

# PROGRAM



## GREEN HYDROGEN SUMMIT SOUTH AFRICA

**VISIT YOUR  
SOUTHERN AFRICAN  
HYDROGEN HUB -  
POWERING INDUSTRIES  
TOWARDS A NET-ZERO  
ECONOMY**

**16 TO 17 OCTOBER 2023 - CENTURY CITY CONFERENCE CENTRE**

**In Partnership with**



**INFRASTRUCTURE**  
South Africa



Implemented by  
**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH

## ABOUT SOUTH AFRICA'S GREEN HYDROGEN SUMMIT 2023

The first South African Green Hydrogen Summit 2022 put South Africa on the map of project developers as the investment destination of choice, showing South Africa's ambitions and the integration of South African regions. In 2023 we will take the next step – this year the summit will be more international and discussions on production and application of Green Hydrogen and Power to X more concrete. This summit will help to pave the way for the machines on the ground.

Green hydrogen and its associated large scale renewable energy production has the potential to support the expansion of the electricity transmission infrastructure, to add additional renewable energy generation capacity and to support the local development of renewable energy. As such it is a key component of South Africa's future energy mix and features as one of the Big Five Frontiers in the South Africa Investment Strategy. Regional and continental collaboration by African states is key to achieving green hydrogens potential as a vector to reindustrialise South Africa's economy in a manner which is sustainable.

From the 28th to the 30th of November 2022, the Presidency hosted the inaugural South Africa Green Hydrogen Summit (SAGHS) in Cape Town. The SAGHS showcased the country's offering as a large scale, low cost, world class green hydrogen production hub and total value chain investment destination. It put South Africa on the map of project developers as the investment destination of choice, showing South Africa's ambitions and the integration of South African regions.

South Africa is one of the founding members of the Africa Green Hydrogen Alliance (AGHA). AGHA is a voluntary coalition of African countries with significant green hydrogen production potential and seeks to promote continental green hydrogen cooperation. The other founding members of AGHA include Namibia, Kenya, Egypt, Morocco and Mauritania. Senior delegations from the other founding members of AGHA attended the SAGHS 2022 and were provided with a platform to promote their green hydrogen potential. These platforms included dedicated country sessions and the opportunity for their representatives to participate on high level panels.

SAGHS 2022 pronounced on South Africa's solid green hydrogen policy foundation. SAGHS 2023, will build on this and make important announcements around:

1. Progress in finalising the South African Green Hydrogen Commercialisation Strategy;
2. The development of a Northern Cape Province Green Hydrogen Masterplan;
3. Progress in developing the Western Cape and Gauteng Green Hydrogen Strategies; and
4. Cabinet's approval of the South Africa Investment Strategy, which features Green Hydrogen as one of the Big 5 Frontiers being nascent sectors with significant growth and investment potential.

## WEBSITE

For more information visit <https://greenhydrogensummit.org.za/>



**ACCREDITATION - at Bridgewater 1 | ID/Passport Required**  
14-15 Oct, 09h00 – 18h00 | 16 Oct, 08h00 – 18h00 | 17 Oct, 08h00 – 12h00

## DAY 1

**SUNDAY, 15 OCTOBER 2023**

All day	<b>Exhibition Set-Up</b>
08:00 - 18:00	<b>Accreditation</b> - Bridgewater 1 - <i>Passport / ID required</i>
14:00 - 16:00	<b>PRESS CONFERENCE</b> - The Square - <i>[presented by Ministry of Electricity (MoE)]</i>
14:00	<b>Welcome remarks &amp; overview</b> Minister Kgosientsho Ramokgopa, Minister in the Presidency responsible for Electricity
	<b>Outline of MOU to be signed amongst the Eastern Cape, Northern Cape &amp; Western Cape on 16 October 2023</b>
14:10	<b>Message from the Western Cape</b> - Premier Alan Winde
14:17	<b>Message from the Eastern Cape</b> - MEC Mlungisi Mvoko (representing the Premier)
14:24	<b>Message from the Northern Cape</b> - MEC Abraham Vosloo (representing the Premier)
14:31	<b>Green hydrogen panel and progress on the commercialisation strategy</b> Ms Joanne Bate, COO, IDC
14:40	<b>Media Q&amp;A</b>
15:20	<b>Wrap up</b> - Tsakane Khambane
	<b>VVIP DINNER - PRESENTED BY THE THREE CAPE PROVINCES</b> 18h00 - The Cooperage, Anura Estate, Stellenbosch - <b>By invitation only</b>

