

# IEA Bioenergy

## WEBINAR SERIES

### Biomass Production in Sustainably Managed Landscapes

December 13, 2018

4:00 pm - 5:00 pm Central European Time  
10:00 am - 11:00 am Eastern Standard Time  
3:00 p.m - 4:00 pm Greenwich Mean Time



Oskar Englund  
Postdoctoral researcher  
Chalmers University of Technology  
Sweden

**Presentation title:**

Beneficial Land Use Change: Strategic  
Implementation of new Biomass  
Cultivation can Reduce Environmental  
Impacts in EU Agriculture



Uffe Jørgensen  
Head of Aarhus University  
Centre for Circular Bioeconomy  
Senior Scientist Department of Agroecology  
Denmark

**Presentation title:**

Sustainable Intensification of Agricultural  
Production: Doubling Productivity and Halving  
Environmental Impacts under Northwestern  
European Conditions

### Presentation Summary:

Enabling bioenergy to play a key role in transforming the energy system will require a strong increase in the supply of biomass feedstock compared to today. This webinar will show how the integration of new biomass production systems into agriculture landscapes can provide bioenergy feedstock while simultaneously reducing current land use impacts. An overview of promising opportunities at the EU level will be followed by a presentation of recent advances in Denmark illustrating the potential for radical innovation to make current agricultural systems more productive and environmentally benign. In the Danish case, the cultivation and refining of grass and legume biomass into protein concentrate and biogas can help boost agriculture output while drastically reducing nitrate leaching. The research at the Aarhus University Centre for Circular Bioeconomy aim to further advance the biorefinery processes as well as the feedstock supply systems. This includes monitoring nitrous oxide emissions, developing methods for grassland reseeded without emissions, and detailed analyses of changes in soil carbon development over time.

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