

## Summary Minutes Meeting 3

### **Working Group 1 'Standardisation, Certification, Creditability & Tradability' & Working Group 2 'Supply Chain Development and Risk Management'**

07.06.2022, 9 a.m. – 4 p.m.

#### **I. Background and Goal**

- Online workshop on visioning and roadmapping green gaseous hydrogen and ammonia supply chains.
- The workshop's goal was to develop ideal scenarios for both a green ammonia and green hydrogen market in 2030. To achieve this goal, both hurdles and steps to overcome these were determined and classified on a time axis together with participants in a so called 'backcasting process'.
- For compliance reasons, the following statement was logged in at the beginning of the workshop:

*The working groups' primary goal is to provide knowledge and recommendations to the general public and the public sector within the framework of the Foundation's statutory purposes in order to support a rapid market ramp-up of green hydrogen and its derivatives.*

*For compliance reasons the accumulated knowledge will be published on our website and papers will be prepared in order to place the results in a broader context. The results will also be taken into discussions with potential providers of funds regarding the future development of funding instruments like H2Global. Looking at the tender procedure concerning the first 900 Mio. Euros it cannot be excluded that the knowledge gathered in this way and made available to the public will also flow into the design of the tenders. However, this is not the primary goal of the working groups' activities. The workshop's results will thus not influence bidding procedures. Only retroactively the results can be used to benefit future windows developed as part of the bidding procedure.'*

#### **II. Results**

Based on a discussion on schematic representations of green gaseous hydrogen and ammonia supply chains, the participants defined what a successful situation in 2030 for both

supply chains would look like. In a chronological ‘backcasting process’, participants then looked at related hurdles and defined the ‘preconditions’ that have to be fulfilled in order to achieve this situation by 2030.

It became apparent, that putting hurdles in chronological order is difficult, but that instead, many processes will have to be pushed in parallel.

In general, participants agreed that a lot of hurdles can be overcome through clear regulations, certification and the definition of technical standards.

Both the schematic representation of the supply chains and the results of the ‘backcasting process’ will be published as part of our research project on “Green Hydrogen and Power-to-X: Opportunities and Risks of the International Market Ramp-Up for Developing and Emerging Countries in Cooperation with the Private Sector“ funded by the Federal Ministry for Economic Cooperation and Development (BMZ).

### III. Further procedure

- The results of this workshop have to be linked to the results of the risk analysis compiled in the previous workshop (see Summary Minutes of WG2, 26 April 2022).
- Workshop on ‘Visioning and Roadmapping Jet Fuel and Methanol Supply Chains’ in mid-September 2022.



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