



Forest Bioeconomy in Russia – experience and prospects

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Issue of Definition

Elaborated jointly for cooperation on boreal forests:

Forest-based bioeconomy encompasses:

economic activity through the use of sustainably managed renewable forest resources, into value-added products while securing ecosystem services such as improved air and water quality, biodiversity, recreation, and human health.

Biotechnology and other innovative technologies are significant drivers in the bioeconomy and can facilitate the development of biobased industries, provide non-fossil fuel based alternatives to energy, chemicals and materials, and help achieve the global goals of sustainable development.



Sustainable Forest Management and SDGs

Forest Bioeconomy-Relevant SDGs

- Life on Land (SDG 15)
- Climate Action (SDG 13)
- Affordable and Clean Energy (SDG 7)
- Clean Water and Sanitation (SDG 6)
- Industry, Innovation and Infrastructure (SDG 9)
- Responsible Consumption and Production (SDG 12)
- Decent Work and Economic Growth (SDG 8)



SDG-reflection in Russia:

- Federal Plan on indicators for achieving SDGs in Russia (approved by Government of the RF in 2017)
- National set of SDG indicators is under development
- National WG on SDG monitoring functions under the Administration of the President of Russia





State Programme for Biotechnology Development in the Russian Federation until 2020 (BIO-2020)

❖ **Biotechnological platforms**

- «Medicine of the future»
- «Bio-industry and Bio-resources»
- «Bioenergy»

❖ **BIO-2020 Strategic Goals:**

- Development of Biotechnologies
- Creation of high-tech Bioeconomy sector
- Wide-scale implementation of modern biotechnological innovations in the key sectors of economy
- Building the technological and experimental basis for biotech industry





BIO-2020: Biotechnologies for forest stand management

Molecular labelling (DNA) – a priority for forest biotechnologies – aimed at:

- Improving principles and approaches of forest seed zoning;
- Genetic classification and certification of seeds;
- Phytosanitary control over nurseries and forest stands;
- Control over the legality of wood origin.





BIO-2020

Production of Energy from Biomass



Harvesting



Forest Renovation



Delivery to factory



Wood processing



Soft wood
timber

Bark, saw dust, chipped wood



Pellets



Heating energy (factories'
& municipal boiler facilities)

«Green» energy





Thank you!

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