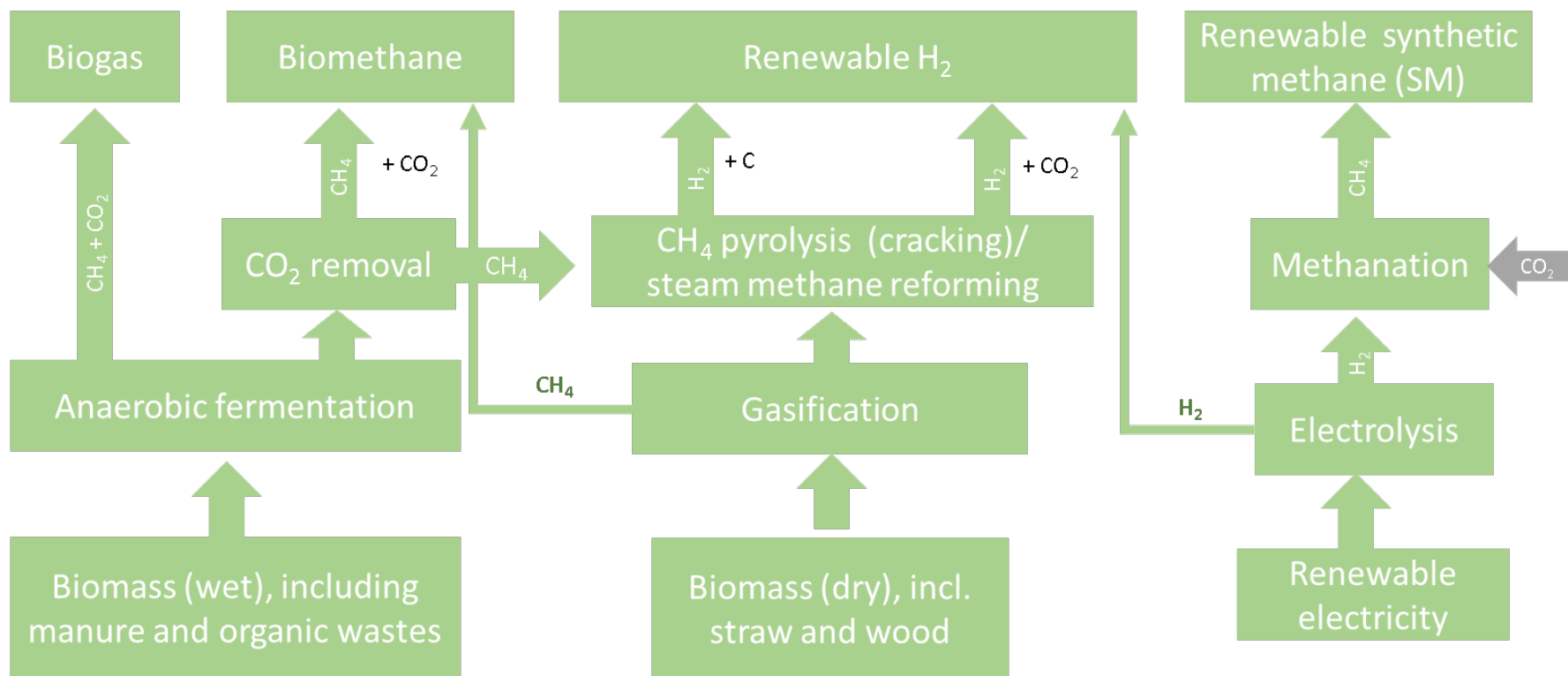


Status and perspectives of renewable gases in the EU

Uwe R. Fritsche, IINAS & IEA Bioenergy

presented at the IEA Bioenergy End-of-Triennium Conference
Dec 2, 2021 (online)

Renewable gases: Overview



Data sources...



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+0,7 %

Biogas primary energy production growth in the EU 28 between 2018 and 2019.



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Task 41 Special Project

BIOGAS BAROMETER

A study carried out by EuroObserv'ER

Primary energy production from biogas in the EU28 countries has increased only slightly since 2017. According to EuroObserv'ER, output reached 16.6 Mtoe in 2019, which is marginally higher than in 2018, but around the same level as in 2017. The rollout of regulations less supportive of using food-type energy crops for producing biogas has fuelled this general trend and has been compounded by the limitation on the capacity allocated to biogas tenders and less attractive biogas electricity payment terms. Nonetheless some member countries have posted positive output growth, thanks to their determination to both encourage biomethane injection and recover energy from fermentable waste.

