



Food and Agriculture
Organization of the
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ADVISORY COMMITTEE
ON SUSTAINABLE
FOREST-BASED
INDUSTRIES (ACSF)

Advisory Committee on Sustainable Forest-based Industries

62nd Annual Meeting

Wednesday 28 April 2021 (Day Two)



Agenda Day 2



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	Item	
8.	Welcome and overview of Day Two	ACSFI Incoming Chair
9.	Update on ACSFI's work on the bioeconomy	Secretary ACSFI
10.	State of the contribution of forests and forestry to the bioeconomy	Claude Durocher, FAO
11.	Using wood residues from forest industries for sustainable modern woodfuels as part of a bioeconomy strategy	Prof. Evelyne Thiffault, University of Laval
12.	Assessment of industrial roundwood production from planted forests	Benjamin Caldwell, FAO
13.	Q&A Ecosystem Restoration: Update on Background Report & Decade for Ecosystem Restoration Statement	Ludwig Liagre, FAO
14.	Opportunities for ACSFI Partnership Discussion: Partnership breakout discussion groups	Secretary ACSFI
	Break	
	Opportunities for Partnerships: Discussion group report back & discussion	ACSFI Incoming Chair
15.	2022 ACSFI Annual Meeting Location	ACSFI Incoming Chair
16.	Any Other Business	ACSFI Incoming Chair
	End Day 2	ACSFI Incoming Chair

9. Update on ACSFI's work on the bioeconomy



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- Release of the ACSFI Background report:
 - *The role of forest products in the global bioeconomy: possible actions for substitution to contribute to the Sustainable Development Goals*
Executive summary
 1. Introduction
 2. Global efforts related to a forest-based bioeconomy
 3. The role of forest products in the bioeconomy
 4. Innovative forest products with potential for substitution
 5. Opportunities offered by substitution with forest products
 6. Future supply and demand dynamics of forest products
 7. Knowledge and implementation gaps in forest product value chains
 8. Conclusions and recommendations

9. Update on ACSFI's work on the bioeconomy



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- Updates & Q&A today on bioeconomy projects being conducted in association with the ACSFI:
 - State of the contribution of forests and forestry to the global bioeconomy
 - Using wood residues from forest industries for sustainable modern woodfuels
 - Assessment of industrial roundwood production from planted forests
- The role of forests in the bioeconomy a core theme in multiple upcoming events and flagship publications:
 - World Forestry Congress (May 2022)
 - The State of the World's Forests 2022 (for release at WFC)
 - International Day of Forests 2022 (March 21)

9. Update on ACSFI's work on the bioeconomy



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- Communication & Dissemination
 - Range of bioeconomy related materials under development
 - Bioeconomy website – due to go live in coming weeks

The screenshot displays the ACSFI website interface. At the top, there are language options: 'english', 'français', and 'español'. Below this is a navigation bar with the title 'Pulp, paper and wood industries' and a 'send by email' link. The main content area features the heading 'How forest products contribute to the bioeconomy' with a subheading 'Reducing the material footprint and contributing to circularity and the sustainable use of natural resources'. Below this is a section titled 'Forest products and bioeconomy' which includes three images: a stack of logs, a modern wooden building, and a large sheet of wood. The text below the images explains the bioeconomy and its relation to forest-based resources.

english français español

Pulp, paper and wood industries

send by email

How forest products contribute to the bioeconomy

Reducing the material footprint and contributing to circularity and the sustainable use of natural resources

Forest products and bioeconomy

The bioeconomy is the production, utilization, conservation, and regeneration of biological resources, including related knowledge, science, technology, and innovation, to provide sustainable solutions (information, products, processes and services) within and across all economic sectors and enable a transformation to a sustainable economy. (Global Bioeconomy Summit Communiqué, 2020).

Among the biological resources contributing to the bioeconomy or "bio-based economy" are forest-based resources,

■ Infographics



9. Update on ACSFI's work on the bioeconomy



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- Factsheets on innovative forest products



9. Update on ACSFI's work on the bioeconomy



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Innovative and emerging forest products

BIOPLASTICS



Bioplastics produced from forest-based sources have the same characteristics and uses of their fossil-based counterparts.

