



IEA Bioenergy

Technology Collaboration Programme



Task 45 - Climate and sustainability effects of bioenergy within the circular bioeconomy



“Metod-annexet” inom IEA Bioenergy

Task 38: 1995-2018
Klimat



Task 45: 2019 ->
Hållbarhet

Brasilien	(Australien)
Danmark	(EC)
Finland	(Frankrike)
Holland	(Italien)
Irland	(Norge)
Kina	
Schweiz	
Sverige	
Tyskland	
UK	
USA	
Österrike	

“Metod-annexet” inom IEA Bioenergy

Key objectives of work programme

1. Develop, refine, compare and promote **methods and data for assessing the climate and sustainability impacts** of bioenergy systems
2. Identify how **regulatory systems** governing land use and bioenergy supply chains can be improved in terms of their **ability to monitor, assess and promote** the achievement of economic, social and environmental objectives of landowners, biomass users and society as a whole
3. Promote **international cooperation and dialogue** to develop common views on key **technical and methodological issues**. Discuss and further develop **governance models**.
4. Assist decision-makers in identifying and promoting **implementation strategies that reflect the local/regional context** and relevant legislative and policy developments, taking a **systems perspective**.

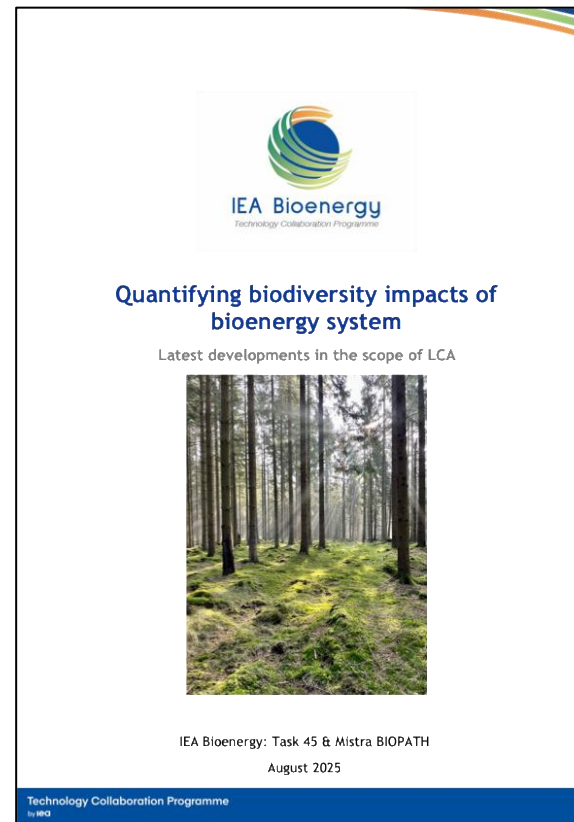
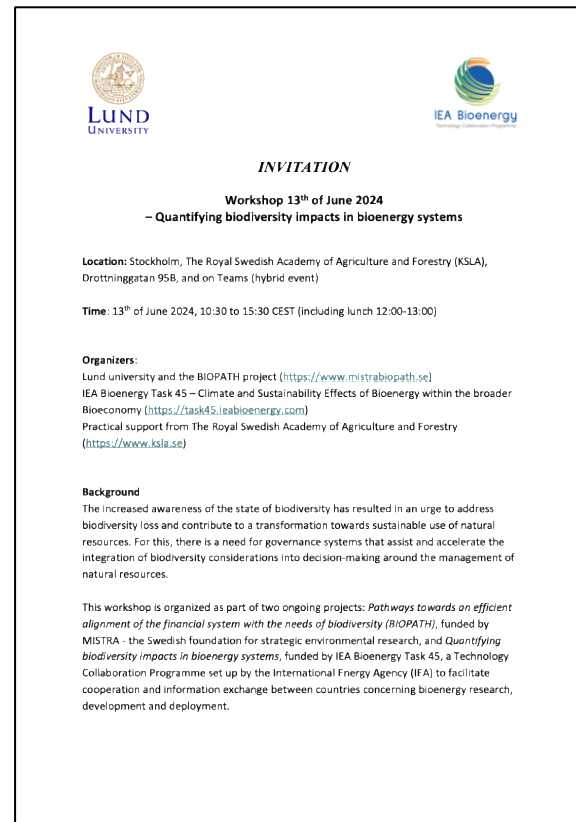
“Metod-annexet” inom IEA Bioenergy

2025-2027: tre temaområden

Work packages
WP1 – Land Enhance the knowledge in identifying, planning and implementing sustainable land use systems that support biodiversity while providing biomass and other ecosystem services to society
WP2 – Systems Refining, demonstrating and disseminating methods and tools for assessing the climate and sustainability effects of bioenergy and other bio-based systems through time.
WP3 – Governance Analyse governance instruments relevant to the biobased economy and bioenergy systems and to support their implementation by policy makers and industry