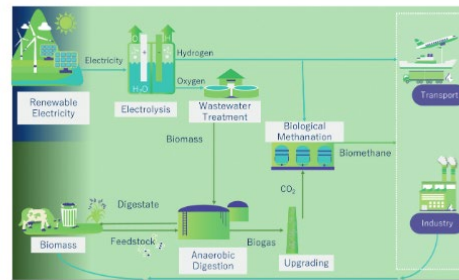
16.6 Mtoe
of biogas primary energy produced in 2019 in the EU 28

62.5 TWh
of biogas electricity produced in 2019 in the EU 28

Renewable Gas - discussion on the state of the industry and its future in a decarbonised world

IEA Bioenergy: Task 37

November 2021



Renewable Gases – Hydrogen in the Grid

Activity funded by the European Commission, Germany and Sweden with contributions from the Netherlands

Synthesis Report

Prepared by

Uwe R. Fritsche, Project Leader
IEA Bioenergy Task 40 (Task Leader)

Scientific Director
IINAS
International Institute
for Sustainability Analysis
and Strategy

Darmstadt, December 2021

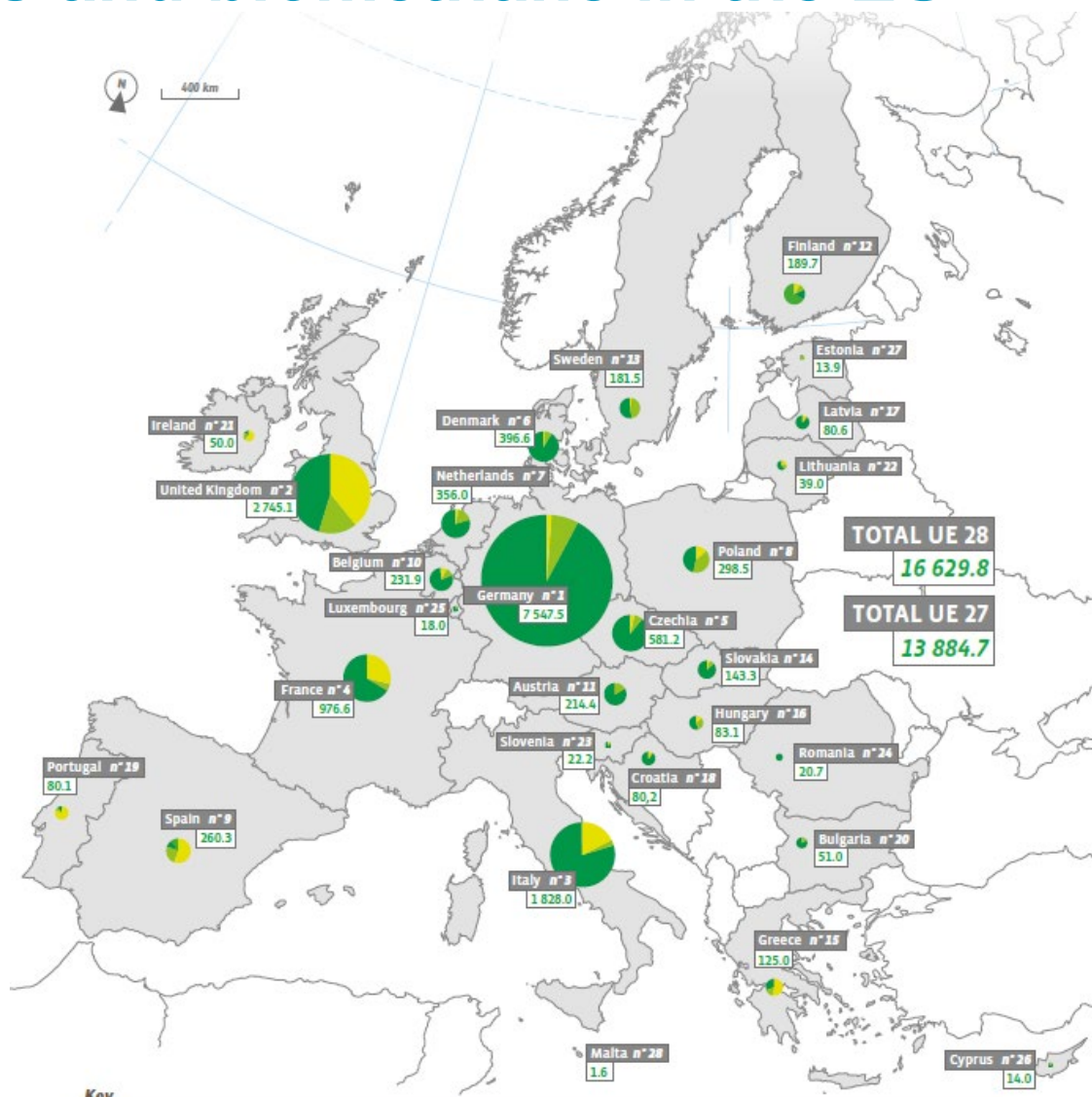
Technology Collaboration Programme
to MD



