





Deutscher Verein des Gas- und Wasserfaches e.V.



I www.dvgw.de

# Hydrogen is looming: are we ready?

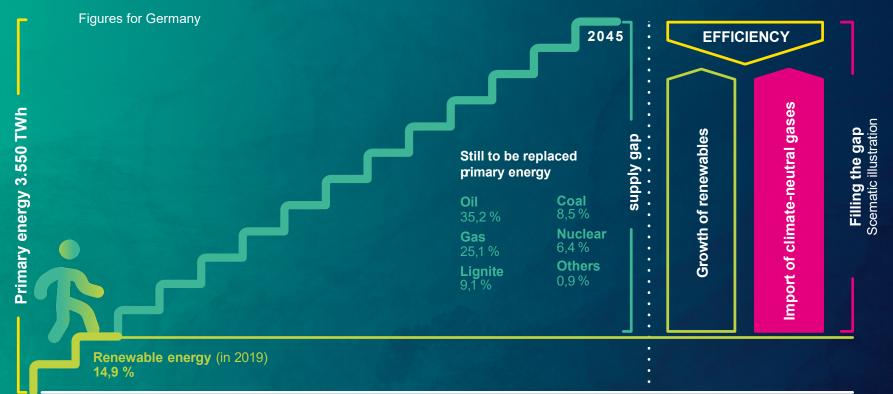
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German Gas & Water Association

Deutscher Verein des Gas- und Wasserfaches e.V.



# The ascent towards climate neutrality: the bigger part still lies ahead

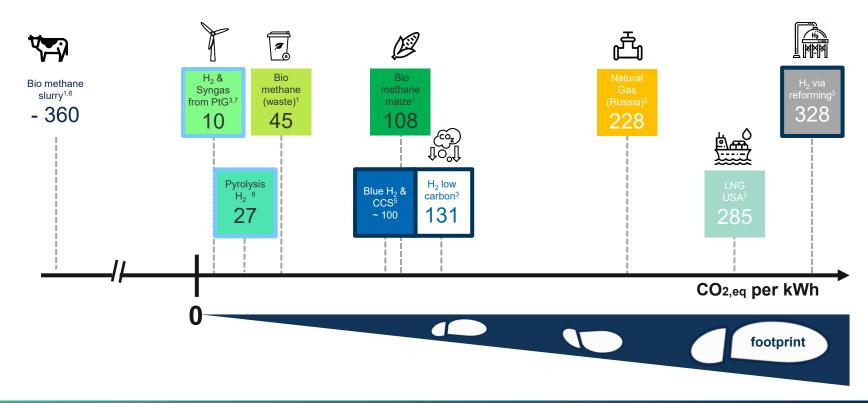


Source: AG Energiebilanzen e.V. and H2vorOrt 2021



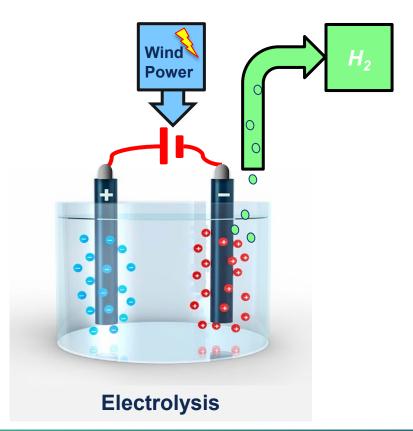
# We need hydrogen because it emits less or nearly zero carbon. Wind is a good source for PtH<sub>2</sub>

