

On current occasion: REPowerEU – EU-wide biomethane potential



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08. March 2022:

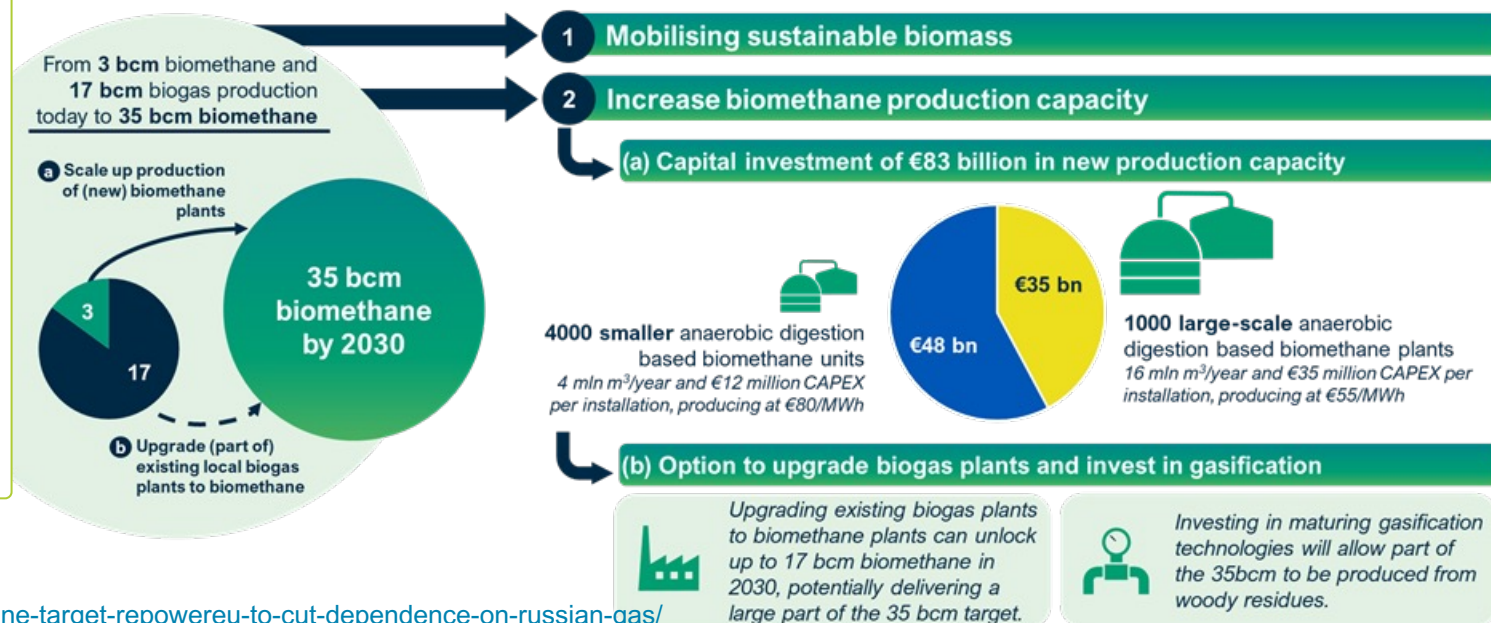
Goal:

- 35 billion cubic meters of biomethane to be produced by 2030
- Adoption of the requirement formulated by EBA and 30 other organisations to make 350 TWh available.

20 % of current imports from Russia

w/o additional farmland use

What it takes to produce 35 bcm biomethane by 2030



<https://www.europeanbiogas.eu/commission-announces-groundbreaking-biomethane-target-repowerEU-to-cut-dependence-on-russian-gas/>

- Abolition of the maximum rated output (capping of production capacity)
- More flexibility in substrate use
- Less bureaucratic hurdles and faster decisions on permits locally

On current occasion: German-wide biomethane potential



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(i) Waste, Residuals & By-Products: **56-115 TWh**

- Municipal residues: 6,3 TWh
- Industrial residues: 27,1 TWh
- Manure (wet/dry): 21,4 TWh
- Straw: 0 - 58,1 TWh
- Other agri-residues: 1,7 TWh