## DAY 2

**MONDAY, 16 OCTOBER 2023**

06:30 - 09:00	<b>Media Interviews</b> - Media Centre, CCCC Foyer <b>Accreditation (only for international speakers)</b> - Bridgewater 1
09:30 - 09:50	<b>Conference Opening and National &amp; AU anthems</b> - Halls ABC
09:50 - 10:00	<b>Welcoming</b> - Premier Western Cape
10:00 - 10:45	<b>Opening</b> - Context and introduction Minister of Electricity (15 min) <b>Keynote Address</b> - Speech by the President Ramaphosa (30 min)
10:45 - 11:00	<b>Signing Memorandum of Understanding amongst the three provinces of the Eastern Cape, the Northern Cape and the Western Cape</b> <b>Moderated by:</b> Phindile Baleni, Director General in the Presidency Mbulelo Songoni, Director General, Eastern Cape Provincial Government Justice Bekebeke, Director General, Northern Cape Provincial Government Dr Harry Malila, Director General, Western Cape Provincial Government
11:00 - 11:15	<b>Signing Memorandum of Cooperation</b> - with an introduction by Priscillah Mabelane, Sasol Craig Miller, Anglo American Peter van Binsbergen, BMW Priscillah Mabelane, Sasol

## DAY 2

11:15 – 12:15

### High Level Panel

**Moderator:** Masopha Moshoeshe, The Presidency, South Africa

**Panellists:** Dr Kgosiensho Ramokgopa, Minister in the Presidency responsible for Electricity, SA  
Dr Phil Mjwara, Director General of the Department of Science and Innovation, SA  
Dr Blade Nzimande, Minister of Higher Education, Science & Innovation, SA (tbc)  
Tom Alweendo, Minister of Mines and Energy, Namibia (tbc)  
Priscillah Mabelane, Sasol  
Craig Miller, Anglo American  
Peter van Binsbergen, BMW

12:15 - 13:30

### LUNCH - HOSTED BY SIEMENS ENERGY

13:30 - 14:30

PANEL 1 (Hall A) - *[Presented by Infrastructure South Africa (ISA)]*

### Hydrogen Tank Project Pitching 1 (ongoing format through both days)

**Moderator:** Flo Letoaba

1. Hive Ammonia
2. Atlanthia
3. Hyphen

PANEL 2 (Hall B) - *[Presented by Department of Trade Industry and Competition (DTIC)]*

### The Green Hydrogen Commercialisation Strategy – a national strategy for South Africa

**Moderator:** Meta Mhlarhi, Mahlako

**Panellists:** Joanne Bate, IDC

Mike Levington, Hydregen  
Tobias Bischoff Niemz, Enertrag  
Jonathan Debasc, Engie  
Colin Loubser, Hive Energy Africa  
Tandokazi Nquma-Moyo, Transnet National Ports Authority

COUNTRY SESSION 1 (Hall C) - *[Africa Green Hydrogen Alliance]*

### Africa Green Hydrogen Alliance

**Moderator:** Tšepiso Makwetla

**Panellists:** James Mnyupe, Office of the President, Namibia

Khroumbaly Lehbib, Ministry of Petroleum, Mines and Energy, Mauritania  
Masopha Moshoeshe, The Presidency, South Africa  
Eric Mwangi, Advisor, Executive Office of the President, Kenya  
Joyce Kabui, Africa Green Hydrogen Alliance

