

JANUARI

23

# Bioresources seminar

Pulchri Studio | Den Haag | 14:00 - 17:30 uur

**nvde**  
NEDERLANDSE VERENIGING DUURZAME ENERGIE

PLATFORM  
**BIO**  
ECONOMIE

 **VNCI**

 Platform  
Hernieuwbare  
Brandstoffen.

U.S. Industrial Pellet Association  
  
www.theusipa.org





**Marc Londo**  
**Dutch Association for Sustainable Energy**  
**(NVDE)**

**The bioresources narrative**



The image is a vertical collage of four photographs. From left to right: 1. A close-up of wood chips or mulch, showing the texture of the wood. 2. A close-up of a green corn cob on the stalk, with the husk partially removed. 3. A corn plant growing in a field, showing the leaves and the developing ear. 4. A close-up of a corn stalk, showing the nodes and the reddish-brown color of the stem.

**Keynote Bart Strengers  
Netherlands Environmental Assessment  
Agency (PBL)**





# Bioresources Narrative

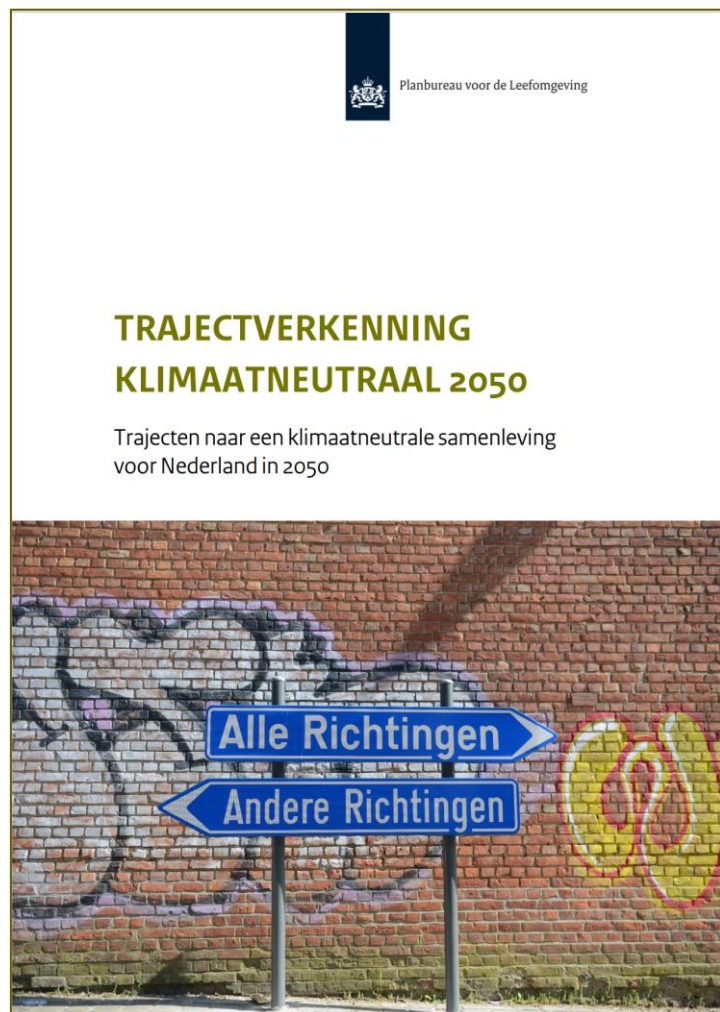
## Keynote speech

Bart Strengers, Netherlands Environmental Assessment Agency (PBL)

