

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 (H₂) 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 (H₂.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 H₂.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.

Contact

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Dates and Topics

Cluster 1: Strategy Development & Regulatory Framework

Date	Topics	Event type
15 March 2022	Geopolitics of the energy transformation: The hydrogen factor	Webinar 1
13 April 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	Topics	Event type
15 June 2022	Pillars of a hydrogen economy in South Africa	Webinar 4
13 July 2022	Industrial applications of hydrogen	Webinar 5
23 Aug 2022	Power-to-X value chains Economic diversification	Webinar 6

Cluster 3: Research, Innovation, Finance & Training

Date	Topics	Event type
20 Sept 2022	H ₂ production technologies, technical standards and norms	Webinar 7
19 Oct 2022	Financing green hydrogen via carbon markets	Webinar 8
08 Nov 2022	Skills for green hydrogen economy jobs	Webinar 9

Cluster 4: Environmental & Social Affairs / Infrastructure

Date	Topics	Event type
17 May 2023	The role of hydrogen in Just Energy Transition and socioeconomic impacts of a green H ₂ economy	Webinar 10
14 June 2023	Hydrogen for climate protection / Climate risks & benefits	Webinar 11
12 July 2023	Hydrogen storage, transport and infrastructure	Webinar 12

On-site events in South Africa

Date	Topics	Event type
14 March 2023	UCT, Cape Town – Research & Strategy	Workshop Lab visit
15 March 2023	Vredendal, Western Cape – Green H ₂ Project Finance	Workshop Site visit
17 March 2023	Pretoria – Commercialisation of the Green H ₂ Value Chain	Workshop