

## Expert Exchange Event Series

# Promotion of Green Hydrogen in South Africa



As the world urgently searches for solutions to decarbonising the hard-to-abate sectors, there is a current surge of global interest in green hydrogen (H<sub>2</sub>) and green-hydrogen-based Power-to-X (PtX) products. South Africa is characterised by favourable solar and wind energy conditions, significant mineral resources, and existing hydrogen value chains and industries. Thus, green hydrogen offers South Africa many opportunities. The country can both meet its global commitments to carbon reduction as well as export to international off-takers, who are willing to pay a premium price and sign long-term supply agreements to stimulate market development.



Germany, a leader in promoting development of hydrogen technologies, is actively working on various strategies to both drive national use as well as international supply of the electrofuels. The German Federal Ministry for Technical Cooperation (BMZ), through GIZ and the Presidency Department in the South African Government, implements the Green Hydrogen Programme (H<sub>2</sub>.SA) in the country. The overall objective of the programme is to support South African stakeholders from the public and private sectors as well as from civil society organisations in creating favourable regulatory, institutional, and technical framework conditions for a thriving green hydrogen economy. Other initiatives, also supported by the German Government, will provide support in developing the domestic market for green hydrogen.

As part of the GIZ's H<sub>2</sub>.SA programme, 15 events (offered online and in-person) will be hosted in collaboration with the South African National Energy Development Institute (SANEDI). The events will provide excellent opportunities for capacity building, knowledge sharing, networking, and showing international best practices for green hydrogen market development.

Over a period of two years, the event series will cover a wide variety of topics relevant to the hydrogen sector development, including regulatory frameworks, research and innovation, business opportunities, financing, and export potential. The events will be organised in thematic clusters and will bring together decision-makers and practitioners from the public and private sectors, academia, and civil society organisations interested in shaping the green hydrogen economy of South Africa.

The events will take place between **March 2022 and July 2023**. They will combine informative presentations by South African and international hydrogen experts and business representatives with discussion, networking, and exchange opportunities. The events are organised and moderated by our Berlin-based partner Renewables Academy AG (RENAC) in collaboration with SANEDI.

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## Expert Exchange Event Series

### Dates and tentative topics

#### Cluster 1: Strategy Development & Regulatory Framework

Date	Tentative topics	Event type
15 Mar 2022	Geopolitics of the energy transformation: The hydrogen factor	Webinar 1
13 Apr 2022	Governance system and enabling policies	Webinar 2
17 May 2022	Export opportunities and partnerships	Webinar 3

#### Cluster 2: Hydrogen Economy & Private Sector Involvement

Date	Tentative topics	Event type
15 Jun 2022	Pillars of a hydrogen economy in South Africa	Webinar 4
13 Jul 2022	Industrial applications of hydrogen	Webinar 5
23 Aug 2022	Power-to-X value chains   Economic diversification	Webinar 6

#### Cluster 3: Research, Innovation & Training

Date	Tentative topics	Event type
20 Sept 2022	H <sub>2</sub> production technologies   Technical standards/norms	Webinar 7
12 Oct 2022	Hydrogen storage, infrastructure, and H <sub>2</sub> transport	Webinar 8
08 Nov 2022	Skills for (green) hydrogen economy jobs	Webinar 9

#### Cluster 4: Environmental & Social Affairs

Date	Tentative topics	Event type
May 2023	The role of hydrogen in (just) energy transition   RE aspect of H <sub>2</sub>	Webinar 10
Jun 2023	Carbon footprint   Risks and climate benefits of hydrogen	Webinar 11
Jul 2023	Socioeconomic impacts of a green hydrogen economy in South Africa	Webinar 12

#### On-site events in South Africa

Date	Tentative topics	Event type
Mar 2023	Johannesburg - ethylene production with green H <sub>2</sub> , iron and steel, buildings	Workshop 1
Mar 2023	Mogalakwena - mining trucks fuel for diamond, copper, titanium, platinum	Workshop 2
Mar 2023	Saldanha Bay (Industrial Development Zone) H <sub>2</sub> fuel export	Workshop 3