

## Call for proposals for cooperation projects on green hydrogen with EUREKA countries

### Pitch of project ideas

#### Part 2: Technical / Content

Please send part 1 (company information, separate document) and part 2 to:  
eureka-green-hydrogen(at)dlr.de (until 30<sup>th</sup> September 2021)

Country of your company/institution	
Potential target country/countries (if known)	<input type="checkbox"/> Belgium (Flanders) <input type="checkbox"/> Canada <input type="checkbox"/> Finland <input checked="" type="checkbox"/> Germany <input type="checkbox"/> Ireland <input type="checkbox"/> The Netherlands <input type="checkbox"/> Portugal <input type="checkbox"/> Spain <input checked="" type="checkbox"/> Open
Type of your company/institution	<input checked="" type="checkbox"/> SME <input type="checkbox"/> Large enterprise <input type="checkbox"/> Mid cap <input type="checkbox"/> Research and Technology Institute <input type="checkbox"/> University <input type="checkbox"/> Other:
Type of partner sought	<input checked="" type="checkbox"/> SME <input checked="" type="checkbox"/> Large enterprise <input checked="" type="checkbox"/> Mid cap <input checked="" type="checkbox"/> Research and Technology Institute <input checked="" type="checkbox"/> University <input type="checkbox"/> Other:
Which competences or knowledge should the partner bring in?	Technology/Pilot Project at any part of H <sub>2</sub> value chain, directed to housing, SME sectors.
What is his role or what are his tasks in the envisaged project?	Technology development/proof of concept on Pilot Projects. Special interest in Power to Power and Power to mobility applications.
Does a consortium exist already?	No

<p><b>Technical Area Keywords of your project idea</b> (multiple selection possible)</p> <p><b>N.B.:</b> For entities from Germany, please consult <a href="#">Call for proposals for cooperation projects on green hydrogen with EUREKA countries - BMBF</a> for details.</p> <p> <input type="checkbox"/> Material <input type="checkbox"/> Infrastructure <input type="checkbox"/> Sensors <input type="checkbox"/> Logistics <input type="checkbox"/> Monitoring, control <input type="checkbox"/> Efficiency  <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Integration <input type="checkbox"/> AI <input type="checkbox"/> Digital control <input type="checkbox"/> Grid <input type="checkbox"/> Interface <input type="checkbox"/> Storage  <input type="checkbox"/> Transport routes, analysis <input type="checkbox"/> Certification <input type="checkbox"/> Economic aspects <input type="checkbox"/> Regulatory frameworks  <input type="checkbox"/> Market models <input type="checkbox"/> Acceptance <input checked="" type="checkbox"/> Value chain <input checked="" type="checkbox"/> Processes <input checked="" type="checkbox"/> Manufacturing <input checked="" type="checkbox"/> Usage  <input checked="" type="checkbox"/> Design <input type="checkbox"/> Other:         </p> <p><b>Non-German entities</b> (multiple selection possible)</p> <p> <input checked="" type="checkbox"/> H<sub>2</sub> production/generation <input checked="" type="checkbox"/> Batteries and fuel cells <input checked="" type="checkbox"/> Storage  <input checked="" type="checkbox"/> Other (please specify): Mobility         </p>
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<p><b>The Pitch: What do you want to do?</b> (1200 characters max.) Please briefly describe:</p> <ul style="list-style-type: none"> <li>• the objectives of the proposal and how they will be achieved,</li> <li>• the product and degree of technological innovation/novelty/market etc. need,</li> <li>• market potential (e.g. IPRs etc.)</li> </ul> <p>At H2Vector we aim to supply efficient and affordable clean tech for energy applications.</p> <p>We develop products that can be integrated around the H<sub>2</sub> chain value. Our proposal, the <b>Vector Series</b> is a green Hydrogen Energy Management System “HEMS” that works around the whole hydrogen cycle. The application is a <i>Power to Power</i> system that can be allocated at all renewable sources.</p>
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Our first prototype, the **Vector 10**, produces green hydrogen through electrolysis when the system has energy surpluses. The hydrogen is storage outside of the equipment to be use later on stationary and mobile applications.

For stationary applications, the equipment delivers electricity and heat at the facility. For mobile applications, the equipment delivers electricity and hydrogen that can be allocated into electrical applications (battery and/or fuel cell driven).

Our **Vector Series** are developed for housing, businesses and SME users that seek for maximizing the facility renewables potential and that looks for a solution to ensure a safe and sustainable energy source. With our Vectors, we seek to provide an overall solution for end users main necessities: power – heat – mobility.

At H2Vector we are developing R&D projects to tackle hydrogen main issue: storage. We are also developing FCV and mobile enabler technologies that can be installed in houses and SME's.

Market size around the globe in 2022: 150 M USD / 2023: 300 M USD.