

Pioneering the future: EU funds the HYDRA project to explore hydrogen-related climate impacts, risks, and benefits

Assessing the Impact of Hydrogen Adoption

November 1st, 2023 - Hydrogen has attracted increased attention, especially in the global context of energy security challenges and in the framework of the European Green Deal target of net-zero carbon emissions by 2050. The HYDRA project, which stands for "**HYDrogen economy benefits and Risks: tools development and policies implementation to mitigate possible climAte impacts**", was launched on 1st November 2023 and will assess the potential impacts of hydrogen adoption on a large scale. The project, which will last 4 years, has received a contribution of over 4 million euros from the **European Union** under the **Horizon Europe** framework of **Climate sciences and responses for the transformation towards climate neutrality**. HYDRA is coordinated by Isella Vicini, CEO of the Belgian company beWarrant – Tinexta Group, and accounts for seven international consortium partners from Belgium, Greece, Italy, Spain, and the UK.

The project address a number of core focus areas: hydrogen as an energy carrier, the safety considerations surrounding its production and utilization, and the environmental and climatic consequences of this energy transition. HYDRA aims to analyse possible climate impacts associated with the **large-scale penetration of hydrogen-based technologies** into the market and provide insights into policies and guidelines for sustainable development of the hydrogen economy.

HYDRA's comprehensive approach will involve developing energy, socio-economic, and emission scenarios that account for environmental effects (e.g., land use and water consumption), and assessing the **climatic impacts of a hydrogen economy** accounting for potentially higher hydrogen emissions and their effect on atmospheric composition, the ozone layer, and radiative forcing.

More info: www.hydraproject.eu

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