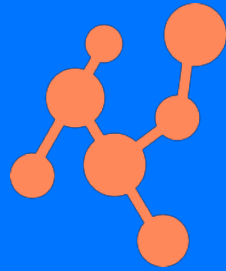
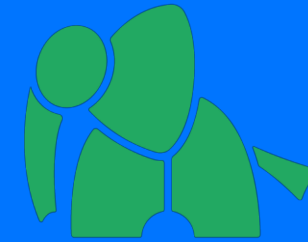


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BioMob#4: How to look at biomass availability data?

Tuesday 25 August 2026,

Café Polder, Amsterdam



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BioMob#4

Kick off and introduction

Tuesday 25 August 2026

Loes Knotter, Emma Beroske



Biomass mobilisation workshops aim to deepen and expand our knowledge and to explore where new questions lie

The key question is: how can biomass mobilisation be achieved?

The HOW'-question is central

We started in 2018 with the first edition of the biomass mobilisation workshop which led to the TU Delft Clean Shipping Project



Build, bring and bunk

Hans Langeveld
Hennie Zirkzee
John Grin
Luc Pelkmans
Carla Chidichimo
Patricia Osseweijer



- TU Delft's Clean Shipping Project aimed to deepen our knowledge on BioHubs
 - How to develop inclusive chains that are not only targetted towardss climate solutions while also including social justice?
 - The project focused on the Hydrothermal Liquefaction (HTL) technology platform to convert biomass residues into drop-in fuels for shipping

BioMob 2024 explored mobilisation of different feedstock options and led to a white paper on the use of “Land based biomass and energy crops”



Land-based biomass and
energy crops

Technical Note

March 2024



- Main conclusion: the context in which biomass is produced matters much more than considering a certain feedstock as sustainable or not
 - Annex IX A and B lists are restrictive in this respect

In this 4th edition, we aim to explore new topics for biomass modelling

- Is it conceivable to make decision on the basis of context and sustainability principles?
- What requirements does this place on the underlying information and data?
- What are the benefits of adopting a more bottom-up approach to data?

Biomass availability studies address policy questions, not necessarily questions that arise from an investment perspective.

See message from Platform member:



Robin Post van der Burg • 1st
Co-Founder at Torrgas
1mo • 

...

Ask any lender why they hesitate on a biomass project and the answer is the same: can you guarantee the feedstock for twenty years?

Feedstock risk has killed more biomass projects than any technical failure. Until now the honest answer was a supply agreement and a promise.

That changes today. With Torrgreen, Ecostrat and New Energy Risk we can now offer Feedstock Supply Insurance to developers using our torrefaction and two-stage gasification technology.

And here is why it can be underwritten at all. Torrgreen's torrefaction takes feedstocks that defeat conventional systems: low-density, fibrous, heterogeneous residues. Torrgas' two-stage gasification then handles the mineral variation that comes with them, because the minerals stay below their melting point and end up in the biochar instead of slagging the reactor. So a plant is not tied to one stream. If one residue becomes scarce, another takes its place.

A single-feedstock plant is fragile. A feedstock-flexible one is not. That is what makes the supply risk insurable, and it widens the range of projects that can be built.

A study commissioned by Solidaridad was carried out on biomass mobilisation options within the coffee, cocoa and palm oil supply chains

In a nutshell: if you zoom in, you will see more biomass options

Dedicated energy crops /cover crops?

intercropping?

