



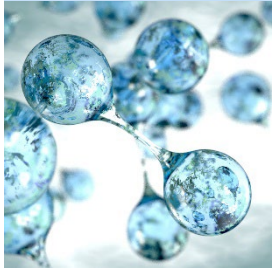
FICHTNER

Green hydrogen-based chemicals
as a driver for decarbonization

Indo-German Energy Forum
22 March 2022

Fichtner's hydrogen activities at a glance

Experience – Overview



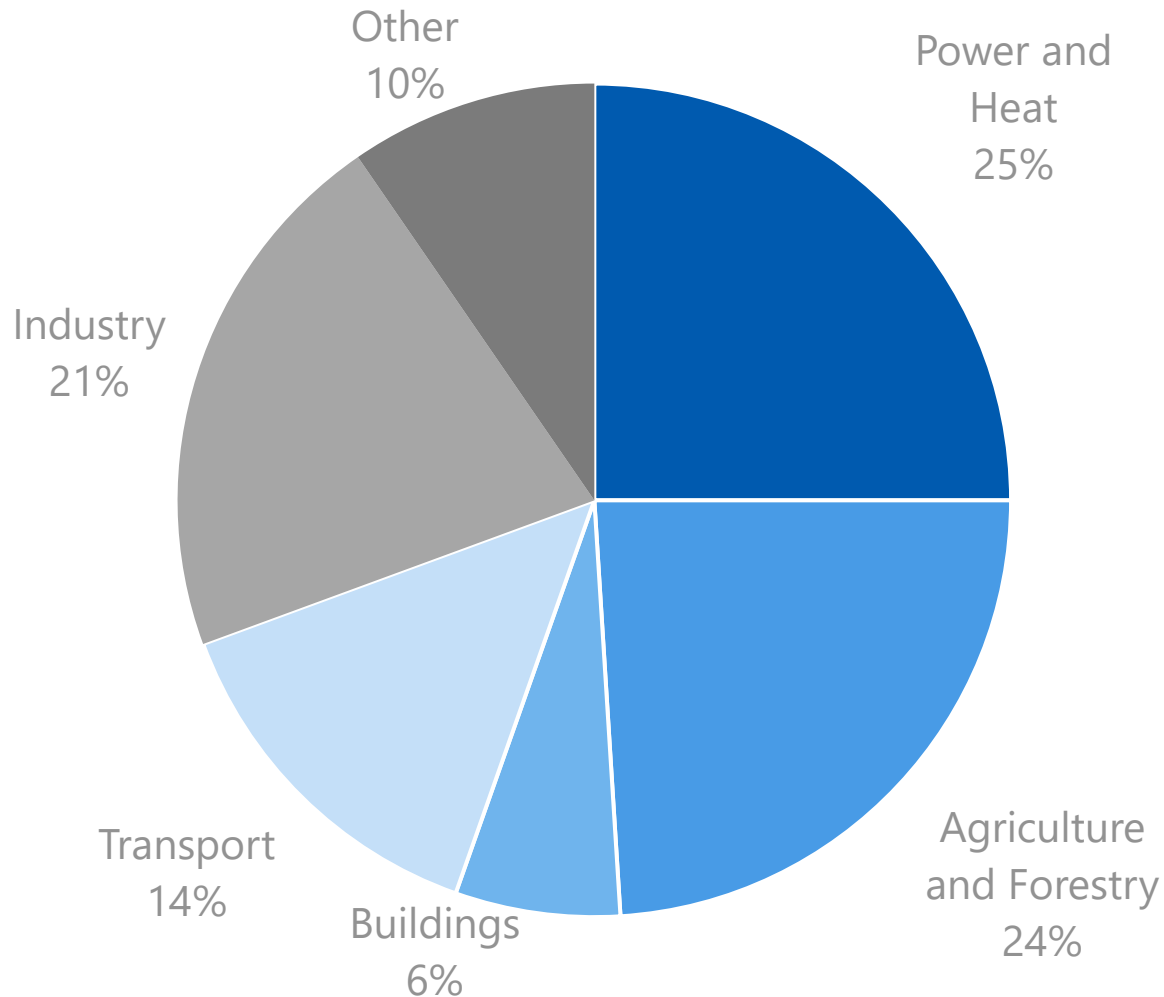
As early as the 1990s, Fichtner was involved in the development of electrolyzers and fuel cell installations. Fichtner has since assisted in the realization of many projects:

