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Clean Hydrogen Partnership

AdvancedH2Valley

Showcasing Advanced Hydrogen Valley in Western France

Project

The AdvancedH2Valley project is built on successful first achievements of H2Ouest3 and VhyGO (Vallée Hydrogène Grand Ouest4), two hydrogen ecosystems initiated by LHYFE, the first renewable pure player at global level, in 2019.

Objectives

The overall objective of AdvancedH2Valley is to strengthen and accelerate the development of complementary renewable hydrogen projects, promoted by companies and organisations previously involved in pilot projects at local level and willing to scale-up their initiatives and better integrate them on a complete H2 value chain. AdvancedH2Valley will pursue this objective in the framework of an interregional hydrogen valley involving regional and local authorities, companies, local energy
providers and universities.

Hydrogen Valley

The term "Hydrogen Valley" refers to a defined geographic area where at least 500 t/y of hydrogen are produced, stored, transported and used in at least two different applications (i.e. mobility, energy production, industrial applications) to create a hydrogen ecosystem that could grow and be replicated on the mid-to-long term and build synergies with other EU Valleys.

Hydrogen Valleys constitute an optimal framework to create synergies between interdependent regional private and public actors, to demonstrate ambitious business cases associated to the different uses of hydrogen, to contribute to the wider acceptance of hydrogen technologies and to the development of new skills for the growing hydrogen industry.

Impacts

Global decarbonizing industry and mobility

Economic: systematic consideration of hydrogen production and use in energy policies. Manufacturers of electrolysers will accelerate their production capacity to meet market needs with sales price reductions benefiting their customers.

Societal: reduction of greenhouse gases emissions in both energy production and hydrogen applications.

Political: acceleration towards energy transition.

Sustainable and innovative hydrogen economy

Increased ecosystems with 20 neighbouring Regions; growing renewable hydrogen demand and use reduction of costs to facilitate access to market.

Replication and awareness raising on renewable hydrogen

45 other regions acting as replication sites. Improved public perception of hydrogen ecosystems. Awareness raised of 500k people and skills increase of 1,3k students on renewable hydrogen.

Team

Project details

PROJECT NUMBER: 101137808
PROJECT TITLE: Showcasing Advanced Hydrogen Valley in Western France
PROJECT ACRONYM: AdvancedH2Valley
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DURATION: 38 months
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