



Global Alliance
POWERFUELS



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German Energy Agency

CONFERENCE

CONNECTING POWERFUEL HUBS

LEVERAGING VALUE CHAINS FOR POWERFUELS

23RD JUNE 2021

ONLINE CONFERENCE

5:00pm - 1:30am JST | 10:00am - 6:30pm CET | 4am - 1:30pm EDT

ORGANISED BY



Global Alliance
POWERFUELS

IN COOPERATION WITH



Connecting Powerfuels Hubs

Renewable hydrogen-based liquid and gaseous **powerfuels** are an important cornerstone of our future energy system. They enable sector coupling and also allow a deep de-fossilisation in sectors, in which direct electrification with renewable energy sources is not physically possible or economically feasible.

The market ramp up of powerfuels requires an upscaling and the connection of production and application facilities. Powerfuel hubs play a key role as functional units within regional, national and international value chains where infrastructures converge and trade takes place. Hubs enable transportation and trade of powerfuels from producers in one region to multiple off-takers in another region. Hubs are the places where fuels arrive directly from producers or from international trade and fuels switch from transport to distribution infrastructure. Hubs are often associated with storage of fuels and conversion processes, which are necessary to meet the demands of single or multiple customers.

With the development of global powerfuels markets, existing hubs will adapt towards new environments and new hubs will emerge. The design of those future hubs will be defined by needs of producers, consumers, network operators, governments and many more. We bring together those stakeholders and identify their needs to enable decision makers to envision and implement required frameworks and develop pathways for powerfuels.

Worldwide, companies and governments are developing hubs to enable global trade of powerfuels to provide business opportunities for countries to produce, use and export powerfuels.

This year's Annual Conference of the Global Alliance Powerfuels will bring together experts from industry,



government, international organisations and NGOs to identify current technical, regulatory and economic challenges to bring fuels to market and explore the role of powerfuel hubs. Hereby it will contribute to a common understanding of the role of hubs, their functions and help to overcome the identified market barriers.

The **Global Alliance Powerfuels**, initiated by the German Energy Agency (dena) together with 16 renowned industry members, supports this goal by:

1. Raising awareness and acceptance of powerfuels as a missing link to reach global climate targets;
2. Supporting the enhancement of regulatory frameworks with a first focus on Europe as demand region;
3. Stimulating project development to increase production capacities globally on an industrial scale, thus increasing cost competitiveness with fossil fuels.

With this invitation, I would like to offer you the opportunity to engage within our Annual Conference, follow the sessions, get inspired, network with key stakeholders in the field of powerfuels and boost your own activities. Thank you and I look forward to connect with you.

A handwritten signature in black ink, appearing to read 'Andreas Kuhlmann', written in a cursive style.

Andreas Kuhlmann
Chief Executive, German Energy Agency

10:00	Welcome reception and Networking		Networking
11:00–11:10	Opening remarks German Energy Agency (dena) Andreas Kuhlmann , Spokesman, Global Alliance Powerfuels /CEO, German Energy Agency Moderation: Siobhan Hall & Sonja von Renssen		
11:10–11:50	Keynote Powerfuel hubs are essential, we need them, and they are already there. They offer a chance to transform and defossilise current energy hubs. They are also facilitators of clean shipping and aviation, and they bring production and demand sectors together. Keynote 1: Dr. Gunar Hering , Member of the Executive Board, ENERTRAG AG Keynote 2: Stijn van Els , Director Commercial Delivery, Port of Rotterdam Moderation: Sonja von Renssen		
11:50–12:30	Session 1: Powerfuel Hubs foster international powerfuel value chains Physical hubs are the cornerstones of global trade and they are connecting the world. Powerfuel Hubs will most likely also serve as anchors for the global trade of hydrogen and its derivatives. And, they will do much more: Powerfuels will be produced, converted, traded and facilitated at Powerfuel Hubs. The opening panel will showcase international Powerfuel Hubs, which are operating already. Andreas Kuhlmann , CEO, German Energy Agency Dr. Gunar Hering , Member of the Executive Board, ENERTRAG AG Stijn van Els , Director Commercial Delivery, Port of Rotterdam Moderation: Sonja von Renssen		
12:30–12:40	Coffee Break		
12:40–13:30	Session 2: Developments in Hydrogen Transportation and Production in Japan Japan is one of the first-movers on hydrogen and the first industrial nation to publish its national hydrogen strategy in 2017. Its strategy is based on both large-scale imports as well as domestic production, each posing challenges regarding transport and production. Eiji OHIRA , Director General, Fuel Cell and Hydrogen Technology Office, New Energy and Industrial Technology Development Organization (NEDO) Bastian Gerstner-Riewer , Head of Project Development, Mitsubishi Heavy Industries EMEA, Ltd. Dr. Katsuya Morimoto , Associate Officer, Technology Group Manager Hydrogen Strategy Division, Kawasaki Heavy Industries Moderation: Daniel Münter	Session 3: Hubs as prosumer of Powerfuels Applications of transport, such as aviation and shipping, are most likely one of the first large scale adopters of powerfuels. High demand and high volumes are strong pull for production facilities at the same time. The session will explore the blueprint of powerfuel prosumers. Marcos Marques , Project Lead eFuel Chile, Porsche AG Michael Eggenschwiler , CEO, Hamburg Airport Stefan Siegemund , Director – Sustainable Mobility and Alternative Energy Carriers, German Energy Agency Moderation: Siobhan Hall	
13:30–14:15	Programme Break		

