

World-Class Engineering

Project Idea / Expertise

EPC, H2 production, carbon capture, e-fuels production

Grid balancing by energy storage through combination of batteries producing e-fuels using H2 from electrolysis

Organization name, town and country

Técnicas Reunidas, **Madrid, Spain**

Addressed topic(s)/area(s)

2026-CID-1 & 2026-CID-2
Low carbon H2, Carbon capture, Circular economy, Process Electrification, Nuclear, Data center power supply



Técnicas Reunidas



- Técnicas Reunidas, S.A. (BME: TRE) is a Spanish multinational engineering and construction company founded in 1960 and headquartered in Madrid. It specializes in comprehensive construction, engineering, and procurement services, particularly within the global oil and gas industry, managing large-scale EPC turnkey contracts. Its work spans refining, petrochemicals, oil and gas field development, power generation, water, and industrial facilities, with a special focus on energy transition. The firm operates across dozens of countries worldwide with more than 13.000 employees and remains a recognized leader in the design and construction of energy infrastructure in Spain and international.

EU Projects

Plastics2Olefins — A Horizon Europe project to recycle plastic waste into high-value materials via **pyrolysis**, with 13 partners across 7 countries running 2022–2027; total budget €33.26 million, of which the EU contributes €18.08 million. Partners include Repsol, Técnicas Reunidas, ETIA, VTT, Lafarge Holcim, PreZero, Ciemat and others.

ECOTRON — A Horizon Europe project on flexible, sustainable printed electronics ("How to Minimize the Environmental Footprint of Printed Electronics"), led by the Dutch research center TNO and involving Técnicas Reunidas alongside Janssen Pharmaceuticals, Signify, ITENE, VTT, CEA and the Polytechnic University of Milan.



Expertise offer / Project Idea



- Technology scale up & demonstration
- Technology integration
- Efficiency and Decarbonization
- Testing & Technology validation
- Process simulation
- Demo Center facilities in Spain
- Materials and Catalysts labs in Spain
- Dedicated R&D team

Project Idea: Grid balancing by energy storage through combination of batteries and producing e-fuels using H₂ from electrolysis (also with fuel cell mode capability to produce electricity) and CO₂ captured. Possibility to integrate biogas.



Competences / type of partners sought



- Low carbon H₂
- Syngas purification
- H₂ use and modular units
- Carbon capture
- Circular economy
- Electrification
- Nuclear heat transfer equipment
- Data center power supply



Contact details



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