23 January 2025, Pulchri Studio, The Hague

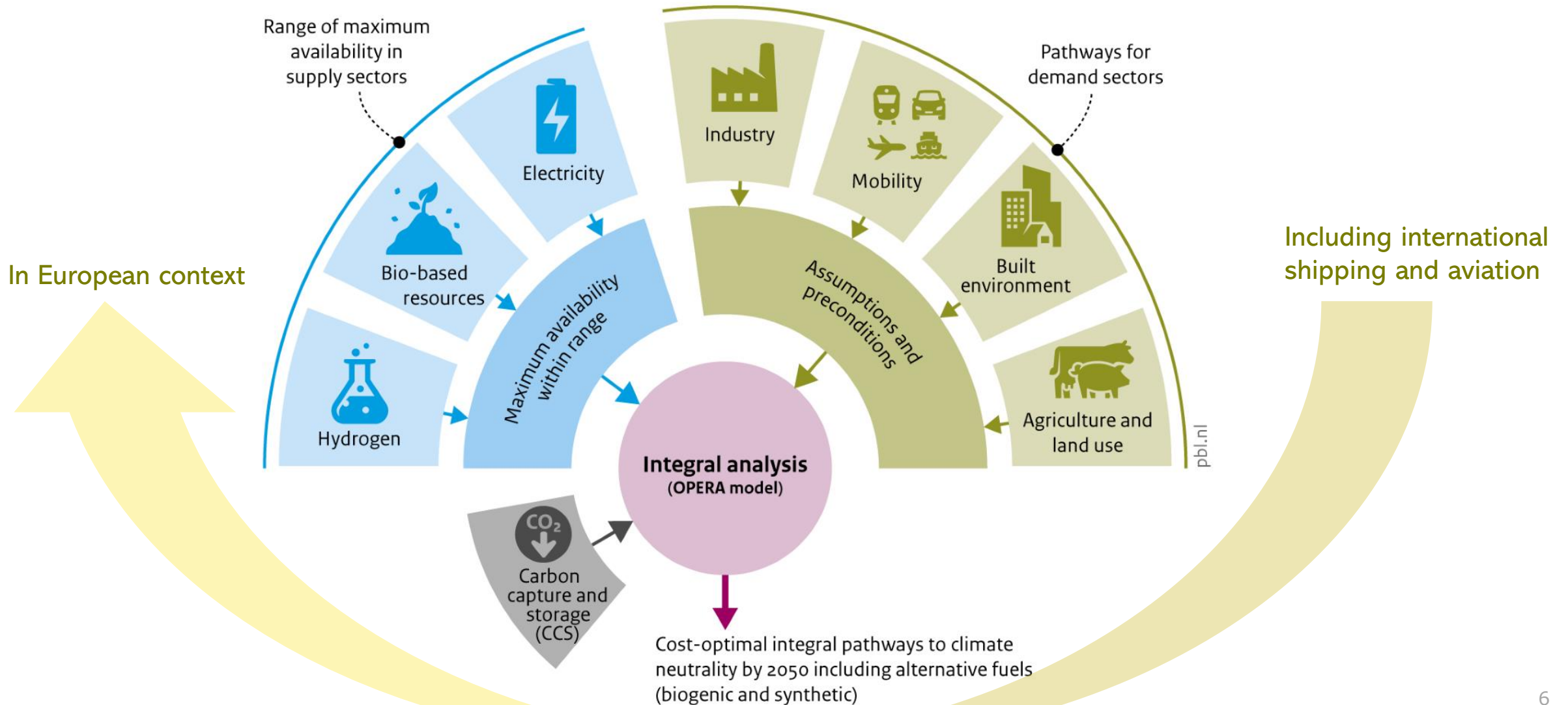


# 'Exploration of Pathways to Climate