

SH2APED

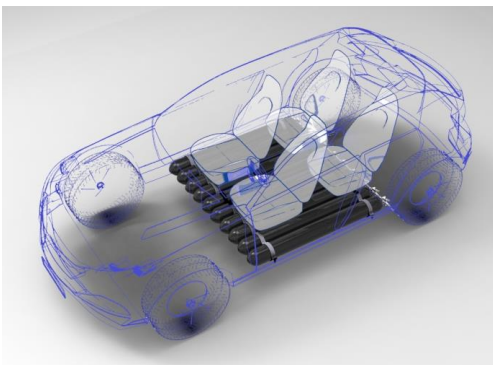
Storage of Hydrogen: Alternative Pressure Enclosure Development

PROJECT ABSTRACT

The goal of the SH2APED project is to develop and test at TRL4 a conformable and cost-effective hydrogen 70 MPa storage system with increased efficiency and unprecedented safety performance.

The innovative storage system is composed of the assembly of 9 tubular vessels fitting into a design space of 1800x1300x140 mm used for the battery pack. Fire resistance and mechanical robustness are drastically improved while the cost is decreased by 20% compared to the state-of-the-art Type IV tanks.

This architecture allows a modular system configuration fitting into the flat space of light-duty car underbodies. All the vessel and the system elements are being manufactured using know-hows and high-throughput processes. Performance parameters and KPIs are monitoring in compliance with the current regulations, codes and standards (RCS) aiming the update of RCS by new knowledge and technological breakthroughs and simplification of certification. Economic assessment for industrial mass manufacturing is in line with the expectations of the automotive industry.



PROJECT KEY FACTS

Duration: 01/01/2021 – 31/12/2023

Total grant: 1 993 550 EUR

Pre-financing payment of 1 594 840 EUR

Contribution to the **Guarantee Fund** of 99 677,50 EUR

Interim payments: x1 (RP#1 M18)

Final payment: balancing + GF reimbursement (RP#2 M36)

Website: www.sh2aped.eu

LinkedIn: <https://www.linkedin.com/in/sh2aped-project/>

Main contacts:

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- Project Manager: S.STROLA s.strola@absiskey.com
- Communication Manager: A.MIRONCZUK a.mironczuk@absiskey.com

INFORMATION ON EU FUNDING (MUST BE USED ALWAYS)

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 101007182. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Hydrogen Europe and Hydrogen Europe Research.

CONTACT TO PARTNERS

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REMINDERS

- ❑ The beneficiaries have full responsibility for implementing the action and for complying with the GA.
- ❑ The beneficiaries are jointly and severally liable for the technical implementation of the action.
- ❑ If a beneficiary breaches any of this obligations, the grant may be reduced in accordance with the Art. 43 of the GA.
- ❑ Each beneficiary's financial responsibility is in principle limited to its own debt and undue amounts paid for costs declared by its linked third parties.
- ❑ Any technical and/or financial deviation from the original scheduled plan should be reported to the coordinator, who will demand an advice to the EC (i.e. amendment request).

DELIVERABLE (AND TECHNICAL REPORT) PROCEDURE



SUGGESTED WORKFLOW

Absiskey proposes to you a tool, **Project netboard (PNB)**, which will help you for a correct and double-check financial and administrative project management before the submission of the final documents on the EC platform (Sygma ECAS).

→ <https://projectnetboard.absiskey.com/>

If you decide to not use PNB, you will be in charge to submit your data on the EC platform and Absiskey will not check it.

PNB will also be used as repository folder for all common project documents during the whole project life.

Partners: What to do on a regular basis for communication / dissemination ?

- ❑ Keep **Absiskey** and the **Coordinator** informed about events you participate to
- ❑ Send to Absiskey **all materials & information interesting to be diffused** (scientific publications, abstracts, posters, pictures, ...)
- ❑ Follow and interact with the project **website & social medias**
- ❑ Don't forget to make these materials (website, social medias, others) known by **external stakeholders/by your own networks**
- ❑ You must ensure **Open Access** (Open Research Data Pilot of the EC, at least Green OA must be ensured)