

Special Issue

Impacts of Increasing Bioenergy Production on Timber Harvest and Carbon Emissions

Message from the Guest Editor

Demand for wood biomass has consistently increased in recent years worldwide as a response to the new and ambitious renewable energy strategy at global level.

Cost effectiveness of wood biomass harvesting is important and can be achieved by integrating it with timber production—but the possible effects on the soil medium and timber competition. How can innovations in the forestry sector help to limit the emissions released by the whole supply chain in every step? To what extent can the type of forest, harvesting, and storage systems implemented along the chain affect the energetic yield? How does wood biomass quality affect energy performance? All the questions are awaiting an answer from the forestry community.

Contributions should cover (but are not restricted to) the following topics:

Efficiency, costs, and emissions of woody biomass harvest, transformation, and transport;

Environmental impact of biomass removal from forests;

Integration of timber and biomass production for increasing overall process efficiency;

Carbon and energy balances of wood-energy systems; Biomass quality;

Biomass sources from forests, agricultural areas, energy crops and riparian vegetation management.

Guest Editor

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Deadline for manuscript submissions

closed (25 October 2020)



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Message from the Editor-in-Chief

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