Neutrality 2050'





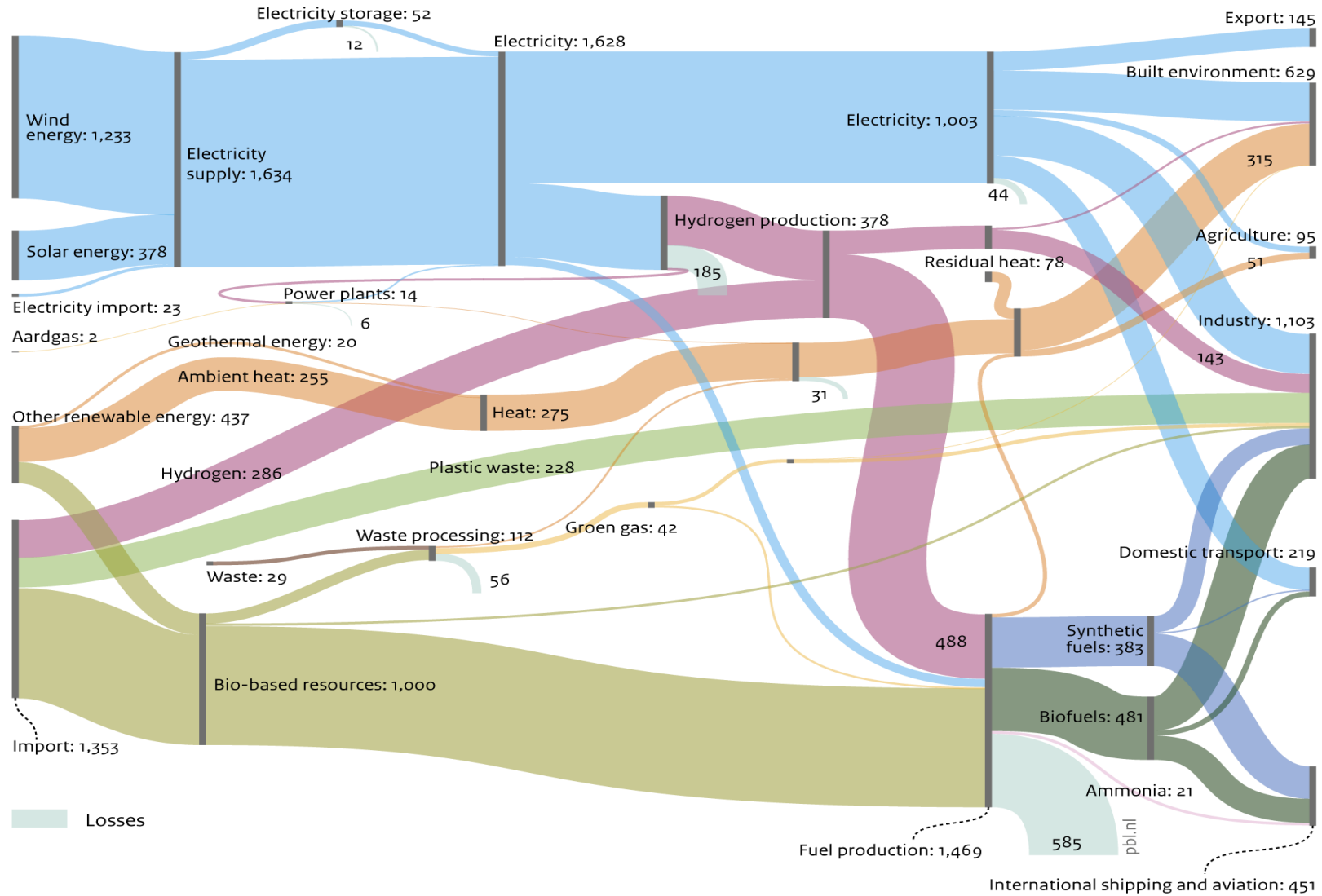
# 'Exploration of Pathways to Climate Neutrality 2050'



