

GREEN ENERGY
AFRICATM
SUMMIT By 



10-11 October 2023



CTICC2, Cape Town, South Africa

2023 AGENDA



Strategic Partners



Green Energy Africa Summit is a two-day conference where Africa's public and private sector stakeholders meet to discuss clean energy strategies and promote projects to help attract foreign direct investment into the African energy, infrastructure, and industrial sectors.

The energy deficit in Africa inhibits socioeconomic development, industrialisation, and economic growth. Deploying renewable energy across the African Continent must go beyond improving access to energy and energy security and must also inspire economic and social transformation on a national and regional scale. As the developed world's investment continues to drive learning curves and innovation, Africa must be ready to leapfrog technologies and become a meaningful global player in the new global energy market.

The Green Energy Africa Summit (GEAS) acts as a vehicle for international investors to originate projects that will reduce the energy deficit whilst also contributing to developing low-carbon pathways that will establish a balanced continent-wide energy mix as Africa transitions from fossil fuels to carbon neutrality.

CONFIRMED MINISTERS & RELATED REGULATOR AUTHORITIES ATTENDING:

Hon. David Masondo, **Deputy Minister of Finance, South Africa**
Hon. Abdoulie Jobe, **Minister of Petroleum and Energy, Republic of The Gambia**
Hon. Aissatou Sophie Gladima Siby, **Minister of Petroleum & Energy, Republic of Senegal**
Hon. Lefoko Moagi, **Minister of Minerals and Energy, Republic of Botswana**
Hon. Yonis Ali Guedi, **Minister of Energy and Natural Resources, Republic of Djibouti**
Hon. Dr. Ing. Habtamu Itefa Geleta, **Minister of Water and Energy, Federal Democratic Republic of Ethiopia**
Hon. Dionisio Cabi, **Minister of Natural Resources and Energy, Republic of Guinea-Bissau**
Hon. Viriato Luís Soares Cassamá, **Minister of Environment and Biodiversity, Republic of Guinea-Bissau**
Hon. Dr. Michael Usi, **Minister of Natural Resources and Climate Change, Republic of Malawi**
Hon. Mima Yema Mimi Sobba-Stephens, **Deputy, Minister of Environment and Climate Change, Sierra Leone**
Hon. Katari Foli-Bazi, **Minister of the Environment, Togolese Republic**
Hon. Sam Cheptoris, **Minister of Water and Environment, Republic of Uganda**
Hon. Okassai Opolot, **Minister of State for Energy, Republic of Uganda**
Senior Representative, **Volta River Authority, Ghana**
Senior Representative, **Ministry of Energy, Ghana**
Errol Renaud, Principal Officer, Tariffs and Economic Affairs, **Seychelles Energy Commission, Republic of Seychelles**
Jean Baptiste KY, President, **Autorité de Régulation du Secteur de L'énergie (ARSE) Burkina Faso**
Nani Juwara, Managing Director, **Gambia National Water & Electric Company (NAWEC), Republic of The Gambia**
Senior Representative, **Nigerian Electricity Regulatory Commission (NERC), Nigeria**
Edington T. Mazambani, Chief Executive Officer, **Zimbabwe Energy Regulatory Authority (ZERA), Republic of Zimbabwe**
Francios Robinson, Director General, **Electricity Control Board (ECB Namibia)**

CONFIRMED REGULATORS, UTILITIES AND POWER POOLS:

Daniel Kiptoo Bargaroria, Director General, **Energy & Petroleum Regulatory Commission (EPRA), Republic of Kenya**
Motlatsi Ramafole, Chief Executive Officer, **Lesotho Electricity and Water Authority (LEWA), Kingdom of Lesotho**
Dr. Jauad El Kharraz, Executive Director, **Regional Center for Renewable Energy and Energy Efficiency (RCREEE), Egypt**
Dr. Tinuade Sanda, Managing Director & CEO, **Eko Electricity Distribution Company PLC (DisCo), Federal Republic of Nigeria**
Stephen Dihwa, Executive Director, **Southern African Power Pool, Republic of South Africa**

CONFIRMED PRIVATE SECTOR SPEAKERS:

Mpho Makwana, Chairman, **ESKOM, South Africa**
Shirley Webber, Managing Principal, Coverage Head - Resource & Energy, **ABSA CIB**
Thabo Molekoa, Chairman and Managing Director, **Siemens Energy**
Ana Hajduka, Chief Executive Officer, Africa **GreenCo**
Dr. Ainojie 'Alex' Irune, President, **Oando Clean Energy Ltd (OCEL)**
Nina Koch, Partner, **Herbert Smith Freehills**

