

SWITCH

Smart Ways for In-situ Totally Integrated and Continuous Multisource Generation of Hydrogen

D8.8: Annual Data Reporting 2022 WP , T 8.2

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Technical References

Project Acronym	SWITCH
Project Title	Smart Ways for In-situ Totally Integrated and Continuous Multisource Generation of Hydrogen
Project Coordinator	Luigi Crema - FBK crema@fbk.eu
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Contributing beneficiary(ies)	All Partners
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¹ PU = Public

PP = Restricted to other programme participants (including the Commission Services).

RE = Restricted to a group specified by the consortium (including the Commission Services).

CO = Confidential, only for members of the consortium (including the Commission Services).

1 Introduction

The SWITCH project aims to develop an in-situ, fully integrated and continuous multisource hydrogen production system, based on solid oxide cell technology. The core of the system is a reversible Solid Oxide Cell (SOC) operating in two modes: Electrolysis Mode (SOE) and Fuel Cell Mode (SOFC). In electrolysis mode, the SWITCH system will use renewable electricity, water and heat to produce green hydrogen, with no emissions. In fuel cell mode, the SWITCH system will use natural gas or bio-methane to produce grey or green hydrogen, electricity and heat when renewable power is not available.



Figure 1 The SWITCH system is designed for integration at hydrogen refuelling stations (HRS)

The data related to this deliverable were reported in the TRUST (Technology Reporting Using Structured Templates²) platform by the SWITCH partners in April – May 2022.

² <https://trust.fch.europa.eu>