The forest-based industry is focused on the production of food-grade bioplastics, with recent developments in packaging for produce and beverages. Other common applications include containers for hygiene and beauty products.

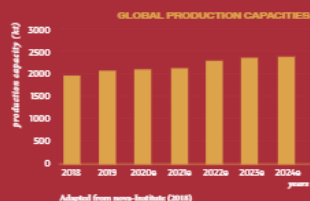
RAW MATERIALS

The industry is focused on using industrial side streams such as tall oil. Depending on the type of bioplastic to be produced, wood sugars and lignin can also be used as raw materials.



GLOBAL DEMAND and production

The current production capacity of second and third generation feedstock is 2.3 million tonnes and estimated to grow to 4.3 million tonnes by 2022



ENVIRONMENTAL impact

One of the great advantages is using raw material from a renewable source, especially from industrial side streams and waste. Besides using a renewable raw material that comes from industrial side streams, some bioplastics can contribute to circularity by being recyclable with cardboard. In addition, lignin-based plastics are biodegradable, and are a direct substitute for fossil-based plastics that would end up in the landfills.

PRODUCTS THAT can be substituted

Forest-based bioplastics are substitute for several types of fossil-based plastics, such as polyethylene and polyurethane.

Sources

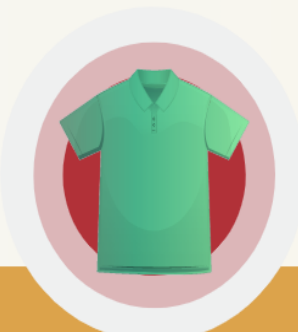
Crowe, L. (2018). The reinvention of bioplastics: new kids on the block. Biomaterials Insights. Available at <https://biomaterialinsights.com/the-reinvention-of-bioplastics-new-kids-on-the-block/>
Novo Institute. (2019). Global production capacities of bioplastics. Available at <https://www.european-bioplastics.org/impact/>



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Innovative and emerging forest products

WOOD-BASED TEXTILES



Properties similar to cotton, viscose and other natural fibres, such as lamb wool. Some are stronger than viscose and the texture is similar to cotton or lyocell. They can be spun into yarn and knitted, wove into fabric or for nonwovens, used on their own or blended with fibres from other sources, such as cotton, wool and man-made cellulose fibres.

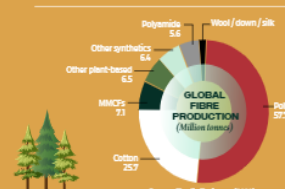
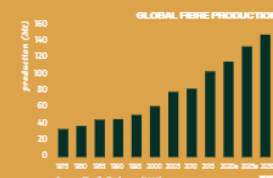
RAW MATERIALS

Wood pulp from kraft process, agricultural and biowaste-based cellulose.



GLOBAL DEMAND and production

The current global textile fibre market is of 111 million tonnes per year.



ENVIRONMENTAL impact

Newer technologies are straying away from the use harsh chemicals, opting for a combination of mechanical treatment and non-harmful chemicals, or no chemicals at all. They work as a closed loop and, at the end of life cycle, can be recycled using the same production process. They are also biodegradable.

PRODUCTS THAT can be substituted

Depending on the technology used to produce the fibre, wood-based fibres can substitute polyester, viscose, and cotton, among others.

Sources

Antikainen, R., Cechemmer, C., Widen, M., Junt, J., Jääskeläinen, T., Kuitila, R., Kivistö, E., Kulama, M., Lohmela, C. and Mäkelä, J. (2017). Potential of forest-based manufacturing towards a sustainable circular bioeconomy. Reports of the Finnish Environment Institute 12.
Textile Exchange. (2020). Refined fibre and materials. Market Report 2020. 102 p.



