



PARTNER INTERVIEW

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How would you describe MOST-H2 in one sentence?

Being developed by a broad international consortium, MOST-H2 investigates an innovative concept for hydrogen storage, from the laboratory to the tank.

What is your role in the project?

My role in this project is to coordinate the research activities and tasks foreseen regarding the techno-economic analysis (TEA) of MOST-H2 storage systems. This is intended to enable the prototype production of the innovative H2 storage system and ensure its economic feasibility for various heavy-duty transport applications. Within the green mobility context, we build on previous findings from the Austrian R&D projects "WIVA P&G HyTrain" and "WIVA P&G HyWest".

From your point of view: what will be the biggest impact of MOST-H2?

From my point of view, the biggest impact of this project lies with the potential application of the MOST-H2 storage system beyond the heavy-duty mobility. Furthermore, the assessment of the developed system regarding significant long-term storage capabilities will allow to achieve far reaching goals for the reconstruction of the energy system towards climate neutrality and energy autonomy.

Thank You

Learn more about Niusha's organisation

FEN RESEARCH GMBH



Green Energy Center

FEN Research GmbH (FENR) is a non-profit research organization focusing on multidisciplinary systems and process research and development (R&D) topics for logistics systems that are based on climate, energy and resource strategy approach. It represents the Green Energy Center Europe, a private sector Codex partnership of local and global industrial players and startups aiming to build the bridge towards a green future.

The two research laboratories of FEN Research are EWest (Power on Demand process) and HyWest (Power to Hydrogen process).

Within the HyWest research laboratory, ongoing activities concentrate on hydrogen infrastructure and multimodal logistics, focusing on innovative solutions for H₂ distribution to sectors such as Mobility & Transport, including various end-users and heavy-duty applications.

FENR's role in MOST-H2

Leading the techno-economic and environmental analysis, including cradle-to-gate assessment of selected MOF syntheses, comparing them from physico-chemical, economic and environmental aspects.

- ➔ Techno-economic and sustainability assessment
- ➔ TEA of MOF-based storage tanks for hydrogen trains
- ➔ Deployment assessment of the MOF-based storage system for use in hydrogen trains, trucks and buses