

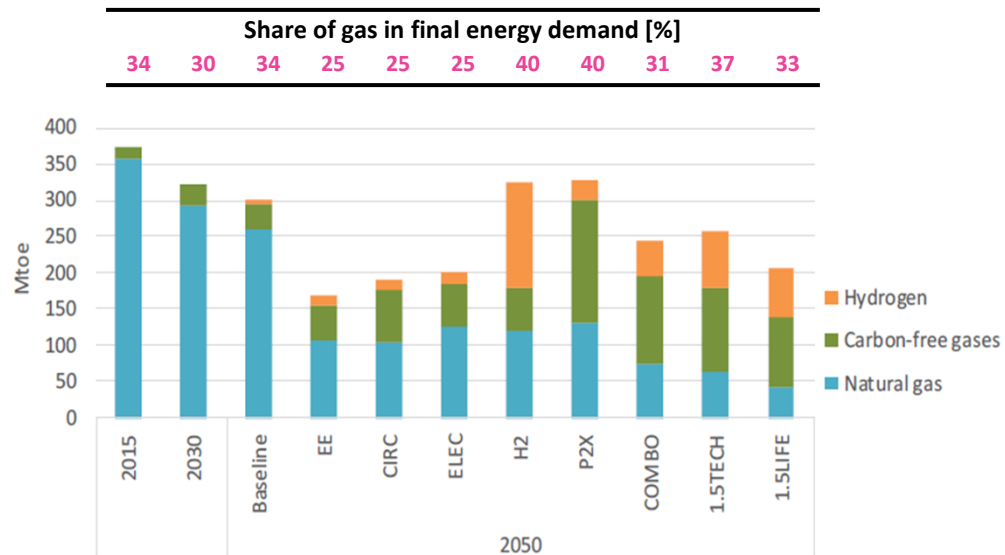
 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

bmk.gv.at

National Energy Policies and Incentives for Biomethane Production

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The Green Deal – Carbon Neutrality 2050



Note: “carbon-free” gases refer to e-gas, biogas and waste-gas.

Source: Long-Term Strategy 2050 of the EC, 2018; PRIMES

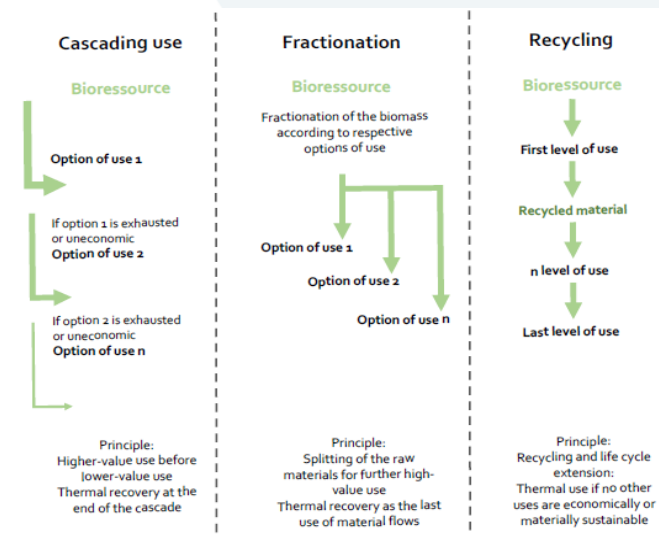
- Renewable molecules have an essential role for the deep decarbonisation until 2050
- Even in the electrification scenario (ELEC) gas represents 25 % of the final energy demand
 - **on average: ~ 35 %**
- in addition: 3 – 8 % renewable liquids (depending on scenario)

Government Programme of AT

- 100 % (on balance) renewable electricity (+ 27 TWh)
- Climate Neutrality 2040
- 25 – 30% reduction of primary energy intensity
- 46 – 50 % renewable share
- **5 TWh renewable gas production capacity 2030**

