

Topics in the call 2023

Hydrogen Valleys

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Hydrogen Valleys - Overview

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Main Focus

- Demonstrate large and small-scale hydrogen valleys that can be sustained and grow with time and replicated elsewhere
- Hydrogen as an enabler for sector coupling and integration of renewable energy
- Covers the complete value chain of hydrogen
- Contribute to EU competitiveness by supporting a European value chain



What is new

- Increased focus on innovation at system level
- Topics less prescriptive on the volumes of hydrogen allocated to each sector and application

Hydrogen Valleys - Overview

| Topic | Type of Action | Ind. Budget (M€) |
|--|--|------------------|
| HORIZON-JTI-CLEANH2-2023-06-01: Hydrogen Valleys (large-scale) | IA  | 1 x 20 |
| HORIZON-JTI-CLEANH2-2023-06-02: Hydrogen Valleys (small-scale) | IA  | 2 x 9 |

Evidences of commitment: to be submitted in the system as an annex to the proposal

Hydrogen Valleys- Topics

HORIZON-JTI-CLEANH2-2023-06-01: Hydrogen Valleys (large-scale)



Develop and demonstrate a large-scale Hydrogen Valley with innovative approaches at system level



- Production of $\geq 4,000$ tonnes of renewable H₂ per year using new hydrogen production capacity (GOs)
- ≥ 2 hydrogen applications from ≥ 2 sectors (energy, industry, transport)
- Costs of renewable energy plants (e.g. PV or wind plant) or related costs for operation of the Hydrogen Valley (e.g. electricity for electrolyser) are not eligible for funding

HORIZON-JTI-CLEANH2-2023-06-02: Hydrogen Valleys (small)



Develop and demonstrate a large-scale Hydrogen Valley with innovative approaches at system level



- Production of ≥ 500 tonnes of renewable H₂ per year using new hydrogen production capacity (GOs)
- Supply more than one end sector or application (mobility, industry energy)
- Costs of renewable energy plants (e.g. PV or wind plant) or related costs for operation of the Hydrogen Valley (e.g. electricity for electrolyser) are not eligible for funding

Hydrogen Valleys- Topics

Common elements applicable to Hydrogen Valley Topics

- Present the **Hydrogen Valley** beyond the investments/actions to be **supported directly** by the topic
- Contain clear **calendar with key phases of the implementation** of the action, ≥ 2 years of operations
- Demonstrate the **replicability and scalability** of the concept -> facilitate deployments of Hydrogen Valleys in other locations in Europe
- Develop a **long-term vision** on how the Hydrogen Valley developed is expected to grow
- Demonstrate **collaboration & synergies with other Hydrogen Valleys** (e.g supported by the JU)
- Provide a **funding plan** to ensure implementation of the project in synergies with other sources of funding + a **commitment from partners to provide own funding** (when relevant)
- **Evidence of the commitment** and role of public authorities (Member States, Regions and Cities) and of any other necessary stakeholders to implement the Hydrogen Valley
- **Professional communication activities** to reach to local citizens and increase public engagement of hydrogen ecosystems

Questions?
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