

An aerial photograph showing a patchwork of green agricultural fields, a grey asphalt road with yellow lane markings, and a brown plowed field. The fields are divided by dark lines, likely furrows or ditches. The overall scene is rural and agricultural.

SEMPRE-BIO

Innovaties in biomethaanproductie

Céline Wyffels

18 februari 2025





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European Union**

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SEMPRE-BIO

Innovaties in biomethaanproductie

Inhoud

- Introductie SEMPRE-BIO

- Drie Europese casestudies

- Vlaamse casestudie

- What's next?



SEMPRE-BIO in een notendop

Doelstellingen

- ❖ Nieuwe en kosteneffectieve oplossingen en routes voor de productie van biomethaan demonstreren.
- ❖ Marktintroductie van biomethaangerelateerde technologieën vergroten.
- ❖ Ondersteunen van circulaire economie.
- ❖ Afhankelijkheid van fossiele brandstoffen verminderen.

In cijfers

42
Maanden



17
Partners



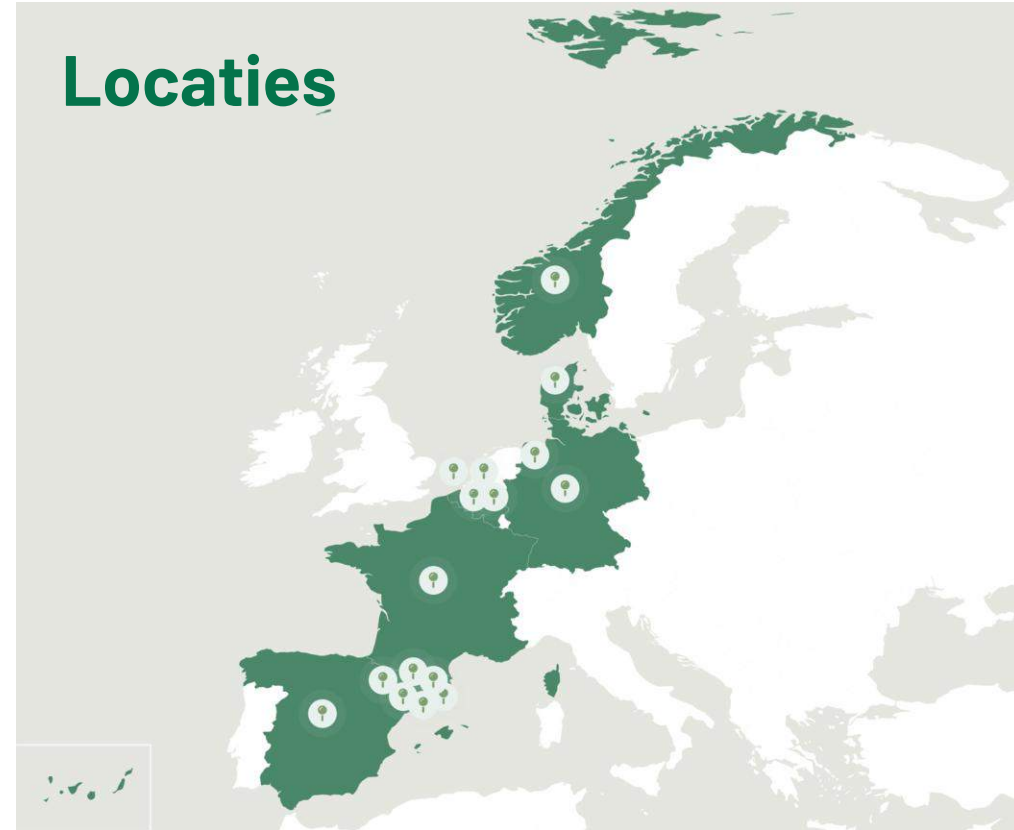
7
Landen



9.9M
Funding



Locaties



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CETAQUA
CENTRO TECNOLÓGICO DEL AGUA