- Investigation of business models for hydrogen applications
- Project development, feasibility studies for more than 50 projects in the last four years (up to 4 GW electrolysis capacity)
- Planning, procurement and implementation of hydrogen projects (5 -100 MW electrolysis capacity) and hydrogen infrastructure



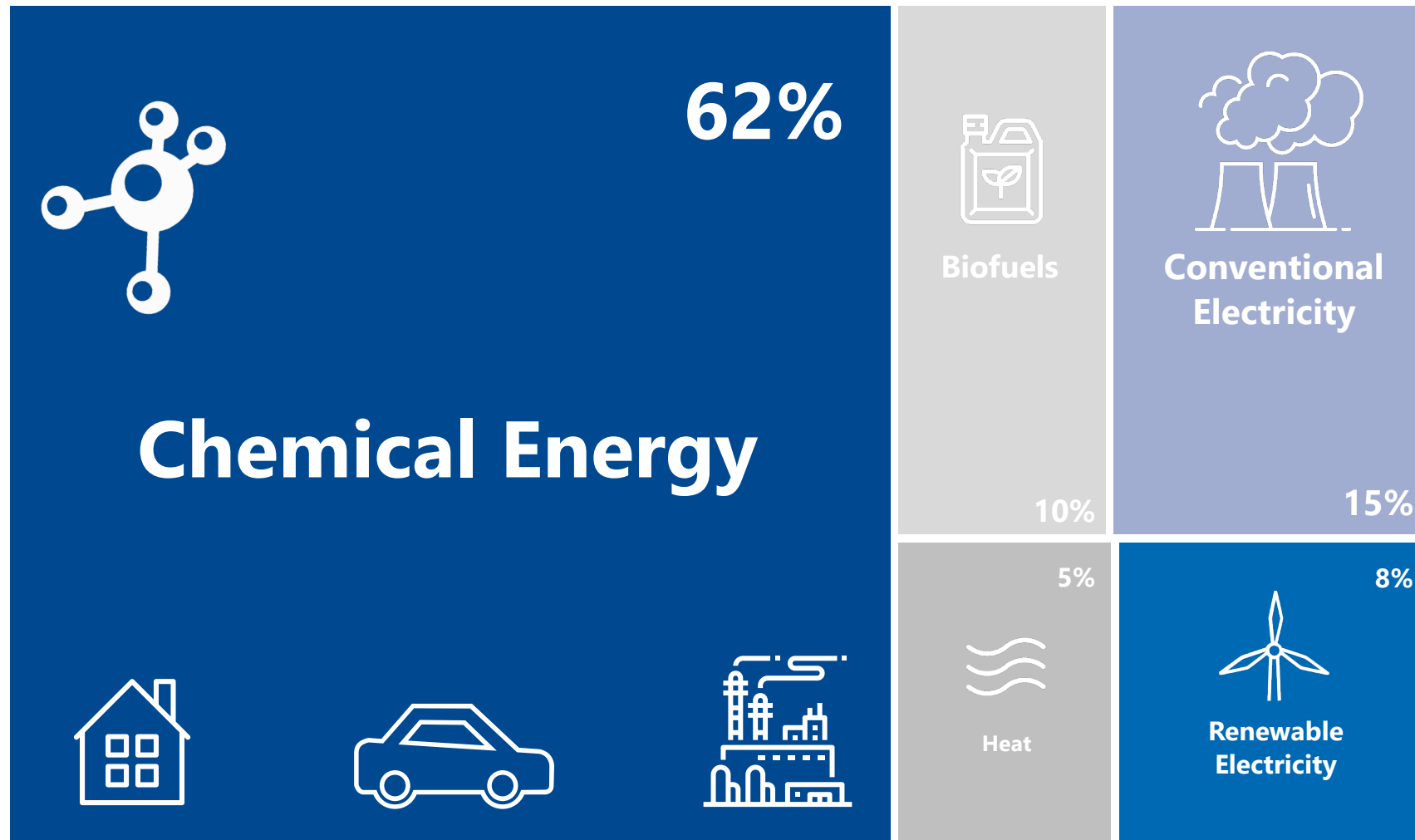
The challenge of net zero: a complete transformation of large parts of our world within less than 30 years