Bioeconomy in Austria

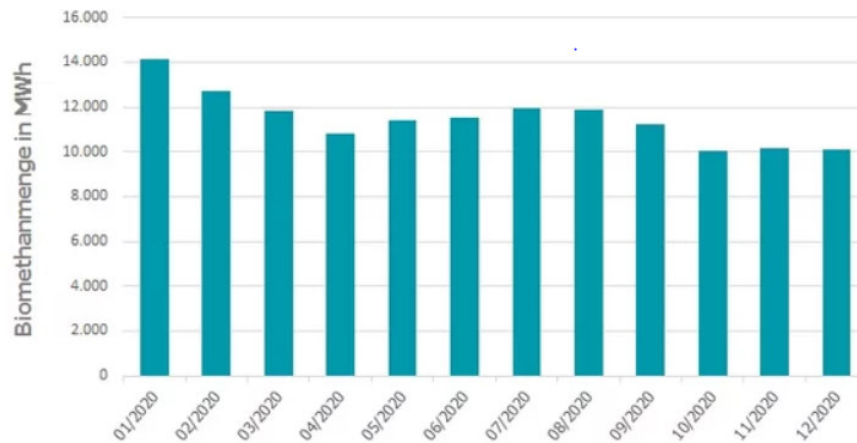
- Austrian Bioeconomy Strategy* adopted by the government on 13.03.2019
- Identifies fields of actions and addresses e.g.
 - Need of changes in consumption
 - New raw materials from waste, residues and by-products for new products (e.g. biogas)
 - a more efficient way of processing (circularity, cascades,...)
- Ongoing work on measures related to the Bioeconomy in 2021



*https://www.bmk.gv.at/en/service/publications/technology/bioeconomy_strategy.html

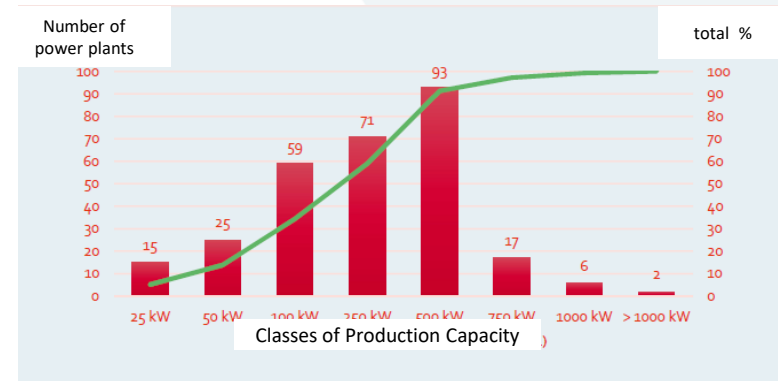
Renewable Gas in Austria – State of Play (2020)

- Gross domestic consumption of gas: 94,9 TWh
- Injected biomethane 2020:
139 GWh -> 14 Mio. m³ CH₄ -> **0,15 %**



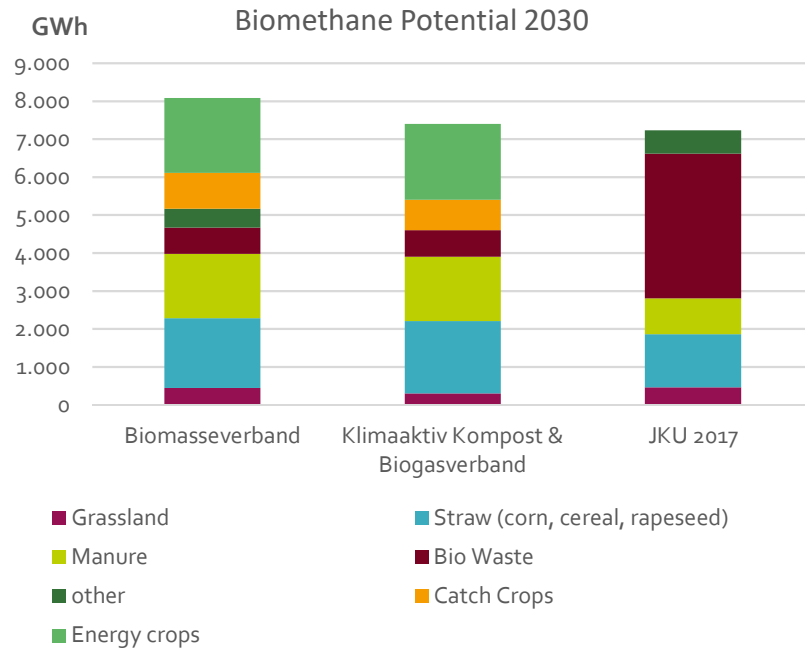
Biomethane injection in AT (2020); Source: AGCS, www.biomethanregister.at

- ~290 biogas power plants producing 0,56 TWh of energy (power & heat)
- Large share of small production capacities
- Feedstock consisting to > 65 % of renewable raw materials