Aigües de
Barcelona

SINTEF

ProPuls

DBFZ

TMB

terrawatt

Naturgy

Innolab

CRYOinox

Beta
Biodiversitat, Ecologia,
Tecnologia Ambiental i Alimentària

UNIVERSITEIT
GENT

inveniam

NV De
Zwanebloem

Biogas-3
platform voor innovatieve vergisting

DTU

BIOTHANE
by VEOLIA
Water Technology



Research organizations



Industry



Academia



End-users



Consulting agency



Stakeholder's engager



Farmers

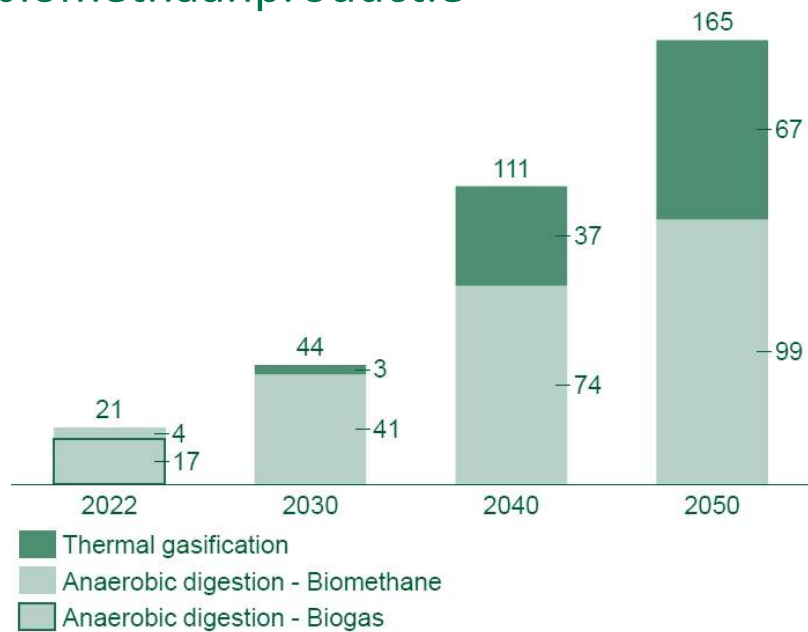


17 Partners 

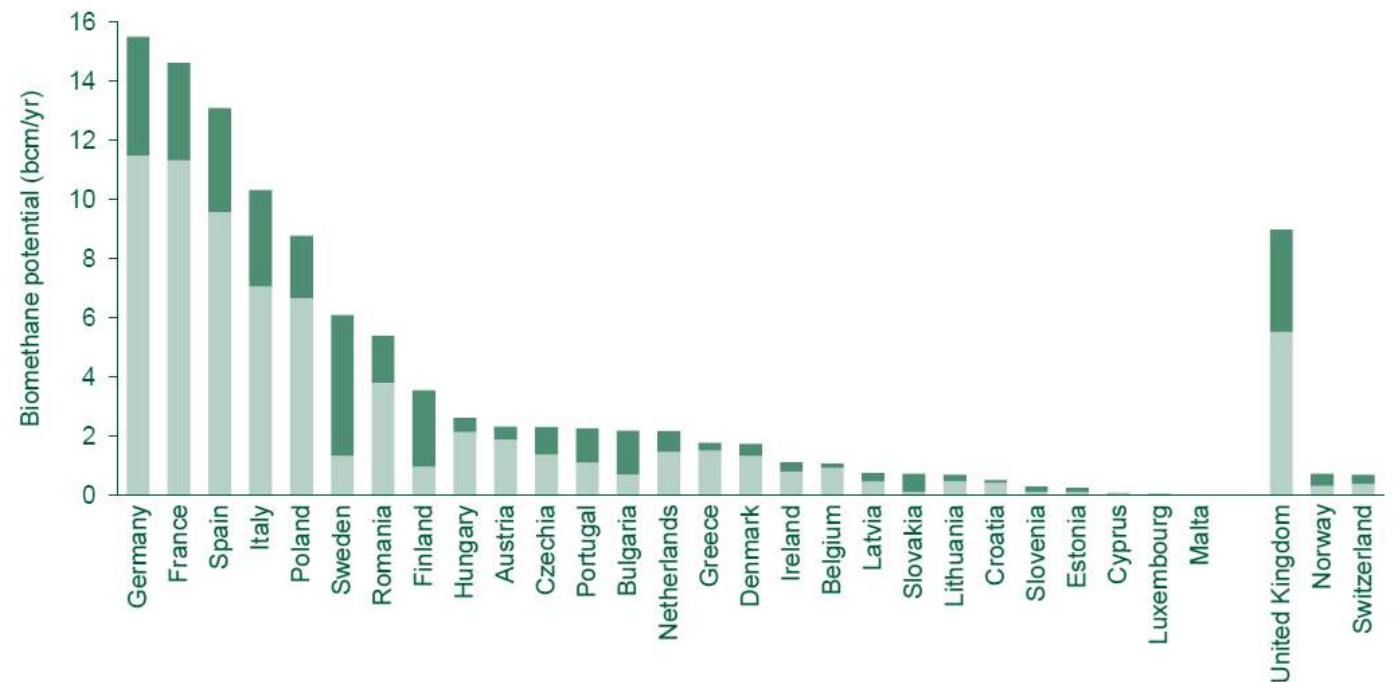


Biomethaan productiepotentieel in Europa (2022-2050)

Potentieel voor opschaling van biomethaanproductie



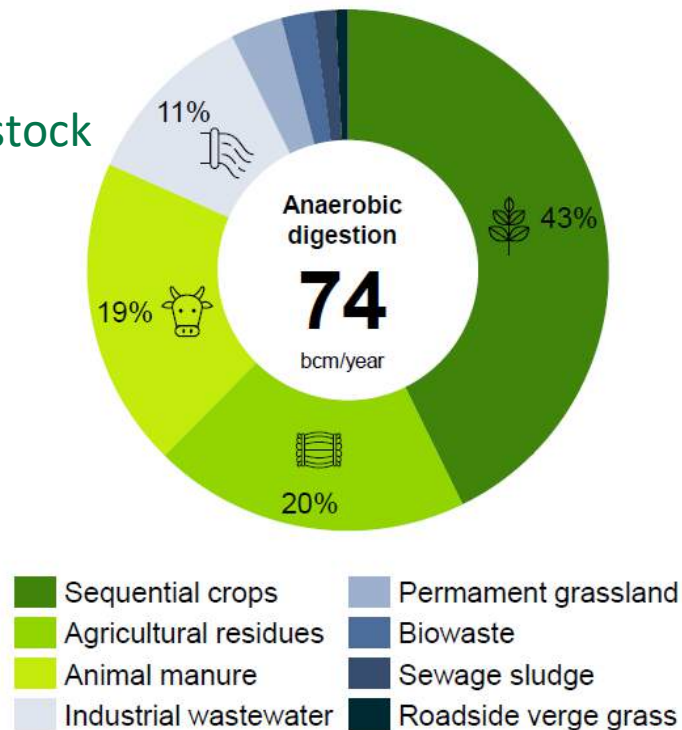
Biomethaanpotentieel van 111 bcm/jaar in Europa in 2040



