

Africa Investment Exchange Power & Renewables

16-17 November 2022, RSA House, London, RSA House

The Africa Investment Exchange (AIX) Power & Renewables meeting is known for its knowledge-led approach and unusually robust debate.

We provide a forum for high-level executives and government officials to constructively discuss challenges, trends and new ideas, while networking in the relaxed setting provided by the Royal Society of Arts (RSA House) in London. AIX Power & Renewables is held under the Chatham House Rule which allows participants to break down the barriers by holding frank and open panel-led discussions.

The meeting is organised by African Energy, a consultancy that has been involved at the heart of the debate surrounding the development of the energy sector in Africa for more than 20 years.

Sponsors



africa-investment-exchange.com

Welcome

Many things have changed in the African electricity supply industry in the period since 2014, when the Africa Investment Exchange (AIX) was first established as a forum for constructive but frank debate. But a number of difficult issues remain too familiar for comfort in an industry vital for 600m-plus Africans getting basic access to clean, sustainable energy – let alone burgeoning cities across the continent getting acceptable levels of services.

Adding to these tensions, the 2022 AIX: Power & Renewables meeting is set within a volatile geopolitical and economic context, where Russia's invasion of Ukraine has forced governments to rethink their attitudes to natural gas, global supply chains, inflation, energy security and much more.

Responses to coping with sometimes shocking geopolitical shifts, while also maintaining impetus towards delivering a credible climate change agenda, is putting sometime intolerable stress on consumers and governments. It is also driving some bold policy-makers and entrepreneurs towards investment in storage solutions and future fuels sectors such as green hydrogen.

AIX takes place this year on the threshold of the COP27 climate talks in Egypt – an event our **African Energy** newsletter has predicted will be a more 'transactional' – and in some cases uncomfortable – experience than previous climate conferences, as African governments lobby for past commitments to be unblocked and for more support to come.

AIX will reflect on these discussions and provide a forum to better understand how these trends will unfold.

The meeting will examine growth areas for power sector stakeholders from commercial and industrial (C&I), mini-grid and other distributed solutions, to efforts to add more capacity to national grids – including managing intermittency, guaranteeing baseload, and applying new business models and PPAs. AIX will again look towards de-risking early-stage projects and renewable IPPs.

Stakeholders are still working through the problems of financing and structuring vital transmission lines, but there has been considerable progress in moving towards new market-friendly formulas of late. How to overhaul the continent's many insolvent national utility companies is another issue AIX will address.

With proceedings held under the Chatham House Rule, AIX delegates are asked to leave comfortable assumptions at the door, to contribute towards tackling huge – we cannot admit to them being intractable – problems. You are encouraged to participate to the full.

Jon Marks Founder, African Energy W: africa-energy.com



*participants are free to use the information received, but neither the identity nor the affiliation of the speaker, nor that of any other participant, may be revealed.











