

PROGRAM

THE BALTIC SEA
HYDROGEN CONFERENCE

hY:CONF

stralsund.2025



Wednesday, 05. November 2025

Building 5 . Lecture hall 1

Opening of the Baltic Sea Hydrogen Conference & the 2nd German-Polish Hydrogen Conference hosted by the 32nd REGWA Energy Symposium

08:30 - 09:00	Registration
09:00 - 09:15	Ralph Sonntag, Rector of Stralsund University Greetings
09:15 - 09:30	Minister Bettina Martin, Ministry of Science, Culture, Federal and European Affairs of Mecklenburg-Western Pomerania Greetings
09:30 - 09:40	Head of the District Council Dr. Stefan Kerth, District of Vorpommern-Rügen Greetings
09:40 - 09:50	Heino Tanschus, Deputy Mayor of the Hanseatic City of Stralsund Greetings
09:50 - 10:00	Chamber of Commerce North Szczecin, Poland Greetings
10:00 - 10:30	Green Hydrogen, how can we get it? Michał Wieczorowski, Polish Hydrogen Chamber
10:30 - 11:00	Coffee break / Networking

Building 5 . Lecture hall 1

Session I: German Polish H2 Conference

11:00 - 11:30	Production of green hydrogen- exemption from income tax in Poland Wojciech Prus, Polish Hydrogen Chamber
11:30 - 12:00	Pommerndreieck: From Energy Potential to Regional Transformation Pankaj Sharma, envyze GmbH
12:00 - 12:30	North German Real-World Laboratory Subproject 6.2 - Synergy of Power to Gas and Biowaste Treatment Marcel Schröder, MVR Müllverwertung Rugenberger Damm GmbH Biogas- und Kompostwerk Bützberg Tim Zeige, Erneuerbare Energien Hamburg Clusteragentur GmbH
12:30 - 13:00	critical raw material for decarbonization and the hydrogen economy Robert Przekop, Adam Mickiewicz University in Poznań
13:00 - 13:45	Lunch break / Lunch

Building 5 . Lecture hall 1

Session IIA: German Polish H2 Conference / Matchmaking

14:00 - 17:30	Matchmaking-possibility in Stralsund for German and Polish Stakeholders Pitch-Session: Each participant will have 5 minutes to present his/her company or organization (in English). Networking: Afterwards, there will be time for informal matchmaking – supported by two German Polish-speaking IBN team members. Special Highlight: Joint networking with a hydrogen barbecue.
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Excursion

Session IIB Excursion to **INP** in Greifswald

(max. 50 Participants! for those who want to return to Stralsund afterwards)

14:00 – 15:00	Bus transfer to Greifswald
15:00 – 15:30	Arrival and introduction at the Leibniz Institute for Plasma Science and Technology (INP)
15:30 – 17:00	Laboratory tours in 4 groups (biogeniV project, hydrogen research factory, surface treatment laboratory, elementary laboratory)
17:00 – 18:00	Return journey to Stralsund

Excursion

Session IIC Excursion to **IPP** in Greifswald

(max. 50 Participants! für diejenigen, die anschließend direkt mit dem Shuttle nach Stettin weiterreisen)

14:00 – 15:00	Bus transfer to Greifswald
15:00 – 15:30	Arrival and introduction at the Max Planck Institute for Plasma Physics
15:30 – 17:00	Guided tour of the Wendelstein 7-X stellarator fusion research facility
17:00 – 18:00	Return journey to Szczecin for Polish delegation from Szczecin

Dinner

Session III: Get Together / Conference Dinner

20:00 - 22:30	@ restaurant Fischermännns An der Fährbrücke 3, 18439 Stralsund
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Thursday, 06. November 2025

Building 5 . Lecture hall 1

Session IA: REGWA Symposium

08:30 - 09:00 Registration

Acceptance / Transformation process

- 09:00 - 09:30 Acceptance or non-acceptance, that is the question" – First results from the social science study accompanying the ReEnAct project
Melanie Rühmling, ROSIS - Rostocker Institut für Sozialforschung und gesellschaftliche Praxis e.V.
- 09:30 - 10:00 Potential and feasibility analysis for the use of paludiculture as a decision basis for the participation process
Nina Martin, Institut für Dauerhaft Umweltgerechte Entwicklung von Naturräumen der Erde (DUENE) e.V.
- 10:00 - 10:30 Multi-disciplinary approach of energy transition and its societal aspects
Wim Timmermann, Hanze University of Applied Sciences Groningen
- 10:30 - 11:00 Coffee break / Poster Session