Några exempel på aktiviteter & publikationer

Quantifying biodiversity impacts of bioenergy systems

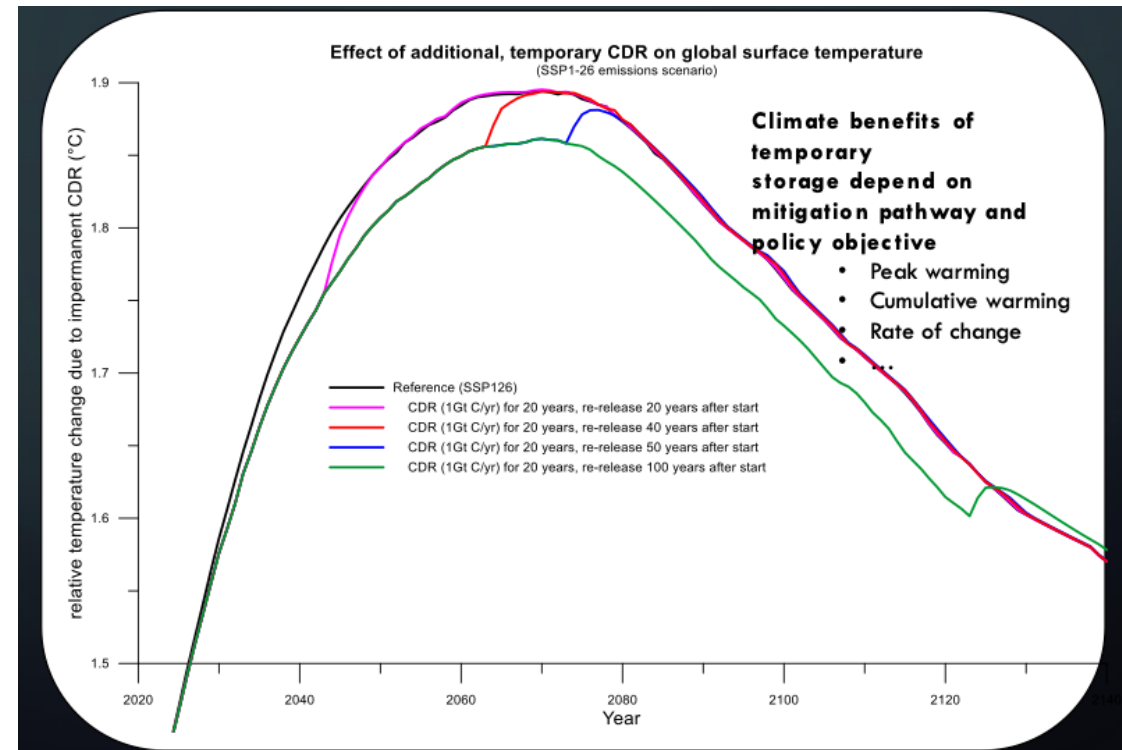


Några exempel på aktiviteter & publikationer

Timing of carbon sequestration and emissions

CAN TREES BUY TIME?
AN UPDATE ON MIKO KIRSCHBAUM'S
ORIGINAL WORK USING MAGICC7 / IPCC AR6
ANDY REISINGER

IEA BIOENERGY TASK 45
TEMPORARY CARBON STORAGE WORKSHOP SESSION 1
30 NOVEMBER/1 DECEMBER 2023

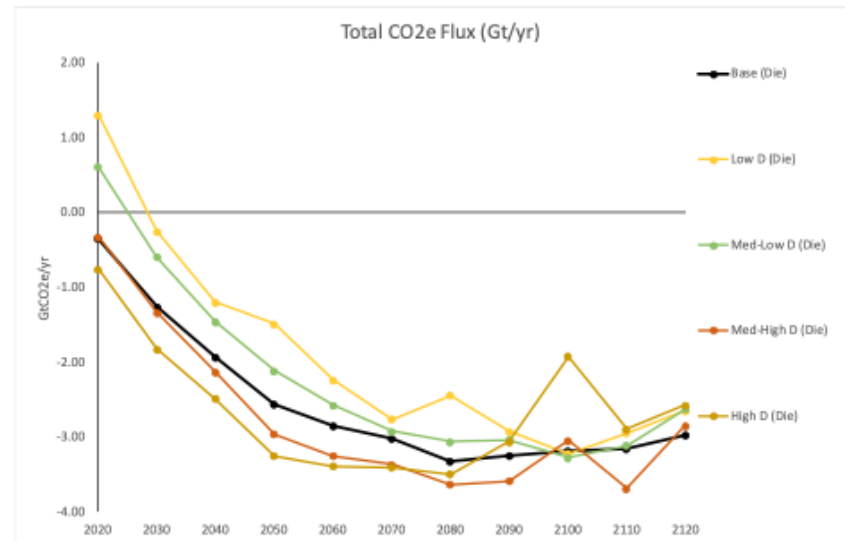


Några exempel på aktiviteter & publikationer

Forest sector responses to policies and markets and resulting impacts on carbon balances