Panellists

Recently confirmed in-person panellists



Damilola Agbaje AIIM



Jonathan Hoffman Globeleq



Akinwole Omoboriowo II Genesis Energy



Cathy Oxby GreenCo



Dafe Akpeneye NERC



Patricia Appiagyei GRIDCo



Conal Duffy Alliant Insurance Services



Tarik Hamane Total Eren



Kweku Awotwi United Bank for Africa



William Barry Arch



Pinehas Mutota ECB



Cheikh Niane Ministry of Petroleum & Energy



Samson Ondiek KPLC



Joanne Elson Herbert Smith Freehills



Rentia van Tonder Standard Bank



Andy Calitz FutureEnergy

Panellists



Obbie Banda African Trade Insurance Agency



Susan Smith Power Africa



Andreas Cremer DEG



Julian Horn Savannah Energy



Oti Ikomi Proton Energy



Mike Peo Nedbank



Chanda Nxumalo Harmattan Renewables



Steve Brann Vitol



Mathilde Girard BII



Farid Mohamed SAPP



Julian Jansen Fluence



Mitesh Pema Mahlako Financial Services



Wale Shonibare AfDB



Oliver Quinn Kosmos Energy



Margaret Mutschler CWP



Ziria Tibalwa Waako ERA

Timetable

| 16 November - day one (GMT) | | | |
|-----------------------------|------------------------------|--------------------------|--|
| Timings | Great room | Tavern room | |
| 08h30 to 09h00 | Registration & coffee | | |
| 09h00 to 10h30 | The state of the industry | | |
| 10h30 to 11h00 | Coffee break | | |
| 11h15 to 12h45 | Opening up the market | | |
| 12h45 to 14h00 | Lunch | | |
| 14h00 to 15h30 | African energy in transition | Managing intermittency | |
| 15h30 to 16h00 | Coffee break | | |
| 16h00 to 17h30 | De-risking projects | Focus on African storage | |
| 17h30 | Evening reception | | |

| 17 November - day two (GMT) | | | |
|-----------------------------|---------------------------------------|-------------------------------|--|
| 08h30 to 09h00 | Registration & coffee | | |
| 09h00 to 10h30 | Delivering change in the power sector | COP27 coverage | |
| 10h30 to 11h15 | Coffee break | | |
| 11h15 to 12h45 | Is it all about C&I? | Green hydrogen | |
| 12h45 to 14h00 | Lunch | | |
| 14h00 to 15h15 | Getting power to the people | Geopolitics in the energy mix | |
| 15h15 to 15h45 | Coffee break | | |
| 15h45 to 17h00 | Mini-grid update | | |
| 17h00 | End of AIX: Power & Renewables 2022 | | |

16 November, 08h30 to 09h00 Registration & coffee at RSA House



09h00 to 10h30

The state of the industry

Chair: Jon Marks - Founder, African Energy

The meeting opens with a review of the past 12 months from African Energy Live Data – is Africa building enough capacity? What trends are emerging in the energy mix as constraints on both renewables and traditional technologies set in - presented by Ajay Ubhi, Head of Data, African Energy.

Panellists are invited to begin tackling the big questions:

- COP27 analysis and implications for Africa's energy industry
- · Delivering a credible climate change agenda
- Examining growth areas for power sector stakeholders
- New market-friendly formulas in financing and structuring vital transmission lines
- Effects of rising costs and supply chain bottlenecks on the industry
- Emerging inflation and energy security issues

Kweku Awotwi – Board Chairman, United Bank for Africa

Cheikh Niane – Deputy Minister, Ministry of Petroleum & Energy, Senegal

Akinwole Omoboriowo II - Chairman, Genesis Energy

Ziria Tibalwa Waako – Chief Executive Officer, Electricity Regulatory Authority, Uganda

10h30 Coffee



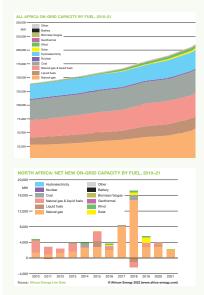


African Energy Live Data is an innovative online database featuring continually updated and verified data on more than 7,000 power plants and projects and the organisations behind them.

All entries correspond to a power plant on the ground that African Energy's Live Data team has investigated, verified and subjected to a rigorous fact checking process

Chat to the Live Data team to discuss your needs or arrange a demo of the platform.

E: sales@africa-energy.com



Great room

11h15 to 12h45

Opening up the market

Chair: **Dan Marks** - Research Fellow in Energy Security, Royal United Services Institute

Examining new-look business models and PPAs.

- Potentials for using captive and off-grid capacities for wider distributed generation.
- Selling into SAPP and wheeling to end consumers: building new businesses at big scale.
- Prospects of opening grid access and crossborder power trading in the WAPP.

