COSMHYC XL

Large Scale hydrogen refuelling of fuel cell electric vehicles

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.

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.

Contact

David Colomar
+49 (0) 721 6105 1719
david.colomar@eifer.org

EIFER - Europäisches Institut für Energieforschung EDF-KIT EWIV
Emmy-Noether-Straße 11
76131 Karlsruhe, Germany
www.eifer.org

November 2020