



Development of advanced systems for the generation, distribution and use of hydrogen carriers (methanol and ammonia) – KATA

PROJECT DESCRIPTION – ZE-2025/00042

Within the framework of the **KATA** project, several entities from the energy and industrial sectors are collaborating in the development of advanced systems for the generation, distribution and use of hydrogen carriers, specifically methanol and ammonia, as key energy vectors for the transition towards sustainable energy models.

The project's main objective is to research new technological solutions that facilitate the production, storage, transport and efficient use of hydrogen, contributing to the decarbonisation of strategic industrial sectors and to the development of new energy value chains.

The activities carried out include the design and validation of innovative technologies aimed at optimising the use of these carriers, improving the efficiency of associated processes and ensuring their technical and economic viability in real industrial environments. This approach makes it possible to move towards more flexible, safe and sustainable energy systems.

The project also includes a comprehensive evaluation of the systems developed, including techno-economic analyses and testing under representative operating conditions, in order to demonstrate their applicability at industrial scale and their impact on emissions reduction.

The project consortium is made up of leading companies in their respective fields, working in a coordinated manner on the development of innovative solutions and combining capabilities in engineering, energy and industrial processes.

In this context, the KATA project positions itself as a strategic initiative for the advancement of technologies based on hydrogen and its derivatives, contributing to the energy transition and to the development of a more sustainable and competitive industry.

CONSORTIUM

Participants:

- Lead partner: IBERDROLA CLIENTES, S.A.U. (IBERDROLA)
- Partner 2: CINTRANAVAL-DEFECAR, S.L. (CINTRANAVAL)
- Partner 3: COMERCIAL DE APLICACIONES ELECTRÓNICAS, S.L. (FIDEGAS)
- Partner 4: GLOBAL FACTOR GREEN MARKETS, S.A.U. (GLOBAL FACTOR)
- Partner 5: HYDROGEN ONSITE, S.L. (H2SITE)
- Partner 6: SARMELT ENGINEERING, S.L. (SARMELT)
- Partner 7: SKANDIAVERKEN, S.L.U. (SKV)
- Partner 8: TAMOIN, S.L.U. (TAMOIN)
- Partner 9: TRATAMIENTOS TÉRMICOS TTT, S.A. (TTT)
- Partner 10: TUBACEX TUBOS INOXIDABLES, S.A.U. (TUBACEX)

Basque Network of Science, Technology and Innovation (RVCTI) agents:

- TUBACEX INNOVACIÓN, S.L.
- FUNDACION TECNALIA RESEARCH & INNOVATION
- UNIVERSIDAD DEL PAÍS VASCO – EHU
- CLÚSTER ENERGÍA

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- **Total TTI budget:** €583,605.78
- **Duration:** 2025–2027