ROOM 8 & 9 - *[Presented by Infrastructure South Africa/Industrial Development Corporation (IDC)]*

### Technology track by selected companies - (3 companies \*20 min)

**Moderator:** Sandile Peta, ISA

1. Isondo Precious Metals (MEA)
2. Bambili Hyplat
3. Siemens Energy

ROOM 10 - *[presented by International PtX Hub, World Bank & German Development Cooperation]*

### Knowledge bits & practice tools

**Moderator:** Johannes Arndt, International PtX Hub

- **Major trends in maritime transport - opportunities for H2**  
Rico Salgmann, World Bank  
Thomas Roos, CSIR
- **Green bunker fuels made in South Africa: Pre-feasibility work in two port locations**  
Gary M. Hopkins, PRDW  
Willem Slendebroek, MTBS

## DAY 2

ROOM 11 - *[Presented by German Development Cooperation (GIZ)]*

### **Standards and certifications – current developments**

**Moderator:** Thobeka Mchunu, GIZ

**Panellists:** Mmakgabo Maheya, South African Bureau of Standards  
Hendrik Louw, Department of Forestry, Fishery and Environmental (DFFE)  
Dr Eino Mvula, Namibian Standards Institution  
Roberto Cecutti, EU Delegation to South Africa  
Laurens Cloete, Rebel Group Advisory South Africa  
Thomas Frohn, TÜV Süd

### 14:30 - 15:15 **Exhibition and Coffee Break**

15:15 - 16:15 PANEL 3 (Hall A) - *[Presented by Infrastructure South Africa]*

### **Hydrogen Tank Project Pitching 2**

**Moderator:** Flo Letoaba

1. Upilanga Solar and Green Hydrogen Park
2. HDF Energy Renewable Energy
3. Phelan Hydrogen

PANEL 4 (Hall B) - *[Presented by NC, WC, EC provincial governments]*

### **The Southern African GH2 corridor from South Africa to Namibia**

**Moderator:** Tšepiso Makwetla

**Panellists:** Justice Bekebeke, Northern Cape Provincial Government  
Dr. Harry Malila, Western Cape Provincial Government  
Mbulelo Sogoni, Eastern Cape Provincial Government  
Representative, Namibia

COUNTRY SESSION 2 (Hall C) - *[presented by European Union Delegation to South Africa]*

### **Unlocking Green Hydrogen for sustainable growth: the collaboration between Team Europe and South Africa**

**Moderator:** Nzinga Qunta

**Panellists:** Fulgencio Garrido Ruiz, Delegation of European Union to the Republic of South Africa  
Dr Jürgen Friedrich, German Federal Ministry for Economic Affairs and Climate Action  
Yvette Eechoud, Ministry of Foreign Affairs Kingdom of The Netherlands  
Mathias Bogaert, Consulate of Belgium in Cape Town  
Sophie Bel, Consulate of France in Cape Town  
Nadège Hopman, European Investment Bank

ROOM 8 & 9 - *[Presented by Infrastructure South Africa/Industrial Development Corporation]*

### **Technology track by selected companies - (3 companies \*20 min)**

**Moderator:** Representative, ISA/IDC

4. Mitochondria
5. Transnet
6. Bosch

ROOM 10 - *[presented by International PtX Hub and German Development Cooperation]*

### **Knowledge bits & practice tools**

**Moderator:** Medinah Willies, International PtX Hub

- **Green hydrogen export potential of South Africa: a spatial atlas**  
Luanita Snyman-Van der Walt, CSIR
- **Carbon sources availability and utilization in South Africa: a demand & supply analysis**  
George Vourliotakis, Exergia

ROOM 11 - *[Presented by Transnet National Ports Authority]*

### **Sustainable hydrocarbons for future fuels in Aviation & Maritime**

**Moderator:** Prof Nico Fischer, Catalysis Institute at the University of Cape Town

**Panellists:** Noluthando Sasekile, Transnet National Ports Authority  
Dumisani Nkala, Sasol  
Evans Itai Mabaso, Petro SA

