

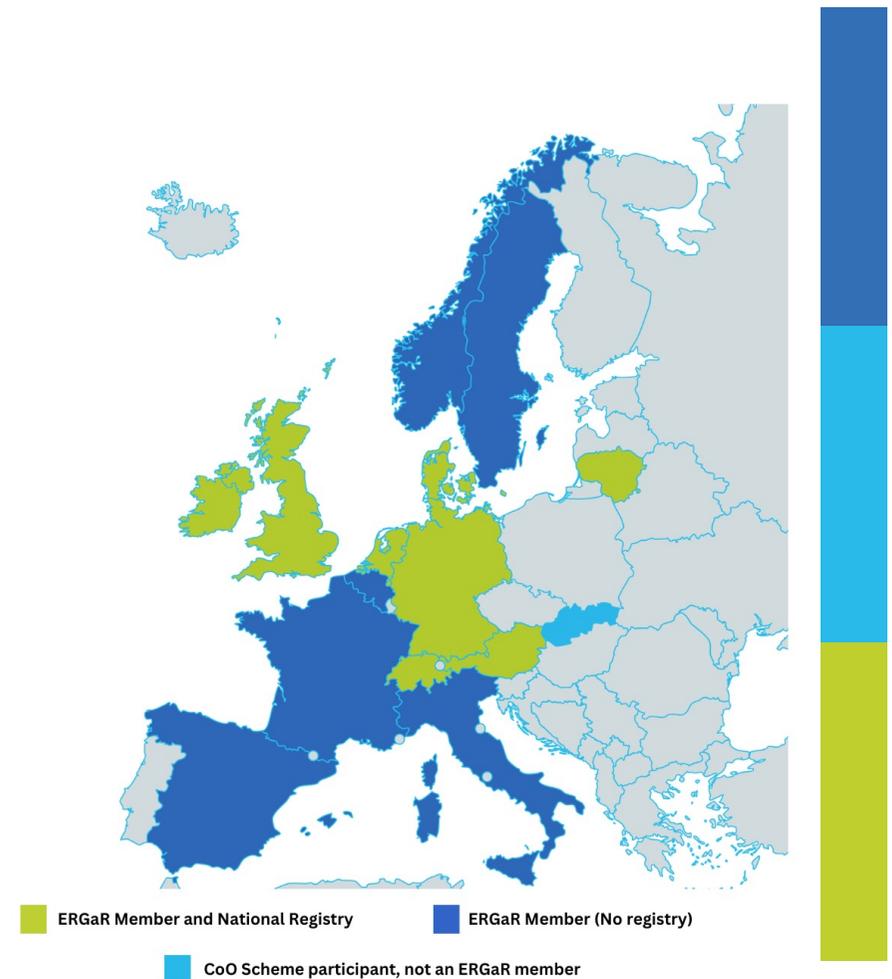
The future of biogenic CO2 certification