Regulatory and control engineering for renewable energies

- 11:00 - 11:30 Hydrogen certification on the example of an electrolyser in Bad Lauchstedt
Christoph Schunke, envyze GmbH
- 11:30 - 12:00 Technological and regulatory developments in energy supply: markets, innovations and safety standards
Moritz Hübel, TÜV NORD Systems GmbH & Co. KG
- 12:00 - 12:30 Renewable energy and challenges in control technology
Merja Mäkelä, Metropolia University of Applied Sciences
- 12:30 - 13:30 Lunch break

Heat Pump applications

- 13:30 - 14:00 Testing and demonstration of a river water heat pump with partial freezing and district heating feed-in
Mathias Safarik, Institut für Luft- und Kältetechnik gemeinnützige GmbH

Digitalization and energy system modeling

- 14:00 - 14:30 Influence of the share of wind power in the energy mix on the overall economic costs of the energy system
Viktor Wesselak, Hochschule Nordhausen
- 14:30 - 15:00 The optimal design of the energy system using scenario-based modelling
Ole Heins, envyze GmbH
- 15:00 - 15:30 Next-generation Lithium-Sulfur batteries for maritime applications
Yannik Schütze, IWEN Energy Institute gGmbH
- 15:30 - 16:00 Coffee break / Poster Session

Building 5 . Lecture hall 2

Session IB: Baltic Sea Hydrogen Conference hy:conf

- 08:30 - 09:00 Registration

Hydrogen Technology

- 09:00 - 09:30 Investigation on the Interstitial Metall Hydride Expansion upon hydrogenation
Gerd, Stahlkopf, Helmholtz Zentrum Hereon
- 09:30 - 10:00 Evaluating the Effects of Clamping Force Variations on Performance and Current Distribution in PEM Electrolysis Cells
Ali Golmohammadi, DILICO GmbH.
- 10:00 - 10:30 Hydrogen technologies in wastewater management – Use of electrolysis oxygen for ozonation in the 4th treatment stage of wastewater treatment plants
Sebastian Büttner, Bauhaus-Universität Weimar
- 10:30 - 11:00 Coffee break / Poster Session

11:00 - 11:30 The Interreg project "HyTruck": A Spatial Development Concept for Hydrogen Refuelling Stations from Rostock to Helsinki
Katrín Bockler, Ministerium für Wirtschaft, Infrastruktur, Tourismus und Arbeit
Mecklenburg-Vorpommern

Building 4 . Room 223

Session IB: Baltic Sea Hydrogen Conference hy:conf

Baltic Sea H2 Cooperation Workshop I

11:30 - 12:30 Baltic Sea H2 Cooperation Workshop I
Moderation: European Enterprise Network

International R&D cooperation opportunities for hydrogen projects (EEN)

12:30 - 13:30 Lunch break

Baltic Sea H2 Cooperation Workshop II

13:30 - 15:00 Baltic Sea H2 Cooperation Workshop II
Moderation: European Enterprise Network

World Café

Hydrogen Applications

15:00 - 15:30 Hydrogen projects in Estonia
Ain Laidoja, Estonian Association of Hydrogen Technologies

15:30 - 16:00 Coffee break / Poster Session

Building 7

Session II: Laboratory tour & visit to the workshop of the Thaiger H2-Racing Team

16:00 - 17:00 Visit to the complex laboratory for alternative energies and the workshop of the ThaiGer H2 Racing Team

Dinner

Session III: Conference Dinner

19:00 - 22:30 @ restaurant Rockeria
Seestraße 10-13, 18439 Stralsund

Friday, 07. November 2025

Building 5 . Lecture hall 1

Session IA: REGWA Symposium

08:30 - 09:00 Registration

Methanol

09:00 - 09:30 biogeniv bv-a1: Decentral methanol synthesis – plasma-based CO₂-dissociation and catalytic green methanol synthesis

Ruediger Hink, Leibniz Institute for Plasma Science and Technology e.V. (INP)

