

Global African Hydrogen Summit #GAH2S 3 – 5 September 2024 Safari Conference Centre Windhoek, Namibia



Ministry of Mines & Energy

Endorsed By

Strategic Partner

#GAH2S gah2s.com

# Fuelling Africa's Green Industrial Revolution

**Strategic Conference Programme** 





# Investing Today, In Africa's Energy Of Tomorrow



**6.** The Global African Hydrogen Summit will be the first platform of its kind to be leveraged by African governments, by investors, financiers, scholars and the public. In order to unlock additional opportunities for our continent and its partners, it will also provide a platform for the global players in the hydrogen value chain to showcase their projects, their plans and technologies to the African continent. **??** 

**Hon. Tom Alweendo** Minister of Mines & Energy Republic of Namibia





# **Global African Hydrogen Summit Overview**

## Pre-Summit Masterclasses

Fully **CPD accredited**, the Pre-Summit Masterclasses will provide attendees with the **practical skills** in the hydrogen and renewable energy sectors which they can then apply to their day job.

## Leadership Roundtables

The Global African Hydrogen Summit will feature high level, closed-door, invitation-only, Leadership Dialogues. This series of meetings under Chatham House Rule will gather selected Ministers, C-level executives and policymakers to foster transformative thinking that will shape the future of the most critical energy challenges being faced by the industry.

## Strategic Conference

As the Global African Hydrogen Summit embarks on a transformative journey into the future of energy, the **Strategic Conference** will shape and frame the critical dialogue that will position Africa at the forefront of that transformation. Heads Of State

**70**+

African & Global Ministers

100 Youth Participants

115+

**Expert Industry Speakers** 

2,000+

Attendees

125+ Global Exhibitors

Project Investment Roundtables

At the heart of the Global African Hydrogen Summit is the mission to drive **critical investments and financing into bankable green energy projects** across Africa. From origination through to bankability to transaction, the **Project Investment Roundtables** aim to accelerate deal-making to financial close.

## International Exhibition

As a catalyst for change, the International Exhibition will push the boundaries of what's possible as we bring together key players committed to driving operational efficiency, cost optimization, and sustainability in mega projects across the hydrogen and renewable energy value chains.

## **Innovation H2ub**

This energised platform serves as a dynamic spotlight for the **trailblazers in hydrogen innovation**, bringing together visionary entrepreneurs, industry experts, and savvy investors in a riveting and dynamic setting.