24/01/2021

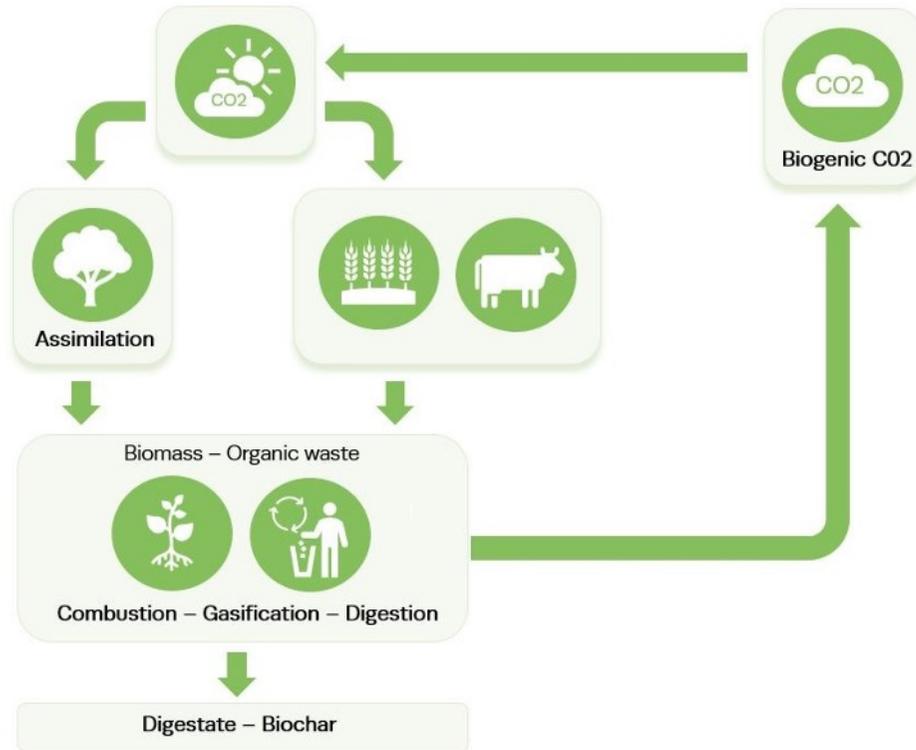


ERGaR

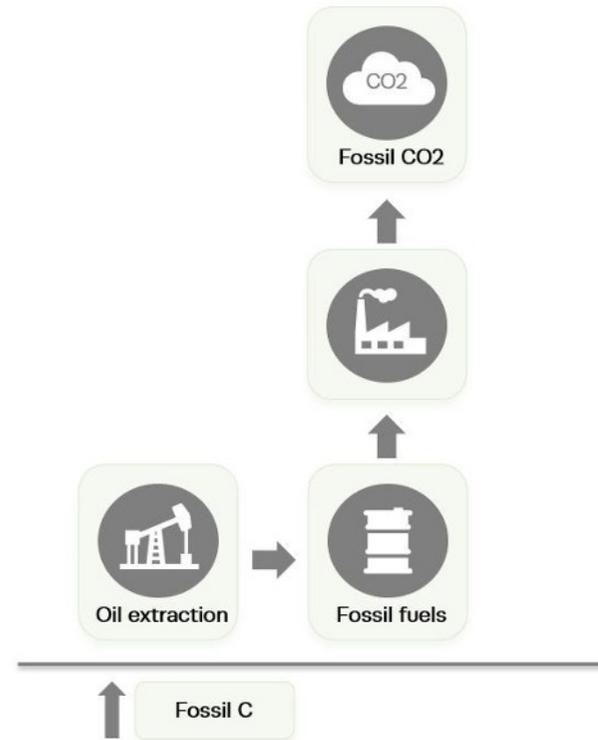
- **European Renewable Gas Registry**
 - Facilitate the cross-border transfers of biomethane certificates
 - Provide a forum for all stakeholders in the biomethane certification supply chain



Biogenic CO2

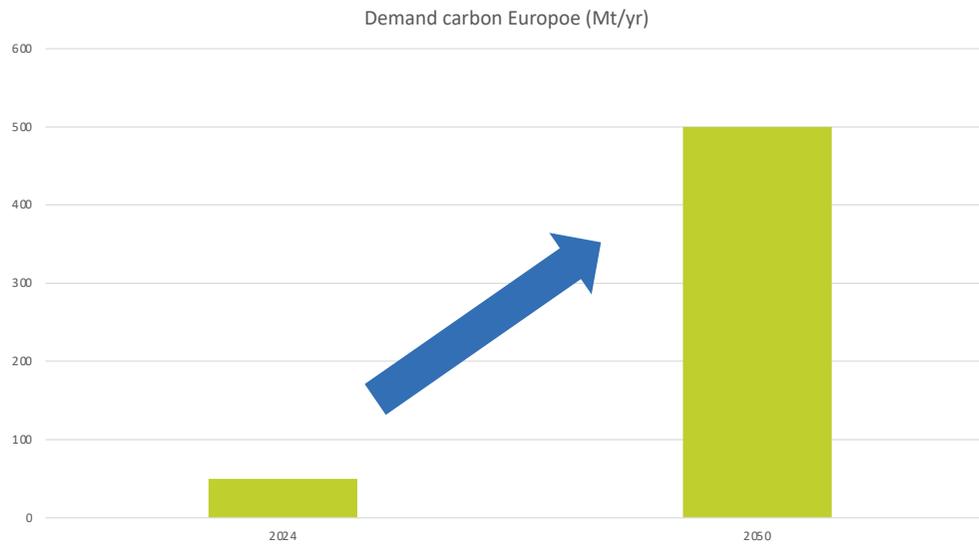


Source: EBA, (2022), Biogenic CO2 from the biogas industry

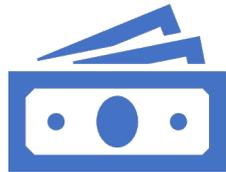


Biogenic CO2 use

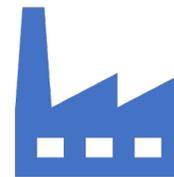
- CO2 used in various sectors and demand increasing



Why biogenic CO2 certification?



Provide financial incentives for biomethane installations to capture the CO2



Proof the origin of the CO2 for companies and end-users



Biogenic CO2 certification

1. Lower the carbon intensity of the biomethane production in the Proof of Sustainability
2. Use upcoming carbon removals certificate
 - Only applicable for storage and based on new EU legislation
3. Biogenic CO2 certification for usage
 - No framework available yet
 - Possibly sold directly to end-user without certification

