

WP7B scope

Task 1 – value chain elements

- Identify and characterize the most important supply chain elements for the available options (LH₂, NH₃, LOHCs, MeOH, HCOOH, KBH₄)

Task 2 – technology development / innovation

- TRL & Scale-up potential
- Operational performance envelope
- Plot space requirements
- Cost estimates + learning curves

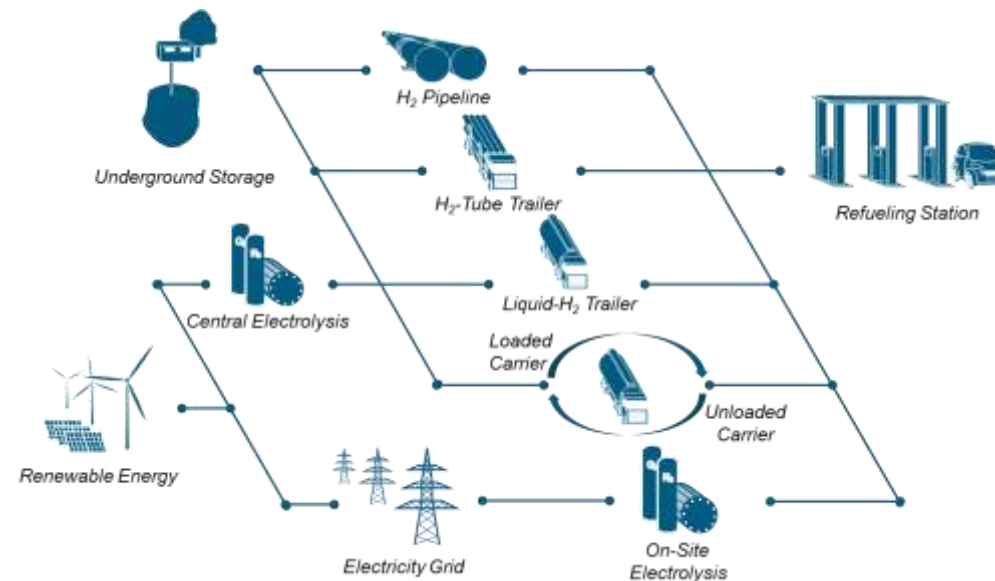
Task 3 – innovation roadmap

- Draws on work from previous tasks
- Workshops with industrial partners
- Public report for conclusions & recommendations

Task 4 – cost models / factsheets

- Selection of relevant supply chains + scenarios
- Cost analysis per supply chain (input for WP7A)
- Report (documentation + analysis)

- WP7B will draw on experience from relevant projects such as: HyChain, NorthH₂, North Sea Energy (NSE), Hy3
- Work will be carried out in close cooperation with WP7A, ensuring that the right data is available for the H₂ supply chain model used for techno-economic analysis
- Datasheets will be compiled for each element in the supply chains selected for analysis, in accordance with the storylines that will be defined.
- Simplified diagrams will be made for each application. The example below illustrates the supply chain needed to use green H₂ as fuel:



Source: [Forschungszentrum Jülich - Hydrogen Infrastructure](#)