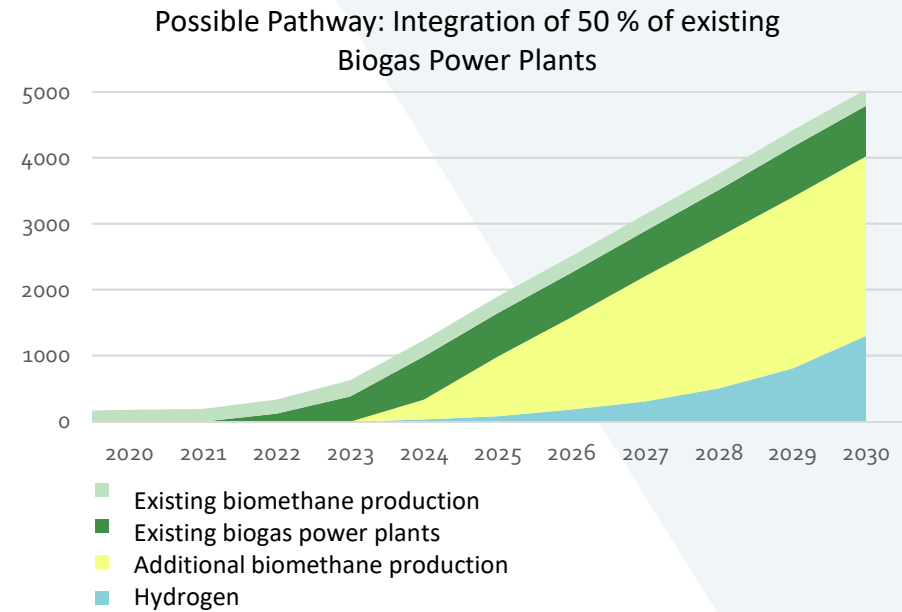


Source: BMK (2021)

Renewable Gas: National Potential until 2030

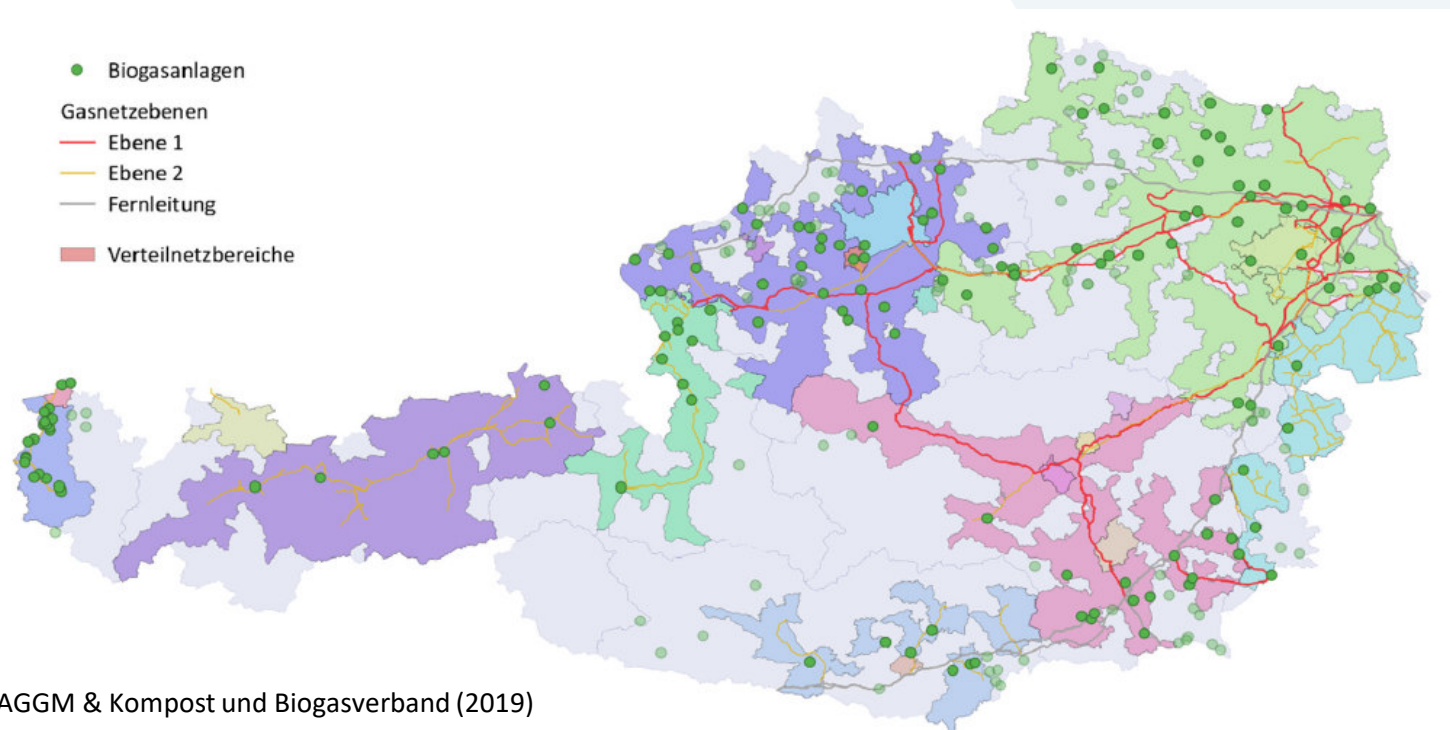


Source: BMK (2020)