Dafe Akpeneye – Commissioner, Nigerian Electricity Regulatory Commission (online)

Julian Horn – Managing Director, Renewables, Savannah Energy

Farid Mohamed – Chief Transactions Advisor, Southern Africa Power Pool

Cathy Oxby – Chief Commercial Officer, GreenCo Rinus Strydom – Managing Director, Emesco



12h45 Lunch

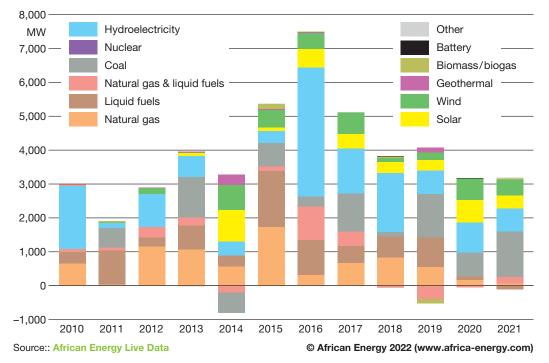
Make use of the many private spaces throughout RSA House and hold a meeting over lunch, or pre-book meetings with participants ahead of the break. In addition to the Benjamin Franklin Room, where lunch will take place, there are unreserved breakout spaces located throughout the venue.





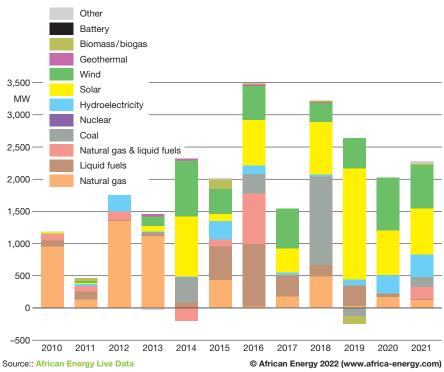


Africa: key data



SUB-SAHARAN AFRICA: NET NEW ON-GRID CAPACITY BY FUEL, 2010-21

NET NEW PRIVATELY-OWNED ON-GRID CAPACITY BY FUEL, 2010-21



Great room

14h00 to 15h30

African energy in transition

Chair: Jonathan Hoffman - Chief Development Officer, Globeleq

A constructive debate focusing on the support available for the power sector in the transition era.

- How are governments, DFIs and private investors adapting to the Paris agreement?
- The role of ESG and green finance in future financing
- Understanding carbon credits and the EU's taxonomy framework

Ingar Flatlandsmo - Principal Energy Economist, Multiconsult

Ademola Ogunbanjo - Executive Vice President, Oando Clean Energy

Wale Shonibare – Director – Energy Financial Solutions, Policy and Regulation, AfDB (online)

Susan Smith – Chief of Staff, Power Africa

Gilles Vaes - Chief Executive Officer, InfraCo Africa

Tavern room

14h00 to 15h30

Managing intermittency and guaranteeing baseload

- Managing intermittent renewables
- Calculating least cost structuring capacity contracts
- Operating hydro, thermal, and batteries on flexible grids
- Ancillary service markets

Michael Ball – Director of Project Development for Africa and Europe, Wärtsilä

Simen Karlsen - Team Lead, Integrated Energy Systems, Multiconsult

Daniel Amartey - Advisor to the Chief Executive, GRIDCo

Oti Ikomi – Chief Executive Officer, Proton Energy

Samson Ondiek – Business Planning Manager, Kenya Power and Lighting Company

Jon Bahen – Chief Operating Officer, JCM Power

15h30 Coffee







Transmission and interconnections - towards a Continental System Master Plan



6 December, 12h00 (GMT), Online

This online roundtable will evaluate glacial progress to date and consider the impact which the Continental System Master plan will have on African electricity supply industries.

This meeting is free for AIX Members and African Energy newsletter subscribers. Contact Ricky Purnell for further information T: +44 7919 130 324

Great room

16h00 to 17h30

De-risking projects

Chair: **Conal Duffy** - Practice Leader - Political Risk, Alliant Insurance Services

• Risk transfer solutions for early stage projects and grid-connected renewable energy IPPs. What has worked in the recent past?

