

18th annual

POWER & ELECTRICITY WORLD AFRICA 2015

24 - 25 March 2015 | Sandton Convention Centre, Johannesburg, South Africa

Africa's largest < power & energy > show

FEATURING



6000 attendees 500 delegates 80 speakers 26 African countries 18 years of business success

Host Ministry



Diamond Partner



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Thousands are part of our African electricity story

The year 1997 will always be memorable – it's when we hosted the first annual Power and Electricity World Africa conference. Terrapinn (the organisers of the show) wanted to play a central role in influencing the growth of the energy sector. This first event acted as the building block for channelling attention and investment as well as a guide to honing in on what is relevant and critical for all in the African energy sector.

This is Africa's longest running and largest power and energy show - an exhibition with 6000 attendees and a mecca of solution providers spanning 3 halls and thousands of square meters.

GE, Barloworld Power, Siemens, MTU, Alstom, Voith, IBM, ABB, Mott Macdonald, Solar World Africa, Yingley Solar, Vestas, SMA, Arup... just to name a few, have all leveraged Power and Electricity World Africa as their once-a-year opportunity to meet and do business with new and existing customers.

Billions of dollars of business have either been initiated, concluded or influenced at this show.

What originally started as a conference, has since expanded exponentially into a world class exhibition and conference. Year on year, the event provides our partners with access to over 500 African energy utility and IPP decision makers, who traditionally are difficult to reach. And most importantly, the show allows them to meet real buyers.

We are proud to have hosted utilities such as STEG, Eskom, Nampower, Zesco, KenGen, TanESCO, EDM, ENE Ethiopian Electric Power, CEET, SNEL, Senelec, Sonabel, Nigelec, GRIDco and many others over the years. And this year we will welcome back in excess of 26 African countries for the 2015 edition of the event. It is for good reason that Power and Electricity World Africa is endorsed by the Ministry of Energy in South Africa and has Eskom, Africa's largest utility as a Diamond Partner.

It's been 18 exciting business-filled years!

Power and Electricity World Africa continues to provide the meeting place for buyers, sellers and their partners to do the deals that drive Africa's energy sector. This is THE place where buyers find solutions to their challenges.

Let's not forget that our expo presents the largest gathering of solution providers to the African continent.

"A truly world class show" - "WOW" - "The best energy show" - "Mind blowing" are a few of the words our customers have used to describe the show.

TENS OF THOUSANDS of executives and business leaders from across Africa have attended the show over the last 18 years.

You should join us too! Come find out why they keep coming back!



Thinking differently... learn, innovate, share and collaborate

Power & Electricity World Africa will bring together thousands of industry professionals to share ideas on the latest innovations in electricity generation and the entire energy value chain. The show maximises learning through; keynote speakers, regional project case studies, roundtable discussions and seminars.

Abundant networking opportunities

We understand that networking and finding partners is key. To maximise your experience we have lined up numerous exciting opportunities for you to network:

- A themed cocktail party sponsored by Shoals Technologies
- Africa Energy Awards Gala Dinner
- A networking application with the entire list of attendees
- Coffee and lunch breaks
- Networking options

Superior content

What are the top trends in the energy sector? What are the biggest opportunities? Superior content on smart electricity, solar, nuclear, maintenance and asset management. Coal, power distribution, energy storage, gas power, finance, investment and billing, are also top of the agenda.

Solution provider exhibition

Explore exciting technologies by networking and participating in live demos taking place on all the exhibition floors.

Seats are limited. Call Kelly NOW on +27 11 516 4038 to book www.terrapinn.com/powerafrica



6000

attendees

500

delegates

80

speakers

26

African countries

18

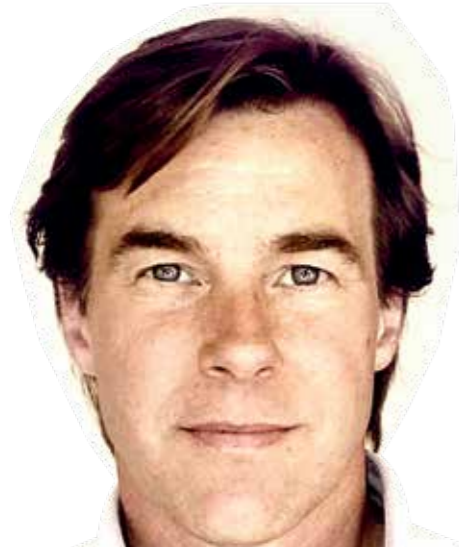
years of business success

Disruptive. Innovative. Forward thinking. Innovators for a brighter energy future

Register today
to hear from
these exciting
energy leaders

The keynote speakers are energy experts and entrepreneurs who are passionate about the power & electricity sector. It's rare to find true visionaries who are able to articulate the power & electricity opportunities and challenges that lie ahead. What's even more rare is having four of them together under one roof.

On 24 - 25 March 2015, we're bringing together the 'headline act' of speakers, unrivalled by any event you've been to before. These speakers will help you bridge the gap between the challenges facing the energy sector and help you take advantage of opportunities offered by the sector. Step into tomorrow's energy world.