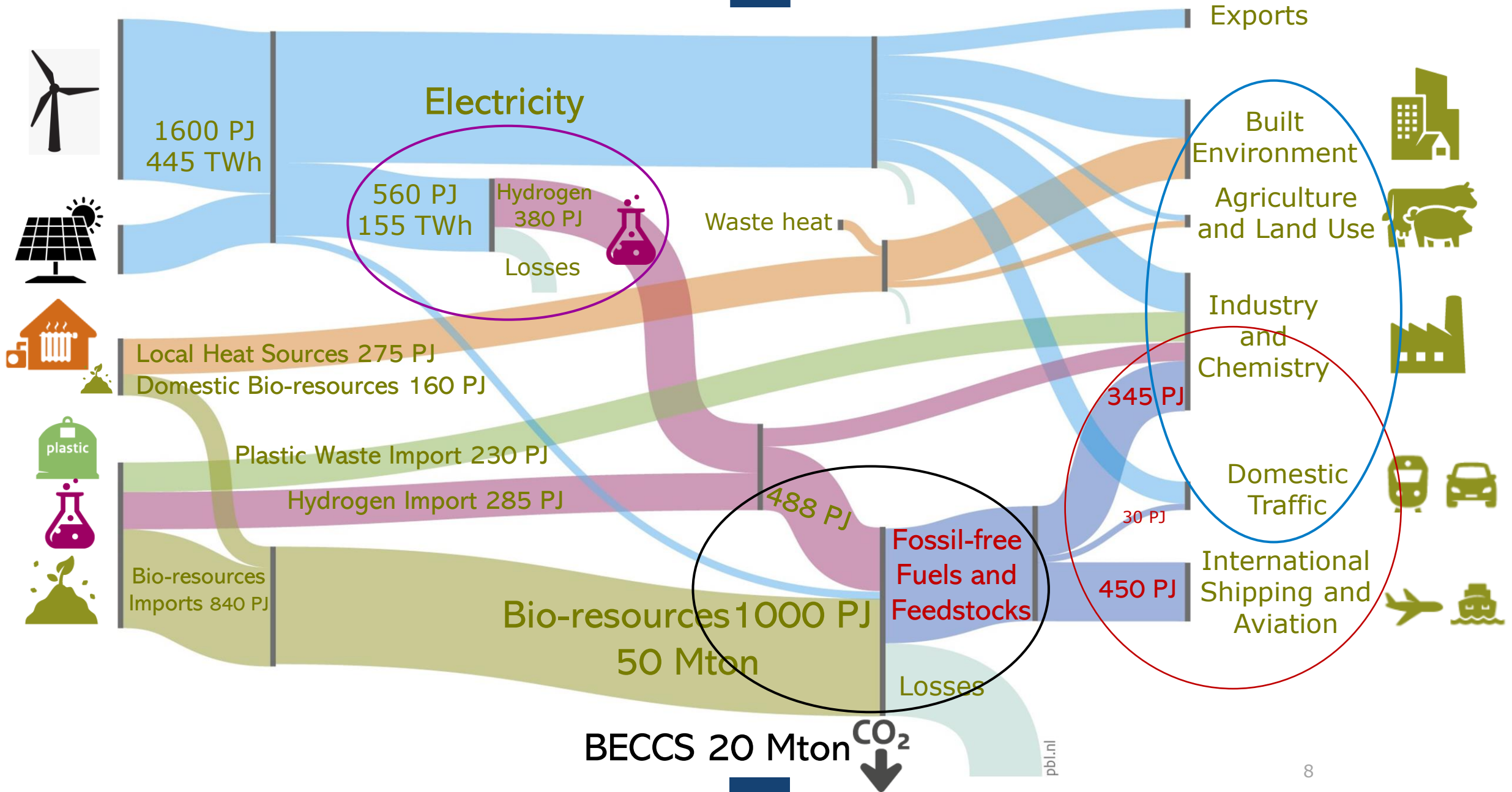


### Energy flows Netherlands 2050, Specific-Wide pathway with CCS up to 20 Mt/yr (SR20)

in petajoules



Source: PBL







## BECCS in fuel and feedstock production(?)

- > Upscaling of advanced biofuels and biofeedstocks production - which enable the potential for BECCS - is unrealistic
- > BECCS in power plants could be implemented more rapidly and at larger scales
- > But: carbon neutrality by 2050 more difficult or even unattainable
- > Regardless of your position: **Substantial investments in advanced biofuel production with BECCS urgently needed!**





# Bioresources Narrative

- › Place greater emphasis on where and how these negative emissions can be achieved at scale.





Alle Richtingen

Andere Richtingen

Thank you for your attention!  
Questions or remarks?

Contact: [bart.strengers@pbl.nl](mailto:bart.strengers@pbl.nl)

[Exploration of pathways towards climate neutrality 2050 | PBL Netherlands Environmental Assessment Agency](#)

[Trajectverkenning klimaatneutraal 2050 | Planbureau voor de Leefomgeving \(pbl.nl\)](#)





**Keynote Virpi Amoedo  
Neste**



# Towards a carbon neutral world

Opportunities processing  
and refining  
waste- and innovative  
feedstocks

Virpi Amoedo | Director Supply Chain Sustainability & Compliance |  
23.01.2025 | Den Haag



# Neste in brief

- We **refine waste, residues and innovative raw materials** into renewable fuels and sustainable feedstock for polymers and chemicals.
- We are the **world's largest producer of renewable products**. Our refinery in Rotterdam is currently the largest biorefinery in Europe.
- We are **investing significantly** in expanding production capacity in the Netherlands to 2.7 million tons in 2026: €1.9 billion in Rotterdam.
- In 2023, we helped our customers achieve a **CO<sub>2</sub> emission reduction** of 11 Mt/a using our renewable products. we aim to reach 20 Mt/a by 2030.





