HI2 Valley – Hydrogen Mobility Applications

More than just the sum of the individual projects

13/11/2026 – Elvira Lutter (WIVA P&G)

Co-funded by the European Union

WIVA P&G

Connecting research with implementation

Austria's competence network for hydrogen and renewable gases

We drive the molecular transition "Made in Austria" through flagship projects across the entire value chain.

20+

pilot and demonstration plants implemented by our members

Our members

ANDRITZ · AVL · BOSCH · energieAG Oberösterreich · ENERGIE INSTITUT an der Johannes Kepler Universität Linz

ENERGIE STEIERMARK · EVN · FH OÖ University of Applied Sciences Upper Austria · fen research · hochschule burgenland Forschung

FGW Fachverband Gas Wärme · HyCentA Hydrogen Center Austria · K1 MET metallurgical competence center · United Skills of KREMSMUELLER · Linde Making our world more productive

LINZ AG · Montanuniversität Leoben · OMV · rag Austria AG · SALZBURG AG

TÜV AUSTRIA · TÜV SÜD Landesgesellschaft Österreich · voestalpine ONE STEP AHEAD · Verbund · Wiener Stadtwerke

The HI2 Valley at a Glance

Building Europe's Hydrogen Future in Carinthia · Styria · Upper Austria

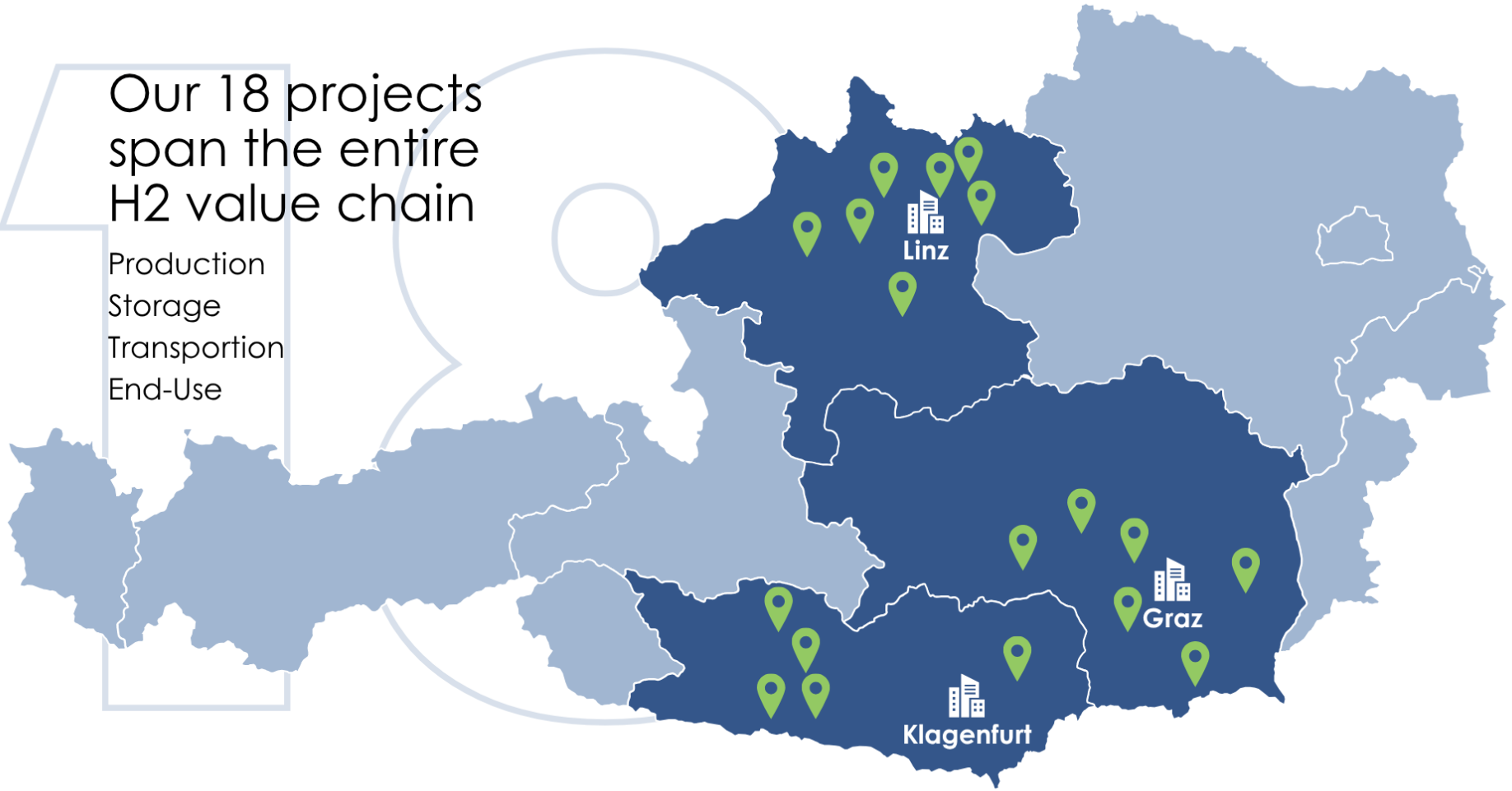
€500+ Mio Total Project Volume*	**€20 Mio** *of which are granted by the EU	**45** Partners	**2,000** Jobs
6 Year Timeframe	**100** MW new electrolyzer	**10,000** tonnes/year planned H2 production	**200,000** CO2-equivalent saved by 2030