Kaashifah Beukes, Chief Executive Officer, **Freeport Saldanha, South Africa**
Liz Williamson, Head of Energy Corporate Finance, **RMB**
Uri Epstein, Head, Regional Business Development, **Fortescue Industries**
Shahil Juggernath, Business Development, **ENGIE**
Adonis Pouroulis, Chief Executive Officer & Founder, **Chariot**
Igor Lakic, Managing Director and Partner, **Boston Consulting Group (BCG)**
Zaher Ibrahim, Vice President, EMEA, **Baker Hughes**
Emma Champion, Head of Regional Energy Transitions, **BloombergNEF**
Yaseen Lockhat, Senior Specialist: Sustainable Finance, **The Banking Association South Africa**
Bongi Kunene, Managing Director, **The Banking Association of South Africa**
Theuns Ehlers, Head Resources & Project Finance, **ABSA CIB**
Merita Wickens, Project Director, **Turner & Townsend**
Michiel Baerends, Process Director, **Fluor, Netherlands**
Christopher McLean, CEO, **Stonechair Capital**
Alastair Herbertson, Director, **Ninety-One**
Nigel Beck, Head of Sustainable Finance and ESG Advisory, **RMB**
Emmanuel Grand, Senior Managing Director, **FTI Consulting**
Rentia van Tonder, Head of Power: Corporate & Investment Banking, **Standard Bank**
Ryno Verster, Senior Business Development Officer, and Vice President, **KfW IPEX-Bank**
Greg Cress, Principal Director: Sustainable Energy & eMobility, Industry X Africa, **Accenture South Africa**
Laura Peinke, Acting Executive: Economic Development, **Eastern Cape Development Corporation**
Fergus Feltman, Chief Executive Officer, **Atlantia**
Donovan Hart, Sector Specialist - Oil & Gas, Group Business Development, **Transnet SOC Ltd**
Thorsten Metz, Director, Director, **KfW IPEX-Bank**
Jonathan Hoffman, Chief Development Officer, **Globeleq Africa Limited**
Richard Doyle, Managing Director, **JUWI**
Vukile Davidson, Chief Director Financial Markets and Sustainability Treasury, **National Treasury**
James Manda, Technical Manager, **African Forum for Utility Regulators (AFUR)**
Maidei Matika, Chief Investment Facilitator, **Gauteng Industrial Development Zone (IDZ)**
Mike Mulcahy, Chief Executive Officer, **GreenCape**
Nicholas Brooks – EV & JETP Senior Advisor from UK Foreign, **Commonwealth and Development Office**
Darias Jonker, Africa Scenarios and Energy Transition Principal, **Anglo American**
Matthew Cullinan, Chief Executive Officer, **Atlantis Special Economic Zone**
Oghor Okhai-Akhigbe, Principal Legal Counsel and Head of Capacity Building Unit, **ALSF**
Wezi Khoza, Chair, **CHIETA**
Rob Tims, Managing Director, **RWT Energy Advisory**
Jacek Guzek, Consulting South Africa, Associate Director, Strategic Sensing & Insight Leader, **Deloitte**
Leria Arinaitwe, Energy Sector Lead, **The African Legal Support Facility, ALSF**
Phinda Mangolotho, Director, **Arushvest Capital Advisory**
Deshan Naidoo, Managing Director, **Aqora**
Jan Fourie, Executive Vice President, Sub Sahara Africa, **Scatec ASA**
Cathie Lewis, Head of ESG, **GCX**
Garyn Rapson, Partner, **Webber Wentzel**
Sifiso Siwela, Africa Manager, **CSA Global, ERM GmbH**
Irene Bopp, Partner, **ERM GmbH**
Andries Malherbe, Co-founder and Director, **Zero Carbon Charge**
Mathapelo Malao, Head of Energy, Environment and ICT, **Development Bank of South Africa (DBSA)**

Day 1 | Tuesday 10th October 2023

ENERGY STRATEGY FORUM

Energy plays a fundamental role in Africa's development pathway. Strong government support coupled with a viable regulatory environment is a pre-requisite to securing the scale of investment required to fund Africa's energy transition. The Energy Forum, invites senior government officials and policy makers to explore ideas to improve energy access and efficiency through new energy, drive regional integration and global investments into Africa's green energy projects.

