



CertifHy: Developing a European Framework for the generation of guarantees of origin for green hydrogen



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Abstract

Hydrogen is expected to play a key role in the transition towards a low-carbon economy, especially within the transport sector, the energy sector and the (petro)chemical industry sector. However, the production and use of hydrogen only makes sense if the production and transportation is carried out with minimal impact on natural resources, and if greenhouse gas emissions are reduced in comparison to conventional hydrogen or conventional fuels.

The CertifHy project, supported by a wide range of key European industry leaders (gas companies, energy utilities, green hydrogen technology developers and automobile manufacturers, as well as leading industry associations) therefore aims to:

1. Define a widely acceptable definition of green hydrogen;
2. Determine how a robust Guarantee of Origin (GoO) scheme for green hydrogen should be designed and implemented throughout the EU.

It is divided in the following work packages (WPs).

1. Generic market outlook for green hydrogen: overview of future trends, application areas and segmentation for green hydrogen; evidence of existing industrial markets and the potential development of new energy related markets for green hydrogen in the EU (WP1).
2. Definition of “green” hydrogen: common definition of green hydrogen which can be applied to all stakeholders (market players and regulators) in the EU (WP2).
3. Review of existing platforms and interactions between existing GoO and green hydrogen; benchmarking (WP3).
4. Definition of a new framework of guarantees of origin for “green” hydrogen: technical specifications, rules and obligations for the GoO, impact analysis (WP4)
5. Roadmap for the implementation of an EU-wide GoO scheme for green hydrogen: recommendations of the project in practical terms. The roadmap will be presented to the FCH JU and the European Commission as the key outcome of the project and shared with stakeholders before finalisation (WP5 and 6).

Session : Brokerage