

DESGAS

Hybrid high-temperature heating systems for the decarbonization of the iron and steel and cement industries.

PROJECT DESCRIPTION

The DESGAS project aims to develop innovative technological solutions for the capture and recovery of greenhouse gases (GHGs), especially CO₂, emitted from high-temperature industrial processes. The project will focus on designing advanced capture systems, developing new formulations of adsorbent materials, and experimentally validating prototypes to reduce the carbon footprint in key industrial sectors.

The project's approach includes both the thermodynamic and kinetic analysis of GHG capture and the development of technologies for integration into existing processes. Additionally, the economic and environmental feasibility of the proposed solutions will be assessed, aligning with industry sustainability and decarbonization goals.

CONSORTIUM

Coordinator:

- TECNALIA

Partners:

- UPV/EHU – Escuela de Ingeniería de Bilbao
- MONDRAGON GOI ESKOLA POLITEKNIKO
- SIDENOR INVESTIGACIÓN Y DESARROLLO S.A.
- TUBACEX INNOVACIÓN S.L.
- CLÚSTER VASCO DE FUNDICIÓN Y FORJA