<p>11.00 - 11:05</p>	<p>Opening from the MC</p>
<p>11.05- 11:15</p>	<p>GOVERNMENT OPENING ADDRESS: As the world tackles the challenge of energy security, we need to take bold and collaborative action with governments and the private sector by Investing In policies that encourage Investment Into the energy sector. During this session a representative from the Department of Mineral Resources will set the tone during the opening of the Green Energy Africa Summit.</p> <p>- Speaker: Ministry of Minerals & Resources, South Africa</p>
<p>11.15 - 12:30</p>	<p>MINISTERIAL PANEL DISCUSSION: African Energy Transition Plans An efficient, secure, affordable, and sustainable power sector is vital to Africa's economic growth and transformation. This session invites government to discuss their countries plans to diversify Its energy mix to deliver consistent supply of power and unlock opportunities that will catapult public and private sector participation in their energy transition.</p> <p>Moderator: Emma Champion, Head of Regional Energy Transitions, Bloomberg NEF</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Hon. Lefoko Moagi, Minister of Minerals and Energy, Botswana - Hon. Aissatou Sophie Gladima Siby, Minister of Petroleum & Energy, Republic of Senegal - Hon. Dr. Ing. Habtamu Itefa Geleta, Minister of Water and Energy, Federal Democratic Republic of Ethiopia
<p>12.30 - 13:20</p>	<p>PANEL DISCUSSION: Energy Leaders Debate The fundamental question remains: 'How can the African continent attain sustainability and increase access to modern energy services for its people? This session unites Africa's energy leaders to share new perspectives and solutions on the role of renewables in increasing access to modern energy.</p> <p>Areas for discussion include:</p> <ul style="list-style-type: none"> • How can Africa seek and explore innovative solutions for more energy and climate neutrality in the context of affordability and equality? • How to fast-track and deliver innovative projects in support of the global energy community. • How to harmonise national, regional, and continental activities to bring about the desired change. • How to incorporate and enable energy efficiency to achieve universal access to clean energy. <p>Moderator: Emma Champion, Head of Regional Energy Transitions, Bloomberg NEF</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Dr. Ainojie 'Alex' Irune, President, Oando Clean Energy Ltd (OCEL)

	<ul style="list-style-type: none"> - Adonis Pouroulis, Chief Executive Officer & Founder, Chariot - Zaher Ibrahim, Vice President, EMEA, Baker Hughes - Thabo Molekoa, Chairman and Managing Director, Siemens Energy
13:20 – 14:20	Networking Lunch
14:20 – 14:35	GOVERNMENT SPEECH Hon. Okassai Opolot, Minister of State for Energy, Republic of Uganda
14.35 – 15:15	<p>COUNTRY SPOTLIGHT: The role of the Private Sector in the Energy Transition</p> <p>South Africa has immense potential to further expand its renewable energy production when compared with other regions and represents a significant investment opportunity to diversify its power infrastructure. This session highlights growth areas in South Africa, along with the challenges and opportunities that exist.</p> <p>Areas for discussion Include:</p> <ul style="list-style-type: none"> • How will South Africa navigate a tougher global regulatory environment as the world pushes for a net zero? • How will infrastructure projects be unlocked through public-private collaboration? • Whilst it is agreed that the speed in how we develop more power is critical to our socio-economic development, the real challenge is how many truly bankable projects are available to investors to consider. • Perspectives from developers leading projects. <p>Moderator: Igor Lakic, Managing Director and Partner, Boston Consulting Group (BCG)</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Rentia van Tonder, Head of Power: Corporate & Investment Banking, Standard Bank - Jonathan Hoffman, Chief Development Officer, Globeleq Africa Limited - Richard Doyle, Managing Director, JUWI - Jan Fourie, Executive Vice President, Sub Sahara Africa, Scatec ASA
15:15 – 15:30	<p>PRESENTATION: A Decentralised Electricity Market</p> <p>This presentation will discuss the changes in the RSA and regional electricity markets and highlight the clear shift towards a more competitive and innovative electricity sector away from monopolistic electricity supply industry models. The presentation will highlight the benefits of a multi-market structure including physical, competitive, and regulated transactions and the role of traders in linking the markets, customers, and buyers.</p> <p>Speaker: Ana Hajduka, Chief Executive Officer, Africa GreenCo</p>
15:30 – 15:50	<p>PRESENTATION: Unlocking Opportunities in West Africa: The Case of Ghana</p> <p>Ghana has a diverse energy mix, dominated by hydropower and natural gas with several solar and wind energy projects in the pipeline. To understand current dynamics in the country and explore various investment opportunities, we welcome the CEO of the Volta River Authority (VRA) to speak about its portfolio management, expansion plans, and its approach to the energy transition.</p> <p>Speaker: CEO, Volta River Authority, Ghana</p>
15:50 – 16:15	Networking Coffee Break
16:15 – 16:50	<p>PANEL DISCUSSION: De-Risking African Energy Projects</p> <p>This session explores how African utilities, and the private sector can hedge against risks and make investments more attractive. It will examine the policy, regulation and tools available and what governments are doing to accelerate investment in their national energy sector.</p> <p>Areas for discussion:</p>

- What are the key risks associated with energy projects in Africa and how can we address them?
- How can new business models (embedded, captive etc) help incentivise private sector participation in African energy projects?
- What kind of policy frameworks have proven most attractive to make African energy projects more bankable?