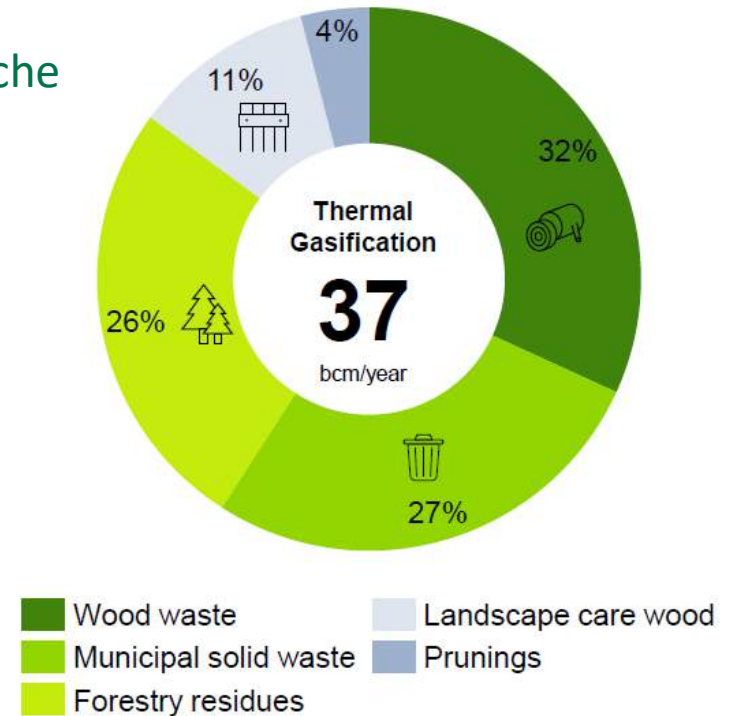


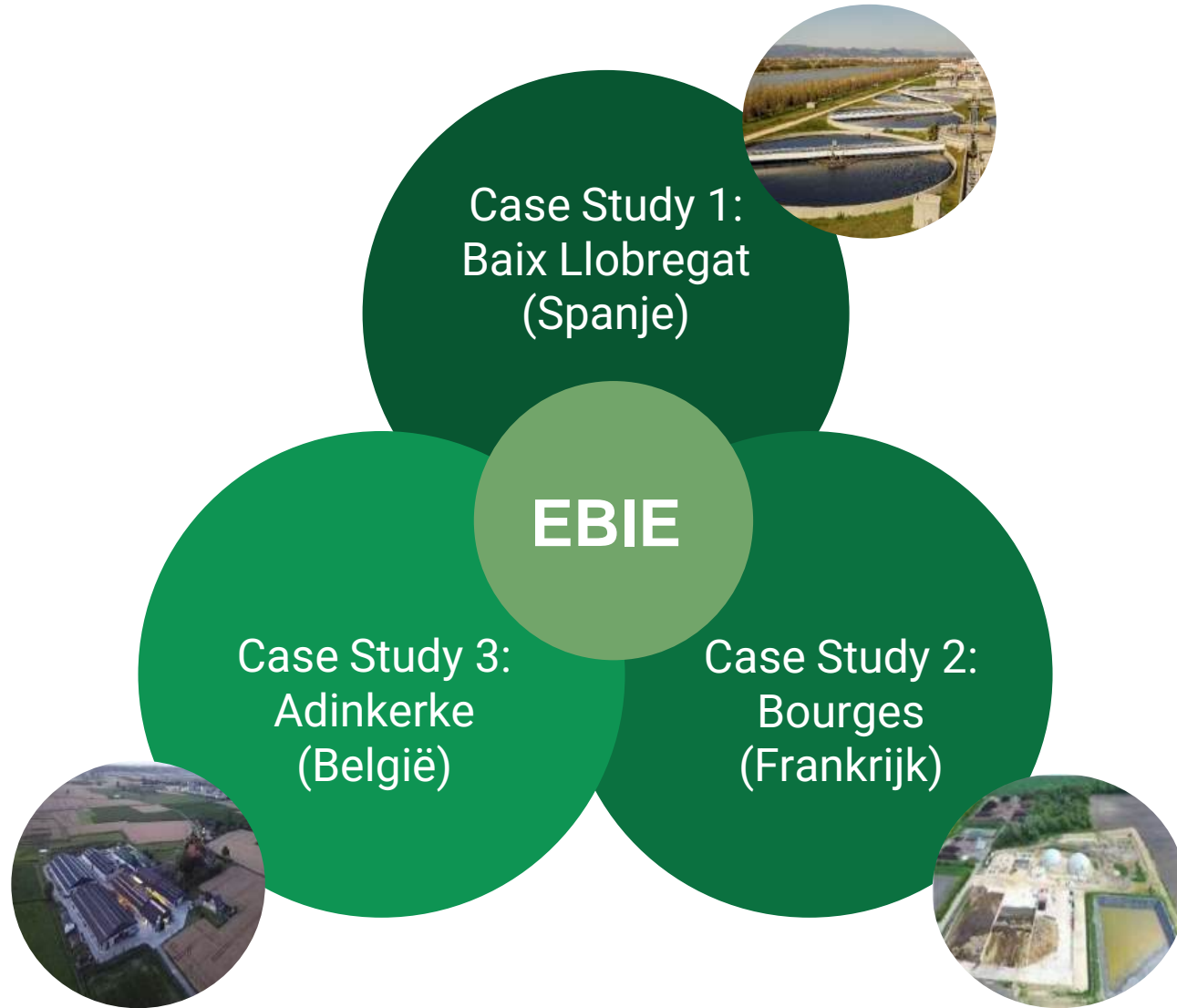
2040 Feedstock en technologie (Europa)