(ii) Conventional & alternative energy crops: **55 TWh**

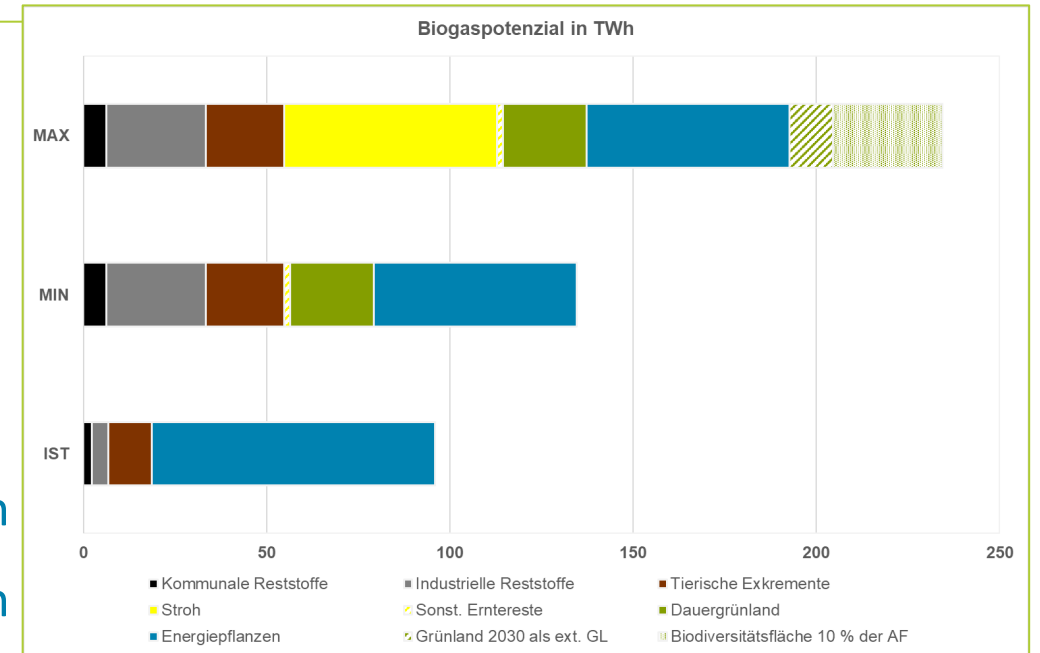
(iii) Permanent grassland outcrop: **23 TWh**

(iv) extensively used grassland outcrop (up to 1,2 Mio. ha in 2030): 0-22 TWh

(v) Biodiversity areas (up to 1 Mio. ha wild and flowering plants in 2030): 0 - 30 TWh