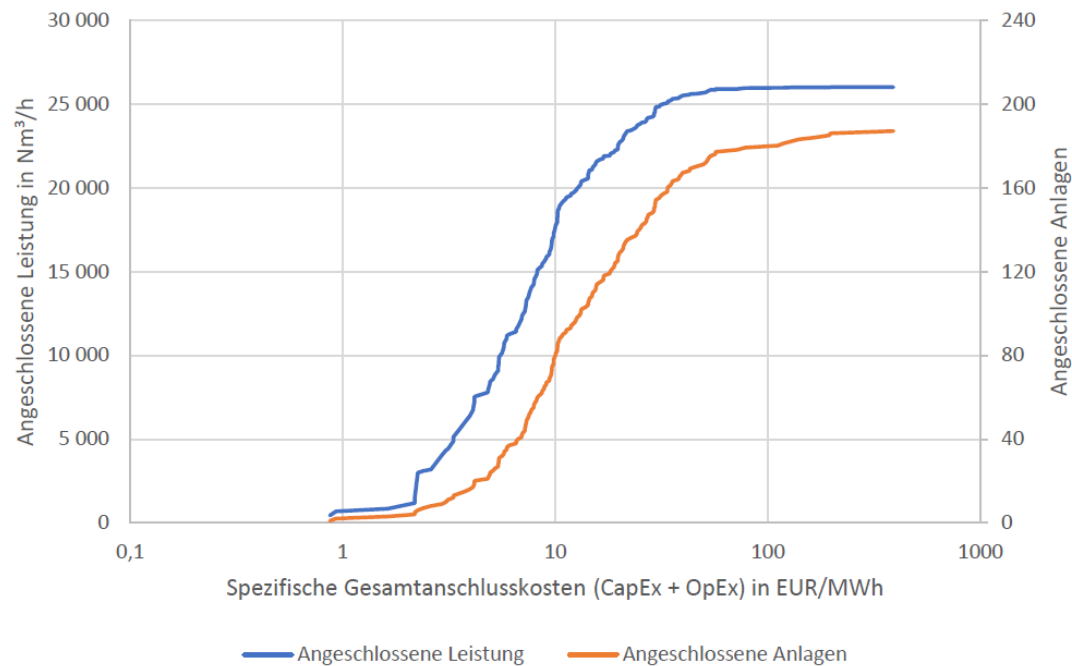
Source: BMK (2020)

Integration of biogas power plants into the gas grid – 1



Source: AGGM & Kompost und Biogasverband (2019)

Integration of biogas power plants into the gas grid – 2



- Integration of 65% of installed biogas chp capacity into the gas grid could be achieved with investments of 100 Mio. EUR
 - > 109 biogas plants
 - > 1,5 TWh of biomethane production p.a.

Source: ÖVGW & MUL, 2019

Renewable Gases in the Renewable Deployment Act (EAG) – 1

- Investment support for renewable gases
 - Conversion of existing biogas chp plants
 - New production facilities for renewable gases (excl. electrolysis)
 - Electrolysis
- Investment aid for biomethane production linked to feedstock regulation
 - Focus on waste streams
 - Feedstock concept (min. 5 years)
 - Linked to feedstock mix
- New definition of system border between production and grid operation
- Service facility: Guidance for renewable gas producers and gas suppliers;
- Guarantees of Origin for renewable gas according to RED II

Renewable Gases in the Renewable Deployment Act (EAG) – 2

- Integrated Grid Infrastructure Planning
- Definitions of „renewable gas“, „renewable hydrogen“, ...
- Exemption of renewable gases from natural gas tax (already implemented)
- Should enter into force in Q2 2021

Renewable Gas Act (EGG): Support mechanism for renewable gases

- Renewable Gas Quota for gas suppliers
 - Start: 2023 at 0,7 %;
 - yearly incremental increase to 5,6 % in 2030
 - Possible adaption (raise) of the quota by ministerial decret
- Automisation mechanism for target after 2030
- Compensatory payment possible
- Quota can only be fulfilled with renewable gases which contributes to the national renewable target according to RED II

Outlook for national biogas policies 2021

- RED II Implementation
- Adoption of Renewable Deployment Act (EAG)
- Consultation & adoption of the Renewable Gas Act (EGG)
- Ongoing work on measures related to the Bioeconomy
- Hydrogen strategy including mobilization strategy for renewable gases

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Thank you for your
attention!

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