

HORIZON
2020

Anion Exchange Membrane Electrolysis for Renewable Hydrogen Production on a Wide-Scale

Wyniki

Informacje na temat projektu

ANIONE

Identyfikator umowy o grant: 875024

[Strona internetowa projektu](#) 

DOI

[10.3030/875024](https://doi.org/10.3030/875024) 

Projekt został zamknięty

Data podpisania przez KE

9 Grudnia 2019

Data rozpoczęcia

1 Stycznia 2020

Data zakończenia

30 Września 2023

Finansowanie w ramach

SOCIETAL CHALLENGES - Secure, clean and efficient energy

Koszt całkowity

€ 1 999 995,00

Wkład UE

€ 1 999 995,00

Koordynowany przez

CONSIGLIO NAZIONALE DELLE
RICERCHE

 Italy

CORDIS oferuje możliwość skorzystania z odnośników do publicznie dostępnych publikacji i rezultatów projektów realizowanych w ramach programów ramowych HORYZONT.

Odnośniki do rezultatów i publikacji związanych z poszczególnymi projektami 7PR, a także odnośniki do niektórych konkretnych kategorii wyników, takich jak zbiory danych i oprogramowanie, są dynamicznie pobierane z systemu [OpenAIRE](#) .

Documents, reports (12)

[Design of a project visual identity set and provision of project templates \(presentations, minutes, logo etc.\)](#) 

[Annual data reporting \(Year 2\)](#) 

Annual data reporting for the FCH Knowledge Management Tool Year 2
The Annual Data Reporting deliverable will consist of i Quantitative project data in a structured format collected according to one or more specific template to be made available as of AprilMay each year by the FCH 2 JU in a dedicated Platformii A dedicated EUSurvey questionnaire requested by the FCH 2 JU in AprilMay each year PRD to collect complementary key qualitative and quantitative information on projects objectives activities and achievements iii Visual material related to projects activities

[Publishable report on MEA assessment](#) 

[Survey of dissemination activities and final plan for dissemination](#) 

[Data-set on catalytic activity, electrochemical performance and stability of enhanced catalysts](#) 

[Annual data reporting \(Year 1\)](#) 

Annual data reporting for the FCH Knowledge Management Tool Year 1
The Annual Data Reporting deliverable will consist of i Quantitative project data in a structured format collected according to one or more specific template to be made available as of AprilMay each year by the FCH 2 JU in a dedicated Platformii A dedicated EUSurvey questionnaire requested by the FCH 2 JU in AprilMay each year PRD to collect complementary key qualitative and quantitative information on projects objectives activities and achievements iii Visual material related to projects activities

[Harmonised test protocols for assessing AEM electrolysis components, cells and stacks in a wide range of operating temperature and pressure](#) 

[Engineered membrane electrode assemblies for AEM electrolysis operation](#) 

[Supply of 1st generation ionomer dispersions, reinforcements and additives for manufacturing AEM electrolysis membranes](#) 

[Project website and database for dissemination \(stakeholders, interest groups, contact details\)](#)

[Annual data reporting \(Year 3\)](#)

Annual data reporting for the FCH Knowledge Management Tool Year 3
The Annual Data Reporting deliverable will consist of i Quantitative project data in a structured format collected according to one or more specific template to be made available as of AprilMay each year by the FCH 2 JU in a dedicated Platformii A dedicated EUSurvey questionnaire requested by the FCH 2 JU in AprilMay each year PRD to collect complementary key qualitative and quantitative information on projects objectives activities and achievements iii Visual material related to projects activities

[Publishable report on electrocatalysts and recombination catalyst development for AEM electrolysis](#)

D43 Publishable report on electrocatalysts and recombination catalyst development for AEM electrolysis

Publikacje

Conference proceedings (1)

Green hydrogen production by innovative membrane electrolysis technologies

Autorzy: Antonino Salvatore Aricò, Stefania Siracusano, Sabrina Campagna Zignani, Alessandra Carbone

Opublikowane w: Electrolysers, Fuel Cells & H2 Processing, Proceedings of EFCF 2021 Conference,, Numer EFCF-2021_PoC_Proceedings_A-Sessions_ConfVersion_s, 2021, Strona(/y) 123-127

Wydawca: European Fuel Cell Forum AG

Peer reviewed articles (3)

[Aquivion-based Anion Exchange Membranes: Synthesis Optimization and Physio-Chemical Investigation](#)

Autorzy: A. Carbone, I. Gatto, R. Pedicini, S. C. Zignani, C. Oldani, A. Cattaneo, A. S. Aricò

Opublikowane w: Chemical Engineering Journal (2022) 140765., 2022, ISSN 1385-8947

Wydawca: Elsevier BV

DOI: 10.1016/j.cej.2022.140765

[Design Strategies for Alkaline Exchange Membrane–ElectrodeAssemblies: Optimization for Fuel Cells and Electrolyzers](#) 

Autorzy: A. Ashdot, M. Katten, A. Kitayev, E. Tal-Gutelmacher, A. Amel, M. Page

Opublikowane w: Membranes, Numer Membranes 2021, 11, 686. Membranes, 11090686, 2021, ISSN 2077-0375

Wydawca: Molecular Diversity Preservation International

DOI: 10.3390/membranes11090686

[Performance and stability of a critical raw materials-free anion exchange membrane electrolysis cell](#) 

Autorzy: S. C. Zignani, M. L. Faro, A. Carbone, C. Italiano, S. Trocino, G. Monforte, A.S. Aricò

Opublikowane w: Electrochim. Acta 413 (2022) 140078., 2022, ISSN 0013-4686

Wydawca: Pergamon Press Ltd.

DOI: 10.1016/j.electacta.2022.140078

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Permalink: <https://cordis.europa.eu/project/id/875024/results/pl>

European Union, 2025