Moderator: James Manda, Technical Manager, **African Forum for Utility Regulators (AFUR)**

Panellists:

- Dr. John M. Mutua, Ag. Director Economic Regulation, **Energy & Petroleum Regulatory Authority (EPRA), Kenya**
- Dr. Tinuade Sanda, Managing Director & Chief Executive Officer, **Eko Electricity Distribution Company (DisCo), Nigeria**
- Emmanuel Grand, Senior Managing Director, **FTI Consulting**
- Francios Robinson, Director General, **Electricity Control Board (ECB Namibia)**
- Leria Arinaitwe, Energy Sector Lead, **The African Legal Support Facility, ALSF**

16:50 –
17:30

PANEL DISCUSSION: Power Pools - Cross Boarder Harmonisation and Creating Regional Scale

Cross border harmonization of the electricity transmission network, regulatory principles and tariff frameworks at regional and continental levels are expected to bring about massive benefits, including increased cross-border trading and power pooling, as well as enhanced access to electricity at regional and continental levels. But how can regional power pools and their core member utilities engage private sector entities such as power producers, traders, and industrial consumers to get involved? How can they create scalable opportunities, innovative business models and new market structures that are sustainable, equitable and competitive?

Areas for discussion include:

- From the perspective of Power Pools, what is the state of technical preparedness to enable full regional connectivity?
- What are the regulatory frameworks that would enable the smooth operation of power pools once full connectivity has been achieved?
- Effectively functioning power pools will require further investment in underlying infrastructures and a critical mass of distributed generation capacity, but also a shift in thinking from short-term oriented objectives towards long-term gains. What role would the private sector play in this?

Moderator: James Manda, Technical Manager, **African Forum for Utility Regulators (AFUR)**

Panellists:

- Jean Madzongwe, **Southern African Power Pool**
- Engineer Misheck Siyakatshana, Technical Director, **Zimbabwe Energy Regulatory Authority (ZERA)**
- Motlatsi Ramafole, Chief Executive Officer, **Lesotho Electricity and Water Authority (LEWA)**
- Jean Baptiste KY, President, **Autorité de Régulation du Secteur de L'énergie (ARSE) Burkina Faso**

17:30 –
17:35

Closing Remarks and End of Day Energy Strategy Forum

Day 2 | Wednesday 11th October 2023

GREEN FINANCE FORUM

Financial institutions need sustainable energy. Banks earn a return by funding businesses that need a secure and cost-effective power supply to produce goods and services and to expand and create employment opportunities. Environmental, social, and good governance (ESG) requirements - designed to facilitate the growth of sustainable energy, among other objectives - determines much of the business operating environment for banks and the companies they fund. The funding of sustainable energy projects will be an increasingly important part of the business for banks, as they strive to meet their commercial and corporate social responsibility obligations. The Green Energy Finance Forum is where regulators, financial institutions and social activists come together to find ways to make the business of finance and energy sustainable in South Africa and the whole of the continent.

08:00 – 09:10 Morning Refreshments & Networking

09:10 – 09:15 Opening from the MC

09:15 – 10:00 **PANEL DISCUSSION: Towards New Market Models and Investments in Transmission?**

Expanding energy access in Africa and diversifying the continent's electricity necessarily requires significant investments into the strengthening and expansion of its networks. However, while government and the public sector have traditionally funded capital-intensive transmission projects, increasing fiscal pressures and limited budget are pushing the continent to be innovative and seek private sector participation and alternative sources of funding.

Areas for discussion include:

- What are the best business models available to African markets to develop their transmission networks?
- What are the key financing mechanisms available as the market opens up?
- What are the modalities and policies required to support the growth of independent or PPP transmission projects?
- How is growing renewable energy adoption and storage technologies impacting the demand for transmission infrastructure?
- Unlock the industrial and inclusive development of associated value chains.

Moderator: Rob Tims, Managing Director, **RWT Energy Advisory**

Panellists:

- Mike Mulcahy, Chief Executive Officer, **GreenCape**
- Athenkosi Peter, Managing Director, **Arushvest Capital**
- Liz Williamson, Head of Energy, **RMB**
- Christopher McLean, CEO, **Stonechair Capital**
- Mathapelo Malao, Head of Energy, Environment and ICT, **Development Bank of South Africa (DBSA)**

