Global Renewable Hydrogen Forum (GRHF)
“Moving from MOUs to investing in Projects” (Opening)

News article: [COP27: UNIDO to support new Global Renewable Hydrogen Forum | UNIDO](https://www.unido.org/cop-27-green-hydrogen-event)

Future Energy – Green Hydrogen (special evening event)

Organized: together with COP27 Presidency

Key partners: Orascom Construction, OCI, OCP, The Sovereign Fund of Egypt, The Spanish Hydrogen Association

About the event: [https://www.unido.org/cop-27-green-hydrogen-event](https://www.unido.org/cop-27-green-hydrogen-event)

**Delivering the Hydrogen Breakthrough: creating demand and mobilising finance**

**Where:** COP27 Negotiation Rooms, Climate Action Zone  
**Organizer:** UNFCCC, Breakthrough Agenda

**About:**  
At COP26, 45 countries launched the Breakthrough Agenda: a commitment to strengthen collaboration, working together to make clean technologies the most affordable, accessible and attractive option in each emitting sector globally before 2030. The Hydrogen Breakthrough was one of four Breakthroughs initially announced as part of this agenda.

At COP27, the Breakthrough Agenda Priority Actions for Hydrogen were discussed by speakers in a two-part roundtable discussion showcasing how countries and initiatives are collaborating to deliver those actions and exploring what more can be done.

UNIDO provided a brief intervention to outline the work of the UNIDO Global Programme for Green Hydrogen in Industry.

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**GREEN HYDROGEN Scaling up Power-To-X Technologies, a Leverage for a deep industrial Decarbonization**

**Where:** COP27, Moroccan Pavilion – Green zone

**About:**  
This session addressed the barriers (technical, economic, regulatory and others) required to be overcome to ensure a successful upscaling of green hydrogen. It highlighted concrete actions and plans that will advance the technologies, policies and investments required for scaling up Power-To-X Technologies.

UNIDO made a brief intervention to provide the main objectives of the Global Programme for Green Hydrogen in Industry and specific activities made in Morocco.

**Moderation:** Mr. Said Mouline: General Director-Moroccan Agency for Energy Efficiency “AMEE”  
**Opening address:** Mr. Said Mouline: General Director-Moroccan Agency for Energy Efficiency “AMEE”
11 November 2022
(participation)

Panelists:
Ms. Petra SCHWAGER, Chief, Climate and Technology-UNIDO
Mr. Ali Zerouali, Head of Cooperation & International Development – MASEN
Mr. Salah Mahdy, Global Director Hydrogen – HOWDEN
Ms. Rajae Chafil, Director - Climate Change Competence Centre of Morocco “4C Maroc”
Mr. Frans KALENGA, Technical Advisor on Green Hydrogen- Namibian Ministry of Mines and Energy

Global Renewable Hydrogen Forum - From MOUs to Investing in Projects

Panel discussion: "Maximising environmental and socio-economic value of hydrogen through cost-efficient incentives and cross-border trade"

Where: COP27

About:

The Global Renewable Hydrogen Forum is a multi-stakeholder platform designed to facilitate large-scale deployment of renewable hydrogen in emerging market economies to foster decarbonisation and build-up low-carbon industries, accelerate just energy transition and unlock the environmental and socio-economic benefits of the global hydrogen economy through hydrogen trade.

The panel discussion outlined key points regarding the Forum which is purposed to address the following:

- Unlock investments in renewable hydrogen and derivatives in developing countries, fostering decarbonisation of local industries and just transition
- Identify best practices for designing financial support measures and renewable hydrogen production and consumption incentives
- Create trade cross-border corridors between renewables-rich developing countries and developed economies

Moderation: Mr. Daryl Wilson, Executive Director at Hydrogen Council

Keynotes:

- H.E. Mohamed Nasr, Director of Climate Department, Ministry of Foreign Affairs
- H.E. Francois Cornet D’elzius, Ambassador of Belgium to Egypt and Soudan
14 November 2022
(participation)

Panelists:

