RH2INE

Rhine Hydrogen Integration Network of Excellence



In this edition of our quarterly newsletter (fall 2026), we look back at a major achievement for RH2INE: receiving Approval in Principle (AiP) from Lloyd's Register for the standardised design of swappable hydrogen containers. This important milestone brings us one step closer to a safe, scalable and interoperable hydrogen infrastructure along the Rhine corridor.

But there's more to share! We also turn our attention to the RH2INE Annual Conference 2026, bringing together stakeholders from across the hydrogen and inland shipping sectors to exchange insights, strengthen partnerships and explore the next steps towards zero-emission shipping.

17 December 2026 – Düsseldorf (Registrations are open!)

Happy reading!

Green light for standardised hydrogen swappable containers for inland shipping



RH2INE has officially obtained an ‘Approval in Principle’ (AiP) from Lloyd’s Register for the standardised design of hydrogen swappable containers. As a result, interchangeable containers designed according to the open standard can now be deployed more easily for zero-emission hydrogen-powered inland shipping throughout the Rhine corridor. This official milestone marks the transition from theoretical frameworks to a practical, deployable mobile hydrogen infrastructure for inland cargo vessels, push barges and other waterborne transport.

Continue reading

Your working groups quarterly update (fall '26)



The RH₂INE initiative continues to make important progress towards zero-emission inland shipping. From a major milestone in hydrogen container standardisation to new funding opportunities and infrastructure planning, the latest working group meeting mid September in Duisport - Duisburger Hafen AG highlighted key developments and priorities for the coming months.

Read more

Must read: Building a hydrogen system from scratch



The Port of Amsterdam highlights a fundamental challenge in the hydrogen transition: building an entire value chain of production, infrastructure, supply

and demand simultaneously. Rather than waiting for the market to develop, the port is taking concrete steps through initiatives such as H2avennet, a regional hydrogen network connecting future producers and industrial users, alongside hydrogen applications such as the Neo Orbis vessel. The key message is clear: scaling green hydrogen requires coordinated investments, strong public-private partnerships, stable policies and long-term commitment. An insightful read on why the hydrogen economy must be built together, step by step, rather than waiting for all market conditions to fall into place.

Read the full article. (in Dutch)



RH2INE Annual Conference 2026: Accelerating the Future of Zero-Emission Inland Shipping

Registrations are now open! Join us at MUNV.NRW in Düsseldorf this December for the RH2INE Annual Conference 2026, where industry leaders, policymakers and hydrogen pioneers will come together to turn ambition into action. Discover the latest developments in zero-emission inland shipping, from hydrogen tanktainer standardization and certification to renewable hydrogen regulations, terminal infrastructure and innovative propulsion technologies. Through inspiring presentations, interactive panel discussions and valuable networking opportunities, we will highlight concrete progress, tackle remaining challenges and explore the next steps towards a hydrogen-powered inland waterway network. Be part of the journey towards cleaner, smarter and more sustainable inland shipping!

Check out the preliminary programme and register today!

17 December 2026 – Düsseldorf

Don't miss this opportunity to connect, exchange ideas and help shape the future of sustainable inland shipping. Secure your spot now!

Take me there!

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