Dr Robert Stoner

Deputy Director for Science and Technology
MIT Energy Initiative, United States



Priyanka Bakaya

Chief Executive Officer
PK Clean Energy, United States



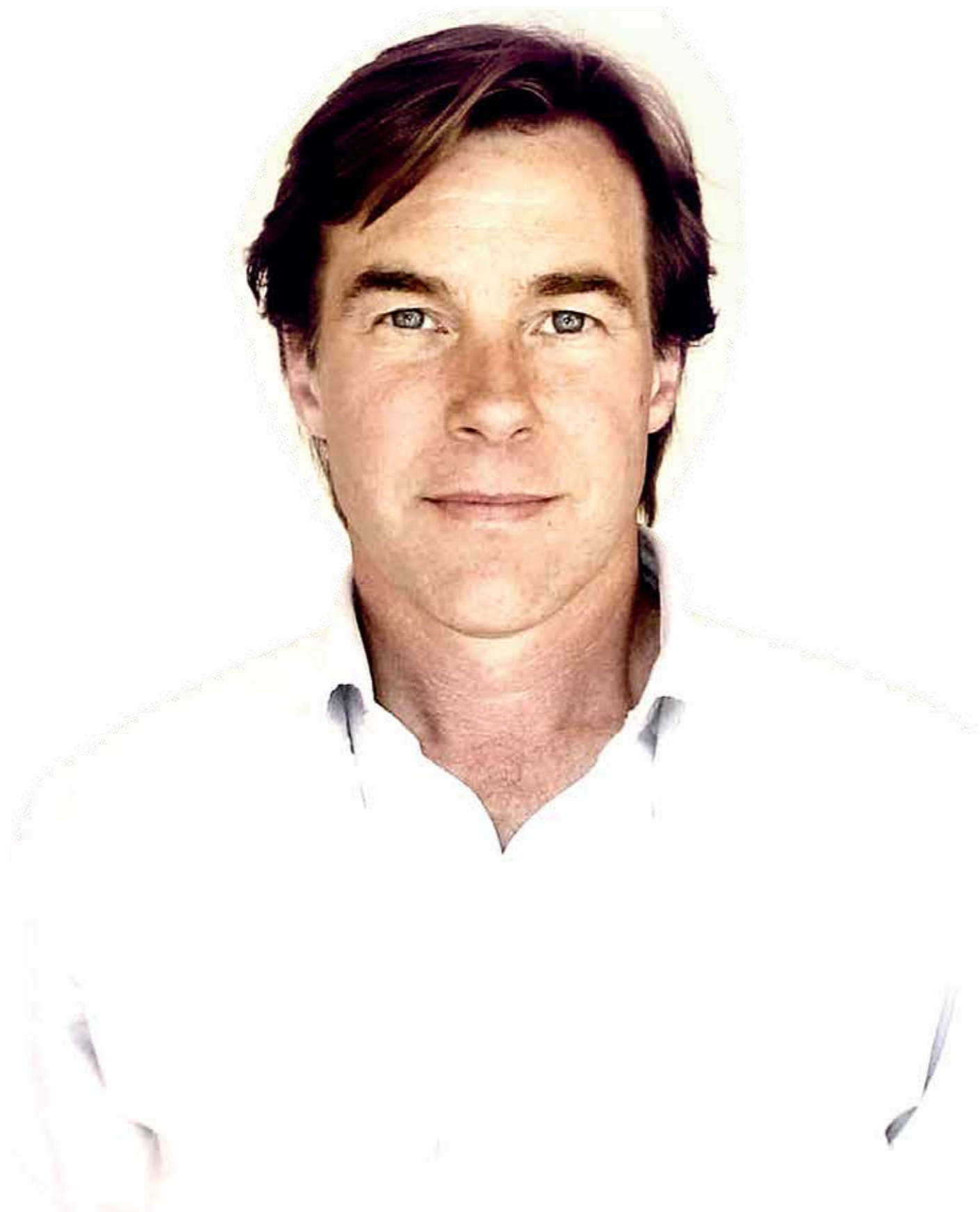
Dr. Matthew L. Scullin

Founder & Chief Executive Officer
Alphabet Energy, United States



Jothi Periasamy

Chief Data Scientist, Harvard Innovation Lab,
Harvard University, United States



Dr Robert Stoner

Deputy Director for Science and Technology
MIT Energy Initiative, United States

The mind shaping our energy future

Writing the blueprint for the future of energy.

It is business unusual for the energy sector. The sector is set for a big shake up. Smart grids, decentralised power, automation, smart metres and storage are a few of the many trends that are starting to emerge in the sector. To help the sector prepare for major disruptions, Dr Stoner will speak about the future of energy, generation, demand and supply. He will help you position your company to meet future energy needs.

Dr Robert Stoner is an inventor, technology entrepreneur and the Deputy Director for Science and Technology at the MIT Energy Initiative as well as the founding Co-Director of the MIT Tata Centre for Technology and Design.

Call now on +27 11 516 4038 now to book your seat

www.terrapinn.com/powerafrica

Meet one of the most innovative energy entrepreneurs in the world!

Recognised by Forbes & Fortune Magazine as one of the finest Innovators & entrepreneurs of her generation.

Priyanka Bakaya is the CEO of PK Clean Energy. She is a graduate of Stanford and MIT. She has been listed in Forbes Magazine's 30 Under 30: Energy; Fortune Magazine's 40 Under 40: Ones to Watch; Inc. Magazine's The 25 Most Audacious Companies and is a 2013 Laureate of the Cartier Women's Initiative Awards.

Join Priyanka as she speaks about clean energy opportunities in renewables & waste energy. Priyanka will show you how you can make the clean energy transition. She will also discuss game changing technologies and how these will disrupt the future of energy.

Call us on +27 11 516 4038 to secure your one-on-one meeting with Priyanka

www.terrapinn.com/powerafrica



Priyanka Bakaya

Chief Executive Officer
PK Clean Energy United States



Dr. Matthew L. Scullin

Founder & Chief Executive Officer
Alphabet Energy, United States

A true technology pioneer

Matt is widely considered as a visionary, and one of the world's leading experts in the fields of waste-heat recovery and thermoelectric product development. Matt's background includes positions at General Motors and IBM, as well as in venture capital. Matt and his company have won numerous awards including being named a Technology Pioneer by the World Economic Forum as well as being featured in Forbes 30 under 30.

Join Matt as he speaks on waste-heat recovery as a valuable source of energy savings. He will demonstrate advancements in waste-heat recovery technology and applications that will bring efficiency into your industrial processes.

Call now on +27 11 516 4038 now to book your seat

Meet the grandmaster of Big Data...

... as he shows utilities how they can profit from Big Data.

Jothi has been recognised as a leader in his field by Forbes, TechCrunch, CIO Review, Mashable and many others. He is a teacher, author, speaker, thought leader, and mentor with hands-on deep expertise on big data and analytics. He was also accountable for leading and growing a multimillion dollar SAP data & analytics practice for three "Big 4" advisory firms: Deloitte, E&Y, KPMG.