# Neste Rotterdam: Europe's largest biorefinery





## Solutions for three main markets

### Road Transportation

Neste MY Renewable Diesel™, made from 100% renewable raw materials, is a lower-emission solution to replace fossil fuel in all diesel-powered engines.

### Aviation

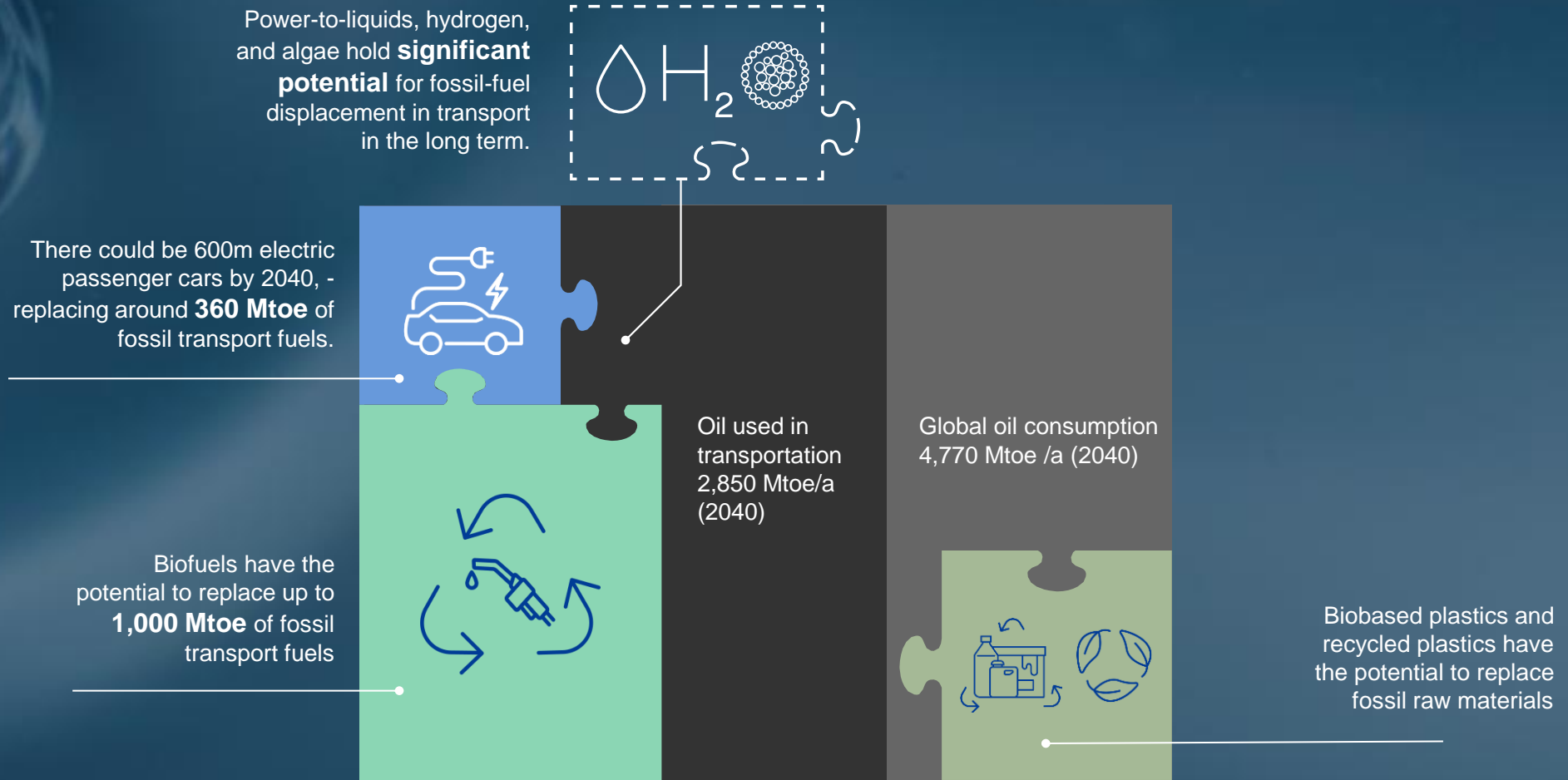
Neste MY Sustainable Aviation Fuel™, made from sustainably sourced 100% renewable waste and residue raw materials, is a solution for replacing fossil jet fuel to reduce aviation related emissions.

