



IEA Bioenergy  
Technology Collaboration Programme

# WEBINAR SERIES

## Flexible Bioenergy in Renewable Energy Systems

March 18, 2021

4:00 pm - 05:30 pm Central European Time  
03:00 pm - 04:30 pm Greenwich Mean Time  
10:00 am - 11:30 am North American Eastern Standard Time



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## Introduction

The global energy system transition is driven by steep reductions in the generation costs of wind and solar energy as well as political efforts to reduce greenhouse gas emissions. Growing shares of variable renewable energy (VRE) in the energy supply system poses concerns about guaranteeing an uninterrupted supply of electricity, balancing seasonal imbalances in supply and demand, and providing renewable fuels in all sectors. Bioenergy can play multiple roles, both during the transition phase and in the long-term. Flexible bioenergy concepts have potential to provide low-carbon dispatchable resources in terms of long-term storage, peak demand/back-up and demand response. However, the flexibility of bioenergy as well as attractive business cases motivating for flexibility provision need to be developed. IEA Bioenergy Task 44 aims at creating a clearer picture on the role of bioenergy as a flexible resource. In addition to understanding the technical maturity, market status and R&D needs of different concepts, it is also important to identify the frame conditions affecting the prioritisation of the different solutions. The webinar presents the findings on technical options for providing flexibility from bioenergy and framework conditions and expectations in different countries. The associated reports *Flexible bioenergy - Technical options* and *Expectations and implementation of flexible bioenergy in different countries* will be published soon.

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