Biogas and biomethane in the EU



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Key

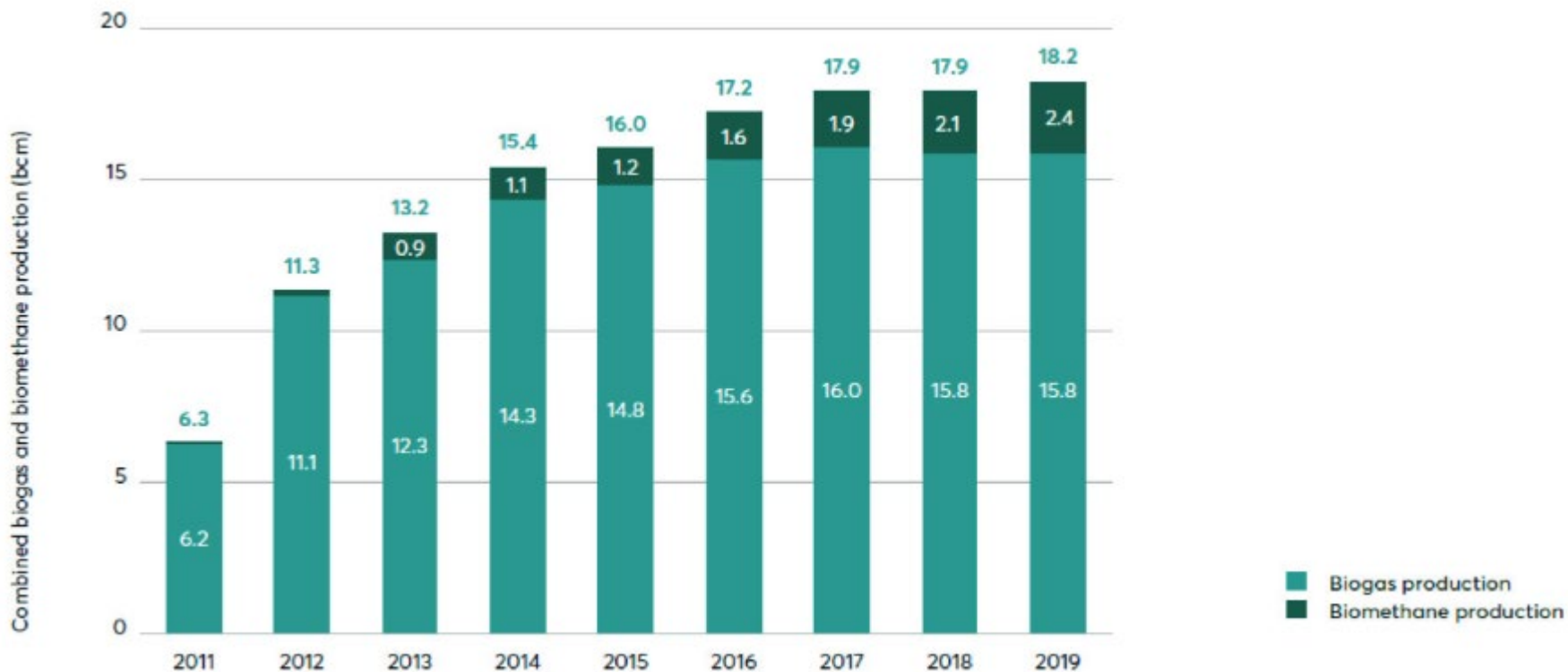
7547.5 Green figures show total biogas production in ktOE.

