

GREEN GASES – POTENTIAL OF DECARBONIZATION

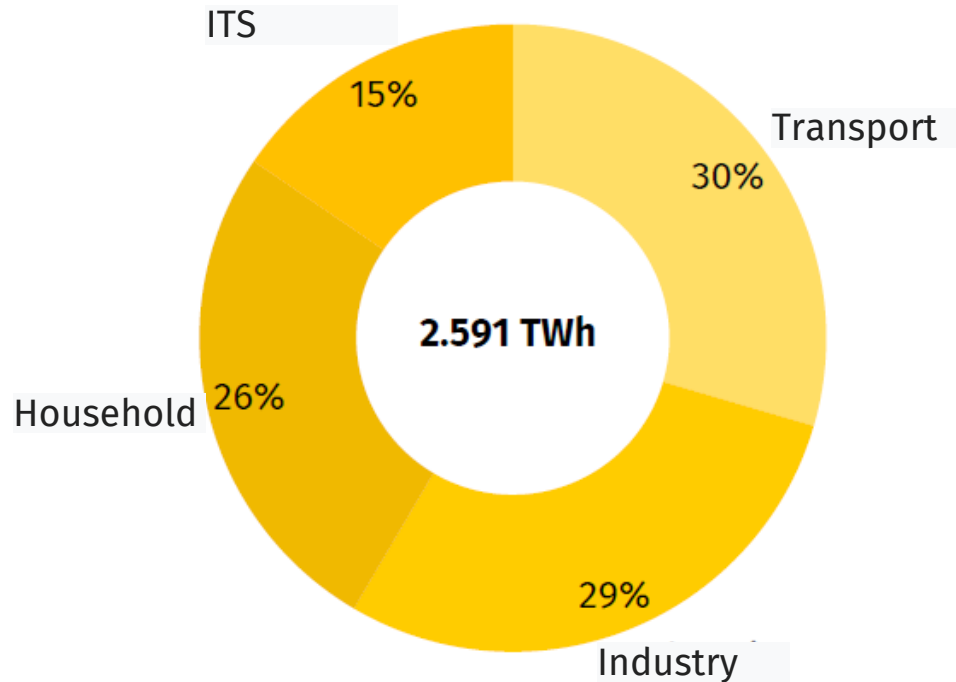
Cornelia Müller-Pagel, Head of Green Gas

