



## Renewable and flexible fuel power generation technology enabling the multisectorial decarbonization with Zero emissions

NEWSLETTER 2 - August 2024

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### **ALL-IN Zero Celebrates the Second Year of Implementation**

Welcome to the second edition of our annual newsletter! Since October 2023, the interdisciplinary team driving the ALL-IN Zero project has been diligently working to achieve consolidated results and lay the foundation for future successes. The goal of the ALL-IN Zero Newsletter is to keep you informed with the latest updates on the project's progress and provide an overview of ongoing activities. You can view the first newsletter by clicking [here](#).

ALL-IN Zero addresses to develop a multi-fuel system that will feed low, zero or carbon negative fuels like ammonia, natural gas, biogas or alcohols among other easy-handling fuels, into a Compact Membrane Reactor (CMR) producing an intermediate temporary energy vector (i.e., hydrogen). The temporary energy vector will be consumed in situ by Internal Combustion engine (ICE) and Fuel Cell System (FCS) to generate electrical and mechanical power with zero emissions.

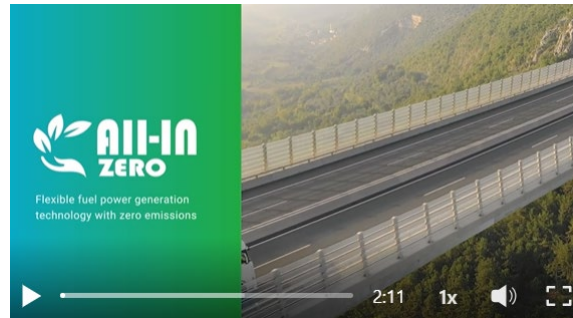
For more information about the ALL-IN Zero project and details on upcoming activities, please visit our website: <https://allinzero.eu/>

**The ALL-IN Zero Team**



### Project Plenary Meeting Month 18

The All-In Zero Plenary Project Meeting by month 18 successfully took place last 4-5th March 2024 at Forschungszentrum Jülich (Germany). High-level presentations of all WPs, fruitful discussions and inspiring ideas with much more to come... Learn more about the meeting [here](#).



### ALL-IN Zero launches the 1st PROJECT VIDEO!

A new video introducing ALL-IN Zero project has been released. This video provides an overview of our goals, the challenges we aim to address, and the positive impact we're striving to achieve across Europe.

Discover more about ALL-IN Zero and our mission by watching the video here: [Link](#)



### ALL-IN ZERO at the Workshop on UPV-CMT Research Projects and Facilities

The workshop took place last April, and our colleagues at UPV-CMT had the opportunity to communicate and disseminate the scope, current status and future direction of the project in front of more than 20 engineering students at the Universitat Politècnica de València (UPV). [More information](#).



### Exciting Update on the ALL-IN Zero Project!

We are happy to share the outstanding progress we have made on our groundbreaking ALL-IN Zero project, aimed at developing and validating an innovative high-risk high-reward powerplant technology for transportation and power generation sectors! Successful achievements on WP3-WP6 have been reported. [Link 1](#) | [Link 2](#) | [Link 3](#) | [Link 4](#)



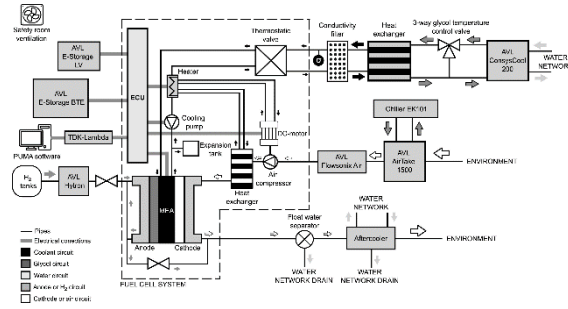
7<sup>th</sup> International Workshop  
**PROSPECTS ON PROTONIC CERAMIC CELLS**  
 June 18–21, 2024 – Dijon, France



**Solid State Ionics 2024**



17<sup>th</sup> International Conference  
 on Inorganic Membranes  
 New Frontiers for Inorganic Membranes  
 July 1 - 5, 2024  
 Oceania Convention Center - Florianópolis - Brazil



### Attendance to conferences

During this period, our partners attended as speakers at several national and international congresses, conferences and workshops to present the ALL-IN Zero project. Check the links to go into detail about the events: [Link 1](#) | [Link 2](#)

### ALL-IN Zero 1st scientific publication

We are delighted to publish the first results we have achieved on our groundbreaking ALL-IN Zero project, aimed at experimental assessing of a heavy-duty fuel cell system in relevant operating conditions. These results have been published in Applied Energy, 376, 124293. [Link](#)

## UPCOMING EVENTS

**THIESEL 2024 Conference on Thermo–and Fluid Dynamics of Clean Propulsion Powerplants**

10th – 13th September 2024, Valencia

**4th General Assembly ALL-IN Zero**

23rd – 24th September 2024, Barcelona

**7th Winter Meeting ITQ (UPV-CSIC)**

December 2024, Valencia



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