40+ Bankable African Green Energy Projects

65+ Global Countries

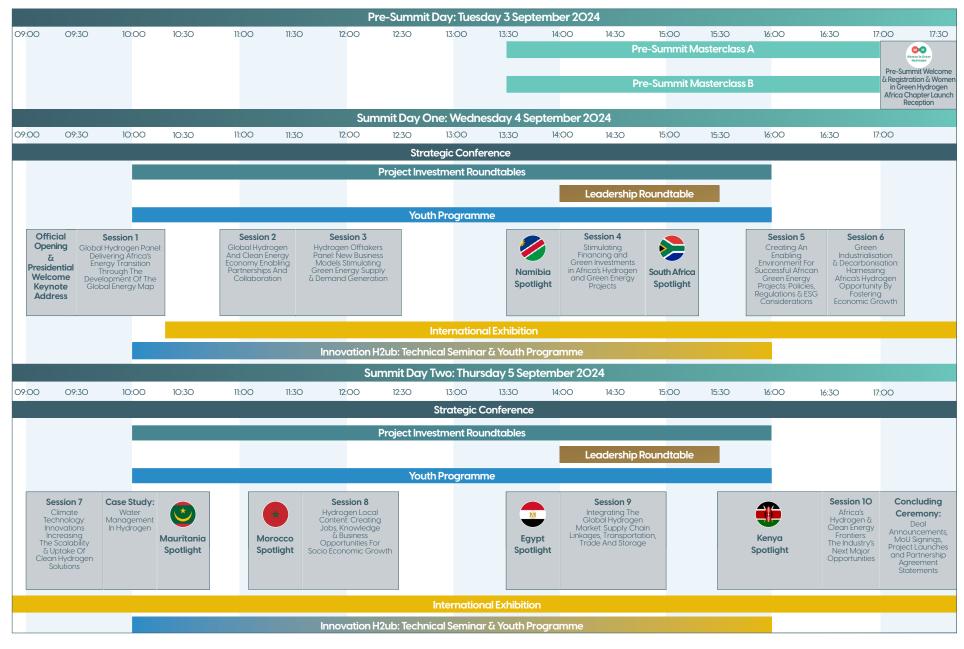
Represented

700+ Conference Delegates

Green Energy Awards



# **Global African Hydrogen Summit At A Glance**



## **Strategic Conference Overview**

Connecting the energy industry to ignite transformative thought leadership. Held under the theme **From Ambition To Action: Fuelling Africa's Green Industrialisation,** the Strategic Conference will present transformative thought leadership and insights from the minds of heads of government, industry leaders, technology experts and energy pioneers to advocate, showcase and communicate the case for hydrogen and renewable energies as underpinning solutions to both a lower carbon energy system and the blueprint for a green industrial economy.





# Heads Of State, Ministers, CEOs & Industry Leaders Confirmed To Speak Include



**His Excellency** Nanaolo Mbumba Gervais Ndirakobuca President of the Republic Prime Minister of Namibia **Republic of Burundi** 



Hon. Tom Alweendo Minister of Mines and Energy **Republic of Namibia** 



Hon. Kornelia Shilunga Deputy Minister of Mines and Energy **Republic of Namibia** 

**Chris Movirongo** 

Country Manager -

Namibia

Fortescue



Climate Action, Germany

Dr. Dan Marokane

Group Chief Executive

ESKOM

Hon. Michael Kellner Parliamentary State Secretary Federal Ministry for **Economic Affairs and** 

Hon. Jochen Flasbarth State Secretary Federal Ministry for **Economic Cooperation** and Development, Germany

Simson Haulofu

Managing Director

Namibia Power

Corporation

NamPower)

Energy



Hon. Emile Oousso Minister of Energy and Hydraulics Republic of Congo



Hon. Ibrahim Uwizeye

Abraham Nehemia

Chief Executive Officer

NamWater





Hon. Johannes !Gawaxab Governor **Bank of Namibia** 



Marco Raffinetti

Energy



Hon. Cllr. Phillippus Albertus Balhao Mayor of Luderitz Namibia



Dr. Hauke Engel

Partner

McKinsey & Company

Laurent Coche Chief Executive Officer Chariot Green Hydrogen



Margalita Arabidze

Head of Energy Efficiency

and Renewable Energy

Policy and Sustainable

Development Department

Ministry of Economy and Sustainable Development of Georgia

Todd Cartwright Chief Commercial Officer Nel Hydrogen



Nangula Nelulu Uaandja Desmond van Jaarsveld Chief Executive Officer Chief Executive Officer Namibia Investment Promotion and

**Development Board** 

**Edward Kalajzic** 

President Africa

Fortescue



**Richard Kiplagat** Chairman AHP Advocacy Taskforce African Hydroaen Partnership Group Chief Commercial Officer & MD Fast Africa

Africa Practice

James Mnyupe Presidential Economic Advisor and Head of Programme Namibia Green Hydrogen Programme (NGH2P)



**Dr. Daniel Frank** Senior Advisor Water Management DECHEMA e.V. **United Nations Industrial** Development

Partnership Division



Petra Schwager Chief of the Climate and Technology



SADC Centre for Renewable **Energy and Energy** Organization (UNIDO) Efficiency (SACREEE)

Corporate Strateav KSB SE & Co. KGa





Jonas Moberg Chief Executive Officer **Green Hydrogen** 

Minister of Hydraulics. Eneray & Mines **Republic of Burundi** 





**Benedict Libanda** 

Chief Executive Officer Chief Executive Officer Environmental Hyphen Hydrogen Investment Fund of Namibia (EIF)