14:15–15:05	<p>Session 4: Hamburg Hydrogen Hub for Logistics, Industry and Aviation</p> <p>“The door to the world” – the self-reference of the city of Hamburg stands for openness and innovation. Leading the development of a Powerfuel Hub certainly requires both. As an important international harbour with enormous renewables energy production capacities in the front yard, Hamburg has the core prerequisites ready to build upon.</p> <p>Nicole Dreyer-Langlet, Vice President Alternative Fuels / Hydrogen Airplane Strategy, Airbus</p> <p>Dr. Fabian Ziegler, Managing Director of Shell Germany, Deutsche Shell Holding GmbH</p> <p>Oliver Henry Koch, Hydrogen Evolutionary Infrastructures, Gasnetz Hamburg</p> <p>Moderation: Jan Rispens</p>		Networking
15:05–15:15	<p>Coffee Break</p>		
15:15–16:05	<p>Session 5: Harbours: Hubs for powerfuel transport and distribution</p> <p>As harbours have always been the gates to the world, the transportation of liquid and gaseous energy carriers is one of the key elements of the energy transition and enabler to carry harvested renewable energy to all places. This session will explore the role of harbours from the perspective of transport and distribution.</p> <p>Rafael Schmidt, Head of Business Development, Hydrogenius</p> <p>Class Hülsen, Director Business Development, DNV Energy Systems</p> <p>Moderation: Sonja von Rensen</p>	<p>Session 6: Transition pathways – the key role of hubs in global trade and the shift in globally traded fuels</p> <p>Powerfuels are coming in various forms and properties – from hydrogen to kerosene to methanol – they can be applied in nearly all demand sectors and enhance the global process of defossilisation of traded (power-) fuels.</p> <p>Flor Lucia de la Cruz, Senior Analyst for Hydrogen & Emerging Technologies, Wood Mackenzie</p> <p>Herib Blanco, Senior Energy Consultant – Hydrogen Policy, IRENA</p> <p>Sirko Beidatsch, Expert Natural Gas Markets, European Energy Exchange AG (EEX)</p> <p>Moderation: Siobhan Hall</p>	
16:05–16:10	<p>Coffee and Networking time</p>		
16:10–17:00	<p>Session 7: Moving Powerfuel Hubs forward – Political framework and financial support mechanisms to promote the development of powerfuels value chains</p> <p>Powerfuels and especially hydrogen have made a huge step forward in 2020. A wide range of national strategies have been introduced and funding programmes have been set up. Now it's time for action and building up Powerfuel Hubs. They will ensure that powerfuels are available at the right place and time.</p> <p>H.E. Philip Green OAM, Ambassador to Germany, Switzerland and Liechtenstein, Australian Embassy</p> <p>Dr. Falk R. Bömeke, Head of Division Bilateral Energy Cooperation, German Federal Ministry for Economic Affairs and Energy</p> <p>Hyung-Ja de Zeeuw, Senior Strategist Sustainability, Executive Director, RaboResearch & Rabobank</p> <p>Elmer De Boer, Lead New Energy Development, Eneco</p> <p>Moderation: Sonja von Rensen</p>		Networking
17:00–17:10	<p>Coffee Break</p>		

17:10–18:00	<p>Session 8: Trading of green powerfuel properties: Certification, standardisation and import sustainability criteria</p> <p>Certification and guarantees of sustainability criteria of Powerfuels are key to develop global markets with standardised renewable fuels. Producers and offtakers have a common interest to trade renewable-based and low-emission powerfuels. The session will explore current models in development and suggest best practices.</p> <p>Korinna Jörling, Senior Consultant Energy, Guidehouse Ana Šerdoner, Policy Manager Industry, Bellona Europa Heino von Meyer, Head of Global Relations & Networking, International PtX Hub Toni Reinholz, Team Lead Renewable gases & bio energy, German Energy Agency</p> <p>Moderation: Siobahn Hall</p>	Networking
18:00–18:15	<p>Closing remarks</p> <p>Kilian Crone, Project Lead, Global Alliance Powerfuels</p> <p>Moderation: Siobhan Hall & Sonja von Renssen</p>	
18:15–18:30	<p>Digital Reception & Networking</p>	
18:30	<p>End of conference</p>	