Obbie Banda – Underwriter, African Trade Insurance Agency

Darrell Boyd – Global Head of Geothermal, Parhelion

Joanne Elson – Senior Associate, Herbert Smith Freehills

Paul Kunert - Managing Director, Havergate Infrastructure Partners

Kim Pedersen - Director, Investments, A.P. Møller Capital

Tavern room

16h00 to 17h30

Focus on African storage

Chair: Orli Arav - Managing Director, Head of Debt Funds, Lion's Head Global Partners

This session will examine the costs and applications of emerging storage schemes across the continent.

- What are the models currently being deployed?
- · How sustainable are battery value chains?

Jason De Carteret – Head of Development, Solarcentury Africa

Julian Jansen – Growth & Market Development Director (EMEA), Fluence

Gabriel Kroes - Head of Engineering, Impower

Jan Malan – Investment Director, Project Finance, BII

17h30 Evening reception







AIX membership

A year-round forum for trusted debate and curated insight



Monthly online meetings under the Chatham House Rule

- Online roundtable meetings, held under the Chatham House Rule to deliver frank discussion and a trusted exchange of insight.
- · Exclusive online Q&A's with African Energy's analysts.

Exclusive data and insights

- First access to quarterly analysis of African power sector data from African Energy Live Data.
- Factsheets and webinars based on the latest African Energy research.

Special discounts for in-person AIX meetings

• 50% early-bird discount on registration fee for AIX in-person meetings such as AIX: Power & Renewables (16-17 November 2022), after which a 35% discount is available for bookings made right up to the event.

Standard AIX membership – as well as tickets for in-person meetings – is free for independent Africa-based SMEs, and African public sector utilities, regulators and government officials.

Contact Ricky Purnell for more information on options and pricing:

E: ricky@cbi-meetings.com T: +44 (0) 7919 130 324



AIX Membership is available to buy on its own or as an enhanced news and analysis package through an African Energy newsletter subscription.

First published in 1998, African Energy's newsletter is editorially independent and provides unique angles and insight on project news, policy and regulatory developments, energy market trends, and the

political and governance issues that impact on the business environment.

Annual subscription licences are based on company type and size and are a cost effective way to ensure all your staff are receiving the information they need for their jobs.

African Energy also offers independent Africa-based SMEs a 40% discount on the price of African Energy newsletter licences.

Contact African Energy sales team to discuss subscription options further:

E: sales@africa-energy.com T: +44 (0) 1424 721667 W: africa=energy.com

17 November - day two



Great room

09h00 to 10h30

Delivering change in the power sector

Chair: Ulrik Kristensen - Chief of Party, Power Africa Senior Advisors Group, Tony Blair Institute for Global Change

- What is strategic government leadership in the power sector.
- What pressures are government agencies facing.
- How to prioritise, plan and deliver on projects.
- What support is required from international partners.

Patricia Appiagyei - Board of Directors, GRIDCo

Idesbald Chinamula - Director General, ANSER, DRC

Nhlanhla Gumede - Regulator Member, National Energy Regulator of South Africa*

Alexandra Hadzi Vida-Novic - Deputy Director, Energy Office, Power Africa

Cheikh Niane – Deputy Minister, Ministry of Petroleum & Energy, Senegal

Ahmad Rufai Zakari - Special Adviser to the President on Infrastructure, Nigeria

10h30 Coffee





Tavern room

09h00 to 10h30

COP27 coverage

Chair: John Hamilton - Managing Director, African Energy

An analysis of what has been agreed at the summit – and its implications on Africa's power industry – plus what won't be decided in Egypt.

Patrick Smith - Editor, Africa Confidential

Glada Lahn – Senior Research Fellow, Energy, Environment & Resources, Chatham House*





17 November - day two

Great room

11h15 t0 12h45

Is it all about C&I?