### Polymers and Chemicals

Neste RE™ is Neste's solution for the plastics and chemicals sectors to help them reduce crude oil dependency, combat climate change and tackle the plastic waste challenge.



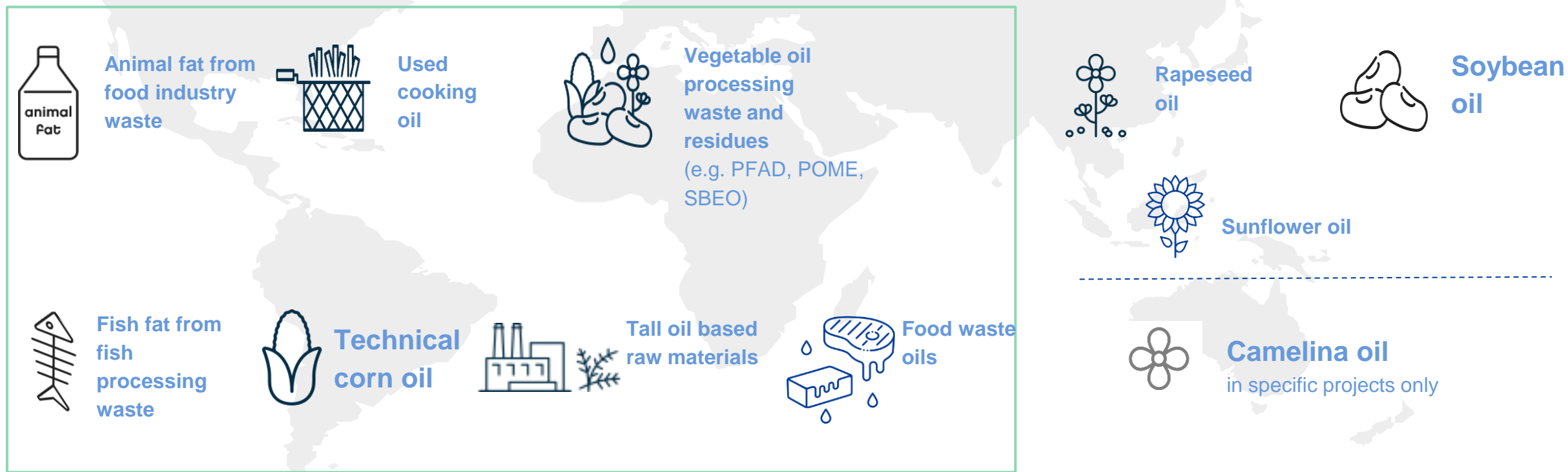
# Renewable solutions provide a significant contribution



Source: Neste based on IEA (2020) World Energy Outlook, Stated Policies Scenario; WEF Clean Skies for Tomorrow (2020) and other sources.