## DAY 2

All day

Exhibition

**NETWORKING RECEPTION: PRESENTED BY SIEMENS ENERGY - The Square**

## DAY 3

TUESDAY 17. OCTOBER 2023

07:00 - 09:00 **WOMEN IN GREEN HYDROGEN AND WOMEN IN ENERGY BREAKFAST (BY INVITATION ONLY)  
PRESENTED BY GIZ - The Urban Square Hotel**

07:00 - 09:00 **WELCOME BREAKFAST HOSTED BY GENESIS ENERGY**

09:15 - 10:15 **PANEL 5 (Hall A) - [Presented by Infrastructure South Africa]  
Hydrogen Tank Project Pitching 3**  
**Moderator:** Flo Letoaba

1. Prieska
2. CWP
3. Wildcard

**PANEL 6 (Hall B) - [Presented by Department of Trade Industry and Competition/CDC]  
Provincial strategies and special economic zones - drivers for the green hydrogen revolution**

**Moderator:** Matthew Cullinan, Atlantis SEZ

**Panellists:** Witness Mokwana, Gauteng Department of Economic Development

Nomathemba Kgorane, Sasol

Kaashifah Beukes, Freeport Saldhana

Hendrik Louw, Northern Cape Economic Development Agency

Vuyokazi Gwabeni, Coega SEZ

**COUNTRY SESSION 3 - Netherlands - (Hall C)**

**Moderator:** Ipeleng Selele, RSS Green Mobility

**Panellists:** Jorg Gigler, Energy Innovation NL | TKI New Gas

Monica Swanson, Port of Rotterdam

Marco Raffinetti, Hyphen Africa

Asanda Xawuka, Business Development COEGA

Ulco Vermeulen, Gasunie

**ROOM 8 & 9 - [Presented by Industrial Development Corporation]**

**Project finance – green money for green molecules**

**Moderator:** Rian Coetzee, IDC

**Panellists:** Ryno Verster, KfW IPEX

Bekele Debele, World Bank

Shaheed Alli, DBSA

Sebastian Surie, Climate Fund Managers

Benji Mothibedi, Hive Hydrogen / Built Africa

Akinwale Omoboriowo II, Genesis Energy Group

**ROOM 10 - [presented by GIZ]**

**Knowledge bits & practice tools**

**Moderator:** Marvelous Sibuyi, GIZ

- **Engaging with civil society**  
Dinga Sikwebu, Heinrich Böll Foundation South Africa
- **A community development tool kit for developers**  
Patrick Lakabane, Freeport Saldanha

## DAY 3

09:15 - 10:15 ROOM 11 - *[Presented by Department of Science and Innovation]*  
**African green hydrogen innovations**  
**Moderator:** Rebecca Maserumule, DSI  
**Panellists:** Dr Phil Mjwara, DSI (tbc)  
Fahmida Smith, Anglo American  
Nienke Homan, Impact Hydrogen  
Vivien Naidoo, Turner & Townsend  
Dr Shanil Batohi, Isondo Precious Metals

10:15 - 11:00 **Exhibition and Coffee Break**

11:00 - 12:00 PANEL 7 (Hall A) - *[Presented by Infrastructure South Africa]*  
**Hydrogen Tank Project Pitching 4**  
**Moderator:** Flo Letoaba  
1. Northern Cape Green Hydrogen Master Plan (NCEDA)  
2. Wildcard

PANEL 8 (Hall B) - *[Presented by Transnet National Ports Authority]*  
**South African ports' roles as hubs of a global PtX economy**  
**Moderator:** Nzinga Qunta  
**Panellists:** Tauqeer Ahmed, Transnet National Ports Authority  
Rico Salgmann, The World Bank  
Sobantu Tilayi, SAMSA  
Mthunzi Madiya, Department of Transport  
Thomas Roos, CSIR