Chair: **Chanda Nxumalo** - Director, Harmattan Renewables

- Consolidation or fragmentation? Is there room for everyone in C&I? Is an M&A wave overdue?
- What do new third party access regimes mean for traditional utility-scale players?
- Beating the grid how resilient will C&I models prove if grid performance improves?
- The role of climate: Is climate, price, or energy security driving C&I, or are all three drivers required?

Damilola Agbaje – Investment Director, African Infrastructure Investment Managers

William Barry – Managing Director, ARCH Emerging Markets Partners

Mathilde Girard – Investment Manager, Energy Access & Efficiency, BII

Rentia van Tonder – Head: Power, Corporate and Investment Banking, Standard Bank

Christian Wright - Partner, Blue International

Tavern room

11h15 t0 12h45

Green hydrogen: prices, markets and scale

Chair: Margaret Mutschler - Development Director for Africa, CWP

Examining the fast evolving hydrogen and ammonia economy.

- What are the scale economics?
- Can a renewable energy IPP expect long-term PPAs from H2/NH3 firms?
- How can hydrogen projects benefit from carbon markets?
- What financial models are investors looking at?
- How important is domestic and regional demand for siting a green hydrogen project?

Andreas Cremer - Director, Infrastructure & Energy, DEG

Uri Epstein – Green Hydrogen Development, Fortescue Future Industries

Tarik Hamane – Vice President Hydrogen Development, Total Eren

Olivier Mussat – Chief Executive Officer, Atome*

Mike Peo – Head: Infrastructure, Energy & Telecommunication Nedbank

12h45 Lunch

14h00 to 15h15

Getting power to the people

Chair: **Farid Mohamed** - Chief Transactions Advisor, Southern Africa Power Pool

Examining key institutional themes for grid operations in Africa today, including private distribution and transmission concessions.

- Governance model: unbundling vs vertical integration
- Distribution: Has the concession model seen its day? What are the alternatives?

- Turnaround at national utilities
- Third party access cutting out the middle man
- Metro grids: small can be beautiful

Adel Baba-Aissa - Investment Director, Meridiam (online)

Simon Hodson – Chief Executive Officer, Gridworks

Pinehas Mutota – General Manager, Economic Regulation, Electricity Control Board, Namibia

Samson Ondiek - Business Planning Manager, Kenya Power & Lighting Company

17 November - day two

Tavern room

14h00 to 15h15

Geopolitics in the energy mix

Chair: **Steve Husbands** - Head of Commercial, Oil & Gas Advisory, SLR

The session will discuss what the current global security and supply issues mean for Africa's domestic gas industry and implications for gas exporters.

- Who will be Africa's "winners" and "losers" in the new global security and supply regime
- How might the new global and security regime
 impact African Governments approach to energy
- How might the new global and security regime impact European Governments approach to African energy.

• How might the new security and supply context influence investment appetite for proven and emerging technology.

Steve Brann – Senior Investment Manager, Vitol

Andy Calitz – Chief Executive Officer, Future Energy (online)

Marc Howard - Deputy Editor, African Energy

Mitesh Pema – Executive Director and Fund Principal, Mahlako Financial Services

Oliver Quinn - Senior Vice President, Corporate Development, Kosmos Energy

15h15 Coffee

15h45 to 17h00

Mini-grid update

Chair: Andrew Tipping - Technical Director, ECA

Strategies for profitability and sustainability

- Success stories? Lessons from Kenya, Uganda and DR Congo etc
- Rethinking mini-grid business models. Can economies of scale be achieved by increasing the number of mini-grids in development?
- Stimulating demand: buying your own power
- Subsidy strategies: capex subs, opex subs, results-based subs
- Will demand grow enough to justify investment?
- What else can be done to make mini-grids viable?
- * Awaiting final confirmation

17h00 End of AIX: Power & Renewables 2022

Gabriel Davies - Managing Director and Head of Energy Access, CrossBoundary

Michael Franz - Team Leader, GET.Invest

William Greene - Head of Deal Advisory, Multiconsult

Yann Tanvez – Infrastructure Lead West Africa & Mini-Grids Lead Africa, International Finance Corporation