Iyaloo Akuaake Namibia Country Coordinator Women in Green Hydrogen (WiGH) Africa



**Toni Beukes** Head of Environment Social & Governance Hyphen Hydrogen





Oraanisation



Andrew Kanime

Chief Executive Officer

Namibian Ports Authority

(NamPort)



Jerome Namaseb



Chief Executive Officer Daures Green Hydrogen Village

Margaret Mutschler CWP Global & Representative



6 | Global African Hydrogen Summit

Gavin Thompson

Vice Chair, EMEA

WoodMackenzie



















Regional Vice President, Development Director for Africa **Green Hydrogen Association** of Namibia (NamGHA)







# **Pre-Summit Masterclasses**

### **Tuesday 3 September 2024**

- 13:30 Masterclass A Hydrogen, Ammonia and Industrialisation: Projects, Developments, Certification and Standards
- What are the hydrogen and ammonia project options for Namibia and the African continent?
- Green hydrogen opportunities to industrialise the continent: scalling up current and future projects
- Harmonising hydrogen certification and standards across
   the globe and the value chains
- Ammonia as a promising and environmentally friendly fuel
- What interventions can African countries take to lower the cost of financing for green hydrogen projects to make them more competitive?
- Energy carriers development projects: exports, certification, standards and hydrogen trade
- Overcoming Africa's real challenge of attracting capital and scaling its green hydrogen industry
- Regulations, legal and fiscal frameworks for hydrogen and green ammonia projects
- Ammonia as a key component to diversify the economy:
- Fertilisers, energy carriers, a source for fuel cells and others
- Global and regional collaboration to develop ammonia in country:
- Mobility, freight, shipping, power, chemicals

For Summit Delegate Enquiries: William Shilamba, Delegate Sales Manager info@gah2s.com, +264 812 318 744 (Namibia) Masterclass B - Local Content in Hydrogen Projects: Adding Value for Businesses and Citizens

- Local Content strategies: supporting and creating a thriving environment for local companies
- Certification, standards, compliance and procurement in the energy value chain
- How can Namibian and African companies access funding and be a full part of the energy industry?
- How can the Government and private sector work together to create this enabling environment?
- Financing SMEs and local companies: buying local goods
   and services
- Financing, certification and qualification: how to align the different elements for local companies to be part of the energy sector
- Investments required to move forward with existing and future projects with local companies

#### 17:30 End of Masterclasses



Pre-Summit Welcome & Women in GreenHydrogen(WiGH) Africa Chapter Launch ReceptionCo-Hosted by Women in Green Hydrogen (WiGH) &GAH2S. Venue: Avani Windhoek Hotel & Casino.







# Summit Day 1

## Wednesday 4 September 2024

- 08:00 Registration & Welcome Coffee
- 09:00 Official Opening of Summit

#### Inspirational Keynote Address

- 09.00 Presidential Welcome Keynote Address His Excellency Nangolo Mbumba President of the Republic of Namibia
- 09:15 Session 1: Global Hydrogen Panel: Delivering Africa's Energy Transition Through The Development Of The Global Hydrogen Sector

#### Speakers:



#### Hon. Tom Alweendo Minister of Mines and Energy Republic of Namibia



#### Hon. Michael Kellner ParliamentarySecretary of State

Federal Ministry for Economic Affairs and Climate Action, Germany

- 10:15 Guest of Honour Official Exhibition Opening & Tour & Networking Coffee Break
- 10:45 Session 2: Global Hydrogen Economy Panel: Enabling Partnerships And Collaboration Between Government And Private Sector
- Partnership creation for the development of the global hydrogen market, i.e. government and private sector, G2G, G2B and B2B partnerships, financiers, business, country partnerships, private sector, academia and communities
- Scalability: scaling up African hydrogen projects to meet continental and global production ambitions
- Harmonising global hydrogen standards by developing sound regulations, policies and frameworks
- Bringing together African producers and global offtakers

