

# Case Study



## IZES HRS

Logan Energy deliver Europe's first Hydrogen Refuelling Station using the MC Filling method, making vehicles powered by hydrogen cheaper to run by reducing the capital and operational cost of the refuelling infrastructure.

## PROJECT INFORMATION

Located at the IZES research facility in Saarbrücken, Germany, the solar-powered project is the first of its kind for Logan Energy in mainland Europe and will deliver 700bar (H70) hydrogen fuel for passenger vehicles. Vehicles with 700bar hydrogen storage have an equivalent driving range and refuelling time to fossil fuel cars, capable of travelling up to 400 miles on a single, three-minute fill and creating a comparable zero-carbon driving experience for users.



“Our goal at Logan Energy is to lead the global road to decarbonization, hydrogen is ideally placed to be a significant and, importantly, commercially viable energy solution for the future.”

*Bill Ireland, CEO, Logan Energy*

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## Deliverables

- > 700 bar Passenger Vehicle Hydrogen Refuelling Station
- > Integrated Hydrogen Production
- > Standalone dispenser

## Achievements

- > MC Filling Method
- > T0 hydrogen pre-cooling
- > 500 and 1000 bar compression
- > Integrated AEM and PEM electrolysers



“Our collaboration with Logan Energy will play a vital role in our mission to develop the sustainable energy solutions that support alternative transport infrastructure and will benefit communities across Europe and beyond.” *Dr Bodo Groß, IZES*