Ziria Tibalwa Waako – Chief Executive Officer, Electricity Regulatory Authority, Uganda

About us

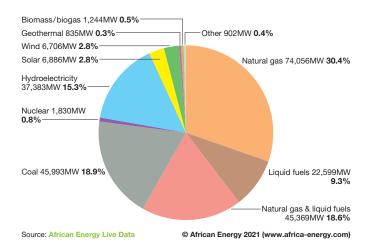
Our unique perspective

AIX: Power & Renewables is held under the Chatham House Rule and structured around panel-led sessions with a networking environment.

Participants will benefit from exclusive analysis based on African Energy Live Data - our unique platform that combines a range of analytics tools with project level detail of more than 7,000 power plants across the continent.

All-Africa Energy Mix, Q1 2021

Installed on-grid capacity Total: 243,802MW



Cbl Meetings pairs the extensive regional expertise and source network of Cbl's African Energy with a seasoned events team experienced in producing high-level investment forums and dialogues across the African continent.

As a consultant, CbI has a unique perspective when it comes to understanding the themes and topics that provide the foundations for a vibrant conference agenda and the mix of project stakeholders required to create a lively and engaging panel-led discussion.

We are focused on producing meetings that create enduring dialogues between development finance institutions, public sector stakeholders and private sector investors including, private equity firms, venture capitalists, family offices, foundations, institutional investors and impact investors.

Contact Lauren Slater for more details E: lauren@cbi-meetings.com T: +44 1424 721 667 W: africa-investment-exchange.com



Online Africa Investment Exchanges (AIX)



Transmission and interconnections – towards a Continental System Master Plan

Time: 12:00-13:30 GMT

Date: 6 December, 2022



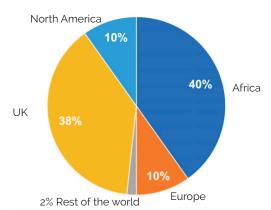
AfricaHardBall - political risk strategy roundtable Time: 12:00-13:30 GMT Date:,17 January, 2023

Online meetings are available to **AIX Members** and **African Energy subscribers** Contact **Ricky Purnell** for further details **T**: +44 7919 130 324

AIX Power & Renewables 2021

Over 230 participants from 22 different countries attended the AIX: Power & Renewables 2021 meeting

Participants by region



Utilities, regulators and officials

AUDA-NEPAD, Department for Business, Energy and Industrial Strategy (UK), Electricidade de Moçambique, Electricity Control Board (Namibia), Energy & Petroleum Regulatory Authority, Kenya, Electricity Regulatory Authority (Uganda), eThekwini Municipality, South Africa, Foreign, Commonwealth and Development Office (UK), GRIDCo, IPP Office, South Africa, Kenya Electricity Transmission Company, Kenya Power and Lighting Company, Moroccan Agency for Sustainable Energy (Masen), Ministry of Water Irrigaton and Energy, Ethiopia, Ministry of Energy, Kenya, Ministry of Energy, Tanzania, Ministry of Finance & Development Planning, Liberia, Ministry of Mines & Energy, Namibia, National Authority for Regulation of the Electricity Sector of Côte d'Ivoire (ANARE-CI), National Energy Regulator of South Africa, Nigerian Electricity Regulatory Commission, Rural Electrification Agency (Nigeria), Southern African Power Pool (SAPP), UK Export Finance

Development finance

Africa Finance Corporation, African Development Bank, Africa50, CDC Group, DEG, FMO, Ghana Infrastructure Investment Fund, Impact Africa Invest, Japan Bank for International Cooperation, Multilateral Investment Guarantee Agency, Millennium Challenge Corporation, Power Africa, Private Infrastructure Development Group

