



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project QualyGridS

Standardized Qualifying tests of electrolyzers for grid services

The overall objective of the QualyGridS project is the establishing of standardized tests for electrolyzers performing electrical grid services. Alkaline electrolyzers as well as PEM electrolyzers will be considered individually in performance analysis and in an assessment of business cases for these electrolyzers' use. A variety of different grid services will be addressed as well as multiple hydrogen end users. The protocols developed will be applied to alkaline and PEM electrolyzers systems, respectively, using electrolyser sizes from 50 kW up to 300 kW. Additionally, a techno-economic analysis of business cases will be performed covering the grid and market situations in the most relevant regions of Europe. The consortium addressing these tasks includes three electrolyser manufacturers and well as research institutions with plenty of experience. Inclusion of a European standardisation institution will allow for maximum impact of the protocols. An advisory committee including TSOs from several countries and a key player in US electrolysis research will support the project with valuable advice. Experience from previous FCH-JU electrolyser projects and national projects is available to the project.

Project Information

Type of project : Research

Timing : 01/02/2017 > 31/12/2019

Project Budget : 2.811.263 €

Funding

European Union through FCH JU: [Grant agreement 735485 - CORDIS link](#)

Project partners

Coordinator :

[CEA - Commissariat à l'énergie atomique et aux énergies alternatives](#)

Partners :

[DVGW - German Technical and Scientific Association for Gas and Water](#)

[EFCF - European Fuel Cell Forum AG](#)

[Aragon Hydrogen Foundation - Fundación para el Desarrollo de las Nuevas Tecnologías del Hidrógeno en Aragón](#)

[IHT Industrie Haute Technologie](#)

[FACHHOCHSCHULE ZENTRALSCHWEIZ - HOCHSCHULE LUZERN](#)

[ITM POWER \(TRADING\) LIMITED](#)

[NEW NEL HYDROGEN AS](#)

[STICHTING NEDERLANDS NORMALISATIE - INSTITUUT](#)

Sub project(s)

Sub project 1

Country: Germany

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Sub project categories

Research

Project Id: 1074

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