

## Virtual Side Event – COP26

### **Carbon Markets and Green Hydrogen: Synergies to reach decarbonization**

*November 2, 2021 / 1:30 - 3:00 PM (Glasgow, UK)*

[Registration link](#)

#### **Context**

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In recent years, Green Hydrogen (H<sub>2</sub>) has been considered a crucial resource for the decarbonization of important sectors of the economy (such as transport, steel, and cement, among other industries). Green Hydrogen may be a strategic market in a future carbon-neutral economy. Projections indicate that it will be price-competitive within the next 10 years (Council, 2021). This poses a challenge to advance investments and encourage the development of new projects.

Due to its abundant renewable energy sources, Chile is in a good position to increase its Hydrogen production in the next years. According to its [National Green Hydrogen Strategy](#), this country will have the lowest levelized production costs (LCOH) in the world by 2030 in the Atacama Desert and Magallanes Region. However, the development and adoption of hydrogen in the local and national context faces significant challenges. High initial costs and risk perception by final clients, the lack of market signals to mobilize domestic demand, the need to modernize the existing infrastructure and the development of a supportive regulatory framework are some of the factors hindering the rollout of Green Hydrogen capacity.

In this context, Article 6 of the Paris Agreement and other innovative market mechanisms and climate finance instruments could play a key role. Cooperative approaches may offer an opportunity to leverage international financing for Green Hydrogen projects in countries like Chile, lowering implementation barriers.

In this framework, the Global Carbon Market project, which is implemented by GIZ on behalf of the German Federal Ministry for Environment, Nature Conservation and Nuclear Safety, developed an innovative study that analyzes potential cases of Green Hydrogen projects in the framework of Article 6 carbon markets. The study shows how the sale of certified mitigation outcomes (ITMOs) may contribute to closing the gap to the economic viability of the projects while increasing the climate ambition of the countries and fulfilling the targets of the Paris Agreement.

#### **Objective**

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The objective of the event is to make visible the opportunities presented using Article 6 of the Paris Agreement and other climate finance instruments to promote technologies based on Green Hydrogen in different industries and sectors, taking as a case of analysis the development of Chile in this area.





## Programme

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5 min	<b>Opening</b> <ul style="list-style-type: none"><li>Mr. Rainer Schröder, Director of the Renewable Energy and Energy Efficiency Program in Chile of the GIZ.</li></ul>
20 min	<b>Presentation of National Green Hydrogen Strategy of Chile: Opportunities and Challenges</b> <ul style="list-style-type: none"><li>Mr. Carlos Barría – Head of Studies and Policies Division, Ministry of Energy, Chile</li></ul>
15 min	<b>Presentation of the Study "Potential of Article 6 to promote the use of Green Hydrogen in the steel, cement and mining industries"</b> <ul style="list-style-type: none"><li>Ms. Constanza Montes – Technical Advisor at GIZ, Project Global Carbon Market</li></ul>
25 min	<b>Panel Discussion: "The Role of Article 6 in Promoting the Use of Green Hydrogen in the Energy Transition"</b> <ul style="list-style-type: none"><li>Moderator: Ms. Katie Sullivan – Managing Director on IETA</li><li>Mr. Juan Pedro Searle – Chief of Climate Change Unit of Chile's Ministry of Energy</li><li>Ms. María Paz de la Cruz – CEO Chilean Hydrogen Association (H2 CHILE)</li><li>Mr. Phillip Hauser - Agora Energiewende</li></ul>
20 min	<b>Q&amp;A</b>
5 min	<b>Closure</b> GIZ

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## Biographies

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### Mr. Rainer Schröer

Rainer is a physical engineer who graduated in Aachen, Germany. He has more than 35 years of experience working in the private and public sector in activities related to energy efficiency, renewable energies, water supply systems, and the mining sector. Rainer has worked in various countries such as Germany, Philippines, Argentina, Brazil, El Salvador, Costa Rica and Chile. Since 2008 he is part of GIZ and since 2014 he is Director of the 4e Program implemented in Chile, which consists of several projects related to the promotion of renewable energy and energy efficiency.



### Mr. Carlos Barría

Carlos is a civil engineer with a master's degree in engineering sciences from the Pontificia Universidad Católica of Chile. He has more than 16 years of experience in leading and advising public and private organizations in the Chilean energy sector. Currently, Carlos is Head of the Studies and Policies Division of the Ministry of Energy.



### Ms. Constanza Montes

Constanza has a master's degree in Engineering in Natural Resources from the University of Chile. She has more than 10 years of experience in the field of energy and climate change management, which covers the development of NCRE projects in the private sector and consulting private and public entities (Ministry of Energy APEMEC A.G. and CDM projects and carbon footprint). Since 2017 Constanza is a Technical Advisor at GIZ Chile within the Global Carbon Market project of the BMU.





**Ms. Katie Sullivan**

Katie is Managing Director at IETA. On behalf of IETA's 180+ members, Katie leads efforts to inform market solutions that tackle climate across the Americas and globally. She currently sits on the Steering Committee for the World Bank's Carbon Pricing Leadership Coalition and Boards of the Climate Action Reserve and the International Carbon Capture & Storage (CCS) Knowledge Centre. In 2019, she was recognized as a Clean16 and Clean50 award recipient for contributing to Clean Capitalism Leadership in Canada.



**Mr. Juan Pedro Searle**

Juan Pedro has a scientific background on biochemistry. He has nearly 20 years of experience on climate change related matters in Chile, most of them dedicated to multilateral negotiations under the UNFCCC. He currently works in the Ministry of the Energy as Head of Climate Change. In this role, he has continued to follow-up climate change negotiations concentrating efforts on market mechanisms, including Article 6 of the Paris Agreement. He is also part of the COP Presidency Team and Co-chair of the Platform for Cooperation of the Carbon Pricing in the Americas.



**Ms. María Paz de la Cruz**

María Paz has worked in the power industry for more than 20 years. She has held strategic and management roles for international development banks, renewable energy organizations, government institutions, and power plants in Chile and the UK. She is also Board Member at Energía de la Patagonia y Aysén S.A. María Paz is a MSc. in Carbon Management from the University of Edinburgh and BSc. in Industrial Engineering from the Universidad de Concepción. Since 2020 she is CEO of Chilean Hydrogen Association (H2 CHILE).



**Mr. Phillip Hauser**

Phillip graduated from Albert Ludwig University Freiburg with a degree in chemistry and MBA at the Coppead Institute of the Federal University of Rio de Janeiro. For 10 years he worked for ENGIE in Latin America as Vice President for Climate Policy and Energy Transition. He is currently Project Manager for industry at Agora Energiewende and is responsible for the conception of strategies and policy instruments for the transformation of primary industry.