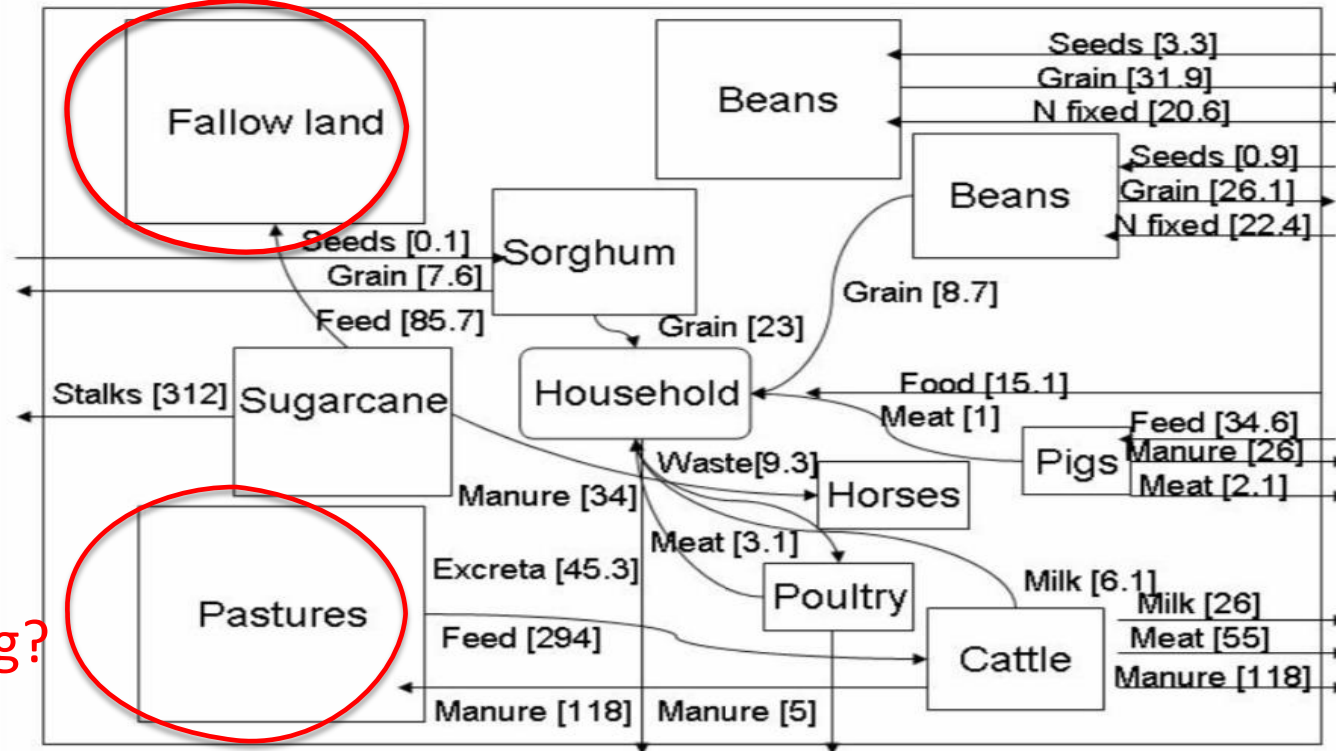


Figure 41 Nitrogen flows of the livestock farm household category under current nutrient management. Values in brackets in kg N ha^{-1} .

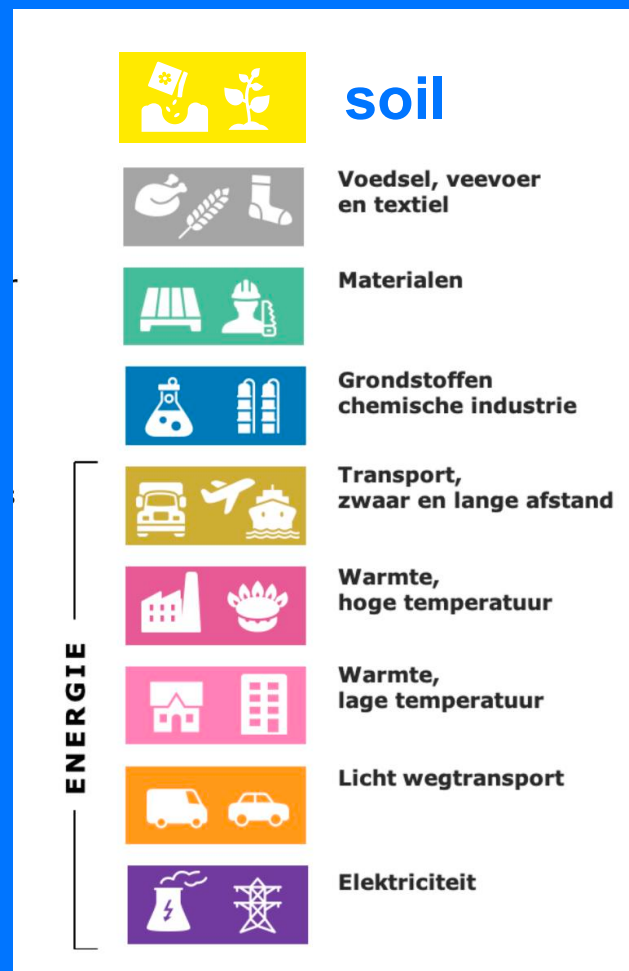
Source: Langeveld e.a. (2007)

Source: [studio Gear Up and Biomass Research \(2019\)](#)

['Green carbon' feedstocks for the biobased economy - Quick scan opportunities for Solidaridad](#)

From which perspective is biomass mobilisation and use considered?

- In response to the SER report 'Biomass in Balance' (2020), a more central role for the soil
- We propose to look at the soil as an 'agent'



Programma

Morning

- 10:00 - 10:10 Welcome and setting the scene
Loes Knotter (Platform Hernieuwbare Brandstoffen)
- 10:10 - 10:30 Insights from agent based-modelling for the biomass value chain
Maurice Mommen (Energy Innovation NL)
- 10:30 - 10:45 Discussion
- 10:45 - 11:15 How to think about time and circularity: assessing the circularity of biomass residues
Jan Broeze and Wolter Elbersen (WUR)
- 11:15 - 12:00 Discussion in groups about implications for modelling of time and circular use of feedstocks
- 12:15 - 13:00 Lunch

Afternoon

- 13.00 - 13.15 How to look at current data models?
Carlo Hamelinck (studio Gear Up)
- 13:15 - 13:30 Discussion
- 13.30 - 13.45 Reflection on current data modelling and DBFZ approach to regional datasets
Karl Friedrich Cyffka (DBFZ) (online)
- 13:45 - 14:00 Discussion
- 14.00 - 15.15 Working session 1 in groups
- 15:15 - 15:30 Break
- 15.30 - 16.45 Working session 2 in groups
- 16.45 - 17.00 Recommendations for next steps
- 17.00 drinks

DE BESTE BRANDSTOF BESTAAT AL *

*Jij hoeft hem alleen nog te kiezen.

