PRESS RELEASE

Innovative 28 million € project STORE&GO started to show large scale energy storage by Power-to-Gas is already possible today

Karlsruhe, March 18, 2016 – Our future energy systems will be based on intermittent renewable energy sources. These systems will need large scale energy storage in order to ensure the security of supply. Chemical energy carriers provide the highest energy density and especially gas provides the highest existing storage capacity as well, so it seems obvious to use surplus of renewable energies for the creation of synthetic natural gas (SNG) by Power-to-Gas technologies. While the technical feasibility has been shown in several research projects, the new Horizon 2020 project STORE&GO aims to bring the technology to a level to be integrated in the daily operation of European energy grids.

The project is based on the demonstration of three different Power-to-Gas concepts in Germany (Falkenhagen), Switzerland (Solothurn) and Italy (Troia), each concept involving innovative methanation technologies adapted for the respective demonstration site. The operation will focus on the integration of these Power-to-Gas plants into the power, heat and gas grids for further transport and distribution. This way, renewable methane can be fed into the existing natural gas grid in a climate-neutral way without any restrictions, and can thus be made available for a broad range of customer applications. About 70 million industrial and private customers in Europe are currently supplied by a gas grid 2.2 million kilometres in length. The plant operation will be complemented by extensive accompanying research activities in technological, economic and legal areas. These activities will help to reduce barriers for the market entry and to accelerate the market uptake of Power-to-Gas storage technologies.

The project spells out as “Innovative Large Scale Energy **STOR**ag**E** Technologies ***&*** Power-to-**G**as Concepts after **O**ptimisation” and was started with the kick-off meeting at Karlsruhe Institute of Technology (KIT), Karlsruhe/Germany. The four-year project is funded with 18 million Euros by the European Commission under the Horizon 2020 framework programme on Secure, Clean and Efficient Energy under the topic “Large scale energy storage”. The total budget of the innovation project, involving 27 partners from six European countries (complete list below), amounts to 28 million Euro. The consortium follows a multidisciplinary approach with academic and industrial partners in the field of energy supply, plant engineering and construction, economics and social sciences. The DVGW coordinates the inter-

national project through its research center at the Engler-Bunte-Institute of the Karlsruhe Institute of Technology (KIT).

Website: www.storeandgo.info

Project Partner:
DVGW German Technical and Scientific Association for Gas and Water
Uniper Energy Storage GmbH
Regio Energie Solothurn
Engineering Ingegneria Informatica SPA
Hochschule für Technik Rapperswil
Politecnico di Torino
Energieinstitut an der Johannes Kepler Universität Linz
University of Groningen
ATMOSTAT
CEA French Alternative Energies and Atomic Energy Commission
CLIMEWORKS AG
DBI Gas-und Umwelttechnik GmbH
Studio Tecnico BFP
ECN Energy Research Centre of the Netherlands
Energy Delta Institute
Electrochaea GmbH
EMPA, Swiss Federal Laboratories for Materials Science and Technology
Ecole Polytechnique Fédérale de Lausanne EPFL
Energy Valley
Gas- und Wärme-Institut Essen e. V.
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