ADVANCEPEM Project kick-off meeting

The ADVANCEPEM project officially started on 1st February 2023.

The main objective of the project is to develop a novel polymer electrolyte membrane (PEM) electrolyser which can produce hydrogen at very high pressure (200 bar), thus reducing the energy consumption required for post-compression. The goal is to develop a cost-effective technology allowing to achieve large-scale application of PEM electrolysers. To this end, the ADVACNEPEM project aims at developing a set of breakthrough solutions at materials, stack and system level to increase the operating hydrogen pressure and current density, while keeping a low energy consumption.

The ADVANCEPEM consortium involves six partners and three affiliates from the EU and UK, including an electrolyser manufacturer, a research institution, suppliers of membranes, catalysts and MEAs as well as an end-user for demonstrating the system.

The official kick-off meeting was held on Thursday 23rd of February 2023 in Messina hosted by CNR-ITAE, the Project Coordinator. 23 people attended the event, including the Project Officers who joined remotely.

The meeting started with the introduction of the Project and Financial Officers, followed by an overview of the Clean Hydrogen Joint Undertaking and the relevance of the ADVANCEPEM project. Each of the partners gave a short presentation on their expertise and role within the project, followed by an outline of each work package.

The meeting closed with final remarks on the work plan for the next six months and a short visit to CNR-ITAE laboratories.

ADVANCEPEM Facts & Figures

- Full project name: Advanced High Pressure and Cost-Effective PEM Water Electrolysis Technology
- Project acronym: ADVANCEPEM
- Start date: 1st February 2023
- Duration: 36 months
- Total project budget (funded jointly by the EU and UKRI): € 2.5M
- EU contribution: € 1.6M
- Partners: 6 partners and 3 affiliates from 5 countries across Europe (Italy, France, Denmark, Germany, UK)

ADVANCEPEM Partners at the CNR-ITAE laboratories (Messina, 23/02/2023)