2040 Anaerobe vergisting feedstock



2040 Thermische gasificatie feedstock



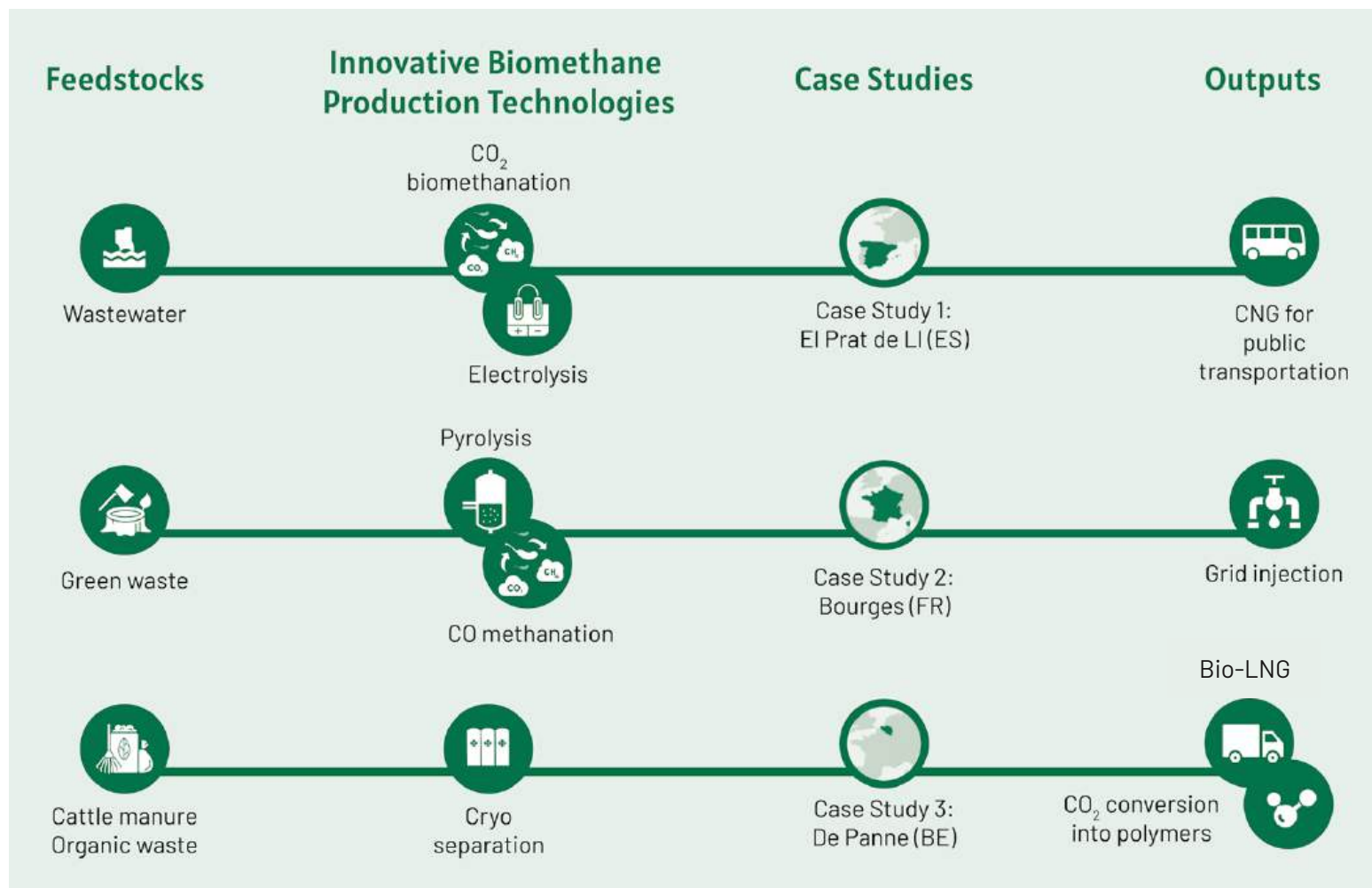


Europese Biomethaan Innovatie Ecosystemen





Drie Europese casestudies



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Schaalverkleining van een biogas-opwaarderingsoplossing