- Tearing down trade barriers for hydrogen intra-regional and global trade
- Ramping up implementation of the African Continental Free Trade Area (AfCFTA)
- Working towards worldwide certification, integration and harmonisation of the hydrogen sector

#### Speakers:





#### Edward Kalajzic President Africa Fortescue

- 11:30 Session 3: Hydrogen Offtakers Panel: New Business Models Stimulating Green Energy Supply, Demand Generation
- Developing Namibia and Africa's sustainable energy value chain: oil, gas, LNG, renewables, hydrogen and green ammonia
- Major African hydrogen projects outlook accelerating global hydrogen generation: Major African hydrogen projects outlook
- Government and private sector working together
   ensuring projects are competitive and cost effective
- Green hydrogen and renewables developments: Solar, Hydro, Wind, Geothermal
- New hydrogen business models for the African continent
- The role of blue hydrogen projects in Africa: projects, feasibility, timelines
- Hydrogen operational models: building frameworks in the hydrogen sphere
- Increasing global energy demand matching hydrogen
  production ambitions



Jonas Moberg, Chief Executive Officer, GreenHydrogen Organisation

Moderator:

#### Speakers:



Dr. Hauke Engel Partner ΜcKinsey & Company

#### 12:30 Networking Lunch

#### :30 Namibia Spotlight Sessic

- Leapfrogging carbon-intensive industrialisation straight to a low-carbon industry
- Namibia's "Vision 2030: Key hydrogen and green energy project pipeline
- Socio-economic impacts and strategies for industrialization
- Global and continental partnerships to implement the vision
   and low carbon economies

#### Speakers:



**His Worship, Hon. Cllr. Phillippus Albertus Balhao** Mayor of Luderitz **Namibia** 



Marco Raffinetti Chief Executive Officer Hyphen Hydrogen Energy

- 14:00 Session 4: Financing Panel: Stimulating Green Investments in Africa's Hydrogen and Renewable Energy Projects
- The pivotal role that finance plays in the development of hydrogen and clean energy projects
- What are the latest innovative financial mechanisms to ensure access to credit?
- Sovereign Wealth Funds: utilising hydrogen and new energy production revenues for the benefit of nations: global case studies
- Government strategies and support to attract investment
   into the hydrogen industry
- Bringing hydrogen cost production down: Building bankable green energy projects



- Project financing commercially viable hydrogen projects in Africa and across the globe
- Regulations, policies, fiscal and legal framework creating an enabling environment for financing and global investments in hydrogen
- Infrasctructure investments and financing: what needs to be in place for African projects to take off?
- Special Economic Zones: tax incentives to attract talent. technology, innovation and investments to energy hubs
- How can hydrogen projects in Africa attract financing and investment in a global market where lower risk rich nations that have both a lower cost of financina and the resources to financially subsidise the establishment of their industries?

#### Speakers:



Hon. Jochen Flasbarth State Secretary

Federal Ministry for Economic Cooperation and **Development, Germany** 



Johannes !Gawaxab Governor **Bank of Namibia** 



#### Nangula Nelulu Uaandja Chief Executive Officer Namibia Investment Promotion and Development Board



#### **Benedict Libanda**

Chief Executive Officer **Environmental Investment Fund of Namibia (EIF)** 

#### 14:45 South Africa Spotlight Session

- Hydrogen, renewables and power production and developments in South Africa
- Partnerships between South Africa and Namibia: The Southern Energy Corridor integration and sharing common resources
- The opportunity for South Africa to decarbonise and boost its industrialization strategy
- Boosting the electricy sector through hydrogen synergies
- Enacting the Energy Action Plan (EPA): a transformational opportunity for the country

