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Project: Protocol for heavy duty hydrogen refuelling (PRHYDE)

Final (sixth) webinar: 22nd September 2022

Webinar details:

Time:

11:00 – 15:00 (latest) Coordinated Universal Time (UTC)
i.e. 13:00 – 17:00 (latest) Central European Time

Acknowledgement:

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Webinar Agenda:

UTC Timing (approx.)	Subject
10:45-11:00 (12:45 CET)	Join webinar
11:00 (13:00 CET)	<p>Welcome</p> <p>Introduction to PRHYDE</p> <p><i>Note: Public deliverables available to date (see https://prhyde.eu/progress/)</i></p>
11:15 (13:15 CET)	<p>WP3 – Protocol concept development</p> <p>Content:</p> <ul style="list-style-type: none"> • PRHYDE refuelling concept • Refuelling risk assessment
12:15 (14:15 CET)	<p>WP5 – Experimental validation</p> <p>Content:</p> <ul style="list-style-type: none"> • Validation and comparison of the protocol concepts • Future efforts and additional needs
12:45 (14:45 CET)	<p>WP4 – Modelling and validation</p> <p>Content:</p> <ul style="list-style-type: none"> • Summary of key modelling results and protocol validation (0D/1D and CFD modelling)
13:15 (15:15 CET)	Break (15 mins)
13:30 (15:30 CET)	<p>Summary of key results and outlook</p> <p>Content:</p> <ul style="list-style-type: none"> • Wrap up, • Conclusions and key take-aways • Next steps required
14:15 (16:15 CET)	Questions / Discussion
14:55 (16:55 CET)	Closing remarks
15:00 (17:00 CET)	<i>End</i>



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What is PRHYDE?

With funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (FCH 2 JU, now CHJU), the PRHYDE project is aiming to develop recommendations for a non-proprietary heavy duty refuelling protocol used for future standardization activities for trucks and other heavy duty transport systems applying hydrogen technologies.

Based on existing fuelling protocols and current state of the art for compressed (gaseous) hydrogen fuelling, different hydrogen fuelling protocols are to be developed for large tank systems with 35, 50, and 70 MPa nominal working pressures using simulations as well as experimental verification. A broad industry perspective is captured via an intense stakeholder participation process throughout the project.

The work will enable the widespread deployment of hydrogen for heavy duty applications in road, train, and maritime transport. The results will be a valuable guidance for station design but also the prerequisite for the deployment of a standardized, cost-effective hydrogen infrastructure.

Further information can be found under <https://www.prhyde.eu>. For feedback on the PRHYDE project or the published deliverables, please contact info@prhyde.eu.

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Members of the PRHYDE Consortium:



Further linked third partner to the project are MAN and Toyota North America.

We also thank the following companies and institutions for their contribution to the project (in alphabetical order): Bennet Pump, Daimler, FirstElement Fuel, Hexagon Purus, Honda, LifeH2, Luxfer, National Renewable Energy Laboratory (NREL), National Technology & Engineering Solutions of Sandia, LLC (NESS), Risktec, Savannah River National Laboratory (SRNL) and TÜV SÜD Rail.