Join Jothi as he speaks about how Big Data & the Internet of Things will change consumer and utility behaviour. Jothi will share his thoughts on how Big Data will revolutionise demand side management.

Book now to hear from Jothi!

www.terrapinn.com/powerafrica



Jothi Periasamy

Chief Data Scientist & Chief Innovator

Harvard Innovation Lab, Harvard University, United States

Call us on
+27 11 516 4038
to secure your
seat

Our ministers

Leaders. Influencers. Visionaries.

Energy has become central to economic growth across the African continent. Energy ministries are at the centre of this growth strategy. Engage with African energy Ministers as they take part in the ministerial panel talking about energy investment as a driver for economic growth. Want to hear about upcoming projects in their countries?

Join us for the panel! They will share their vision for the electricity & power sector. They will also talk about how you can work with their ministries to take advantage of the opportunities within their countries.



H.E. Tina Joemat-Pettersson

Minister

Ministry of Energy

South Africa



H.E. Djerassem Le Bemadjiel

Minister

Ministry of Petroleum, Mines and Energy

Republic of Chad



H.E. Ibrahim Matola

Minister

Ministry of Natural Resources, Energy and Environment

Malawi



H.E. Come Manirakiza

Minister

Ministry of Energy and Mines

Burundi



H.E. Minister Henri Ossebi

Minister

Ministry of Energy and Water

Republic of Congo

08:00 Registration & welcome refreshments

08:50 Chairpersons opening address **Nozipho Mbanjwa**, Anchor, **CNBC Africa, South Africa**

09:00 Ministerial welcome and address **H.E. Tina Joemat-Pettersson**, Minister, **Ministry of Energy, South Africa**

Big Picture

09:20 How Big Data & the Internet of Things will change consumer and utility behaviour

- Matching supply with predictive demand
- Predictive data analytics to improve revenue collection
- Smart meters at the forefront of Internet of Things
- Smart thermostats bringing big data to the people
- The next big technology boom will be in the energy space



Jothi Periasamy
Chief Data Scientist
Harvard Innovation Lab, Harvard University, United States

09:40 The future of energy, generation, demand and supply

- Keeping up with a rapidly growing world
- Disruptive technologies and what to expect
- Totally new business paradigms
- Infrastructure and modernisation
- Where are we, where are we going and how will we get there



Dr. Robert Stoner
Deputy Director for Science and Technology
MIT Energy Initiative, United States

10:00 Exhibition opening

10:10 Morning refreshments, exhibition viewing & networking

Streams > Workshops > Roundtables

	Coal & Gas	Finance & Investment	East Africa Country Spotlights	Workshop
11:00	<p>The future of African utilities – a focus on gas</p> <ul style="list-style-type: none"> • Market outlook • Trends <p>Tom Harris, Research Analyst, Frost & Sullivan, South Africa</p>	<p>New finance and ownership structures for renewables and distributed generation</p> <ul style="list-style-type: none"> • New types of ownership models • Innovative business models, partnerships and new sources of finance • The buy-in: transitioning from employee to partner • Intermediaries <p>Neside Tas Anvaripour, Chief Executive Officer, Africa50, Morocco</p>	<p>Uganda country spotlight New projects and what is being done to open the door for investment</p> <p>James Baanabe Isingoma, Assistant Commissioner for Energy, Ministry of Energy and Mineral Development, Uganda</p>	<p>Energy Efficiency</p> <ul style="list-style-type: none"> • Identify operating efficiencies within your company • Finding efficiencies in operations to reduce and optimize energy use • Tax incentives • Policy and regulation • Choice of technology • Financing instruments <p>Barry Bredenkamp, Senior Manager, Energy Efficiency, SANEDI</p>