#### Speakers:



Dan Marokane Group Chief Executive ESKOM



Nicolas Lecomte Regional Vice President, Southern and East Africa **HDF Energy** 

15:15 Networking Coffee Break

- 15:45 Session 5: Creating An Enabling Environment For Successful African Green Energy Projects Panel: Policies, Regulations And ESGs Considerations
- Designing and implementing sound policies and regulations to attract investments into the hydrogen sector
- Hydrogen and renewable energy production legal and fiscal frameworks: applicable lessons from other sectors
- Industrial policy making and key support schemes to ensure the scability of hydrogen projects
- ESG considerations and environmental policies and regulations in the hydrogen value chain
- Collaboration and partnerships between Government and private sector

#### Moderator:

Richard Kiplagat, Group Director and MD East Africa, Africa Practice & Chair, Advocacy Taskforce, African Hydrogen Partnership

#### Speakers:



Kudakwashe (Kuda) Ndhlukula **Executive Director** 

SADC Centre for Renewable Energy and Energy Efficiency (SACREEE)

16:30 Session 6: Green Industrialisation & Decarbonisation Panel: Harnessing Africa's Hydrogen Opportunity By Fostering Economic Growth

What are the key drivers and fundamentals for Africa's green industrialisation? What is the role of hydrogen and renewables?

- What are the challenges faced by the industrial sectors with regards to converting facilities to utilise oil, gas, LNG, hydrogen, renewables as a fuel?
- Hydrogen and mobility: Aviation, Trucks, Trains and other transportation
- Fertilizers, methanol, plastics: How hydrogen will diversify the economy and create jobs
- Connecting hydrogen projects through the Southern African Power Pool
- Developing critical hydrogen infrastructure to accelerate Africa's green industrialisation
- . Hydrogen as a critical tool to decarbonize hard to abate sectors: Mining, Steel, Cement and more.
- Industrial applications through green hydrogen solutions and other sectors such as fertilizers



#### Moderator:

Margaret Mutschler, Development Director for Africa, CWP Global & Representative, Green Hydrogen Association of Namibia (NamGHA)

#### Speakers:



#### **James Mnyupe**

Presidential Economic Advisor and Head of Programme Namibia Green Hydrogen Programme (NGH2P)



Simson Haulofu Managing Director Namibia Power Corporation (NAMPOWER)



Laurent Coche Chief Executive Officer **Chariot Green Hydrogen** 



Petra Schwager Chief of the Climate and Technology Partnership Division United Nations Industrial Development Organization (UNIDO)

17:15 End of Summit Day 1 Namibian Cultural Evening: Gala Dinner & Awards (if sponsored)



## Summit Day 2 Thursday 5 September 2024

#### 08:00 Welcome Coffee

- 09:15 Session 7: Climate Technology Panel: Innovations Increasing The Scalability And Uptake Of Clean Hydrogen Solutions
- Latest developments and technological advances in the energy industry
- Investments and innovation opportunities in Africa's hydrogen projects
- Digitalization in hydrogen and low carbon solutions
- Ammonia: maximing the hydrogen carrier opportunity
- + Catalysing R&D developments to boost hydrogen project implementation
- Electrolysers: a critical technology for producing lowemission hydrogen
- Al: what role can it play in hydrogen and renewable production, deployment and global value chains formation?
- Considering cost externalities within CAPEX and OPEX projections

#### **Speakers:**



#### Gavin Thompson Vice Chair, EMEA WoodMackenzie



Todd Cartwright Chief Commercial Officer Nel Hvdrogen



Ulrich Stahl Corporate Strategy KSB SE & Co. KGa

#### 09:45 Water Management In Hydrogen Case Study

- Water as a critical feedstock in hydrogen production:
   opportunities and challenges
- Desalinisation , innovation and technology in green hydrogen projects
- Sustainable water management in water stressed
  geographies: overcoming the challenges and implementing
  global best practices
- Limitations on water availability caused by supply or water infrastructure: innovative solutions from key projects around the world

#### Speakers:



Abraham Nehemia Chief Executive Officer NamWater



Dr. Daniel Frank Senior Advisor Water Management DECHEMA e.V

#### 10:05 Mauritania Spotlight Session

- Positioning Mauritania as a global hydrogen hub: Government and private sector
- Renewable energy projects development
- Green hydrogen applications: Green Steel and Green Iron Ore
- The global markets, applications and solutions for Mauritania's hydrogen production