9. Update on ACSFI's work on the bioeconomy



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- ACSFI Bioeconomy Statement (Attachment 8.1)
 - Member comments
 - Updated Statement will be circulated for endorsement from all members on a non-objection basis
 - Welcome suggestions today on:
 - Content
 - Release dates/events: e.g. World Bioeconomy Forum scheduled for October 2021 in Brazil
- Partnership discussion today will allow members to present ideas to progress ACSFI's work related to the bioeconomy

10. State of the contribution of forests and forestry to the global bioeconomy



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- Claude to share screen

11. Using wood residues from forest industries for sustainable modern woodfuels



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- Evelyn to share screen

11. Assessment of industrial roundwood production from planted forests



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- Ben to share screen

ACSFI & the Bioeconomy



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Q & A

9. Update on ACSFI's work on Ecosystem Restoration



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- The Decade on Ecosystem Restoration is being co-led by FAO and the United Nations Environment Program
- Launch on World Environment Day: June 5
- ACSFI Strategic Framework identifies the UN Decade on Ecosystem Restoration as a topic of strategic importance
- ACSFI commissioned a background paper to better understand the relevance, opportunities and risks for the forest-based industries sector to engage in ecosystem restoration activities
- Webinar held on 24 March first ACSFI event as part of this workstream

9. Update on ACSFI's work on Ecosystem Restoration



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- ACSFI Ecosystem Restoration Statement (Attachment 13.3)
 - Member comments
 - Updated Statement will be circulated for endorsement from all members on a non-objection basis
 - Welcome suggestions on:
 - Content
 - Release dates/events
- Ludwig will present his findings to date and introduce the approach to the background study (Attachments 13.1 and 13.2)
- Partnership discussion today will allow members to present ideas to progress ACSFI's work related to the ecosystem restoration

ACSFI & Ecosystem Restoration



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- Ludwig to present

ACSFI & Ecosystem Restoration



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Q & A

14. Opportunities for ACSFI Partnership Discussion



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The ACSFI provides unique opportunities for building and strengthening strategic external partnerships with stakeholders and internal cooperation within FAO

- Increase outreach activities
- Facilitate joint action to achieve the vision and strategic goals of the Committee
- Follow guidance from the FAO Strategy for Private Sector Engagement
- Enhance its role and objectives with respect to achieving the SDGs with the private scale on a larger scale

14. Opportunities for ACSFI Partnership Discussion



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- Feedback from ACSFI members:
 - Bioeconomy
 - Ecosystem Restoration
- *How can we best work together to progress the recommendations to achieve optimal impact & facilitate the Secretariat's thinking around partnership development*
- You will be divided into breakout groups
- 30 mins discussion
- Guiding questions
- Report back (~3 minutes – be brief)

13. Opportunities for ACSFI Partnership Discussion



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- **Bioeconomy – Report recommendations for FAO:**
 - Facilitate comparative studies and global data collection efforts for monitoring the bioeconomy to assess achievements and address knowledge and implementation gaps
 - Facilitate knowledge exchange to strengthen the capacity of countries and private sectors in the transformation to a sustainable, circular bioeconomy by sharing technical knowledge, good practices and innovations
 - Promote international partnerships between academia, industry, finance and public administration

13. Opportunities for ACSFI Partnership Discussion



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- **Ecosystem restoration – Draft recommendations**
 - Reinforcing partnerships with existing initiatives such as WWW-New Generation Plantation platform
 - Creation of a new forest-based industries working group on sustainable finance for ecosystem restoration and restoration-friendly forest products
 - Supporting integration of good practices for ecosystem restoration valuation and valorization (e.g.UN SEEA)
 - Strengthening ties between forest-based industries companies and smallholder led business enterprises to develop new business models
 - Developing guidelines on good practices for ecosystem restoration

14. Opportunities for ACSFI Partnership Discussion



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- **Discussion groups – Bioeconomy & Ecosystem Restoration**
 - Prioritise the **top two** recommendations
 - Provide **two ideas** as to how FAO could partner with ACSFI members and other representatives from the private sector to progress the recommendation:
 - Partners?
 - Products and services delivered?
 - Implementation approach and requirements?
 - Start with your assigned area of interest (i.e. Bioeconomy or Ecosystem Restoration) and then swap to the other area if you have time

14. Opportunities for ACSFI Partnership Discussion



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REPORTING BACK

15. 2022 Annual Meeting location



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- Due to the impact of the pandemic the decision will be deferred until late 2021

16. Any Other Business



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Thank you for your attention!

