

# Embracing fuel cell power in construction and mining

## Emissions



Internal combustion engines in Non-Road Mobile Machinery significantly contribute to global GHG emissions, as well as local noise pollution.

## Objective

An excavator and a shredder powered by a cutting-edge fuel cell powertrain will be developed and demonstrated, aiming to achieve the same performance as the corresponding current NRMM powered by diesel, but offering a zero emissions solution.



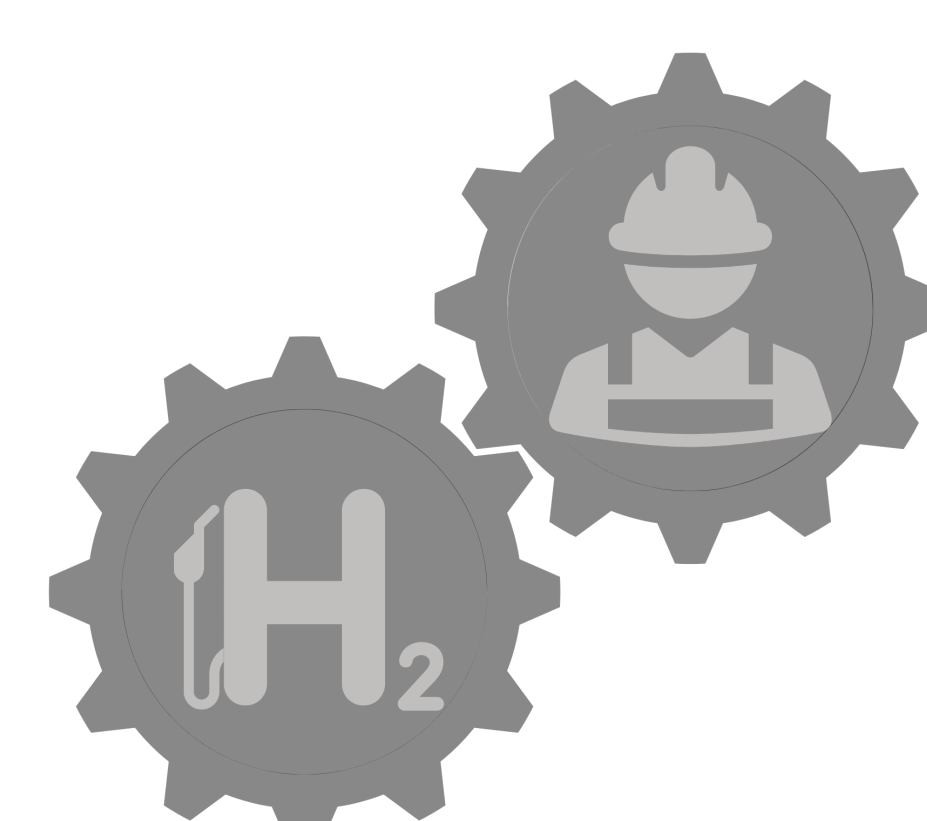
## Challenges



The FC system in the NRMM shall operate under harsh working conditions (vibrations, dust, temperatures, etc.) and shall be modular and scalable to ensure the viability of its roadmap to market.

## Demonstration

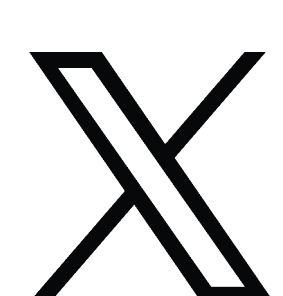
The prototypes will be tested simultaneously under real working conditions over 1000 hours in a quarry site in Arcos de la Frontera (Spain).



## Follow us to keep updated on the project development!



@h2mac



@h2macproject



@h2macproject



@h2macproject

#H2MAC  
#NRMM  
#construction  
#mining  
#fuelcellapplications



The project is supported by the Clean Hydrogen Partnership and its members