MASSCHELEYN melkveeboerderij, Adinkerke



- Biogasinstallatie: verwerking van 25000 ton/j rundermest en 5000 ton/j co-substraat
- 2 vergisters: mesofiel & thermofiel

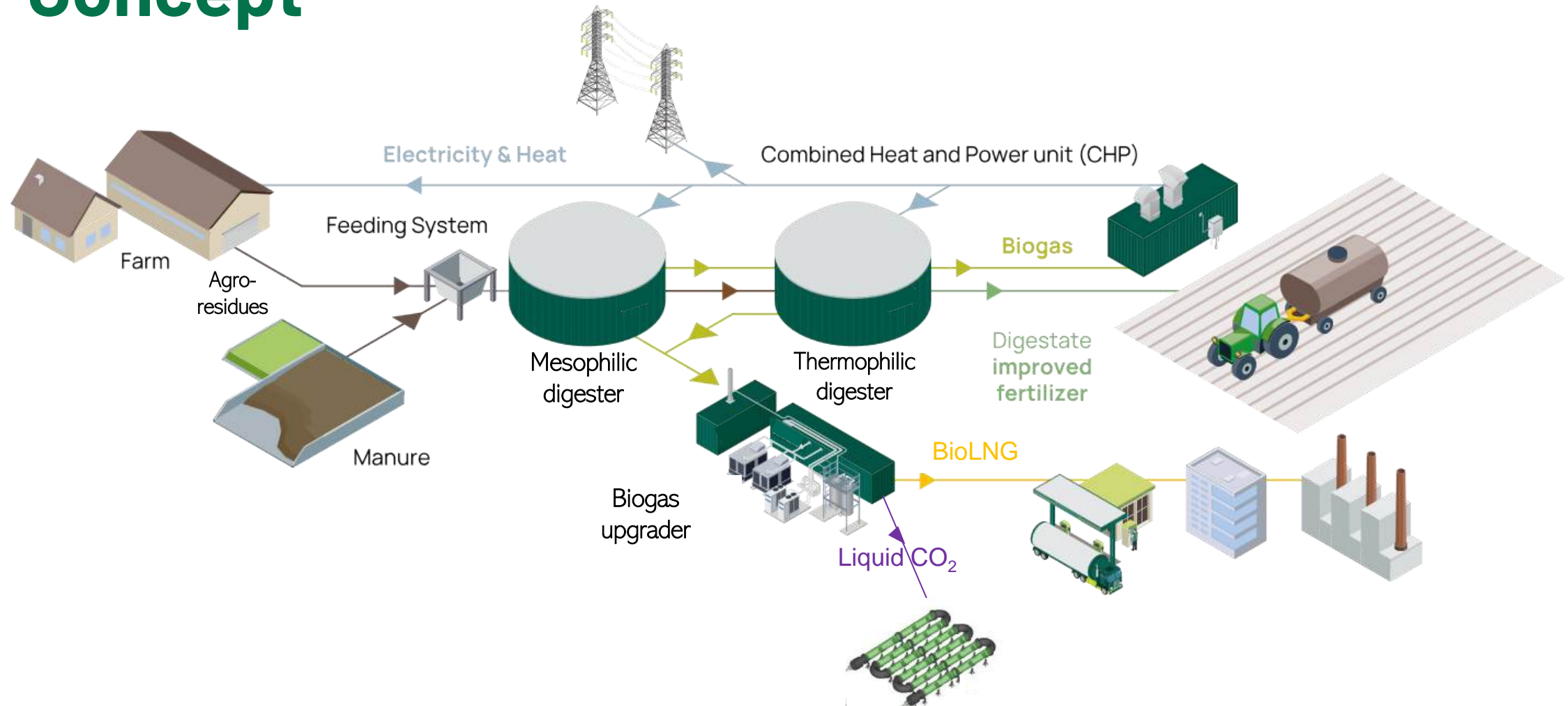
Biogas → WKK (435kWe)/opwerkingsinstallatie
Digestaat → transport naar Frankrijk

