



Experts in High Pressure
Equipment for Hydrogen

Aletheia - Revealing the Truth Through Data-Driven HRS Validation



MAXIMIZING HRS-VEHICLE OPERATION THROUGH REAL DATA-BASED PROTOCOLS

CALVERA HYDROGEN | TRL 6 to TRL 8

CHALLENGE 6 | SINGLE SME | 12 MONTHS

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THE CHALLENGE

The reliable operation of HRS links its verification and validation to the continuous parameter monitoring during refueling process.

To enhance efficiency and safety, and, simultaneously, to full fill with regulatory requirements is necessary to strengthen overall system reliability by refueling simulator based on real data acquisition.

THE SOLUTION

Refuelling simulator equipment for the tune-up and check of the proper functioning of HRS, during conformity testing and subsequent maintenance phases.

Industrialisable R&D based prototype based in cutting-edge technologies to reduce the timeframe required for conformity testing during commissioning and maintenance operations.



80 % -
Time reduction

95% +
Performance

2
Operational Scenario | Vehicle Type

TRL 8
Full operational device

I+D PROJECTS REFERENCES

01 BIG HIT - Increasing H₂ storage capacity. Maritime requirements.

02 GREEN HYSLAND - - Deployment of a H₂ Ecosystem.

03 H2TRUCK - Portable H₂ Refueling Station

04 ARIES - Sizing and operation optimization of HRS infrastructure

05 ALETHEIA – Technology unknowledge generation

Providing complete solutions for Hydrogen infrastructures



CALVERA
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