- **Ms. Petra Schwager**, Chief, Climate and Technology- UNIDO
- **Mr. Ahmed Abdoulgheit** (COP27 Presidency Team)
- **Mr. Soji Omisore**, Deputy Director - Private Sector Finance, Green Climate Fund
- **Ms. Elizabeth Press**, Elizabeth Press, Director of Planning and Programme Support, IRENA
- **Mr. Ahmed El-Hoshy**, Ahmed El-Hoshy, Chief Executive Officer at OCI NV and Fertiglobe

**World Climate Summit – The Investment COP Panel discussion: “Scaling up Innovation and Finance for Heavy Industry Decarbonisation”**

**Where:** COP27, Park Regency Hotel

**About:**
This session put a focus on opportunities for the real economy to rise to the challenge and ways stakeholders across sectors are poised for systemic transformation. Participants addressed the key gaps and opportunities to improve the uptake of solution levers and accelerate the pace of progress. They highlighted concrete actions and plans that will advance the technologies, demand signals, policies and investments required for net zero success in hard to abate sectors.

**Moderation:** Mark Campanale, Executive Chair, Carbon Tracker

**Keynote:** Hong-Tu Tsai, Chairman, Cathay Financial Holdings (pre-recorded)

Panelists:

- **Ms. Petra Schwager**, Chief, Energy Technologies and Industrial Applications Division, UNIDO
- **Ms. Claire Dorrian**, Head of Sustainable Finance, Capital Markets, London Stock Exchange
- **Ms. Irina Gorbounova**, Head of Xcarb Innovation Fund, ArcelorMittal Ltd
- **Ms. Amanda Williams**, MIEMA CEnv, Head Of Sustainability – Steam Specialties at Spirax-Sarco Engineering plc
Mr. Ignacio Hernandez, Co-chair for Climate Change and Energy Group, International Council for Chemical Associations

14 November 2022
(participation)

Critical enablers for South Africa’s green hydrogen economy

Where: South African Pavilion at COP27
Organizer: Sasol

About:
Developing countries like South Africa do not have the same financial capabilities as developed markets to subsidise green hydrogen based projects and innovative financial solutions are required to ensure that South Africa can capitalise on its high potential to be a leading producer of green hydrogen for both export and local use cases.

Panelists discussed how we balance the export demand and urgent need for local decarbonisation with innovative solutions using policy and financial levers.

Moderation: IFC
Scene Setter: Vuyo Kahla
Panelists:
- Ms. Priscillah Mabelane, EVP Energy Business, Sasol
- Hendrik Louw, Acting CEO, NCEDA
- Mr. Juan Pablo Davila, Senior Industrial Development Officer, UNIDO
- Mr. Daryl Wilson, Executive Director, Hydrogen Council
- Mr. Stefan Hediger, Principal Project Manager, KfW

15 November 2022
(participation-moderation)


Where: COP27, Presidency Room
Organizer: COP27 Presidency

About:
This Presidency event brought together stakeholders from Government, private sector and multilateral development banks to discuss the potential for Africa and the developing world to become major green hydrogen producers.
producers and exporters. Participants provided their insights on public-private sector initiatives, infrastructure needs, financing gaps and adequate mechanisms to tackle these challenges for developing countries to scale up on green hydrogen projects.

The main takeaways of the session were as follows:

- H.E. Minister Saleh Al Kharabsheh of the Ministry of Energy and Mineral Resources from the Kingdom of Jordan, highlighted the ongoing preparations for a national green hydrogen strategy. The Minister highlighted the need to reshape energy systems towards green transition, establish partnerships to reduce fossil fuel dependency and promote energy security in the process of developing green hydrogen.

- H.E. Federal Minister Leonore Gewessler of the ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology of Austria emphasized the strong need to promote strategic cooperation and establish supply chains which will provide mutual benefits for export and import opportunities for the African Continent.

- Mr. Bashir Lebada, CEO of OCI Methanol has noted that there is an existing gap in the market to ramp up hydrogen demand. From the industry standpoint, this could be an area where innovative financing needs could be addressed and scaling the demand technologies and its relevant infrastructure will enable roll-out of green hydrogen and its derivatives.

The discussion was further shaped with the engagement of three multilateral development banks represented from EBRD, EIB and the KfW.