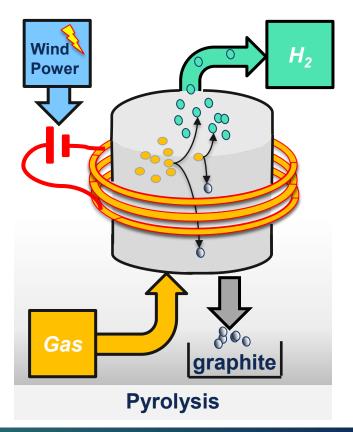
**Carbon-footprint of different gases** 





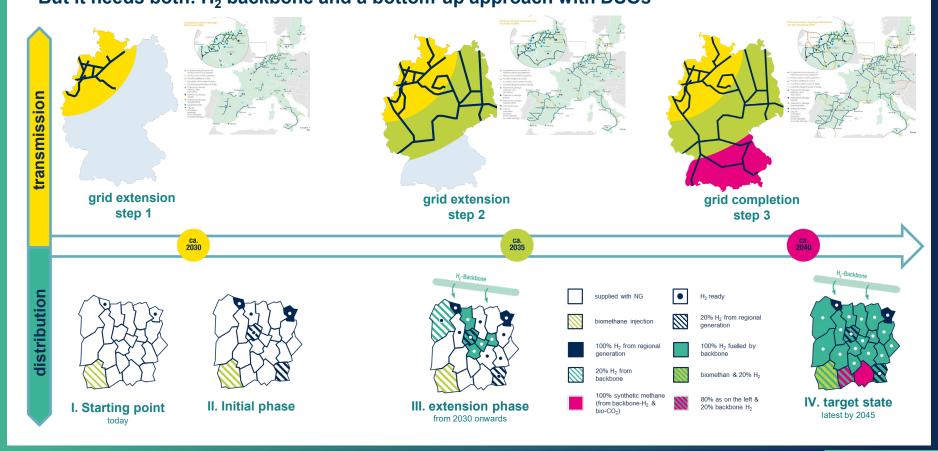
# Wind is a good source ... not only for electrolysis but to convert natural gas via pyrolysis to climate-neutral H<sub>2</sub>





#### DVGW

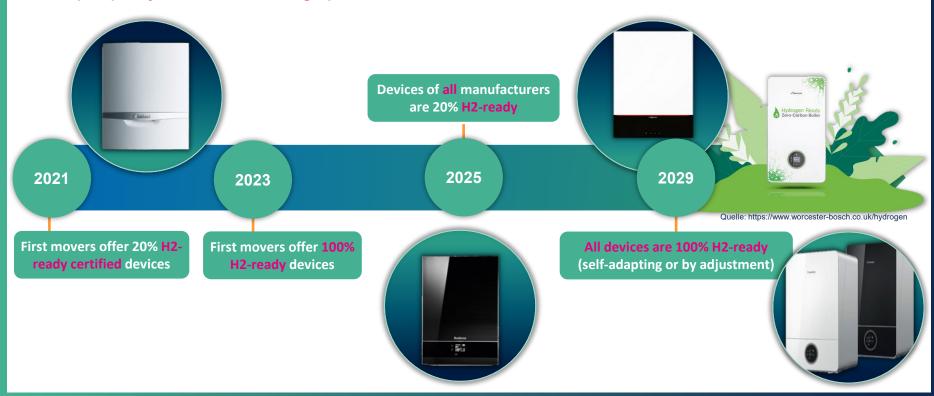
## Utilisation and upgrading of existing infrastructure keeps the costs low. But it needs both: H<sub>2</sub> backbone and a bottom-up approach with DSOs



#### Hydrogen in buildings: current and planned heating systems

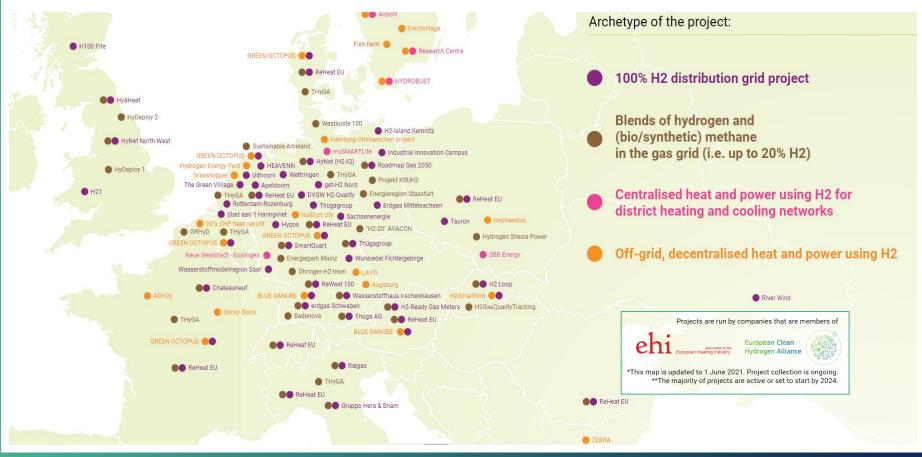


Innovation for affordable heat: H<sub>2</sub>-ready gas burners, heat pumps, hybrid devices and high-performance fuel cells



#### Hydrogen in buildings: current and planned projects





#### Are we H<sub>2</sub>-ready? Technology is ahead of policy. What we need is ...



#### Binding green gas goals per country



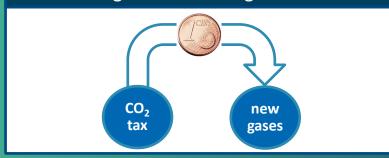
to be achieved by an increasing admixture and a raise of biogas and climate-friendly H<sub>2</sub>

# Regulatory framework to use natural gas pipelines to transport H<sub>2</sub>



- Joint regulation (H<sub>2</sub> & NG)
- Incentives for H<sub>2</sub>-readiness investments of DSOs

### Use of carbon pricing for the growth of new gases



# Climate bonus for modern heaters (labelling) and H<sub>2</sub> incentives for early clients



# Thank you for your attention