Streams > Workshops > Roundtables

	Coal & Gas	Finance & Investment	East Africa Country Spotlights	Workshop
11:20	<p>Efficiency technologies for coal fired power stations</p> <ul style="list-style-type: none"> • Economics and funding • Procurement and quality • Maintenance and key drivers • Integrating new solutions - Boiler and combustion technologies • Predicting future needs and usage patterns <p>Mahama Kappiah, Director General, Ecowas Centre For Renewable Energy And Energy Efficiency, Cape Verde Islands</p>	<p>Opportunities for private equity investors</p> <ul style="list-style-type: none"> • Strategy and acquisitions • Getting in on green field activity early • Overcoming the challenges • How to identify operational excellence <p>Jens Thomassen, Director, Denham Capital, United States</p>	<p>Tanzania country spotlight New projects and what is being done to open the door for investment</p> <p>Engr. Felchesmi Mramba MD, TanESCO, Tanzania</p>	<p>Energy Efficiency (continued)</p>
11:40	<p>Evolving power generation technologies for Africa</p> <ul style="list-style-type: none"> • Technologies for efficiency • For the environment • Your bottom line <p>Sascha Benkenstein, Area Sales Manager, Voith, Germany</p>	<p>How to structure funding solutions and win energy projects, even if you're not a bank</p> <ul style="list-style-type: none"> • Innovative debt • Post-ITC Financing • Tax equity 2.0 • Filling the vacuum left by banks • Securitisation transactions redefined <p>Antonio Barbalho, Sector Manager - Energy and Extractive Industries, World Bank, United States</p>	<p>Ethiopia country spotlight New projects and what is being done to open the door for investment</p> <p>Mekuria Lemma, Strategy and Investment Director, Ethiopian Electric Power</p>	
12:00	<p>9 Roundtables > Choose one of the 9 tables</p>			
	<p>Roundtable 1</p> <p>Is the standardised PPA agreement the way forward?</p> <ul style="list-style-type: none"> • Reducing red tape & legal review time • Streamlining the process • Opening new markets <p>Dr Nnaemeka Ewelukwa, General Counsel and Company Secretary, Nigerian Bulk Electricity Trading Plc</p>	<p>Roundtable 2</p> <p>Smart Grids in Nigeria</p> <ul style="list-style-type: none"> • Opportunities for technology leapfrogging in distribution networks • Distribution automation and control • Smart metering and sensing • Loss reduction <p>Dawie Pieterse, Vice President - Technical Services, Eko Electricity Distribution Company, Nigeria</p>		
	<p>Roundtable 3</p> <p>Skilling the next generation of engineers</p> <ul style="list-style-type: none"> • Creating a functional skills policy • Funding • Prioritising upskilling your current workforce <p>Jacob Maroga, Former CEO, Eskom, South Africa</p>	<p>Roundtable 4</p> <p>Comprehensive maintenance with minimal shut-downs</p> <ul style="list-style-type: none"> • A proactive approach to shut-downs • Type, quality of work and timing • Reducing long term costs • Managing shut-downs to reduce future down-time <p>Samkelo Simelane, CTO, Swaziland Electricity Company</p>		

Streams > Workshops > Roundtables

12:00	9 Roundtables (continued)		Workshop
	Roundtable 5	Roundtable 6	Energy Efficiency (continued)
	New participants entering markets with new ideas and new business models <ul style="list-style-type: none"> What to expect What are the drivers for innovation Creating a Google like culture What's next? Vincent Gueneau , Chairman, Kappafrik Group, UAE	How technology is enhancing competitive advantage for energy utilities <ul style="list-style-type: none"> Mobile and location aware technology Sensors, smart grids and big data Costs down, efficiency up Social media and consumer expectation Predictive analytics - avoiding future failure patterns Jean Jacques Ntab , Director of Information Systems, Senelec, Senegal	
	Roundtable 7	Roundtable 8	
	Making a profit on low tariffs <ul style="list-style-type: none"> Fundamentals Optimising operational efficiency Cost competitive generation Covering costs Clive Ferreira , Director, Fieldstone Africa, South Africa	How to manage project costs effectively <ul style="list-style-type: none"> Budget determination & cost-reduction Monitoring and control Kao ABI , Director, Compagnie Energie Electrique du Tog	
	Roundtable 9		
	Rural electrification in Benin <ul style="list-style-type: none"> Overview Opportunities for investment Charles Yaovi Koumable , Managing Director, ABERME, Benin		