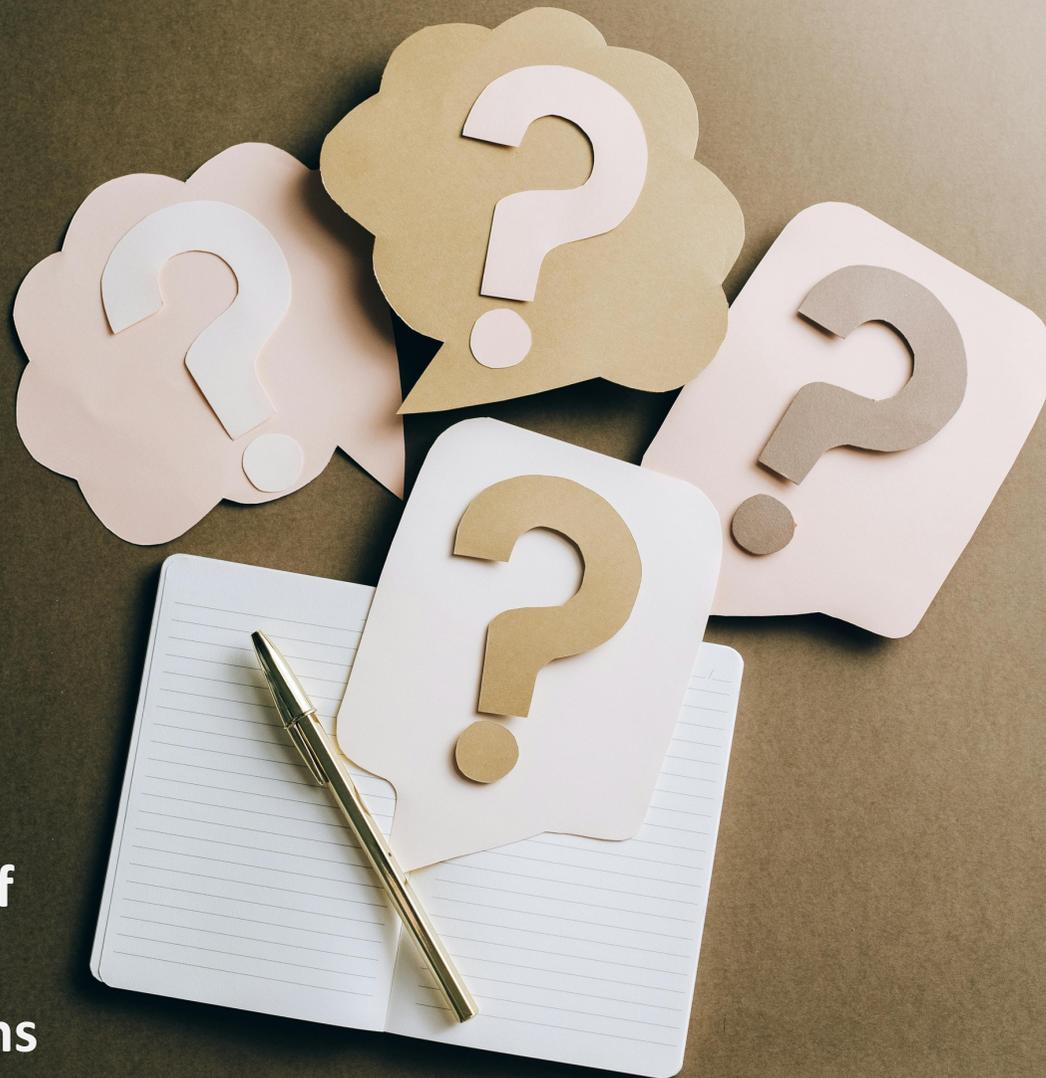
Biogenic CO2 certification of the future

- Inspiration from biomethane certificates

Existing certificates for biomethane		
Certificate:	Guarantee of Origin (GO)	Proof of Sustainability (PoS)
Purpose:	Consumer disclosure	Target counting EU legislation
Rules:	RED & EN 16325	RED & Recognised voluntary schemes
Issuing body:	Government appointed	Sometimes national databases, none
System:	Book & claim	Mass balancing
Tracking:	National registries	Traders audited (& UDB in future)



Many possibilities of structure and open questions



Uncertainty

- Open questions that impact the market:
 - How will the logistics look like?
 - Will the market demand 'real' biogenic CO2 or industrial CO2 with certificate?
 - How will legislation be implemented?
 - Carbon Removal Directive, Industrial Carbon Management communication

Relevant questions

- Who will issue the certificates?
 - National registry or producer himself?
- Who will audit the facilities?
 - National registries? Certification bodies such as voluntary schemes?
- How will the measurements be verified?
 - Flow meters? By weight?
- How will the certificates be traded?
 - Pdf documents from one party to another? Accounts in a (de-)centralized database?
- Mass balance system or book and claim?
 - Follow supply chain or not? Or only for CO2 transported over the pipeline?
- How to avoid double counting?
 - Carbon removal certificate? Counted for Proof of Sustainability as well?
- How is it connected to existing legislation?
 - ETS, ReFuelEU Aviation, RFNBOs (RED III)



All answers pieces of puzzle to come to one framework





**Next steps ERGaR:
Discussions with all
stakeholders in supply
chain**



Thank You!

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