**COUNTRY SESSION 4 - Namibia** - (Hall C)  
**Namibia-SA Collaboration Session**  
**Moderator:** Tšepiso Makwetla  
**Panellists:** James Mnyupe, Office of the President, Namibia  
Marco Raffinetti, Hyphen Africa  
Benedict Libanda, Environmental Investment Fund  
Ipeleng Selele, RSS Green Mobility  
Masopha Moshoeshe, The Presidency, South Africa  
Hendrik Louw, Northern Cape Economic Development Agency

ROOM 8 & 9 - *[presented by Freeport Saldanha supported by DFFE]*  
**Future steel: Paving the Way for Environmental Transition and Value Enhancement**  
**Moderator:** Kaashifah Beukes, Freeport Saldanha  
**Panellists:** Umeesha Naidoo, IDC  
Joseph Cordonnier, OECD  
Juan Pablo Davila, UNIDO  
Pierre Steyn, ArcelorMittal

ROOM 10 - *[presented by International PtX Hub & German Development Cooperation]*  
**Knowledge bits & practice tools**  
**Moderator:** Frank Münk, International PtX Hub  

- **Identifying promising PtX value chains: Business Opportunity Analyser**  
Zaffar Hussain, Agora Energiewende
- **PtX production and application in South Africa: Modelling allocation scenarios**  
Jochen Bard, Fraunhofer IEE

## DAY 3

ROOM 11 - *[Presented by the Department of Science and Innovation]*

### **SMMEs and tech-startups in the South African GH2 value chain: Measures to support and enhance participation**

**Moderator:** Simon van Wyk, Deloitte

**Panellists:** Itumeleng Kgomo, EPCM

Mlibo Yokwe, Hydrofuel Solutions

Nick Allen, SAVANT

Marc Dunnink, Research Institute for Innovation and Sustainability

Dr Theoneste Uhorakeye, GFA Group

Sharon Becker, Impact Hydrogen

12:00 - 13:30

### **LUNCH - HOSTED BY ENGIE**

13:30 - 14:30

PANEL 9 (Hall A) - *[Presented by Infrastructure South Africa]*

### **Hydrogen Tank Project Pitching 5**

**Moderator:** Flo Letoaba

1. OMNIA

2. Talus Renewables, Kenya

PANEL 10 (Hall B) - *[Presented by Ministry of Electricity]*

### **Green Hydrogen as an enabler for energy security**

**Moderator:** Silas Zimu, Ministry of Electricity

**Panellists:** Hendrik Louw, Northern Cape Economic Development Agency

Muhammed Patel, TIPS

Mercia Grimbeek, Enertrag

Aradhna Pandarum, The Impact Catalyst

### **COUNTRY SESSION 5 - Belgium - (Hall C)**

**Moderator:** Nobuhle Ncube, Brightwolves

**Panellists:** H.E. Mathias Bogaert, Consul General of Belgium in Cape Town

Davine Janssen, Belgian Hydrogen Council

Stephan Gobert, Engie

Geert Heytens, DENYS NV

André Olaerts, SolHyd

Juan Luis Agarrado, 3E

ROOM 8 & 9 - *[presented by DTIC]*

### **Fuel cells for clean land transport**

**Moderator:** Zanele Mbatha, Bambili Energy

**Panellist:** Anton Smalberger, Toyota SA

Ipeleng Selele, RRS Green Mobility

Prakashim Moodliar, Anglo American

Deena Govender, BMW

Audrey Ma, Refire

Beth Dealtry, NAACAM

ROOM 10 - *[presented by German Development Cooperation]*

### **Knowledge bits & practice tools**

**Moderator:** Marlett Balmer, GIZ

- **Financing green hydrogen; landscape overview and key findings**

Belynda Petrie, OneWorld

- **Introduction to a dynamic levelized cost of PtX (LCOX) calculation tool**

Dr Theoneste Uhorakeye, GFA Group

Ali Habib, Consultant, GFA Group



## DAY 3

ROOM 11 - *[Presented by GIZ]*

### **Sharing the benefit - how communities can participate**

**Moderator:** Tšepiso Makwetla

**Panellist:** Holle Wlokas, Initiative for Social Performance in Renewable Energy

Avena Jacklin, groundWork

Shawn Modise, NCEDA

Patrick Lakabane, Freeport Saldanha

Kalnisha Singh, KD strategies

Lauren Hermanus, How we adapt (tbc)

