



- ZAE
- City of Arzberg

•2 million €

PARTNER



VOLUME



•4 years

PROJECT
DURATION



- Electrolyzer
- LOHC facility
- Fuel cell

SCOPE



On the test field in Arzberg Framatome is testing within the ZAE project SMART Grid, the **integration of H2 technologies in the grid**. Framatome contributions to this project were a **PEM electrolyzer**, a **high capacity LOHC storage** as well as a **fuel cell**. By performing comprehensive tests Framatome could further develop their competences in particular in the simple and safe storage of H2.

COMPONENTS	DURCHGEFÜHRTE TESTS (AUSZUG)
PEM Electrolyzer (75 kW)	<ul style="list-style-type: none"> ◆ Curtailment of PV profiles ◆ Efficiency tests in part load operation ◆ Combination of short term and long term storage components
LOHC facility	<ul style="list-style-type: none"> ◆ Operating behavior ◆ Cycle stability tests LOHC ◆ Degradation tests LOHC
Fuel cell (5kW)	<ul style="list-style-type: none"> ◆ Virtual prolongation of feed in ◆ Dynamics of the fuel cell ◆ Combination of short term and long term storage components ◆ Field test of technology (TRL 7)



In Arzberg we could test the interplay of approved Framatome components such as, the PEM electrolyzers with new technologies such as LOHC long term storage under real conditions. Thanks to substantial tests on long term storage technology, Framatome could deepen its competences around the H2 subject.



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