



# 2026

## EUROPEAN HYDROGEN ENERGY CONFERENCE

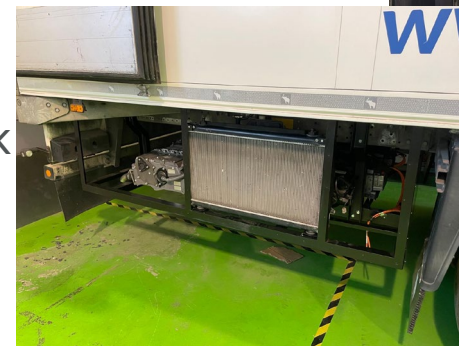
### SEVILLE

11<sup>th</sup> · 13<sup>th</sup> March 2026

## Use of hydrogen in mobile vehicles, rail transport and mobile power generators

### LH<sub>2</sub> cargo trailers. Current projects

- a refrigerated truck or trailer with an independent power plant, its own electric drive per axle and fuel tanks with ~150 kg LH<sub>2</sub>
- 50/50 load distribution between the truck and trailer, reducing emissions by 50% for diesel trucks and 100% for electric and hydrogen trucks.
- Cruising range of up to 3,000 km without refueling.
- Can be used as a stationary headquarters/office/scene/broadcast center with up to 20 days of energy autonomy.
- Using the cold of liquid hydrogen to cool or freeze products in a refrigerated trailer
- Optimizing refueling when using liquid hydrogen in a refrigerated truck and gaseous hydrogen in a truck



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### LH2 shunting locomotives. Current projects

- Elimination of fossil fuels and reduction of CO2 emissions to zero
- Extension of the service life of old locomotives
- Reduction in fuel consumption by 20-25% when converting hydraulic locomotives to hydrogen
- Possibility of increasing power without increasing the locomotive's overall weight by almost twofold
- Optimization of control
- Provision of locomotive equipment by quickly replacing cryogenic fuel tank containers on the platform without losing liquid hydrogen during refueling



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### Coolergizers. Current projects

- Development of distributed, carbon-free energy
- Mobility for ordinary cars and Category B drivers
- Differentiation of consumers by current, voltage, and power
- Possibility of using liquid hydrogen for long-term operation





## Use of Coolgizers. Current projects

- Aircraft charging after landing and before takeoff
- Electric vehicle charging
- Charging of yachts and small vessels moored in port
- Green welding - connecting welding machines for outdoor use, such as welding hydrogen pipelines
- Backup and emergency power supply with the ability to supply hot process water
- Filmmaking - ensuring the operation of film equipment and a camp for film crews
- Support for mass events



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### Marine vessel. Future projects

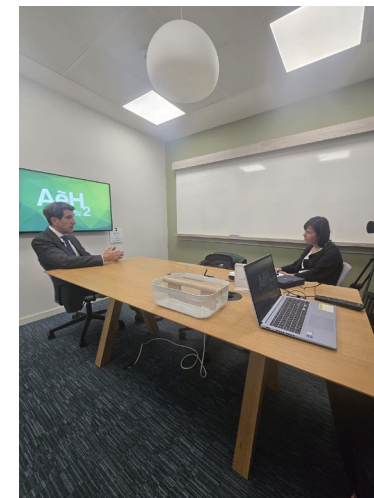
- Converting a hydrographic vessel for the Estonian state navy to hydrogen
- Major challenges due to the small size of the turbine hall and insufficient ventilation, as well as the impossibility of placing a fuel tank container on deck
- The hold space will be used to store liquid hydrogen in a bundle consisting of several geometrically unequal cryogenic vessels and one composite high-pressure vessel for vaporized gas
- Replacing mechanical propulsion with electric propulsion



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### Cine verde. Con hidrógeno sobre el hidrógeno

- Together with the Spanish Hydrogen Association, we produced a green movie about hydrogen projects in Spain, using hydrogen to power the camera from our Coolergizer.
- Our release features just six stories—real projects producing equipment for hydrogen projects or using hydrogen as fuel.
- We reached out to those who responded to the Association's call, recognizing that much remains to be done.
- Two years before the next Biennale, we'll be able to produce several more episodes featuring new projects from our Association members.



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### Kherson Hydrogen Hub in Ukraine. Current non-profit projects

- We've delivered one Coolergizer to Ukraine and plan to deliver three more by the end of summer. Naturally, it's free.
- Ukrainians are suffering from the destruction of their homes and infrastructure. They're being killed, deprived of heat and light. We can somehow help with electricity.
- We want to launch a small hydrogen hub in the Kherson region by August. We need your help, and the help of the Association. To operate, we need a small electrolyzer (20-30 kg per day), a compressor, and bundles with tanks. We also need additional resources for delivery and installation. If you can help, write or call us. Join the hydrogen movement!