Dinga Sikwebu, Heinrich Böll Foundation South Africa (tbc)

Melissa Fourie, Centre for Environmental Rights/PCC (tbc)

Nuchey van Neel, WoMin (tbc)

Melissa Fourie, climate lawyer and civil society commissioner on the Presidential Climate Commission

### 14:30 - 15:15 **Exhibition and Coffee Break**

15:15 - 16:15 PANEL 11 (Hall A) - *[Presented by Infrastructure South Africa]*

### **Hydrogen Tank Project Pitching 6**

**Moderator:** Flo Letoaba

1. Wildcard
2. RRS Green Mobility
3. GEFP Green Methanol

PANEL 12 (Hall B) - *[Presented by Department of Mineral Resources (DMRE)]*

### **Minerals for the Green Economy**

**Moderator:** Prof Sampson Mamphweli, SANEDI

**Panellists:** Xolani Xaba, Toyota

Peter Venn, Seriti Green

Thabo Kekana, DMRE

Dr Cosmos Chiteme, DSI

Louise Paulsen, SASOL

Stan Pillay, Anglo American

### **COUNTRY SESSION 6 - Japan - (Hall C)**

### **Hydrogen and Ammonia – Key to Energy Transition and Japan’s Strategy**

### **Public Sector Support: “Unlocking the two countries’ collaboration”**

**Moderator:** Nzinga Qunta

**Panellists:** H.E. Shigeru Ushio, Japanese Ambassador to South Africa

Tatsunori Matsubara, Japan Bank for International Cooperation

Manabu Sugioka, SJapan International Cooperation Agency

Shintaro Matoba, Japan External Trade Organization

### **Panel Discussion by Private Sector : “What is possible with Japanese technologies in the context of South Africa?”**

**Panellists:** Toshihiro Matsuo, Itochu Corporation

Naoki Okumura, Mitsubishi Power Africa / Mitsubishi Heavy Industries

Mark Sherratt, Mitsubishi UFJ Financial Group

ROOM 8 & 9 - *[Presented by Department of Public Works and Infrastructure (DPWI)]*

### **Hydrogen ready infrastructure for South Africa - about pipelines, railways, trucks and beyond**

**Moderator:** Kameshini Pathar, Transnet

**Panellists:** Tauqeer Ahmed, Transnet National Ports Authority

Russell Bradbrooke, Transnet Pipelines

Paul Lochner, CSIR

## DAY 3

ROOM 10 - *[presented by German Development Cooperation]*

### **Knowledge bits & practice tools**

**Moderator:** Pinky Radebe, GIZ

- **Electrolyser and fuel cells: a market overview**  
Steven Hofmann, GIZ
- **H2Desal – A Desalination Decision Support Tool for Green Hydrogen Developers**  
Rudolph Retief, Impact Water Solutions

ROOM 11 - *[presented by Department of Trade Industry and Competition]*

### **Cleaner, Greener, Stronger: Harnessing Hydrogen for Sustainable Ammonia and Chemicals**

**Moderator:** Gerhard Fourie, DTIC

**Panellists:** Rightwell Laxa, Sasol  
Slindile Ngcobo, IDC  
Adinda Preller, Phelen Energy  
Representative, OMNIA

16:15 - 16:45 **Exhibition and Coffee Break**

16:45 - 17:30 **High Level Closing Remarks**  
**Moderator:** Nzinga Qunta

**CLOSURE**