Share of economic sectors in global greenhouse gas emissions (IPCC)



Green Chemicals is the next renewable energy sector, with a size larger than today's renewable electricity market

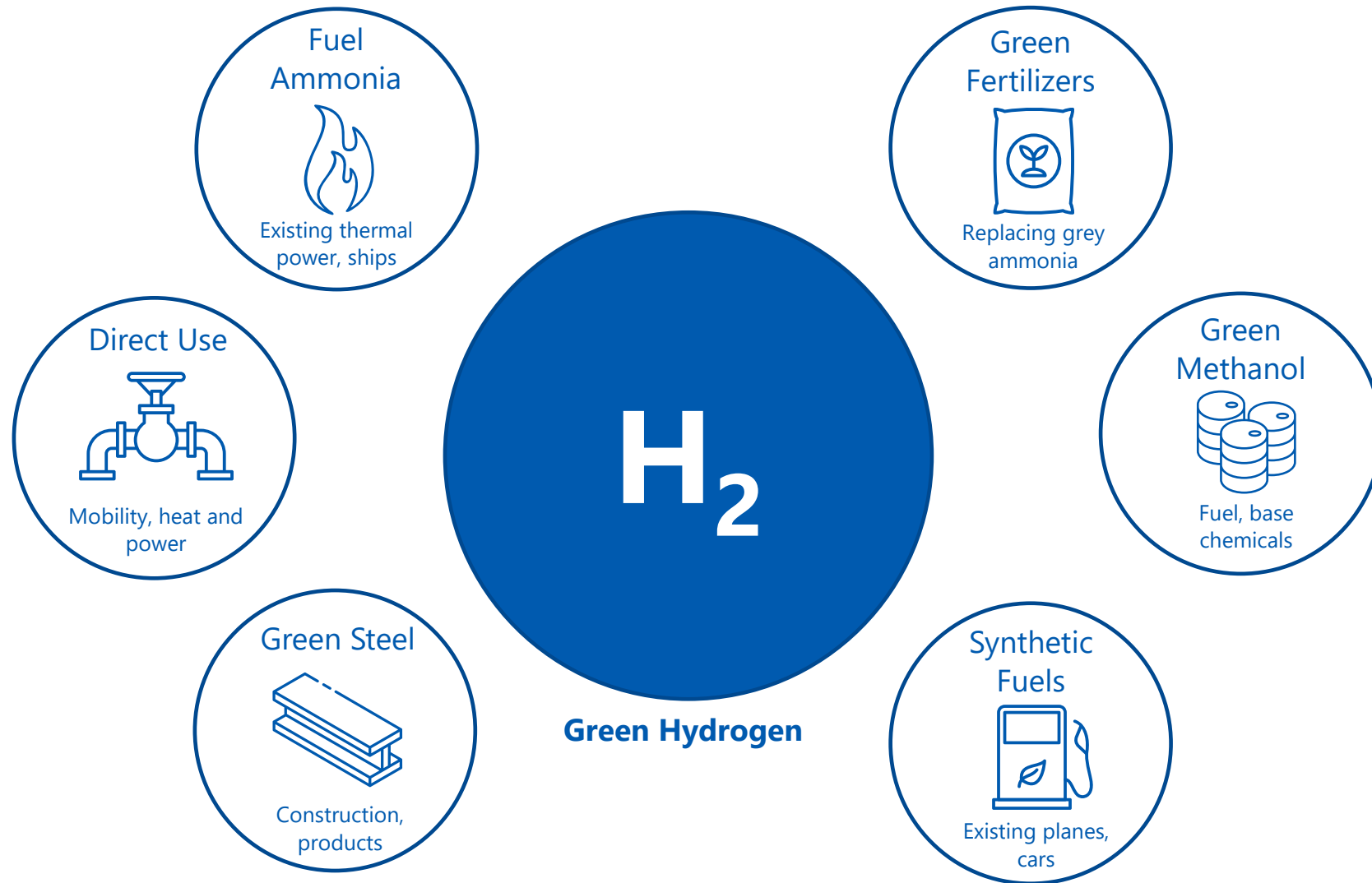