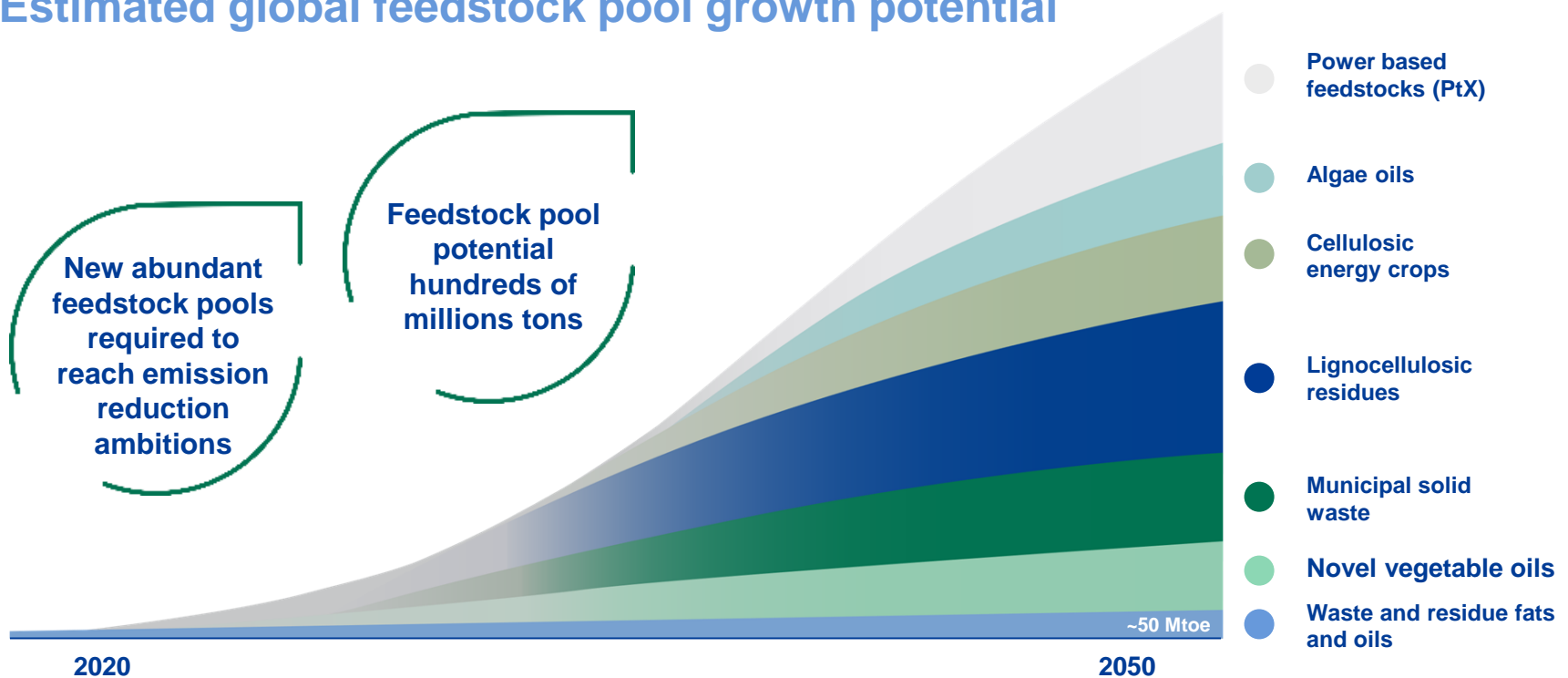
# Extensive portfolio of globally-sourced renewable raw materials





# Significant long-term growth potential of global feedstock pool via scale up of new technologies

## Estimated global feedstock pool growth potential



## Innovation on several fronts



**Chemical recycling**



**Power-to-X solutions**



**Renewable hydrogen**



**Lignocellulosic feedstocks**



**Algae oils**

Source: Neste analysis based on WEF Clean Skies for Tomorrow and other sources.



# Novel Vegetable Oils (NVO)

- Innovative regenerative agricultural concepts resulting in:
  - Additional sustainability benefits;
  - Additional raw material volumes;
  - Additional economic benefits for the agricultural sector.
- Pilots and trials with focus on: water, emissions, soil health, biodiversity, social.
- ISCC EU certificate with actual values





## Policy instruments are needed

1. Ambitious climate policy is crucial, and an opportunity for European/Dutch industry
2. Market creation: mandates (norms) and incentives to make sustainable solutions competitive and scalable.
3. Optimally use all available waste and residue streams. Unlock new innovative raw materials. Remove outdated regulatory obstacles







Questions?





**Keynote Wytske van der Mei  
Ministry of Climate Policy and Green Growth**





**John Bouterse  
Platform Bio-Economy**



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