<p>10:00 – 10:15</p>	<p>PRESENTATION: Geopolitical Energy Futures and South Africa's Pathways to 2035 This session delves into a project raining the uncertainties and opportunities presented by the evolving geopolitical energy landscape, with a particular focus on green energy prospects in Africa and their implications for South Africa. By employing strategic foresight and systemic innovation, we aim to reshape South Africa's energy future, fostering a climate-resilient and socially equitable economy by 2050. The session will highlight research completed in collaboration with esteemed institutions like South Africa's Presidential Climate Commission, South African National Energy Development Institute, and others, aims to pave the way for sustainable green energy futures.</p> <p>Speaker: Deon Cloete, Head of SAIIA Futures Programme</p>
<p>10:15 – 10:55</p>	<p>MINISTERIAL COP PANEL DISCUSSION: The Road to COP28 The outcome of COP27 generated mixed feelings for African nations. While the establishment of the Loss and Damage Fund and the launch of the Africa Carbon Markets Initiative (ACMI) were positive developments, ending energy poverty, increasing climate adaptation investments, and mobilising concessional finance are all urgent priorities that remain to be addressed. Ahead of COP28 in Dubai, this ministerial and high-level session seeks to articulate Africa's position and expectations from the next UN Climate Change Conference.</p> <p>Areas for discussion include:</p> <ul style="list-style-type: none"> - What is the level of advancement of the Loss and Damage Fund and how can African nations benefit from its establishment? - What policies must be adopted to incentivise the growth of carbon markets in Africa? - What kind of infrastructure investments are required to build resilience across the continent? - What are the levels of funding requirements Africa needs to meet its sustainable development goals? - What are the key expectations of African nations from COP28? <p>Moderator: Reitumetse Molotsoane, Head: Environment & Society, National Business Initiative (NBI)</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Hon. Dr. Michael Usi, Minister of Natural Resources and Climate Change, Republic of Malawi - Hon. Sam Cheptoris, Minister of Water and Environment, Republic of Uganda - Hon. Mima Yema Mimi Sobba-Stephens, Deputy, Minister of Environment and Climate Change, Sierra Leone - Mr. Justin Prosper, Director General of Climate Change, Ministry of Agriculture, Climate Change & Environment, Republic of Seychelles
<p>10:55 – 11:15</p>	<p>Networking Coffee Break</p>
<p>11:15 – 11:50</p>	<p>PANEL DISCUSSION: The Policy and Regulatory Framework Needed to Attract Investment Investment in sustainable energy requires a clear and stable policy and regulatory environment, which effectively balances commercial, social, and environmental interests. Leaders in finance and energy, social activists and regulators identify the regulatory risk deterring investment in sustainable energy; and what can be done to mitigate them.</p> <p>Areas for discussion include:</p> <ul style="list-style-type: none"> - From the regulatory perspective, what are the necessary policy reforms in the energy sector that would attract development finance? - What are some of the policy and regulatory issues that may impede funding from commercial financial institutions? - Given the scale of the energy crises in South Africa, why are many energy initiatives ending up in court? - Regulatory clarity surrounding the Green Finance Taxonomy. - Institutional Investment across North Africa and a winning formula to attract FDI. <p>Moderator: Laura Peinke, Acting Executive: Economic Development, Eastern Cape Development Corporation</p>

	<p>Panellists:</p> <ul style="list-style-type: none"> - Nhlanhla Gumede, Head of Electricity Regulation, NERSA, South Africa - Dr. Harold Obiga, Director of Legal Services, Electricity Regulatory Authority (ERA), Republic of Uganda - Sanusa Garba, Chief Executive Officer, Nigerian Electricity Regulatory Commission (NERC), Nigeria - James Manda, Technical Manager, African Forum for Utility Regulators (AFUR)
<p>11:50 – 12:30</p>	<p>PANEL DISCUSSION: Financing Sustainable Energy</p> <p>Africa needs stable, low-cost, sustainable power supplies to attract the businesses and investment needed for the economic and social development of its people and countries. This will require massive investment in sustainable energy projects. Leaders in finance and energy identify what is needed to attract the necessary scale of investment, while activists and regulators also set out their needs.</p> <p>Areas for discussion include:</p> <ul style="list-style-type: none"> - What does the financial sector require to increase capital flow into sustainable energy projects in Africa? - What can financial institutions do to develop robust ESG strategies? - The role of financial institutions transitioning big clients and emitters on to sustainable energy? - Innovative Sustainability Financing driving the integration of renewables. <p>Moderator: Garyn Rapson, Partner, Webber Wentzel</p> <p>Panellist:</p> <ul style="list-style-type: none"> - Alastair Herbertson, Director, Ninety-One - Theuns Ehlers, Head Resources & Project Finance, Absa CIB - Nigel Beck, Head of Sustainable Finance and ESG Advisory, RMB - Thorsten Metz, Director, Director, KfW IPEX-Bank - Vukile Davidson, Chief Director Financial Markets and Sustainability Treasury, South African National Treasury
<p>12:30 – 12:35</p>	<p>CLOSING REMARKS: The Financial Services' Sector's Commitment to Financing a Just Energy Transition</p> <p>Speaker: Bongzi Kunene, Managing Director, Banking Association of South Africa (BASA)</p>

GREEN ENERGY FORUM

Africa has a diverse range of energy resources, from renewable such as solar, wind, hydro, geothermal and green hydrogen, to biofuels liquid fuels and gas. Yet Africa is faced with significant de-industrialisation risk where current fossil fuel-based industry is becoming uncompetitive due to high emissions intensity while minimal new clean technology industries have been developed. The Green Energy Forum invites energy stakeholders to explore how the expansion and harmonisation of a diverse mix of energy resources can improve access to reliable and affordable energy, power industrial growth and drive sustainable, socio economic outcomes for Africa.

