Oslo hydrogen energy storage

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The interactive full day event Oslo Hydrogen Seminar the 23rd of April is dedicated storage of hydrogen. The seminar is organised by researchers at Section for Environmental Geosciences at Dept. of Geosciences in collaboration with the HYSTORM research project, and University of Edinburgh.

The Oslo Hydrogen Seminar is about hydrogen storage in geological environments. Figure:Mohammad Masoudi et. al. 2024, in "Lined rock caverns: A hydrogen storage solution"Journal of Energy Storage.

The NORCE-led center, HyValue, will develop knowledge, methodology, and innovative solutions for hydrogen energy carriers. HyValue is a Centre for Environment-friendly Energy Research (FME), and is awarded NOK 15 million annually for 8 years, from the Research Council of Norway.

Building on Norwegian comparative advantages, HyValue aims to develop knowledge, methodology and innovative solutions for hydrogen energy carriers to build and support a competitive hydrogen energy sector. HyValue addresses five grand challenges related to development of a competitive Norwegian hydrogen energy sector:

Hydrogen plays a key role in Norway"s low emission strategy, in the European Green Deal, and in Europe"s clean energy transition. According to the hydrogen strategy of the European Commission, hydrogen is expected to contribute to reducing greenhouse gas emissions ahead of 2030 and to be a key building block towards a climate-neutral and zero pollution economy in 2050. The Norwegian Government"s hydrogen strategy serves to drive the development of new low emission technologies and solutions, supporting EU ambitions.

To boost hydrogen related research and development, a call for a new Environmentally Friendly Energy Research centre (FME) on hydrogen was issued in 2021. The purpose of the FME shall be to coordinate and increase the research efforts on hydrogen and hydrogen-based energy carriers (including ammonia) and accelerate the development of competitive technologies and solutions for production and use of hydrogen and hydrogen-based energy carriers.

FMEs are driven by industry needs and receive funding for an 8-year period (5+3 yrs). FMEs shall address climate and energy challenges and contribute to business development. The awarded funding is to strengthen the knowledge base required to develop a competitive Norwegian industry.

A transition to hydrogen-based fuels can only be achieved through a holistic development covering technical solutions, economic incentives, regulatory frameworks, societal and environmental impact, and safety.

HyValue will provide knowledge, methods and tools that can enable development of profitable products and

services. HyValue will further increase the national and international competitiveness on hydrogen-based solutions for implementation in society, with maritime application as the main driver, thereby playing an important role in achieving national and international strategic goals for an environmentally sustainable society.

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