Finance and investment

Actis, AIIM, Blue Horizon, BlueOrchard Finance, Climate Investment Funds (CIF), Denham Capital, GKB Ventures, Greengate, International Finance Corporation, Inspired Evolution Investment Management, Lion's Head Global Partners, Mahlako, Maris Capital, Meridiam, New Market Capital, Ninety One, Rand Merchant Bank, Societe Generale, Standard Bank, Subnational Climate Fund

Power developers

Africa GreenCo, Anergi Group, Aqua Africa, Azura Power, Burmeister & Wain Scandinavian Contractor, Bushveld Energy, Clarke Energy, GE, Genesis Energy, Genesis Eco-Energy Developments, Globeleq, Gridworks, Impala Energy, Lekela, Milele Energy, Proton Energy, Scatec, Sojitz Europe, Solarcentury Africa, Sun Africa, TotalEnergies, Virunga Power, Wärtsilä

Off-Grid

Astonfield Solar, Bboxx, CrossBoundary, GOGLA, GridX Africa, Renewvia Energy, Shell Energy Access, SolarCentric Technologies, Starsight Energy, SteamaCo, SunFunder, Zola Electric

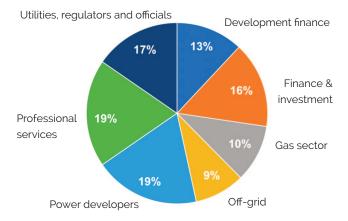
Gas sector

BP, Chariot, Cheniere, Circle Gas, Gigajoule, Kosmos Energy, Monetizing Gas Africa, Renergen, Savannah Energy, Shell, SLR, TotalEnergies, Vitol, Vopak LNG, Wison

Professional services

AfIDA, African Energy, African Trade Insurance, Alipo Global, Alliant Insurance Services, Baker Mckenzie,Bowmans, Bracewell, Chatham House, Clifford Chance, DNV, Economic Consulting Associates (ECA), EED Advisory, Energy Exchange, Gide Loyrette Nouel, GreenMax Capital Group, Harmattan Renewables, Havergate Infrastructure Partners, Herbert Smith Freehills, Latham & Watkins, Mercados - Aries International, Multiconsult, Norton Rose Fulbright, Philae Advisory, Ricardo, Thunder Energy, Tony Blair Institute for Global Change, University of Cape Town

Participants by industry



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Sponsor the hybrid AIX: Power & Renewables meeting

Sponsorship package includes:

- Participation in the programme
- Panellists can participate in-person at RSA House or join the panel virtually.
- 3 guest passes including 1 panellist slot for both meetings at RSA House, London.
- 50% discount off any additional tickets
- Unlimited number of users from sponsors' organisation have online access AIX Power & Renewables sessions
- Corporate logo on event website, online conference platform, agenda, brochure, marketing emails, headline slides, meeting bag and banners
- Full page colour advert in the meeting book
- Corporate literature in meeting bag

- Input on the agenda
- Photos of panel sessions for social media and web use
- Your video on Swapcard platform for viewing before, during and after each event

Sponsorship for the AIX Power & Renewables meeting in November 2021 = **£9,000** + UK VAT

Additional options

- Meeting room, with tea and coffee, for sponsor to conduct private meetings with clients and potential clients
- Evening reception sponsor
- Lunch sponsor
- Session sponsor
- Coffee break sponsor

Contact **Ricky Purnell** for more details: **T**: +44 (0) 7919 130 324 **E**: ricky@cbi-meetings.com **W**: africa-investment-exchange.com

Attend AIX: Power & Renewables

AIX: Power & Renewables registration

16 & 17 November 2022

£1,850 plus UK VAT

Book now

Alternatively, contact Lauren Slater, Events Coordinator to request an invoice: T: +44 (0) 1424 721667 E: lauren@cbi-meetings.com



Terms & Conditions

Payments: All bookings made prior to the conference must be paid in full to guarantee registration. If payment is not made at the time of booking, registration will be provisional. **Cancellation**: The fee is non- refundable if cancellation is received less than two weeks before the booked meeting. For a cancellation before this date the fee will be refunded, less a handling charge of £80.

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