- Installatie cryogene opwerkingsinstallatie in komende maanden



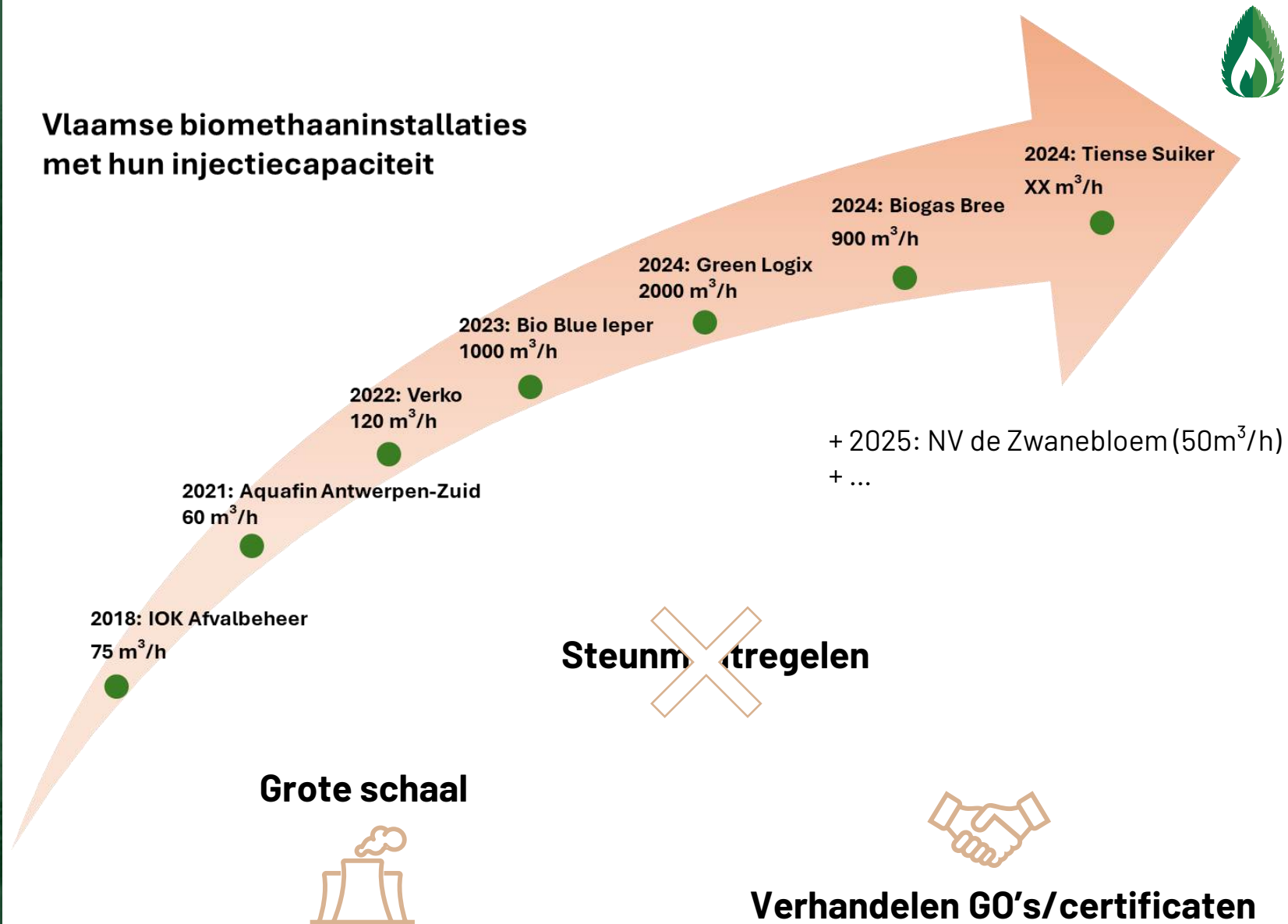


Concept



Biomethaan in Vlaanderen

Vlaamse biomethaaninstallaties met hun injectiecapaciteit



What's next?

M28-M42

- Biomethaanproductietechnologieën in praktijk brengen
- Observatie en metingen
- Techno-economische analyse en beoordeling







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Bedankt!

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