European Power-to-Gas Platform

HISTORY

In 2012 DNV GL took the initiative to establish the North Sea Power-to-Gas Platform aiming at bringing together stakeholders from the North Sea area involved in the Power-to-Gas value chain to support the development of the Power-to-Gas concept. In 2015, the North Sea Power-to-Gas Platform opened up to European stakeholders and changed its name into the European Power-to-Gas Platform (further indicated in this Profile as “Platform”).

The key objectives of the Platform are to

- Exchange experiences and knowledge between the members,
- Support the development of additional knowledge on Power-to-Gas on conceptual and techno-economic level,
- Develop and facilitate collaborations in Power-to-Gas projects, and
- Disseminate know-how on Power-to-Gas.

The Platform is impartial and has no legal status. Presently, the Platform consists 15 members from the gas and electricity sector as well as providers of key technology in the Power-to-Gas value chain.

WHY IS POWER-TO-GAS INTERESTING?

Power-to-Gas has the potential to be an important enabler of the transition towards a more sustainable energy supply. It facilitates the production of a sustainable chemical feedstock or fuel like hydrogen, methane, DME, methanol or ammonia from renewable power. It can help to match the electricity demand and generation from intermittent renewable sources on the short and longer (even seasonal) term. Furthermore, it offers additional energy transmission capacity by using gas networks as an alternative to extensions of the electricity grid.

WHY A PLATFORM?

The Power-to-Gas concept is relatively new and concerns stakeholders active in different parts of the energy value chain. Further to this, it is observed that:

- The current regulatory system does not always fit logically and effectively with the needs of Power-to-Gas facilities.
- There are gaps in knowledge about the conditions under which the Power-to-Gas concept could be viable.
- There are technological challenges on component level (for instance methanation) as well as on (national)
system (integration) level to be solved before the Power-to-Gas technology can be implemented on large scale.

For the further development of the Power-to-Gas concept, a close collaboration of parties being active in the different parts of the Power-to-Gas value chain is of eminent importance. The Platform offers a table at which stakeholders can exchange views, initiate collaborations, jointly carry out projects and support the dissemination of unbiased data on Power-to-Gas.

WHAT IS THE AMBITION OF THE PLATFORM?

The Platform has the ambition to become THE well-recognized and appreciated independent entity concerning information and data on the Power-to-Gas concept and the initiation and facilitation of (trans-border) collaborations between stakeholders in Power-to-Gas related topics.

HOW DOES THE PLATFORM WORK?

The Platform members gather regularly (three times per year) to discuss specific Power-to-Gas related topics, and to share experiences and findings of projects in which the members are involved. Commonly, these meetings are combined with site visits of Power-to-Gas installations. The meetings are organized and chaired by DNV GL who also carries out the day-to-day activities including the administration of the Platform and public relations.

Occasionally, the Platform executes short studies and inventories on specific topics agreed among the members. Currently, a study is being executed about the potential of Power-to-Gas in specific cases as an alternative to electricity grid extensions proposed in the framework of the e-Highway2050 study (www.e-highway2050.eu).

The Platform also maintains a website www.europepowertogas.com with relevant information related to Power-to-Gas such as studies and reports as well as a list of pilot and demonstration plants in Europe.

CONTACT:
Paula Schulze, Platform Coordinator
E-Mail: europeanpowertogas@dnvgl.com
www.europeanpowertogas.com

Impression of a visit of the European Power-to-Gas Platform members to the BIOCAT project (http://biocat-project.com)

For advertising, please contact
Jessica Tchang
Phone: +49 201 82202-45
E-Mail: j.tchang@vulkan-verlag.de