HIGH DECARBONIZATION PRESSURE IN GERMANY

There is still a lot to do.

Final energy consumption

- Household: 26%
- Industry: 29%
- Transport: 30%
- ITS: 15%

Total: 2.591 TWh

Sources of final energy consumption in TWh

- Power: 527 TWh (43% Renewables, 91% Others)
- Molecules: 2.064 TWh (9% Renewables, 91% Others)

Source: Federal Environmental Agency based on AG Energy Balances
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“

1. Erzeugung
   - Windpark 40 MW
   - Großelektrolyse 35 MW

2. Speicherung
   - Untertageanlage / Kaverne 50 Mio. m³
   - VNG Gasspeicher

3. Transport
   - H₂-Transport
   - Umwidmung einer Erdgasleitung 100.000 m³/h

4. Nutzung
   - Chemische Industrie
   - Mobilität
THANK YOU FOR YOUR ATTENTION!

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