#### 10:35 Networking Coffee Break

#### 11:05 Morocco Spotlight Session

- Key hydrogen projects in Morocco: a future exporter at the doorstep of a major offtaker (Europe)
- The green ammonia plant with future output of 1.4 million tonnes per annum
- How hydrogen will allow Morocco to decarbonize, industrialize and create national added value to its economy

- 11:35 Session 8: Hydrogen Local Content Panel: Creating Jobs, Knowledge And Business Opportunities For Socio Economic Growth
- How can Local Content add value to the economy and population?
- What is being implemented on the ground at the moment? What tenders have been made and what is the current status?
- What are international companies implementing to raise competition locally? How can the quality of local suppliers be increased?
- · Matching the needs of contractors to the current skills on offer
- Building hydrogen's future leaders and nurting talent in hydrogen's industry landscape
- Knowledge and technology transfer: Capacity building for socio economic growth and development
- How can Namibia and South Africa collaborate to promote local content implementation best practices: lessons from wind and solar case studies
- SMEs integration and opportunity creation in hydrogen value chain
- Socio economic growth and impact: the social license to operate hydrogen projects

#### Speakers:

 $\checkmark$ 



Toni Beukes Head of Environment, Social & Governance Hyphen Hydrogen Energy



Chris Movirongo Country Manager – Namibia Fortescue



Jerome Namaseb Chief Executive Officer Daures Green Hydrogen Village





#### 13:30 Egypt Spotlight Session

- National Strategy for Green Hydrogen: attracting investments
   and implement the Government's vision
- Critical hydrogen projects and the potential for maritime industry: Suez Canal Hydrogen Hub
- Bunkering, storage and creating jobs and businesses opportunities in country through hydrogen developments
- Special Economic Zones (SEZ): Egypt's case study and
   applicable lessons to the continent
- 14:00 Session 9: Integrating The Global Hydrogen Market Panel: Supply Chain Linkages, Transportation, Trade And Storage
- Green ammonia development as an opportunity for Namibia and a catalyst for renewable energy investments
- Blue hydrogen developments and projects in Africa: an opportunity for the continent
- Hydrogen and mining: The synergies and opportunities
   between these strategic sectors
- Power-to-X green hydrogen projects: Upscaling the current opportunities
- Bunkering and storage solutions for hydrogen and clean tech
- Creating a hydrogen global market, linking hydrogen global supply and demand
- Scalability: scaling up African hydrogen projects to meet continental and global production ambitions
- The Carbon Border Adjustment Mechanism (CBAM):
   Opportunities and challenges
- NAMPORT as the gateway to transporting to an easier and much faster transit route between Southern Africa, Europe and the Americas
- Hydrogen global standards: Harmonising global hydrogen standards
- Energy storage and bunkering facilities hubs creation
- Global and regional collaboration to decarbonize
   industrial sectors:
- Mobility, freight, shipping, power, chemicals

#### Speakers:



X





**Desmond van Jaarsveld** Chief Executive Officer

#### 15:00 Networking Coffee Break

#### 15:30 Kenya Spotlight Sessic

- Kenya's strategies to develop a sound hydrogen policy: Opportunities and challenges
- Industrial development and fertilizing projects in Kenya: Hydrogen for food security
- Hydrogen feedback for clean power generation: The Port of Mombasa as Kenya's hydrogen hub and gateway to the world
- Special Economic Zones (SEZ): Plans, tax incentives and strategies charting Kenya's path to becoming an exporter of green hydrogen within the next decade
- Harnessing opportunities in geothermal and hydrogen

