



Dear Sir or Madam,

The relevance of the topic of climate neutrality and decentralization has arrived in almost every valley in the Alpine region. Local players are doing their best to promote the expansion of renewable energy production. However, especially with the climate in the Alps, there are strong fluctuations and differences in production and demand. Here, the topic of green hydrogen is coming to the surface, which could also make supply gaps and sectors that are difficult to electrify climate-neutral in the future. In order to promote interregional knowledge exchange and to develop common strategies, the AMETHyST project was launched.

AMETHyST supports the deployment of Alpine green H2 ecosystems for a post-carbon future in the Alps. It reinforces the role of public authorities by increasing their capacity, designing support services to roll out green H2 solutions.

For more information visit our website

Best regards,
Team AMETHyST



Thanks already to the first 211 followers on [LinkedIn](#), [X \(@2022_AMETHyST\)](#) and [Youtube](#). To stay up to date on the progress of the project and meetings, subscribe, follow the AMETHyST-Channels.



Interregional Exchange in Innsbruck

In addition to several online project meetings, the second major project meeting was held in Innsbruck, Austria in early October. On the first day, team internal workshops were held, focusing on the barriers of the hydrogen sector in the Alpine regions. On the second day, the AMETHyST exchange program "Hydrogen" was held in Innsbruck. The public event was attended by about 50 interested participants.

More detailed information about the event on the project [website](#)

In case you missed the meeting in Innsbruck, below are the individual parts of the event (Recorded from the live stream).



H2 strategy Tyrol 2030 – Michael Polzinger, HyPA Clustermanagement

Watch now!



Development of green local H2 economy – Nikolaus Fleischhacker von FEN Research

Watch now!



P2X Jenbach – Daniel Jakob (TINEXT) and Maria Lechner (INNIO)

Watch now!



Hydrogen: International Exchange Programme 2023 – Panel Discussion

Watch now!

KEY POINTS TO REMEMBER FROM THE CONFERENCE IN INNSBRUCK



At various levels, there is a lack of structures and frameworks into which H2 strategies can be implemented and to which pilot projects can be oriented. Existing projects are associated with an enormous amount of own effort and knowledge. The economic effect of such pioneer actions is not very promising, but they are of enormous importance for the progress and the complete knowledge field in the field of H2. In the following, the key facts extracted from the workshop of 3th and the conference of the 4th Oktober 2023 in Innsbruck are presented. Thematically, they are differentiated into Stakeholder Engagement, Technology and Financing. It is important to emphasize that the focus of the workshop was on the barriers to the implementation of H2 projects.

STAKEHOLDER ENGAGEMENT

- Education (Local population doesn't know much about H2 -> Support from the local authorities -> need for strong political will)
- Build a new network between local and private stakeholders -> difficult task
- H2 as a solution and needed step for independence

TECHNOLOGY

- Areas of using H2: mobility, heating, industry, touristic use, energy storing -> H2 should be used where electrification solutions are most difficult to implement
- Storing (summer storage for winter lows) -> much space for storage is needed
- A lot of renewable energy production is needed for green H2 production -> energy grid is needed + experts
- Strategy "production and use" is necessary
- Scale of the ecosystem -> in a municipality, a region? How to identify the borders? A closed ecosystem (No import/export) will be less efficient?
- Time scale must be defined -> Who uses when and how often? -> data collection is needed
- Visual impacts of H2-Infrastructure
- Risks of using H2 -> needs to be clarified -> strict H2 restrictions in some countries

FINANCING

- High costs (support from local authorities)
- High risk (experimental state) -> courageous investors are missing

- Costs/price of H2 will change/hard to estimate

Two different approaches:

1. build up structure only when there is sufficient demand
2. build up infrastructure, from which the customers result

Current Results

Green Hydrogen in the Alps



This report reviews the state-of-the-art of green hydrogen solutions for application in the Alpine Space area and identifies the role of hydrogen in these territories by mapping the knowledge of local stakeholders on hydrogen and their experience in the sector. Hydrogen-related projects and initiatives are identified, for discussing the needs of local territories and the main gaps that hinder the development of a hydrogen economy in the Alps.

Map of green Hydrogen initiatives in the Alps



This deliverable maps the state-of-the-art hydrogen solutions adopted in local Alpine territories, including production, use, transport, distribution and cross-cutting projects and initiatives developed in recent years.

The two reports will be published on the [website](#) by the end of October.

What's next?

Knowledge Platform

- Development of a platform for **sharing knowledge** on the development of H2 solutions in local Alpine hydrogen ecosystems
- **Main objective:** sharing knowledge and raising awareness in a direct way by sharing information, guidelines and policies
- **Content:** Homepage + Interactive map
- **Timeline:** Mar. 2024 first draft of Platform; Oct. 2024 Launch of the online Platform

Dates and Events

Project Meeting in Slovenia

- **Proposed date:** March/April 2024
- **Designated place:** Ljubljana (Slovenia)

Mid-term Conference in Trentino

- roundtables, in an interactive format, combined with a study visit
- **Proposed date:** October 2024
- **Objective:** "To bring together project partners, observers, EUSALP AG9 and AG2 members, and selected experts to support a cross-national exchange"



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