12:35– 13:10

PANEL DISCUSSION: Hydrogen Showcase: A Roadmap for Africa

The discussion around hydrogen has accelerated in line with the global demand to decarbonize and the need for innovation and development surrounding green energy in Africa. Key projects around the Boegoebaai Green Hydrogen Project in the Namakwa Special Economic Zone, the Platinum Valley Initiative in South Africa, Namibia's drive surrounding the Namibian Green Hydrogen and Derivatives Strategy and Sonangol's JV with GAUFF Engineering and Conjuncta's plant in Angola will offer tangible solutions to the regional energy security conundrum and opportunities for Africa's hydrogen export market. This session sets out how regional projects have gained traction and the socio-economic upside of large-scale hydrogen investment.

Areas for discussion include:

- The role of hydrogen in the development of independent energy security across Africa
- Africa's roadmap in becoming exporters of green hydrogen-derived products.
- How can hydrogen enable the decarbonization of domestic and regional industries across the region?
- What are the socioeconomic impacts of the development of Green Hydrogen hubs in Africa?
- Developing the hydrogen ecosystem: supply versus demand, domestic versus export.
- Blue versus green carbon capture.
- Permitting and regulatory frameworks and certification.
- Investment incentives and government support.

Moderated: Nina Bowyer, Partner, Co-Head Africa, **Herbert Smith Freehills**

Panellists:

- Kaashifah Beukes, Chief Executive Officer, **Freeport Saldanha, South Africa**
- Uri Epstein, Head, Regional Business Development, **Fortescue Industries**
- Shahil Juggernath, Business Development, **ENGIE**
- Thorsten Metz, Director, **KfW IPEX-Bank**

13.10 – 14:10

Networking Lunch

14:10 –
14:55

PANEL DISCUSSION: South Africa's Roadmap to a Hydrogen Future

With significant potential to take advantage of the hydrogen economy due to its abundant PGMs reserves, its huge potential for renewable energy production and well-developed infrastructure South Africa is at the cusp of leading hydrogen projects in Africa. The session highlights strategy driving hydrogen, research and development and investment opportunities.

Areas for discussion:

- Strategy for driving the development of the green hydrogen economy.
- Commercialising green hydrogen opportunities.
- Investment opportunities in hydrogen and challenges to drive project growth
- Current standing with grey and blue hydrogen?

Moderator: Simon van Wyk, Director, **Deloitte Africa**

Panellists:

	<ul style="list-style-type: none"> - Merita Wickens, Project Director, Workstream Lead Operationalisation of Hydrogen Society Road Map, Turner & Townsend - Fergus Feltman, Chief Executive Officer, Atlantia - Donovan Hart, Sector Specialist - Oil & Gas, Group Business Development, Transnet SOC Ltd - Maidei Matika, Chief Investment Facilitator, Gauteng Industrial Development Zone (IDZ) - Matthew Cullinan, Chief Executive Officer, Atlantis Special Economic Zone
14:55 – 15:15	<p>PRESENTATION BY: Overview of Technologies Enabling the Energy Transition</p> <p>The presentation will provide an overview of the most relevant technologies that can support transition to a carbon-neutral energy system emerging in the global market. The presentation addresses long-distance transport of green or blue Hydrogen via 'carrier' molecules (NH3, LOHC), touching on technologies on either end of the transport chain, production routes to e-fuels, and the use of biogenic feedstocks for renewable fuels production (be it vegetable oils or solid biomass). CO2 Capture technology is discussed, both as a cornerstone in the production of e-fuels, as well as in the context of decarbonization (combined with sequestration) of existing industries as a transitory strategy.</p> <p>Speaker: Michiel Baerends, Process Director, Fluor, Netherlands</p>
15:15 – 15:55	<p>PANEL DISCUSSION: EMobility and the Future of Battery, Hydrogen Fuel Cell, and e-Fuels as energy sources</p> <p>While electric vehicles and eMobility are currently getting a lot of attention, it's important to look holistically at how the landscape of energy sources complement each other for decarbonisation and mobility applications.</p> <p>Areas of discussion:</p> <ul style="list-style-type: none"> • The state of play: where are we currently with eMobility in South Africa and Africa? • Understanding the role of energy sources in powering Africa's eMobility: renewable energy, hydrogen, and alternative clean fuels • Decarbonising the transport sector: collaboration between industry players and what needs to happen. <p>Moderator: Jacek Guzek, Consulting South Africa, Associate Director, Strategic Sensing & Insight Leader, Deloitte</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Greg Cress, Principal Director: Sustainable Energy & eMobility, Industry X Africa, Accenture South Africa - Nicholas Brooks, EV & JETP Senior Advisor from UK Foreign, Commonwealth and Development Office - Andries Malherbe, Co-founder and Director, Zero Carbon Charge - Mike Peo, Head: Infrastructure, Energy and Telecommunications, Nedbank CIB
15:55 – 16:35	<p>PANEL DISCUSSION: Just Energy Transition:</p> <p>JETPs should serve as a beacon to the wider investment community that participating governments are committed to a global clean energy transition. As countries move towards putting these JETPs into practice, governments, policy makers and industry should collaborate to ensure recently announced partnerships deliver on their potential by avoiding false solutions, prioritizing renewables, and ensuring these efforts are informed by the latest available thinking on how to ensure a just transition.</p> <p>Moderator: Irene Bopp, Partner, ERM GmBH</p> <p>Panellists:</p> <ul style="list-style-type: none"> - Yaseen Lockhat, Senior Specialist: Sustainable Finance, The Banking Association South Africa - Darias Jonker, Africa Scenarios and Energy Transition Principal, Anglo American - Cathie Lewis, Head of ESG, GCX - Frederico Correia, ERI Industry Leader: Angola, Deloitte Angola - Karin Ireton, Senior Advisor, ESG and Sustainability, FTI Consulting
16:35 – 17:15	<p>PANEL DISCUSSION: The role of African Critical Minerals in the Global Energy Transition</p> <p>The rise of low-carbon power generation to meet climate goals also means a tripling of mineral demand from this sector by 2040. How can Africa capitalise and supply the huge demand for critical minerals to power the global energy transition. Across this session we will hear from manufacturers, technology providers and mining companies as to how the critical</p>

