

Facts and Figures of the Demo Sites

	Demo site Falkenhagen/Germany	Demo site Solothurn/Switzerland	Demo site Troia/Italy
Representative region with respect to typical generation of renewable energies (RES)	Rural area in the North East of Germany with high wind power production and low overall electricity consumption	Municipal area in the Alps region with considerable RES from photovoltaics (PV) and hydro power	Rural area in the Mediterranean area with high PV capacities, considerable wind power production, low overall electricity consumption
Connection to the electricity grid	Transmission grid	Municipal distribution grid	Regional distribution grid
Connection to the gas grid	Long distance transport grid	Municipal distribution grid	Regional LNG Distribution network via cryogenic trucks
Plant size (in relation to the electrical power input)	1.000 kW	700 kW	200 kW
Methanation technology to be demonstrated	Isothermal catalytic honeycomb/structured wall reactors	Biological methanation	Modular milli-structured catalytic methanation reactors
Carbon dioxide (CO₂) source	Bioethanol plant	Waste water treatment plant	CO ₂ from atmosphere
Heat integration possibilities	Veneer mill	District heating	CO ₂ enrichment
Existing facilities and infrastructure	2.000 kW alkaline electrolyser, hydrogen injection plant	2x175 kW PEM electrolyser, hydrogen injection plant, district heating, combined heat and power plant	1.000 kW alkaline electrolyser
Contact information	Uniper Energy Storage GmbH Person: René Schoof Helge Föcker Phone: +49 201 94614 565 +49 201 94614 552 E-Mail: Rene.Schoof@uniper.energy Helge.Foecker@uniper.energy	Regio Energie Solothurn Person: Andrew Lochbrunner Sandra Hungerbühler Phone: +41 32 626 95 05 +41 32 626 94 50 E-Mail: Andrew.Lochbrunner@re-gioenergie.ch Sandra.Hungerbuehler@re-gioenergie.ch	Engineering - Ingegneria Informatica S.p.A. Person: Diego Amone Phone: +39 091 751 17 34 E-Mail: Arnone@eng.it

The Consortium – 27 partners from 6 European Countries

The image displays a map of Europe with three specific locations highlighted in green boxes, each representing a demo site. Surrounding the map are the logos of 27 consortium partners from six European countries. The partners are:

- Italy:** POLITECNICO DI TORINO
- Netherlands:** HSR HOCHSCHULE FÜR TECHNIK RAPPERSWIL, gwi, rijksuniversiteit groningen, Hanze Hogeschool Groningen University of Applied Sciences, energy valley
- Germany:** ECN, DBI GUT Gas- und Umwelttechnik GmbH, DVGW
- Austria:** ENERGIE INSTITUT an der Johannes Kepler Universität Linz
- France:** EPFL ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
- Switzerland:** Empa
- Spain:** BFP, CLIMEWORKS, ENGINEERING
- Portugal:** liten c22 tech, iren
- UK:** uni per, thyssenkrupp
- Germany (South):** KIT Karlsruhe Institute of Technology
- Italy (South):** POLITECNICO DI TORINO, BFP, CLIMEWORKS, ENGINEERING, liten c22 tech, iren, HYSYTECH, ATMOSTAT ALCCN
- Switzerland (West):** HSR HOCHSCHULE FÜR TECHNIK RAPPERSWIL, SVGW SSGE

The three demo sites are:

- Demo Site Falkenhagen:** Located in the northern part of Germany.
- Demo Site Troia:** Located in the southern part of Italy.
- Demo Site Solothurn:** Located in the western part of Switzerland.

A central green box labeled "Cross-cutting activities" is also present on the map.