2017). Stocktaking 1 year after launch, endorsement of the Biofuture Declaration.
“Creating the Biofuture” Report

• Based on public data, literature, and direct questionnaire with 23 countries + European Union (Biofuture and Mission Innovation Sustainable Biofuels Innovation Challenge countries)

• On track for launch by UNFCCC COP 24, December 2018

• Lessons: countries need to put in place a comprehensive framework tailored to their potential and realities.

• Push policies and pull policies are both necessary.
Vision Declaration: scaling up bioenergy: an urgent and vital challenge

• Provides context on the need to accelerate the bioeconomy in face of climate/energy models and scenarios, with emphasis on the transport sector
• Sets a vision and aspirational targets for the kind of growth needed by 2030 and beyond.
• Spurs change by listing a key examples of the kinds of policies and actions that could be deployed in order to make the targets become a reality in the desired timeframes.
The Vision Statement lists examples of positive actions that are already being implemented by governments, industry, the finance and research communities, like:

**Governments:**
- Carbon pricing regimes (including positive pricing tied to emissions savings);
- Targets and/or mandates for biofuels;
- Promote international biofuels trade

**Industry:**
- Invest in development and innovation;
- Become users of bioenergy and bioproducts

**Finance community:**
- Increase priority given to low carbon sustainable bioeconomy projects as key part of green finance portfolios

**Research community:**
- High quality research into new and/or improved bio-based processes and products;
- Provide evidence and analysis to build public confidence and consensus;
- Technical advice for public policies
Vision Declaration – Way Forward

“It will be important for governments at all levels, academia, industry and finance institutions to work together to develop a comprehensive suite of actions for consideration and to collectively pave the way to a lower carbon future”

“The role of the Biofuture Platform (...) is to provide a forum to support this collaborative effort and help monitor progress (...)

“The Biofuture Platform shall undertake a detailed analysis (...) with a view to:

a) work towards more specific targets;
b) devise an action plan outlining detailed actions to support achieving the targets; and
c) develop a reporting mechanism to track progress.”
The need to accelerate growth

The key message: sustainable bioenergy acceleration NEEDS to happen. And we NEED to make it happen, fast.

With the right measures, yes we can!

...But can we?