minerals market will play out, the impact it will have on the cost of the energy transition and the viability, cost, and availability of critical minerals to make the regional and international energy transition possible.

Moderator: Deshan Naidoo, Managing Director, **Aqora**

Panellist:

- Shirley Webber, Managing Principal, Coverage Head - Resource & Energy, **ABSA**
- Oghor Okhai-Akhigbe, Principal Legal Counsel and Head of Capacity Building Unit, **ALSF**
- Phinda Mangolothi, Director, **Arushvest Capital Advisory**
- Kimberly Dana Harrington, Deputy Assistant Secretary, Bureau of Energy Resources, **US Department of State, USA**
- Chiza Charles Chiumya, Ag. Director, Directorate of Industry, Minerals, Entrepreneurship and Tourism, **African Union Commission**

17:15 – 17:20

Closing Remarks & End of Green Energy Africa Forum

Energy Investment Village Programme

IN PARTNERSHIP WITH:



The Energy Investment Village is a joint venture between Saldanha Bay Innovation Campus, RIIS, Anza Capital and Green Energy Africa Summit to support clean energy African tech start-ups to access international finance. We have carefully created a programme for companies at the prototype phase (and ahead) requiring finance partners to develop their technologies. These outstanding finalists have been selected based on their ground-breaking initiatives, which aim to revolutionize the energy landscape and promote sustainable development in Africa. This platform moves Green Energy Africa Summit from the traditional concept of an event. It moves it into a trustworthy transaction platform – our mission is to drive social change through global finance in Southern African energy development.

Confirmed Speakers:

- Adaugo Alexandra Ozomma, COO, **Revive Earth Limited**
- Alan Winde, **Premier of the Western Cape**
- Desmond Williams, Project Developer, **Green Share Energy**
- Dr. Riaan Terblanche, Founder, **Therm Development**
- Gerry Aab, Founder, **Energy Cube**
- Justin Coetzee, Founder, **Fix EV**
- Okey Esse, CEO & Founder, **Powerstove Energy**
- Sandiswa Qayi, Managing Director, **AET AFRICA**
- Simon Wijnberg, CEO, **Impact Free-Water**
- Sunday Olusheyi Falaye, CEO, **Ceneco Green Power Limited**
- Tolulope Olukokun, CEO & Co-Founder, **ThinkBikes**

14:00 – 14:05	Welcome Introduction by Kaashifah Beukes Ms Kaashifah Beukes, CEO, Freeport Saldanha Industrial Development Zone
14:05 – 14:15	Welcoming Speech by the Premier Alan Winde, Premier of the Western Cape
14:15 – 14:25	THERM Development Thermal Systems THERM Development specialises in developing thermal system design software, computational fluid dynamic analyses and thermal performance digital twins for optimized operation of heat exchangers and cooling systems. <u>Investment amount: US\$600,000</u> <i>Speaker: Dr. Riaan Terblanche, Founder, Therm Development</i>
14:25 – 14:35	AET AFRICA Energy Efficiency AET Africa manufactures a product called Hotspot Geyser; it can heat up water within 30 minutes, reducing the time the geyser is switched on. It is a flexible glove-like device that is retrofitted over the geyser element and can be installed to reduce energy consumption on any conventional geyser. <u>Investment Amount: US\$1000,000</u> <i>Speaker: Sandiswa Qayi, Managing Director, AET AFRICA</i>