Example: EU-27 final energy consumption



Source: „Hydrogen – A Handbook for Investors and Project Developers“

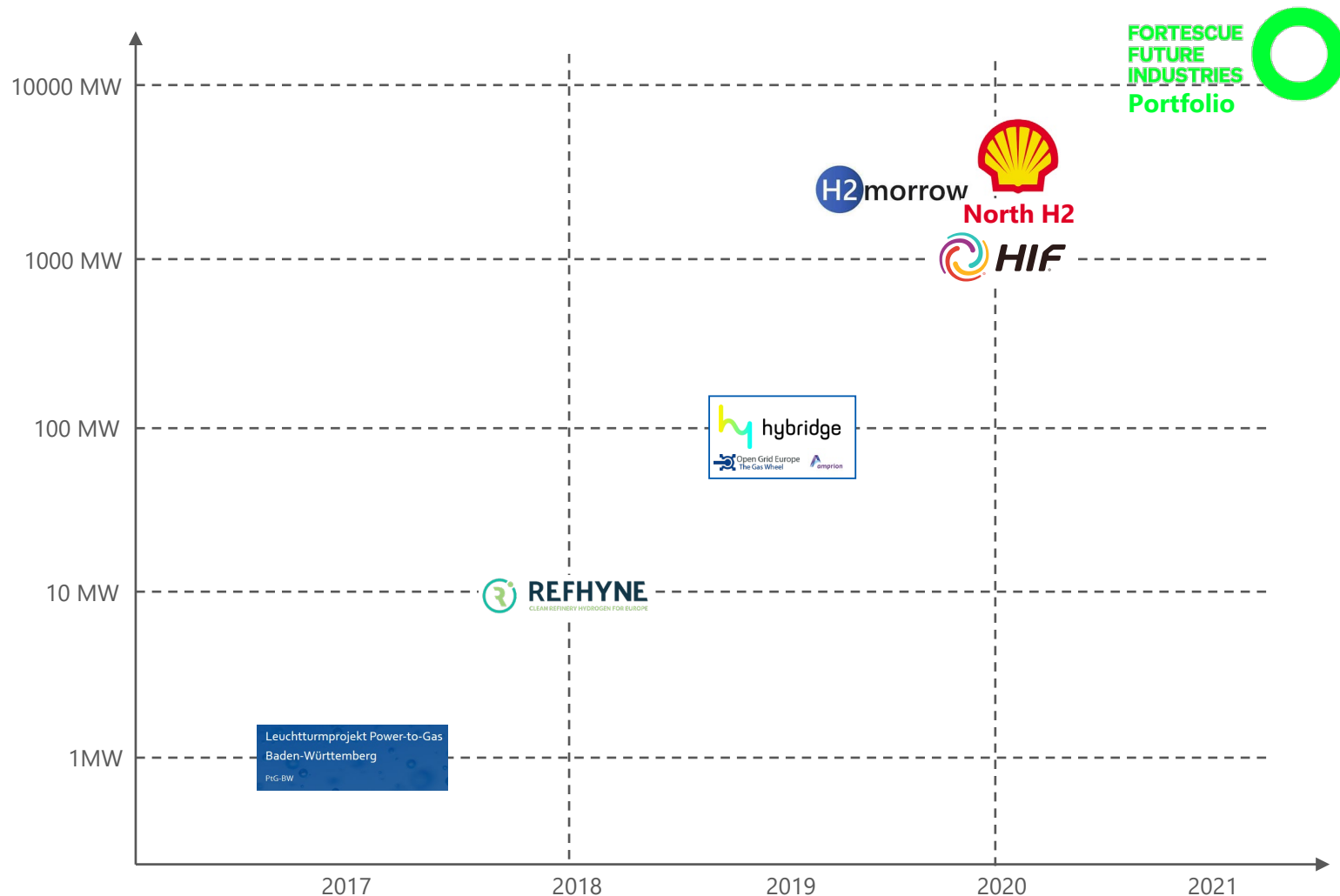
Green hydrogen is the basis for a large number of chemicals that are / will be used by industry and consumers

