



Interreg

Alpine Space



Co-funded by
the European Union

H2MA

The evolution of CLEAN HYDROGEN



Perspectives from
production to use
in mobility and
industry

29th of October 2025
Venezia Heritage Tower
(Marghera, Venice)



ALPS AS FRONTRUNNER FOR GREEN H₂ APPLICATIONS

Matteo Mazzolini | APE FVG Director | EUSALP AGg Representative



Hydrogen development in the Alps: the state-of-play



- Alpine culture of energy development dating back to the 19th century
- Alps recognise the potential of hydrogen in **energy storage**, in **decarbonising energy intensive industries** and in **heavy-duty transport**
- All Alpine countries have adopted **national hydrogen strategies**, and almost all Alpine regions have also adopted **regional strategies**, showing strong political commitment to the development of this sector
- To strengthen regional H₂ economies, Alpine regional authorities have partnered with public and private actors in **Clean Hydrogen Partnership Hydrogen Valley projects** (7 projects that demonstrate the need for cooperation between public and private actors)
- They finance **H₂ infrastructure** (refuelling stations, pipes), support **production technologies** (electrolysers, storage) and **uses** (fuel cells, intensive industries, heavy-duty vehicles, retrofitting) and stimulate **demand**, with public authorities investing in public transport powered by H₂
- H₂ cooperation is also implemented within Interreg projects (AMETHyST + H₂MA ALPINE SPACE, H₂Ready ITA-SLO ...) laying the foundations for **territorial H₂ ecosystems** and exploring the possibilities for production, storage, distribution and complementary uses between industries and mobility at local level

Hydrogen policy in the Alps

Hydrogen development is gaining momentum in the Alpine region. The EU strategy for the Alpine region (EUSALP) is driving the development of the hydrogen economy at the macro-regional level by fostering collaboration and cooperation between key stakeholders. A EUSALP H₂ Focus Group has been established by 10 Alpine regions. It has three objectives:

1. Foster investments in hydrogen infrastructure, working with the Alpine hydrogen value chain and innovative companies producing fuel cells, electrolysis, hydrogen refuelling stations and new or retrofitted hydrogen vehicles.
2. Develop new hydrogen projects, specifically in mountain and urban areas, leveraging EU funding programmes.
3. Connect with other EU hydrogen initiatives, such as Hydrogen Europe, the Clean Hydrogen partnership, and other macro-regional strategies, to gain visibility and build networks.



EUSALP EU STRATEGY FOR THE ALPINE REGION

www.alpine-region.eu



Regional policies to support the hydrogen economy

Many Alpine regions are taking a leading role in the creation of hydrogen economies in their territories.

This support takes a number of forms:

1. Developing a regional strategy (e.g. Hydrogen strategy Région Sud - Provence-Alpes Côte d'Azur)
2. Boosting R&I and industrial capacity
3. Supporting infrastructure development (e.g. Hydrogen "made in Bolzano")
4. Increasing demand (e.g. Industry - Bavarian chemical triangle)
5. Funding and incentives (e.g. Electrolyser funding programme in Germany)
6. Cross-border ecosystems (e.g. The North Adriatic Hydrogen Valley in Croatia, Italy and Slovenia)



Conclusions and recommendations

Alpine Region has highlighted promising policies and associated good practices, a pioneering territory for the development of hydrogen in Europe.

The following indications are derived:

1. **Creating a regional strategy** signals a region's commitment to hydrogen and provides certainty to the hydrogen industry and investors
2. **Public support for hydrogen projects and infrastructure development** is needed for the hydrogen economy to reach a critical mass. With technologies still at a low maturity, public funding is often needed to de-risk projects for private investors
3. **Focus on regional ecosystems or valleys.** Early hydrogen initiatives should be concentrated along future value chains or geographic clusters, where supply connects with demand
4. **Coordination at macro-regional level** makes economic sense and should be pursued in view of developing a macro-regional strategic approach to infrastructure development and rollout
5. **Cooperation with wider European hydrogen initiatives** is advisable to achieve further integration into the future EU hydrogen network
6. **Seek EU funds:** a significant amount of EU funding is available for research and development, demonstration, deployment and capacity building.

To learn more about H₂ in the Alpine Region

EUSALP EU Strategy for the ALPine region (www.alpine-region.eu)

POLICY BRIEF: ALPINE REGIONS AS PIONEERS FOR GREEN HYDROGEN ECOSYSTEMS

July 2025

by James Ling & Katharina Krell, GreenMatters



AMETHyST Project and SkHyline platform (www.skhyline.eu)



[Map](#) [Territories](#) [Projects](#) [Guidelines & Toolbox](#) [Glossary](#) [About](#)

[Submit project](#)



Hydrogen Ecosystems in the Skyline of the Alps

A place to map and discover projects on hydrogen. A platform to help stakeholders develop their own projects with strategic guidelines and tools.

[H₂FAsT Evaluation Tool](#)

[Explore the map](#)



Project numbers

97

H2 Sites

32

Projects

6

Territories

17

Policies



Interreg
Alpine Space



Co-funded by
the European Union

H2MA



Grazie per l'attenzione

Matteo Mazzolini

APE FVG

Agenzia per l'energia del FVG

www.ape.fvg.it

matteo.mazzolini@ape.fvg.it