The HI2 Valley on the Map

Anchored in Austria's industrial heartlands

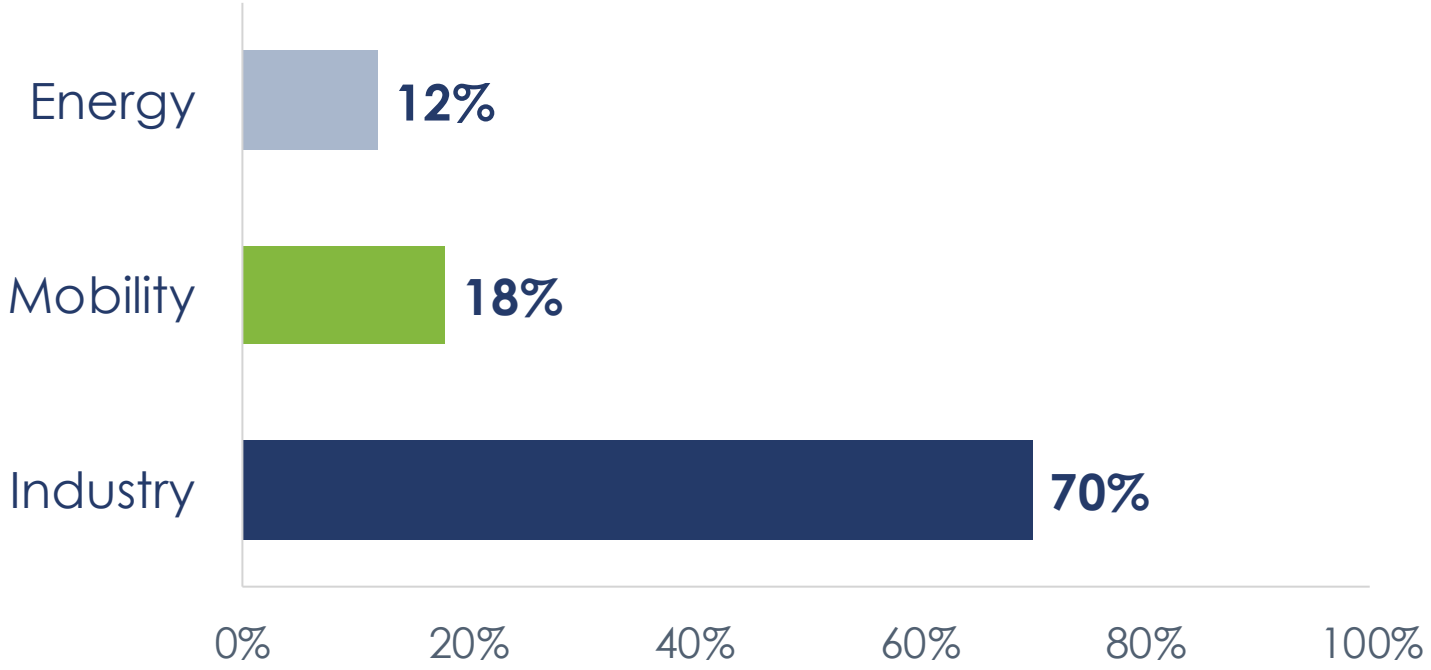
Our 18 projects span the entire H2 value chain

Production
Storage
Transportion
End-Use



Mobility in the HI2 Valley

Part of a broader regional hydrogen market



18%

of planned end use relates to mobility

Combining industrial & mobility demand can support regional hydrogen market development

DeCarB: Decarbonising Carinthian Bus Transport

Public transport powered by locally produced hydrogen



© ÖBB/Sautner

35

hydrogen buses

Postbus fleet in
the Villach region

100-kW fuel cell paired with
a 117-kWh buffer battery

400 km

Range, up to

40 kg

Hydrogen per fill, around

10–15 min

Refuelling time, around

Local hydrogen production for the bus fleet

Arnoldstein: emission-free hydrogen production from May 2026



Photo: Markus Richter

Up to 3 MW

Total plant capacity

≈1 MW

Dedicated to the hydrogen bus fleet

≈€16m

Investment in the plant
and associated infrastructure

Hydrogen delivery by truck to the Postbus depot in Villach

Further mobility applications in HI2

Beyond Villach: opportunities in road transport and inland navigation

Project / region	Mobility application	Published stage
PerH2Astra / Carinthia	Hydrogen for woodchip trucks and Bacher Touristik buses	Planned
CSH2H Donawitz / Styria	Industry-linked refuelling, including logistics trucks	Planned
RETROH2 / Upper Austria	Hydrogen conversion of a harbour pusher vessel	Pre-study

Projects show different levels of maturity. Planned applications do not imply operating fleets.

The Need: An Austrian H_2 Mobility Valley

Building on HI2 & other experiences to connect infrastructure and fleet deployment

AFIR sets the framework

By end 2030

Public H_2 stations on TEN-T corridor roads:
≤200 km apart, ≥1 t/day, 700-bar dispenser

At least one public H_2 station
in every urban node

An Austrian rollout building on HI2 & Co

DeCarB demonstrates hydrogen mobility in practice.

Coordinate stations, hydrogen supply and fleets. Test coaches, trucks and special-purpose vehicles for long-distance, heavy-duty and 24/7 operations.

Fast refuelling can support driver changes without vehicle swaps.

Fleet demand is key to station utilisation and economic viability

Details information

hi2valley.com

HI2 Valley

Thank you

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Clean Hydrogen Partnership

Co-funded by the European Union