- Ms. Eefje Schmid, Head of Policy and Impact Unit of the European Investment Bank, mentioned that the development of long-term decarbonization strategies play an essential role in de-risking green hydrogen projects. This could be supplemented with sufficient financial resources and partnerships offered from the Bank.

- Mr. Harry Body-Carpenter, Managing Director of the European Bank for Reconstruction and Development, indicated the official launching of the ‘National Low Carbon Hydrogen Strategic
Framework’, whereby the EBRD has supported the Government of Egypt to establishing its blueprint. He has mentioned that long-term infrastructure planning and financing and integrating renewables, electrolyzers to make green hydrogen projects bankable will be of key importance, backed with policy instruments such as carbon pricing and carbon contract for differences schemes.

- Ms. Christiane Laibach, Member of the KfW (German Development Bank) Group’s Executive Board provided her views with the official launching of the PtX Hub Development Fund which subsidizes green hydrogen projects in developing countries and emerging markets. She outlined that hydrogen projects need offtake schemes to make them bankable.

**Moderation:** Ms. Petra Schwager, Chief, Climate Technology and Partnerships Division, UNIDO

The discussion on [YouTube](https://lnkd.in/dk4-kdQi) (Timeslot: from 2:08:00 to 3:07:00)

### Panelists:

- **Mr. Bashir Lebada**, CEO of OCI Methanol, Egypt.
- **H. E. Leonore Gewessler**, Federal Minster for Climate Action, Environment, Energy, Mobility, Innovation and Technology of Austria.
- **Ms. Eefje Schmid**, Head of Policy and Impact Unit (Strategy and Policy Department), EIB.
- **Ms. Christiane Laibach**, Member of KfW Group’s Executive Board, KfW.
- **Harry Boyd-Carpenter**, Managing Director, Green Economy and Climate Action EBRD.
Green Hydrogen for People and Planet

Where: COP27, UN Egypt Pavilion
Organizers: UNIDO and UNICEF

About:
The event focused on how to drive an inclusive energy transition with green hydrogen in the African Continent. The discussions were centered on integrating environmental and social issues, whereby water used for the production of green hydrogen is not solely used for industrial purposes but also to provide communities with sufficient drinking water and agriculture.

The main takeaways of the event were made with as follows:

- Creating a partnership with multiple stakeholders from public, private sector, research institutions and international organizations is key to address best practices, knowledge on developing environmental and social safeguards for industries and enabling energy and water security in communities.
- Youth is a fabric of society, we need to include youth in dialogue for climate change and educate them with adequate skills and training for green hydrogen developments.

The panel welcomed partner institutions from UNICEF, ACWA Power, GreenLab and the Department of Science Innovation of South Africa.

Moderation:
Ms. Petra Schwager, Chief, Climate Technology and Partnerships Division, UNIDO

Panelists:
- Mr. Tarik Hassan, Climate Change Specialist, UNICEF
- Mr. Dumisani Mthembu, Senior Specialist, Department of Science and Innovation of South Africa
- Ms. Sarah Al Harthey, Executive Manager – Business Development, ACWA Power
- Mr. Christopher Sorensen, Chief Executive Officer, GreenLab
15 November 2022
(Interview panel, participation)

Accelerating Innovation in Green Hydrogen - The Movement

Organizers: UN Climate Change Global Innovation Hub, Future Cleantech Architects

Where: Global Innovation Hub pavilion – Blue Zone C, Pavilion 93, Sharm El Sheikh

About:
The event sought to provide an overview on the current state of the green hydrogen economy and address the most critical gaps in innovation, current measures to overcome them, and the bottlenecks in scaling new green hydrogen solutions.

Panelists:
- Mr. Juan Pablo Davila, Senior Industrial Development Officer, UNIDO
- Ms. Michelle dos Santos Cordeiro Perna, Federal University of São Carlos
- Prof. Sérgio Peres, University of Pernambuco

UNIDO’s Global Programme for Green Hydrogen in Industry was introduced, along with the development of Technical Guidelines for Green Hydrogen Industrial Clusters. UNIDO outlined the importance in comprehensively providing knowledge on industrial policies and infrastructure development for green hydrogen in developing countries.