

I N T E R N A T I O N A L C O N F E R E N C E

# HYDROGEN AS A REMEDY FOR THE CLIMATE AND ENERGY CRISIS



WROCLAW  
14 DECEMBER 2022

## ORGANIZERS



INSTYTUT NISKICH TEMPERATUR  
I BADAŃ STRUKTURALNYCH  
POLSKIEJ AKADEMII NAUK  
WE WROCŁAWIU



Politechnika  
Wrocławska

## PARTNERS



BGK  
BANK GOSPODARSTWA  
KRAJOWEGO



Bank Polski



Uniwersytet  
Ekonomiczny  
we Wrocławiu



UNIWERSYTET  
PRZYRODNICZY  
WE WROCŁAWIU



Agencja  
Rozwoju  
Przemysłu  
S.A.

# **HYDROGEN AS A REMEDY FOR THE CLIMATE AND ENERGY CRISIS**



<b>CONFERENCE AGENDA</b>	
<b>Date</b>	<b>Wednesday, December 14, 2022</b>
<b>Place</b>	<b>Wrocław, Concordia Design, Wyspa Słodowa 7. <a href="http://hub.concordiadesign.pl">http://hub.concordiadesign.pl</a></b>
9:00 - 10:00	Registration, welcome coffee
10:00 - 10:20	<b>OPENING OF THE CONFERENCE</b> <ul style="list-style-type: none"><li>• Prof. Andrzej Jeżowski, Director of the Institute of Low Temperatures and Structural Research, Polish Academy of Sciences</li><li>• Sławomir Sobkiewicz, President of the Lower Silesian Hydrogen Valley</li></ul>
	<b>SESSION 1</b> Chairman: Jerzy Kaleta
10:20 - 10:40	Hydrogen Valleys in Poland - objectives and development strategy, Szymon Płoński, Industrial Development Agency (ARP)
10:40 - 11:00	Center of E-Mobility and Clean Growth CURIE, Evangelos Gkanas, Coventry University Research Institute Europe (online broadcast)
11:00 - 11:20	Establishment of Hydrogen Valleys in Hungary, Gábor Angyal, CCS & Low-Carbon H2
11:20 - 11:40	GreenLab Skive - example of Hydrogen Hub from Denmark, Jakob Hebsgaard Mogensen, Head of Business Development, GreenLab Skive (online broadcast)
11:40 - 12:00	Hydrogen projects in Germany and the EU, Grzegorz Pawelec, Research Director Hydrogen Europe (online broadcast)
12:00 - 12:30	Coffee Break
	<b>SESSION 2</b> Chairman: Wiesław Stręk
12:30 - 12:45	Development strategy of the Lower Silesian Hydrogen Valley, Sławomir Sobkiewicz, President of the Lower Silesian Hydrogen Valley
12:45 - 13:00	Hydrogen technologies - funding mechanisms in the EU, Maciej Woszczyk, EU Policy Advisor NCBR Office in Brussels (online broadcast)
13:00 - 13:15	Hydrogen valleys in Poland - objectives and financing mechanisms for the initial phase of development, Adam Żelezík, Director of the BGK Office of Strategic Initiatives
13:15 - 13:30	Polish hydrogen technology development program, Ireneusz Zyska, Deputy Minister of Climate and Environment (online transmission)
13:30 - 13:45	Hydrogen Valley Hobro, Søren Bjerregaard Pedersen, CEO, Hydrogen Valley Hobro, Danmark (online broadcast)
13:45 - 14:30	Lunch

# HYDROGEN AS A REMEDY FOR THE CLIMATE AND ENERGY CRISIS



	<b>SESSION 3</b> Chairman: Grzegorz Krzos
14:30 - 15:45	Presentation of selected projects from DDW portfolio (part 1)
	GREEN ENERGY CLUSTERS <ul style="list-style-type: none"> <li>• Agnieszka Spirydowicz (ZKlaster, Zgorzelec Green Energy Cluster)</li> <li>• Andrzej Jeżewski (Promet-Plast, Oława Green Energy Cluster)</li> <li>• Gregor von Kampen (DCEO Group, Milicz cluster of green energy and H2)</li> <li>• Artur Kuźniacki (ESV LLC, Energy microgrids)</li> </ul>
	HYDROGEN PRODUCTION <ul style="list-style-type: none"> <li>• Wiesław Stręk (INTiBS, H2 generation: photolysis of water)</li> <li>• Karolina Kurzac (WSTI - H2O Scitech, Thermo-electrolysis of H2O)</li> <li>• Matt Sołtysiak (SES Hydrogen, AEM and Alkaline Electrolyzers)</li> </ul>
	HYDROGEN STORAGE AND DISTRIBUTION <ul style="list-style-type: none"> <li>• Henryk Drulis (INTiBS, H2 storage in metals and metallic compounds. Hydride tanks and electrodes)</li> <li>• Marcin Sobczyk (UWr, H2 storage in solids)</li> <li>• Paweł Gašior (PWR, SafeHydroMech, ROAD TRHYP)</li> <li>• Justyna Krzak (PWR, Sol-gel materials sealing H2 diffusion barriers in tanks)</li> </ul>
15:45 - 16:15	Break
	<b>SESSION 4</b> Chairman: Mirosław Miller
16:15 - 17:15	Presentation of selected projects from the DDW portfolio (Part 2)
	HYDROGEN STORAGE AND DISTRIBUTION (CONT.) <ul style="list-style-type: none"> <li>• Ernest Wójtowicz (Sigma Project, mobile H2 storage facilities)</li> <li>• Grzegorz Paściak (INTiBS, H2 Energy Station)</li> <li>• Antoni Bara (AB Consulting, Green energy storage facilities)</li> </ul>
	HYDROGEN TECHNOLOGIES <ul style="list-style-type: none"> <li>• Radosław Żydok (KGHM Polska Miedź, Role of hydrogen in decarbonization of metallurgy)</li> <li>• Robert Żmuda (SBB Energy, Innovative energy boilers)</li> <li>• Jacek Gliniak (HiPower, Methanol cells, H2 separation from waste gases)</li> <li>• Tomasz Licznarski (AI Labs, Software for integrated control of BIO Energy Factory with AI)</li> <li>• Grzegorz Krzos (UE, Biomethane plants in the green energy mix)</li> </ul>
	<b>SESSION 5</b> Moderators: Jerzy Kaleta, Mirosław Miller
17:15 - 18:00	Panel discussion: Sławomir Sobkiewicz, Evangelos Gkanas, Gábor Angyal, Silvia M. Pietralunga, Agnieszka Spirydowicz
18:00 - 22:00	Banquet



# HYDROGEN AS A REMEDY FOR THE CLIMATE AND ENERGY CRISIS



THURSDAY, DECEMBER 15, 2022

Tour by willing guests:

- Laboratory of High Pressure Hydrogen Storage at Wrocław University of Science and Technology
- Saule Technology LCC: <https://sauletech.com>
- Energy Cluster Oława: <https://promet-plast.pl>

## ORGANIZERS



INSTYTUT NISKICH TEMPERATUR  
I BADAŃ STRUKTURALNYCH  
POLSKIEJ AKADEMII NAUK  
WE WROCŁAWIU



Politechnika  
Wrocławska

## PARTNERS



BGK  
BANK GOSPODARSTWA  
KRAJOWEGO



Bank Polski



Uniwersytet  
Ekonomiczny  
we Wrocławiu



UNIWERSYTET  
PRZYRODNICZY  
WE WROCŁAWIU



Agencja  
Rozwoju  
Przemysłu  
S.A.