09:30 - 10:00 Presentation of a research project: Green methanol demonstration field

Mathias Lorenz, Hochschule Wismar/ Forschungs-GmbH

Heat / Geothermal energy

10:00 - 10:30 Medium-deep Ground Energy System with an Air Heat Collector: A Practical Case Study

Hannu Sarvelanien, South-Eastern Finland University of Applied Sciences

10:30 - 11:00 Coffee break / Poster Session

Digitalization and energy system modeling

11:00 - 11:30 From data acquisition to automation: Practical guide to the digitalization of energy systems in commercial enterprises

Nicole Meyer, Bauhaus-Universität Weimar

Heat / heat applications

11:30 - 12:00 Foundations with Function: Metrological Analysis of Thermally Activated, Ground-Bound Concrete Elements for Sustainable Building Climate Control

Benjamin Breuer, Bauhaus-Universität Weimar

12:00 - 12:30 Investigation of the indoor temperature curve under different heat pump control systems in a typical renovated single-family house

Jonathan Wenzel, Hochschule Nordhausen

12:30 - 13:30 Lunch break / Lunch

Heat / heat applications

- 13:30 - 14:00 Heat transition in Thuringia: Type-based analysis of the regional residential building stock
Helge Grüter-Birgaoanu, Bauhaus-Universität Weimar - Professur Energiesysteme
- 14:00 - 14:30 Systematic optimization of heating and cooling systems in industry
Henry Schwarz, Energieberatung-MV
- 14:30 - 15:00 Heat transition in Thuringia – economic and ecological assessment of renovation measures
Hinderrike Hauer-Berghuis, Hochschule Nordhausen
- 15:00 - 15:30 Coffee break / Poster Session

Heat / heat applications

- 15:30 - 16:00 Field report on the use of a multidimensional heat distribution network in the hybrid heat supply of buildings
Artjom Kolwa, Bauhaus-Universität Weimar, Bauhaus-Institut für zukunftsweisende Infrastruktursysteme, Fakultät Bau- und Umweltingenieurwissenschaften, Professur Energiesysteme

Research infrastructure

- 16:00 - 16:30 Building a Sustainable Energy Research Environment
Nina Wehrenbrecht, South-Eastern Finland University of Applied Sciences
- 16:30 - 17:00 A Modular Hybrid Energy Laboratory for Renewable Integration and Grid Flexibility
Florian Haug, Åland University of Applied Sciences
- 17:00 - 17:30 Wrapping up and outlook for the next Baltic Sea Hydrogen Conference & REGWA Symposium

Building 5 . Lecture hall 2

08:30 - 09:00 Registration

Session IB: Baltic Sea Hydrogen Conference hy:conf

Hydrogen Projects

- 09:00 - 09:30 Sh2amrock and Luxhyval; the IZES Hydrogen Valley Projects
Bodo Groß, IZES gGmbH
- 09:30 - 10:00 Research project H2-FEE - Flexible energy sources for the energy transition: GIS-based site suitability analysis of decentralized power-to-gas plants in Lower Saxony
Mareike Liefer, Institut für Umweltplanung, Leibniz Universität Hannover
- 10:00 - 10:30 Best Practice in Fuel Cell Bus Projects
Klaus Stolzenburg, Ingenieurbüro PLANET GbR
- 10:30 - 11:00 Coffee break / Poster Session

Hydrogen Production

- 11:00 - 11:30 Hydrogen for shipping
Axel Rafoth, Hochschule Wismar
- 11:30 - 12:00 Hydrogen production via two stage pyrolysis
Allan Niidu, TalTech Virumaa college

Hydrogen Projects

- 12:00 - 12:30 Projekt NEP2N – Wasserstofftechnologien zwischen Hörsaal und Praxis: Ein Projektbericht aus studentischer Sicht
Stina Amrhein, Bauhaus-Universität Weimar
- 12:30 - 13:30 Lunch break / Lunch
- 13:30 - 14:00 Virtualized Laboratory Environments for Green Transition Education: Pedagogical Foundations and New Collaborative Opportunities
Esa Toukoniitty, Metropolia University of Applied Sciences
- 14:00 - 14:30 **TBC**
UK company
- 14:30 - 17:00 chance to join sessions at the REGWA symposium