- Landfill biogas
- Sewage sludge gas
- Other biogases from anaerobic fermentation
- Biogases from thermal processes

Biogas and biomethane in the EU



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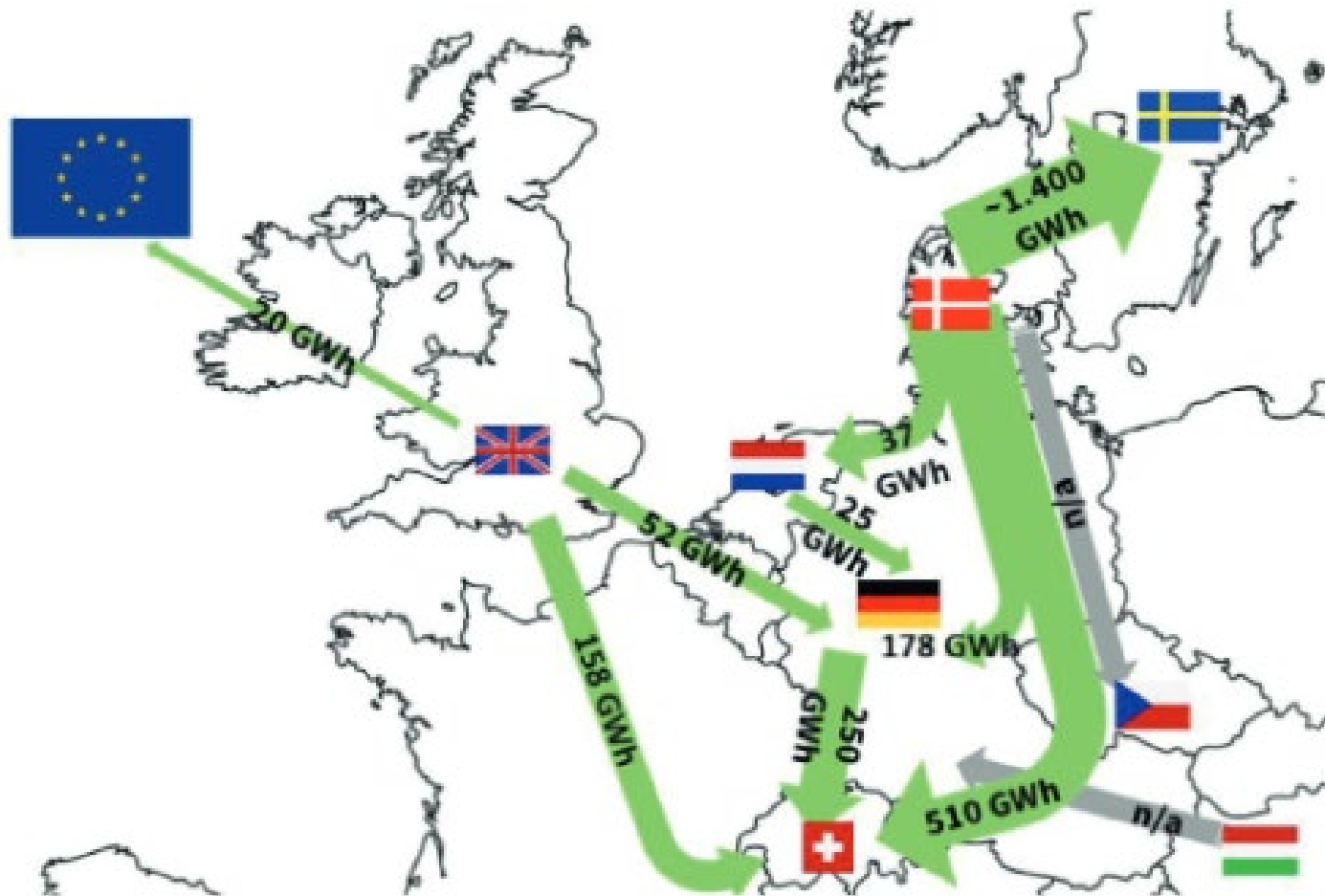


https://task37.ieabioenergy.com/files/daten-redaktion/download/Technical%20Brochures/Renewable%20Gas%20Report_END.pdf