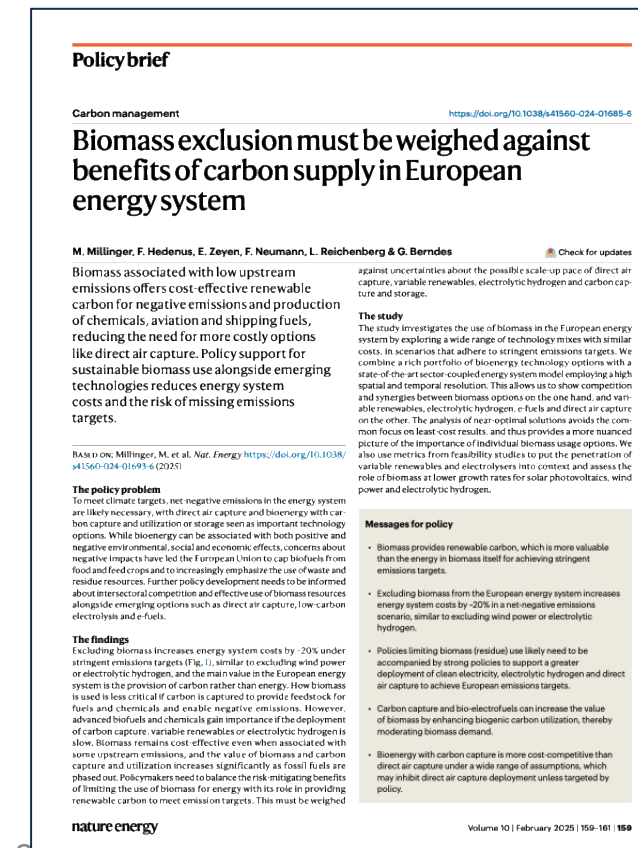
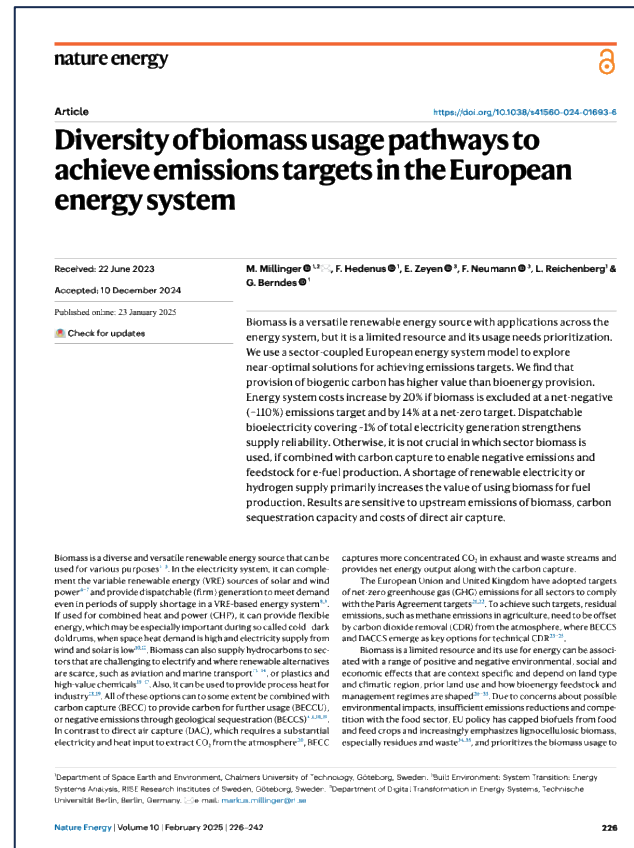
Harvest impacts on flux?

- Assess a deviation of timber harvesting over time on carbon flux.
- All else equal
- Higher demand increases flux and vice-versa.
- Suggests globally more wood consumption increases carbon flux into forests.
- Each 1 m³ of additional wood harvest leads to about 1 ton of additional flux out of the atmosphere, but this diminishes over time.



Några exempel på aktiviteter & publikationer

Diversity of biomass uses in low-carbon energy/industry/transport sectors



Frågor?



www.ieabioenergy.com