=> **up to 234 TWh** (thereof approx. 95 TWh developed)

=> **Corresponds to approx. 42% of today's natural gas imports from Russia**



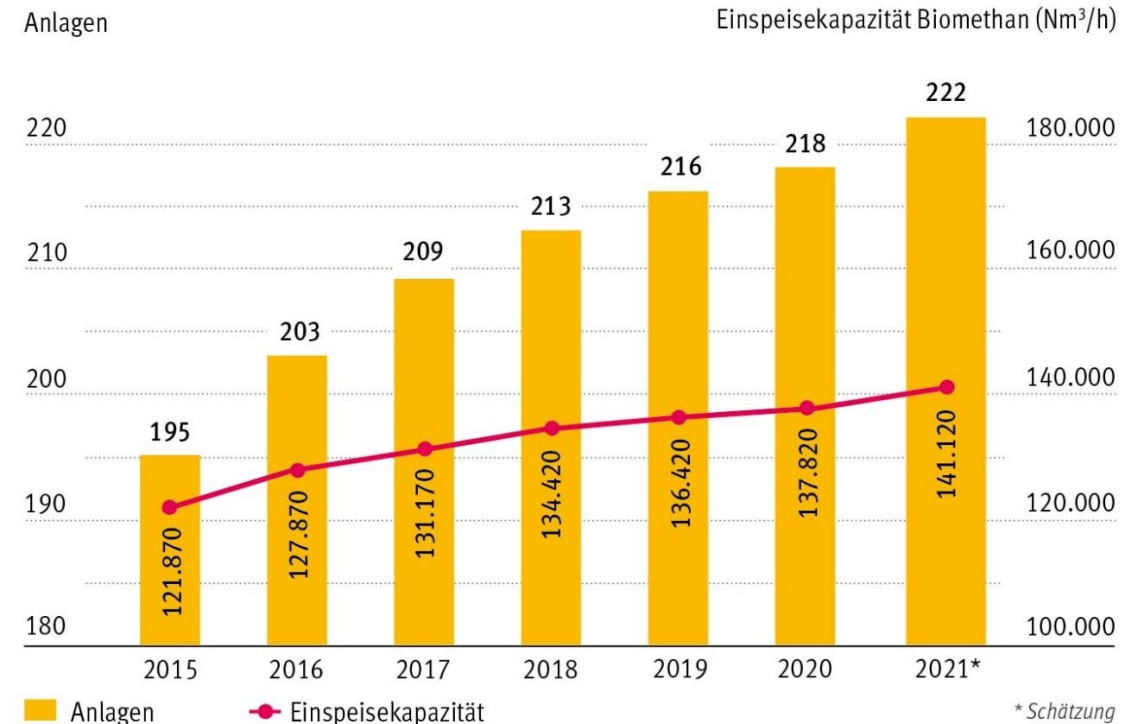
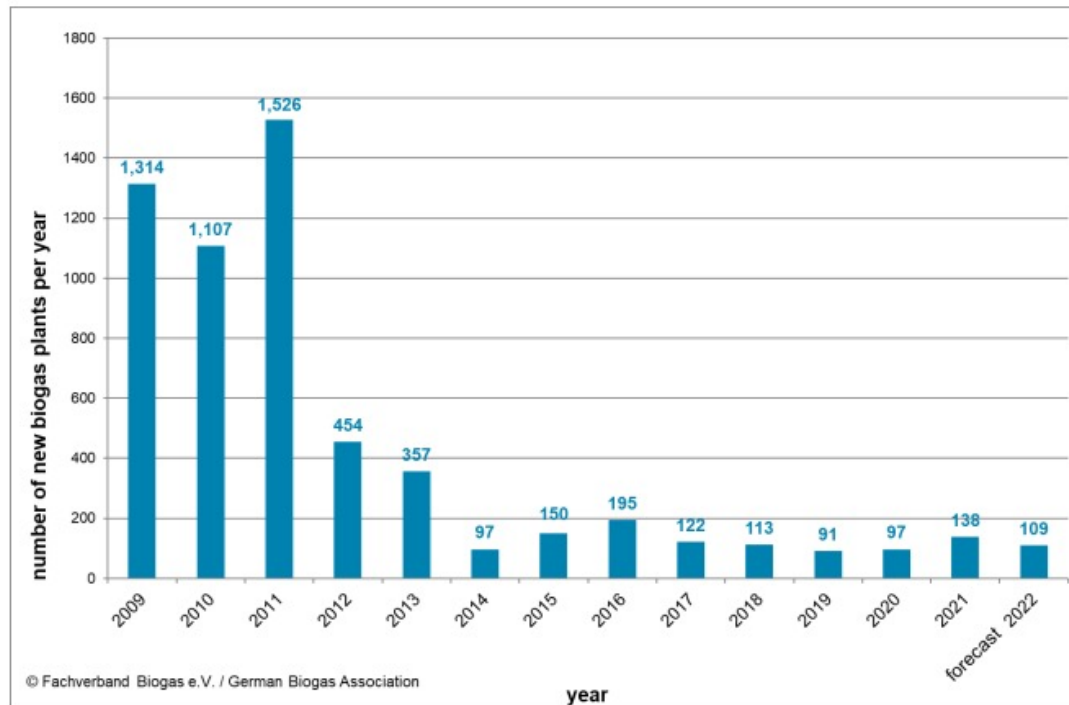
Sources: FvB