29.11.2019

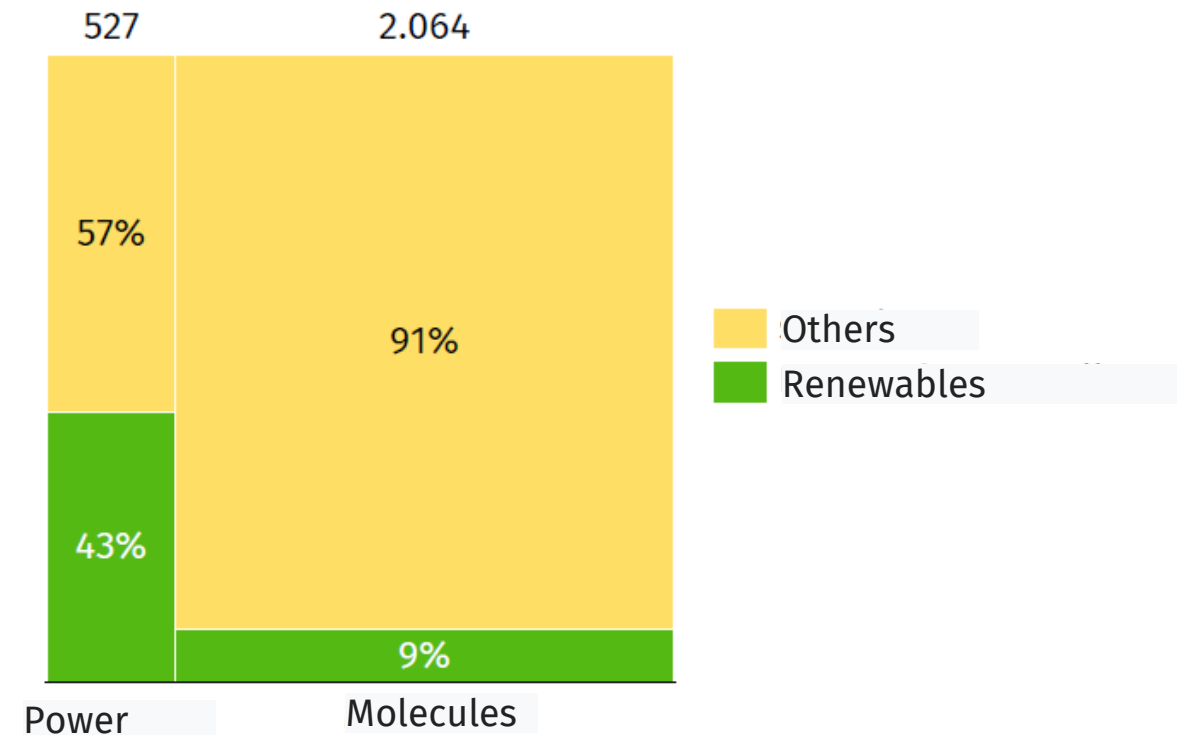
HIGH DECARBONIZATION PRESSURE IN GERMANY

There is still a lot to do.

Final energy consumption



Sources of final energy consumption in TWh




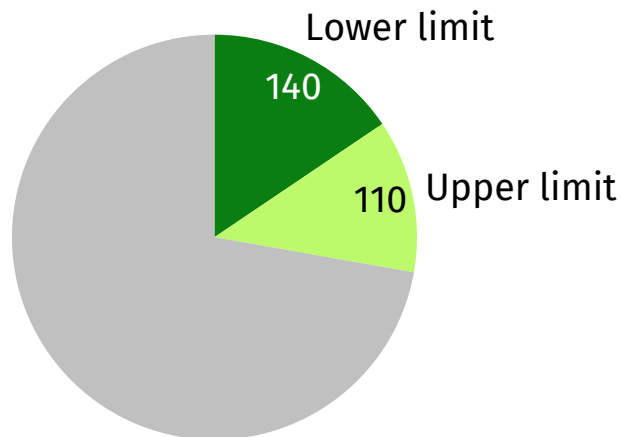
POTENTIAL OF DECARBONIZATION THE GAS SECTOR

GREEN GAS PRODUCTION POTENTIAL IN GERMANY IS NOT ENOUGH.

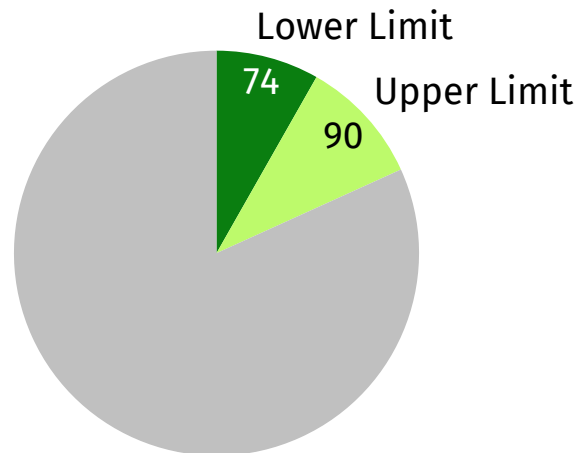



Possible contributions to Decarbonization until 2050 (calculation base: 900 TWh)