Green Chemicals



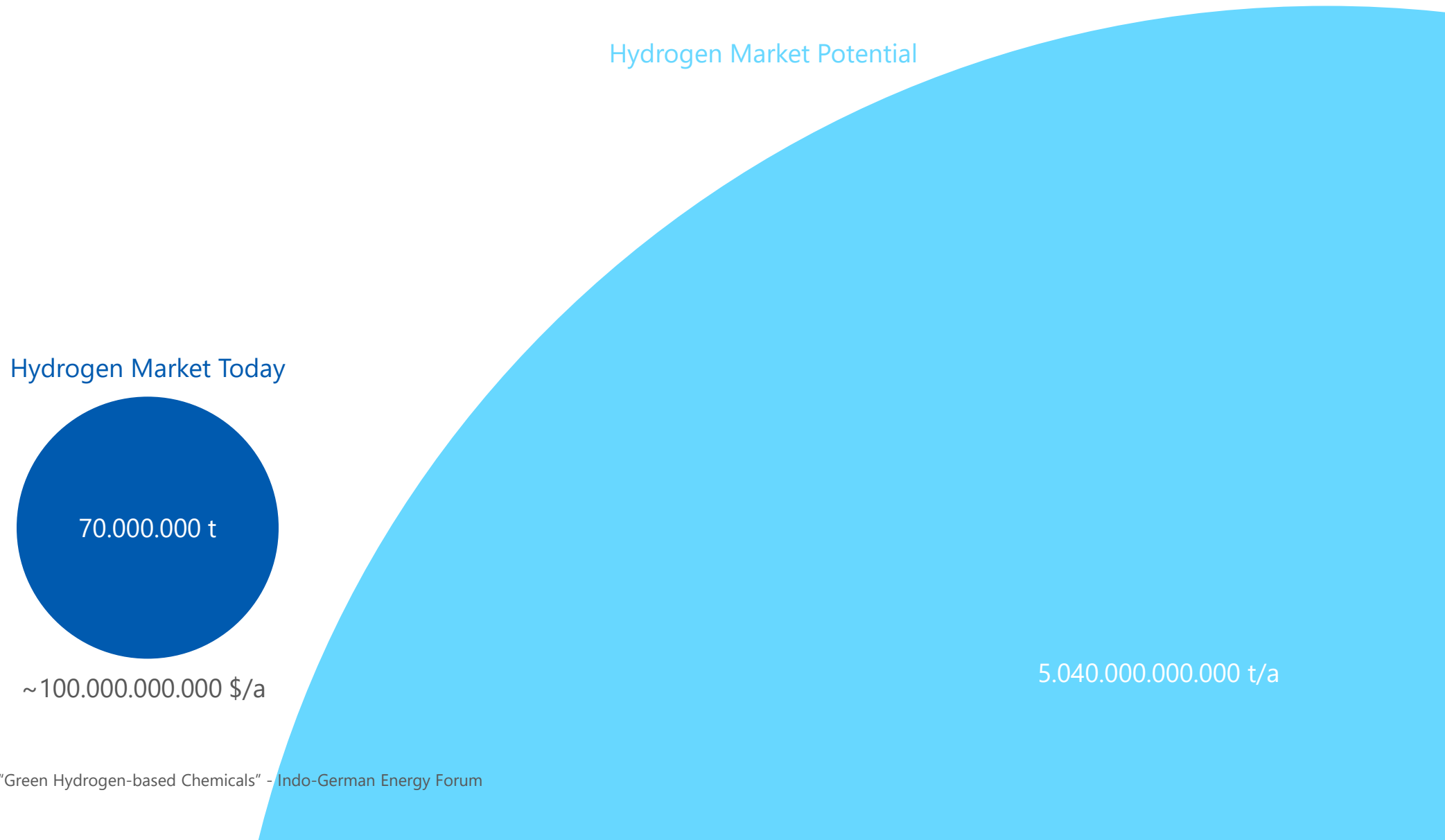
The scale of typical project sizes being announced has increased by a factor of 10 each year since 2017

Exemplary project announcements



Green hydrogen will capture an increasing share of the fossil fuels market. This makes it an important driver of decarbonization

Potential hydrogen market size - an illustration



*Visit us and find out how we can help:
www.fichtner-hydrogen.com*

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