

## 19. HYPOS-Dialog

# Hydrogen Storage in Salt Caverns - Insights and expertise for large scale underground storage

Wednesday, 11th October 2023

10:00-13:00 UTC+2

Online – Microsoft Teams

The storage of hydrogen plays a crucial role for a functioning hydrogen economy. Underground storage in caverns or pore storage facilities have been used in the natural gas market. The utilization of these storage options for hydrogen are already being tested and implemented in various projects. H2UGS in Bad Lauchstädt is one of the major projects under the Zwanzig20 funding programme. The know-how and experience gained by the project partners should be used for further projects of this kind. Therefore, HYPOS offers its members from this project the opportunity to present their specific range of services to potential customers. The target group are all kind of stakeholders who may be interested in services related to the planning, retrofitting and implementation of gas storage caverns for hydrogen. To this end, gas storage operators, energy suppliers and large industrial companies, for which storage could also be an option, will be invited to the workshop. In order to reach international stakeholders, the dialogue will be conducted in English. Stakeholders from all over Europe will be addressed. During the three-hour webinar there will be six inputs with 15 minutes presentation and 5 minutes questions and discussion each.

Participation in the 19th HYPOS Dialogue is free of charge. Registration is possible until 9<sup>th</sup> October 2023 [here](#). If you have any questions, please contact HYPOS Project & Cluster Manager Tobias Richter at [richter@hypos-germany.de](mailto:richter@hypos-germany.de).

### Partner



Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages

## Provisional Programme

Moderation: Johannes Wege, Managing Director HYPOS e.V.

10:00 UTC+2

### Introduction

#### **Importance of hydrogen storage in a renewable based energy system**

Johannes Wege, HYPOS e.V.

#### **The Big Picture**

Michael Schmöltzer, Gas Infrastructure Europe GIE

10:30 UTC+2

### Inputs

#### **Design Considerations for Hydrogen Caverns**

Hagen Bültemeier, DBI Gas- und Umwelttechnik GmbH

#### **Mechanical integrity of the hydrogen infrastructure: materials testing and lifetime prediction**

Frank Schweizer, Fraunhofer Institute for Mechanics of Materials IWM

#### **Above hydrogen caverns – the surface facilities, operational aspects and permitting**

Jörg Fröbel, ESK GmbH

#### **Methods for leakage assessment and feasibility of CO<sub>2</sub> as a cushion gas in Hydrogen storage in caverns**

Mohd Amro, TU Bergakademie Freiberg

#### **Concepts for new and existing caverns**

Daniel Luthmann, UGS GmbH

#### **Microbial impact on hydrogen storage in salt caverns**

Petra Bombach, Isodetect GmbH

Martin Wagner, MicroPro GmbH

12:30 UTC+2

### Résumé and discussion

Johannes Wege, HYPOS e.V.

Gefördert durch: