SUSTAINABLE DEVELOPMENT GOALS ADDRESSED































FUNDING ENTITIES

SH2E has an overall budget of 2.142.778,75€, with an EU contribution of 1.997.616,25€. The project starts in January 2021 and concludes in June 2024.





This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under Grant Agreement No 101007163. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation program, Hydrogen Europe and Hydrogen Europe Research. The contents of this document are provided "AS IS". It reflects only the authors' view and the JU is not responsible for any use that may be made of the information it contains.

DISCOVER MORE









Guidelines for Life Cycle Sustainability Assessment and Prospective Benchmarking



ENVIRONMENTAL DIMENSION



ECONOMIC DIMENSION



SOCIAL DIMENSION

The project

SH2E will develop and demonstrate specific guidelines for the environmental (LCA), economic (LCC) and social (SLCA) life cycle assessment and benchmarking of FCH systems, while addressing their consistent integration into robust sustainability (LCSA) guidelines.

1 STRAND 1 Environmental reformulation

Development of FCH-LCA guidelines: implementation of material criticality and environmental life cycle assessment.

2 STRAND 2
Harmonised extension

Development of FCH-LCC guidelines: life cycle costing Development of FCH-SLCA guidelines: social life cycle assessment

3 Harmonised integration and demonstration

Development of FCH-LCSA guidelines: life cycle sustainability assessment and demonstration and validation.

The goal of **SH2E** is to provide a harmonised (i.e., methodologically consistent) multi-dimensional framework for the **LCSA** and prospective benchmarking of **FCH** systems.

- OBJECTIVE 1
 - Reformulation of FCH-specific guidelines for environmental Life Cycle Assessment.
- OBJECTIVE 2
 Implementation of material criticality indicator in the environmental framework.
- OBJECTIVE 3

 Extension of the FCH-specific Life Cycle Assessment framework to the economic and social dimensions.
 - OBJECTIVE 4

 Joint formulation of the FCH-specific "Life Cycle Sustainability Assessment and Benchmarking" guidelines.
 - OBJECTIVE 5
 Testing and validation of the FCH-LCSA guidelines.