<p>14:35 – 14:45</p>	<p>Ceneco Green Power Ceneco Green Power is tackling the problem of reliable and cost-effective energy access through various sustainable and innovative energy solutions. They have developed a Mobile Solar Power Plant that makes access to clean energy simple and swift. The Mobile Solar Power Plant is a pre-configured, plug-and-play solar power solution designed to improve access to reliable and cost-effective electricity in communities facing electricity access challenges.</p> <p><u>Investment Amount: US\$250,000</u></p> <p><i>Speaker: Sunday Olusheyi Falaye, CEO, Ceneco Green Power Limited</i></p>
<p>14:45 – 14:55</p>	<p>Energy Cube Energy Storage Energy Cubes has developed a new technology to store electrical energy cost-effectively and sustainably. Their Battery revolutionizes energy storage by harnessing the force of gravity. Abandoned mines are converted into highly efficient energy storage units through a continuous loop storage and discharge mechanism.</p> <p><u>Investment Amount: US\$4,000,000</u></p> <p><i>Speaker: Gerry Aab, Founder, Energy Cube</i></p>
<p>14:55 – 15:05</p>	<p>Powerstove Energy Powerstove designs and manufactures intelligent smoke-free cookstoves that self-generate electricity to charge cell phones and power home appliances using sustainable renewable bio-pellets as fuel, produced from post-harvest crop and wood wastes.</p> <p><u>Investment Amount: \$10,000,000</u></p> <p><i>Speaker: Okey Esse, CEO & Founder, Powerstove Energy (Virtual)</i></p>
<p>15:05 – 15:25</p>	<p>Networking Break</p>
<p>15:25 – 15:35</p>	<p>Revive Earth E-Mobility Revive Earth convert gasoline-powered vehicles to 100% electric-powered vehicles. They also assemble/manufacture new, cheap, functional electric vehicles and operate a convenient battery charge/swap network. They have developed a kit to convert a particular tricycle model from gasoline-powered to electric-powered.</p> <p><u>Investment Amount: US\$800,000</u></p> <p><i>Speaker: Chukwuemeka Ezze</i></p>
<p>15:35 – 15:45</p>	<p>Green Share Virtual Power Plant Green Share is a peer-to-peer energy trading platform. Green Share assists with controlling and managing Distributed Energy Resources (DERs). They help with balancing the local grid and reduce load shedding. Green Share communicates to its partners to reduce or inject power into the grid when the grid is under strain.</p> <p><u>Investment Amount: US\$3,000,000</u></p> <p><i>Speaker: Desmond Williams, Project Developer, Green Share Energy</i></p>
<p>15:45 – 15:55</p>	<p>ThinkBikes E-Mobility Thinkbikes provides last-mile transportation using Electric cargo bikes made available for ridesharing and lease to individuals and businesses in urban and rural communities for affordable clean mobility of goods using a mobile app. The</p>

	<p>electric bikes are designed to operate off-road and can reach rural communities, enabling small businesses and farmers to overcome transportation barriers.</p> <p><u>Investment Amount: US\$200,000</u></p> <p><i>Speaker: Tolulope Olukokun, CEO & Co-Founder, ThinkBikes</i></p>
15:55 – 16:05	<p>Flx EV E-Mobility</p> <p>Flx EV is decarbonising the South African minibus taxi (MBT) industry by implementing electric minibus taxis and public charging facilities. Their business is centered around a healthier, more profitable, and more sustainable MBT industry in South Africa. Flx EV estimate that using their electric minibus taxi will save operators up to 60% of current operational expenditure, resulting in significant increases in profitability.</p> <p><u>Investment Amount: USD\$600,000 to USD\$6.500,000</u></p> <p><i>Speaker: Justin Coetzee, Founder, Flx EV</i></p>
16:05 – 16:15	<p>Impact-Free Water Wave Energy</p> <p>Impact Free-Water has developed a wave energy converter (WEC) that uses wave energy to pressurise and pump seawater for the purposes of seawater desalination and electrical power production. The WEC pumps water at pressure to be used for mariculture, electricity generation, electricity free desalination and green hydrogen amongst other uses.</p> <p><u>Investment Amount: US\$180,000</u></p> <p><i>Speaker: Anton Berkovitz</i></p>
16:15 – 16:25	<p>Networking Break</p>
16:25 – 16:30	<p>Announcement of winners</p>
16:30 – 16:35	<p>Closing remarks</p> <p>Ms Belinda Williams, Head of Southern Africa Region, Hyve</p>

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