



HYDROGEN



UPCOMING EVENTS

October 2024, Brussels

Mid-term review meeting with Project and Financial Officers and external reviewers.

NEWS & UPDATES

PUBLISHED ARTICLE

MEA DEVELOPMENT

Deliverable 5.1 reports on the progress around the design, optimisation and testing of MEAs. CNR-ITAE is conducting electrochemical testing to evaluate the performance and durability of the MEAs. Meanwhile, IRD is optimising the catalyst ink for membrane coating and scaling up the MEA production process. Additionally, Oort has initiated high-pressure testing of Syensqo's membranes, successfully exceeding the 200 bar target to assess their durability. Oort is also testing their system with commercial MEAs to evaluate the performance of the full stack under high-pressure conditions.

DELIVERABLES & MILESTONES

Submitted Deliverables and (partially) achieved Milestones

D1.2 – Annual Report Year 1 (M15)

D5.1 – MEA engineering (M18)

MS1 – Reinforced Aquivion® membrane for high pressure and high temperature operation (M15)

MS3 – High performance electrocatalysts and efficient recombination catalyst (M15)

MS5 – Engineered MEAs for gas crossover management (M18)

MS6 – High performance large area MEAs (M18)

Upcoming Deliverables & Milestones

D3.2 – Reinforced membrane scaling-up

D4.2 – Report on catalyst scaling-up

D5.5 – MEA performance and stability

MS4 – Catalyst scaling-up and optimizing

PROJECT UPDATES

The ADVANCEPEM project is making significant progress. The Consortium held its 18th-month meeting online on the 9th July where partners discussed the achievements and upcoming goals as the project approaches the end of its first half.

The project remains on track, with all the deliverables for the first reporting period submitted and a clear plan to achieve the upcoming technical milestones. This marks a significant step in the overall project's timeline.

Major technical milestones have been already partially achieved, particularly in the development of catalysts, membranes and MEAs. These advancements are crucial for the success of the high-pressure electrolyser. Testing of the MEAs is underway to determine the optimal combination of materials for the high-pressure stack.

The next major appointment is the mid-term review meeting in Brussels. Here, officers and external reviewers will formally assess the project's progress, providing valuable feedback and guidance for the next phase. This review is a crucial step in ensuring the project continues to meet its objectives and deliver impactful results.

PARTNERS



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