Abfälle, Reststoffe, Nebenprodukte, Energiepflanzen und Aufwuchs von Dauergrünland nach DVGW (2019), Ermittlung des Gesamtpotenzials erneuerbarer Gase zur Einspeisung ins deutsche Gasnetz.

How much biomethane ends up in Germany's Biomethane Sector?

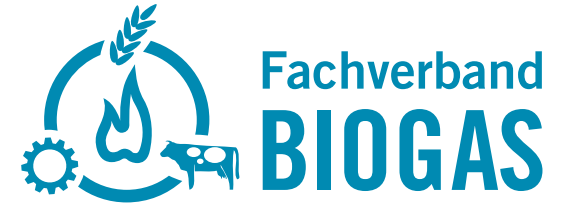


Development of the number of biogas plants per year in Germany
(as of 10/2022)

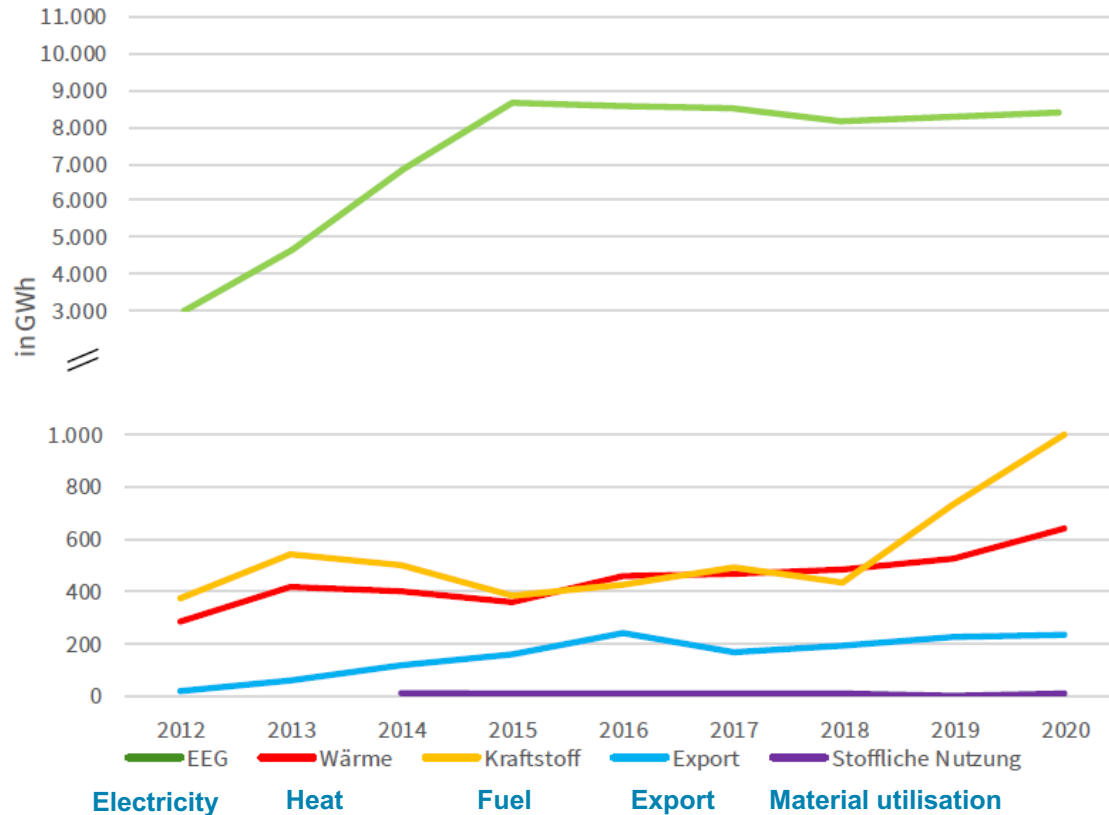


**Installation capacity strongly decreasing – yet biomethane production increasing.
Older plants are upgrading to other uses than just electricity production from biogas.**

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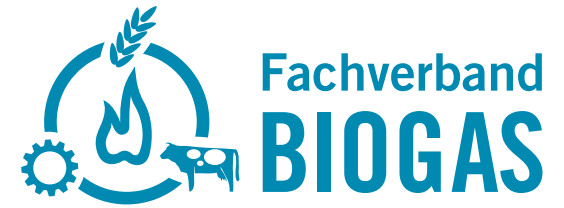
Biomethane Commercialisation



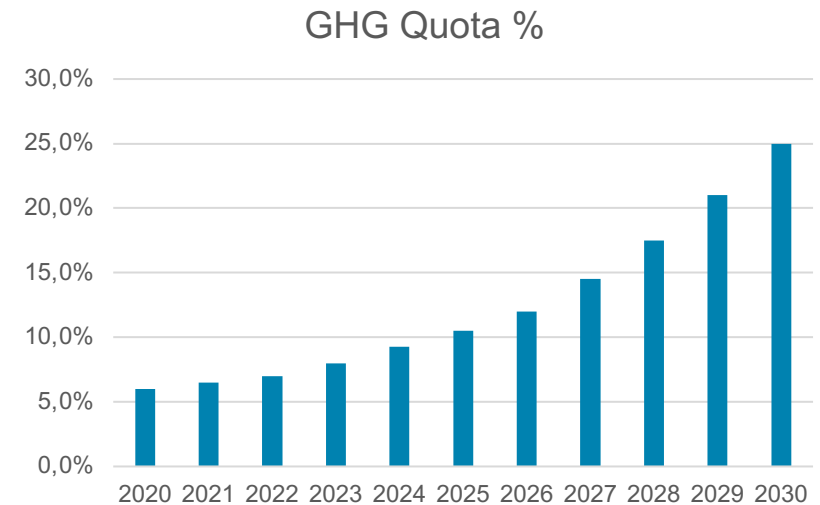
Year	Biomethane Feed-in [GWh]	Thereof fuel utilisation [GWh]
2020	9,847	1,000
2019	9,823	700
2018	10,108	389
2017	9,893	380
2016	9,318	379

Source: dena Branchenbarometer Biomethan 2021

Relevance of the RED and the GHG balance in Germany's transport sector



- GHG quota replaces energy quota since 2015
 - since 2015 : 3.5 % GHG reduction
 - since 2017 : 4.0 % GHG reduction
 - since 2020 : 6.0 % GHG reduction
- **Everyone who distributes fuel must prove quota fulfilment!**



Year	Minimum for energy purposes, double credit for amounts above the minimum	2022	2023	2024	2025	2026 2027	2028 2029	2030
Advanced biofuels quotas (RED II Annex IX Part A)		0.2 %	0.3 %	0.4 %	0.7 %	1.0 %	1.7 %	2.6 %

- Biomethane as fuel can be used to fulfill quotas
 - **Non-compliance is penalised: 0.47 €/kg CO₂ = 470 €/t CO₂ (raises to 600 €/t CO₂)**