#### 16:00 Session 10: Africa's Hydrogen Next Frontiers Panel: The Industry's Future Major Opportunities

- New African Hydrogen Frontiers: Outlining the next projects
   and opportunities
- Hydrogen and renewables' production: Key targets and practical objectives – transforming ambitions into actions
- How can African Governments ensure an inclusive industry: successful case studies from the continent
- Successful case studies from across the continent applicable to next frontiers: Djibouti as a hydrogen gateway shipping green hydrogen to the globe
- Major African economies moving ahead with hydrogen and renewable energy projects: Angola, Nigeria, Mozambique and Ethiopia
- Pan African cooperation and collaboration: MoUs, Collaboration Agreements & Signings

#### Speakers:



Hon. Kornelia Shilunga Deputy Minister of Mines and Energy Republic of Namibia

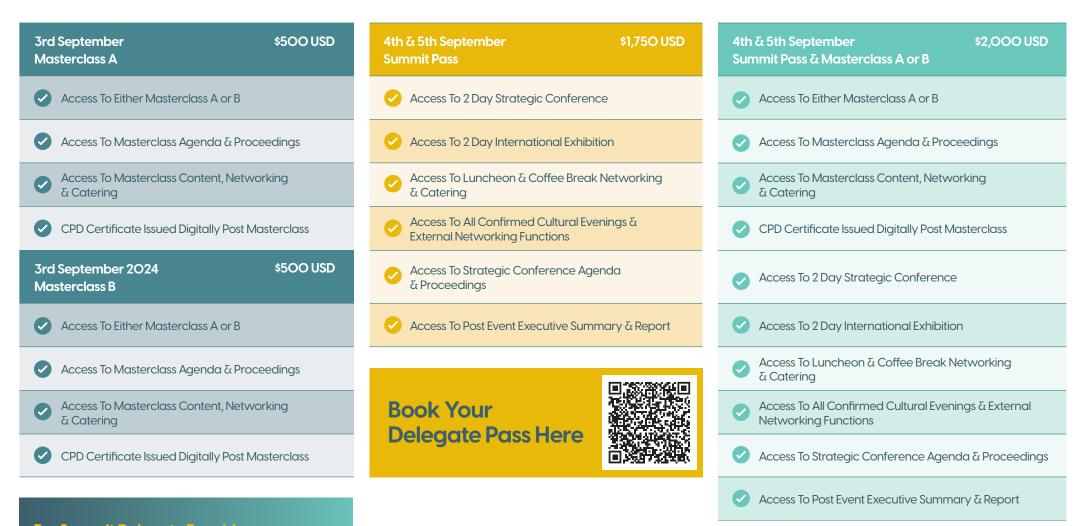


Hon. Emile Oousso Minister of Energy and Hydraulics Republic of Congo

- 17:00 Summit Conclusions: Mou And Partnership Agreements Signature
- A quick summary of the Project Investment Roundtable announcements
- Summit conclusions, practical outcomes and next steps for 2025
- MoU / Partnership & Project Agreement / Deal Signing ceremony
- 17:30 Conclusion and End of Global African Hydrogen Summit 2024 African Cultural Evening (if sponsored)



# Summit Delegate Rates & Inclusions



For Summit Delegate Enquiries: William Shilamba, Delegate Sales Manager info@gah2s.com, +264 812 318 744 (Namibia)



Global African Hydrogen Summit #GAH2S

3 – 5 September 2024 Safari Conference Centre Windhoek, Namibia Hosted By

Government

of Namibia

Strategic Partner



Endorsed Bv

δ Energy



#### International E

#### dmg events

**Sponsorship and Exhibition Enquiries** Betul Oktuay, Partnerships Manager info@gah2s.com, +44 7424 199 667

**Delegate Sales Enquiries** William Shilamba, Delegate Sales Manager info@gah2s.com, +264 812 318 744 (Namibia)

**Speaking Enquiries** Tiago Marques, Head Of Content - Africa info@gah2s.com, +44 7513 715 844

**Partnership Enquiries** Wemimo Oyelana, Portfolio Director info@gah2s.com, +234 809 357 2101 (Nigeria) Vasco Da Gama Energy

Frank C. Godfrey, Namibia GM info@gah2s.com, +234 810 698 0808





Brought To You By