De oplossingen die jouw auto, schip of vrachtwagen in de toekomst schoner laten rijden, bestaan vandaag al. In de haven om de hoek, in de mest van een Groningse boer, en in de overvloedige stroom van Zeeland die nu nergens heen kan.

Tien jaar geleden was de energietransitie pril. In die jaren hebben we gebouwd aan het bewijs dat fossielvrij transport geen toekomstmuziek is, maar een realiteit. Het gebeurt hier, bij jou om de hoek, en in de landen om je heen. Elke dag. Bekijk de feiten per regio en ontdek wat er al mogelijk is.

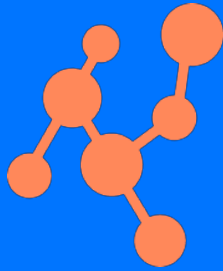
Onze havens spelen daarin een dubbele rol:

Ze importeren groene grondstoffen en brandstoffen uit landen als Brazilië en Canada, en ze zijn een goede plek voor de productie van hernieuwbare brandstoffen die hier, lokaal, worden gemaakt.

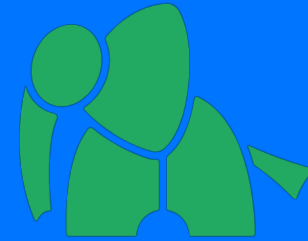
Brazilië heeft een overschot aan duurzame grondstoffen en al veel kennis.

Nederland heeft de havens en de vraag naar hernieuwbare brandstoffen. Die verbinding bestaat al, en ze groeit.

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Co-design session 1



In een ABM wordt beschikbaarheid een uitkomst van gedrag

Boer / eigenaar

bodem, inkomen, risico

Verwerker

kwaliteit, schaal, continuïteit

Logistieke partij

afstand, vocht, opslag

Lokale verdichter

investering, energie, volume

Biochemie / brandstof

inputspecificatie, contract

Overheid / beheerder

regels, doelen, publieke waarde

Iedere agent heeft eigen doelen, informatie, tijdshorizon en reactie op anderen.

Discussie: welke agenten en gedragsregels zijn minimaal nodig?

Communication research among citizens about biomass feedstocks

LOOK CLOSER



Material Facts
Serving Size 1.2kg

Total Fossil Fuel-Based	100%
Plastic Housing	40%
Electrical Wiring	25%
Internal Components	15%
Surface Coating (Paint)	20%

* Scan the QR code or click the link below to take the Bio-awareness campaign survey!



<https://collector.sprockler.com/inquiry/a7506/>

**IT'S NOT
JUST A LAMP**

LOOK CLOSER



Material Facts
Serving Size 70,000kg

Total Fossil Fuel-Based	100%
Plastic Body	45%
Clear Plastic Cover	20%
Wires (Plastic Coated)	20%
Rubber Parts (Synthetic)	15%

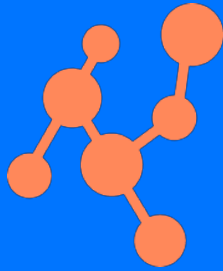
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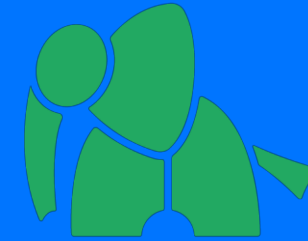
<https://collector.sprockler.com/inquiry/a7506/>

**IT'S NOT
JUST A AIRPLANE**

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Co-design session 2



Welke data hebben we — en welke data hebben we nodig?

Aanbod

locatie, volume, seizoen, kwaliteit, huidige bestemming

Bodem & ecologie

organische stof, vocht, nutriënten, ondergrenzen

Gedrag & economie

prijs, contractduur, risico, bereidheid, tijdshorizon

Keten & technologie

inputeisen, schaal, opslag, energie, infrastructuur

Datakwaliteit

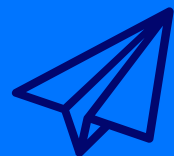
openheid, GIS-koppeling, actualiteit, onzekerheid

**Open data waar het kan · regionale kennis waar het moet · aannames altijd
zichtbaar**

Platform Hernieuwbare Brandstoffen.



www.hernieuwbarebrandstoffen.nl



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