Biomethane trade in the EU 2020



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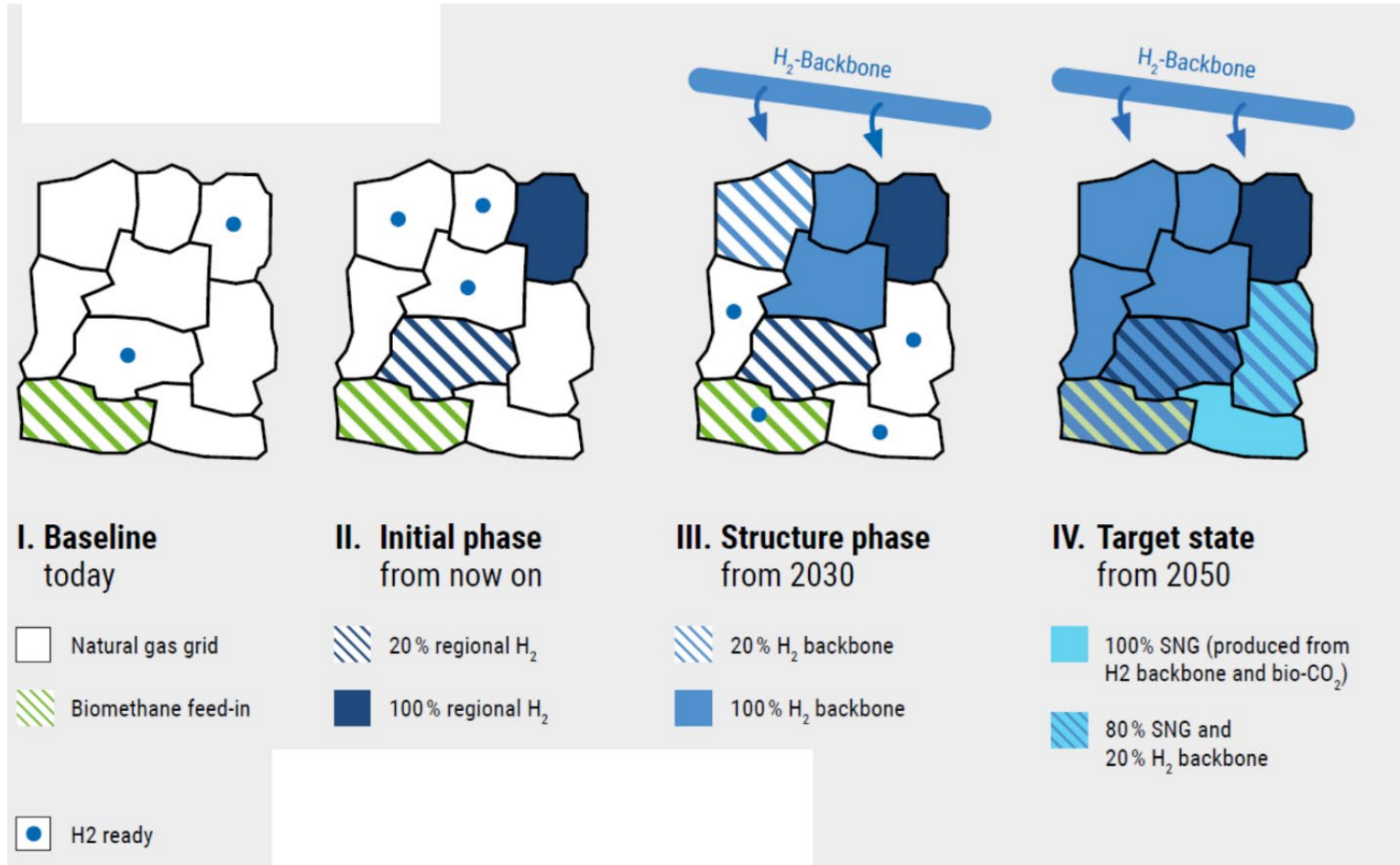


https://task37.ieabioenergy.com/files/daten-redaktion/download/Technical%20Brochures/Renewable%20Gas%20Report_END.pdf

The transition to renewable gases



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<https://erig.eu/wp-content/uploads/2021/05/ERIG-Theses-EU-energy-future.pdf>; SNG = synthetic natural gas, i.e., synthetic methane (SM)