

COSMHYC XL

Large Scale hydrogen refuelling of fuel cell electric vehicles

COSMHYC XL INNOVATIVE H2 COMPRESSION

Key Facts



Funding Agency
EU FCH-2-JU



Project Call
FCH-01-7-2018
Improvement of
innovative compression
concepts for large scale
transport applications



Duration
01/2019 - 12/2021



Coordinator
European Institute for
Energy Research (EIFER)



Partners

- Nel Hydrogen
- MaHyTec Sarl
- Steinbeis 2i GmbH (S2i)
- Ludwig-Bölkow-Systemtechnik GmbH (LBST)

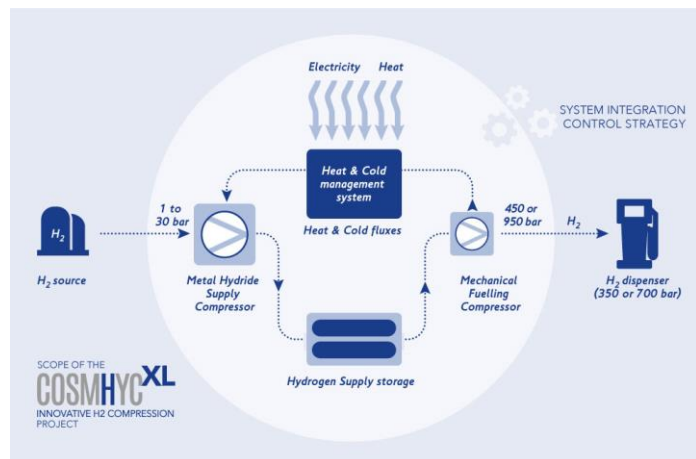


Website
<https://cosmhyx.eu/>

Project Objectives

COSMHYC XL aims at developing an innovative compression concept dedicated to large scale hydrogen refuelling of fuel cell electric vehicles.

Thereby COSMHYC XL will contribute to reducing the production costs of hydrogen and making it a competitive fuel for large-scale mobility.



Caption: COSMHYC XL website

EIFER's Contribution

- EIFER coordinates the project.
- EIFER is leading the development of the innovative compression concept.
- EIFER supervises the long-term test phase of the compressor system under real-world conditions.

Main Project Outcomes

COSMHYC XL will increase the energy efficiency of hydrogen compression by more than 30% to reduce costs of hydrogen production and the hydrogen refueling stations.

COSMHYC XL develops a modular and flexible concept, providing a solution adaptable for nearly all large-scale transport applications and allowing for a subsequent roll-out.

This project has received funding from the European Commission's Fuel Cells and Hydrogen 2 Joint Undertaking (JU) under grant agreement No 826182.



FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING

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