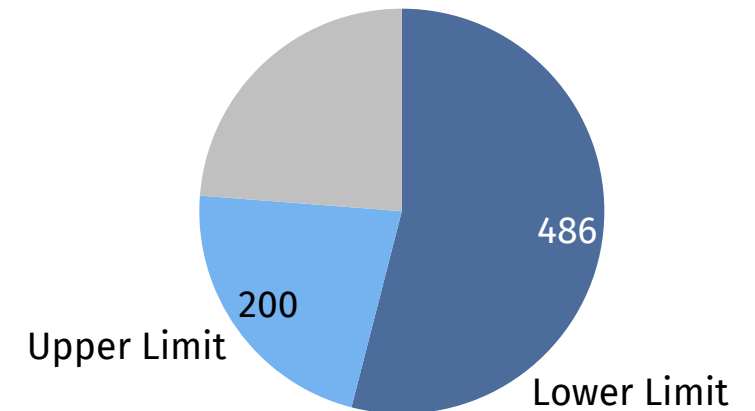
 Biomass
Germany



 Elektrolysis
Germany



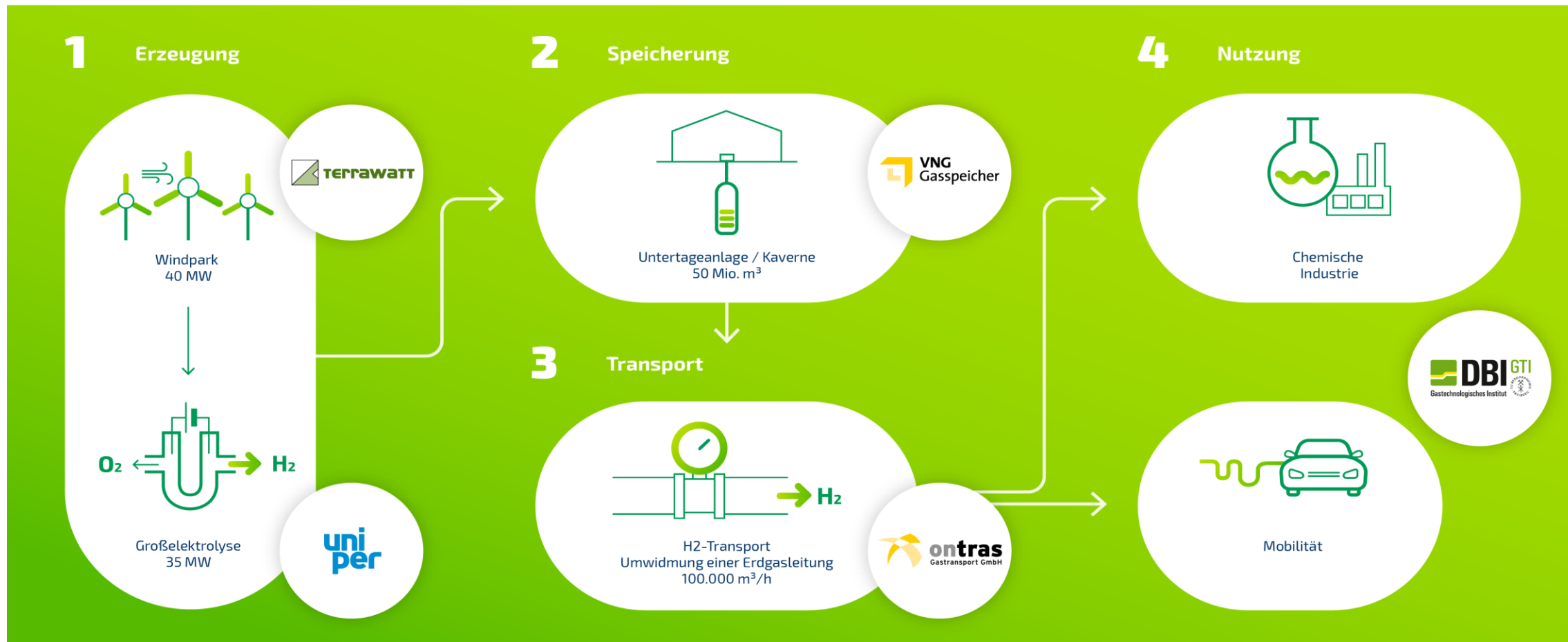
 Blue Hydrogen/
Import



Conclusion

- Even if the green gas potential is maximized and used in the gas sector only, biogas and electrolysis-based hydrogen can cover just under half of today's natural gas demand
- A large-scale approach, as it may possibly represent natural gas pyrolysis, is necessary. Natural gas pyrolysis can also be considered as part of an insurance strategy in case of lower than expected efficiency gains.
- The currently pursued international projects for the establishment of a global hydrogen value chain become relevant for the mass balance and as a price indicator (make-or-buy)!

Concept „Energiepark Bad Lauchstädt“





THANK YOU FOR YOUR ATTENTION!

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