



Demonstrating sustainable value creation from industrial CO<sub>2</sub> by its thermophilic microbial conversion into acetone

## THE PROJECT

The PYROCO<sub>2</sub> project, funded in the frame of Horizon 2020 programme (Topic LC-GD-3-1-2020 - Closing the industrial carbon cycle to combat climate change - Industrial feasibility of catalytic routes for sustainable alternatives to fossil resources), will demonstrate the scalability and economic viability of carbon capture and utilization (CCU) to make climate-positive acetone out of industrial CO<sub>2</sub> and renewable electricity derived hydrogen.

  
**€ 43<sub>mIn</sub>**  
BUDGET

  
**60<sub>months</sub>**  
DURATION

  
**19**  
PARTNERS

## LATEST PROGRESS BY SEPTEMBER 2024

The PYROCO<sub>2</sub> project has made significant strides towards its objectives. Pilot-scale process installations for upscaling purposes has been successfully finalized and commissioned in the Stavanger area, marking a key milestone in the project's development. In parallel, tenders for demonstrator-scale equipment for the main project demonstrator have been published, aligning with the site preparations at Herøya Industry Park.

In addition, significant progress has been made in developing efficient catalytic modules (including two pilot-scale installations) for diversifying the product spectrum based on CO<sub>2</sub>-derived acetone. The project has recently been granted a six-month extension, allowing for completion and comprehensive utilisation of the demonstration facility. Throughout 2024, the PYROCO<sub>2</sub> project has been presented at numerous events (14 from January 2024), including the project's first exploitation workshop, enhancing its visibility and stakeholder engagement across Europe.




## CONTACT US

PROJECT COORDINATOR

 Dr. Alexander Wentzel  
SINTEF Industry, Department of  
Biotechnology and Nanomedicine

 [info@pyroco2.eu](mailto:info@pyroco2.eu)

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