12:40 Speed networking

12:50 Lunch, exhibition viewing & networking

Streams > Workshops > Roundtables

	Nuclear	West Africa Country Spotlights	Solar & Embedded Generation	Workshop
14:00	Nuclear energy in Africa <ul style="list-style-type: none"> Investment and payback Fundamentals and economics Overcoming safety concerns Partnerships and opportunity Dr Kelvin Kemm , Chief Executive Officer, Nuclear Africa, South Africa	Nigeria country spotlight <p>New projects and what is being done to open the door for investment</p> Kalu Ukoha , Senior Specialist Assistant Federal Ministry Of Power, Nigeria	Case study Commissioning East Africa's largest solar project in record time <ul style="list-style-type: none"> Negotiations Finance, taxes and the PPA Partnerships & working with the government Other learnings Chaim Motzen , MD, Gigawatt Global, UAE	Power Plant automation <ul style="list-style-type: none"> Asset health analytics Network security and automation: Why this should be a priority for utilities How substation automation will shift to IP based systems that rely on Ethernet switches and Intelligent Electronic Device (IED) Expect more M2M as technology prices continue to drop Introducing automation into an aging fleet Autonomous self-healing infrastructure Jasper Oduor , Former Executive Secretary, East African Power Pool, Kenya

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Streams > Workshops > Roundtables

	Nuclear	West Africa Country Spotlights	Solar & Embedded Generation	Workshop
14:20	Mini nuclear reactors <ul style="list-style-type: none"> A solution to improving the uptake of nuclear Cheap and safe – easy to deploy Remote site electrification Generating away from the grid David Martin , Chief Executive, The Weinberg Foundation, United Kingdom	Equatorial Guinea country spotlight <p>New projects and what is being done to open the door for investment</p> Alfred Olo Lima , Director General, Ministry Of Mines, Industry And Energy, Equatorial Guinea	How solar energy micro grids are meeting the demand for rural electrification <ul style="list-style-type: none"> Funding Fast implementation Challenges and success factors Market development The role of the utility, if any Meeting Africa's electrification challenges Houcine Azouz , CDM Project Management Officer, STEG, Tunisia	Power Plant automation (continued)
14:40	Session reserved for sponsor	Senegal country spotlight <p>New projects and what is being done to open the door for investment</p> Fatou Thiam , Unit Coordinator of Studies and Planning, Ministry of Energy, Senegal	Embedded generation and net metering <ul style="list-style-type: none"> International trends Cost considerations New and profitable business models Guidelines and tariff Brian Jones , Head: Green Energy, City of Cape Town, South Africa	
15:00	8 Roundtables (continued)			
	Roundtable 1	Roundtable 2		
	Should state owned energy assets be privatised? <ul style="list-style-type: none"> Privatising electricity assets and liberalise the market Profits versus universal access Is the Nigerian privatisation model working? Global ownership trends and: Where is the industry headed Rumundaka Wonodi , Chief Executive Officer, Nigerian Bulk Electricity Trading Plc	Gas generation outlook <ul style="list-style-type: none"> Global market outlook The role of gas in Africa's future energy mix New discoveries Floating liquefied natural gas plants as enablers Thomas Krimmel , Partner, Southern Biopower, Mauritius		
	Roundtable 3	Roundtable 4		
	How to effectively bring an IPP onto the grid <ul style="list-style-type: none"> The impact of the licencing process What is best for your market? Challenges and lesson learnt Moustaph Baïdy Bâ , Senior Engineer, Dept. of Studies, Senelec, Senegal	Opportunities in geothermal energy <ul style="list-style-type: none"> Investment and profit Exploration Leasing & unitization Water use Chris McCormick , Director – Strategy and Project Finance, Reykjavik Geothermal, United States		

Streams > Workshops > Roundtables

15:00

8 Roundtables (continued)

Workshop

Roundtable 5

Feed-in tariffs vs. competitive bidding

- Price considerations & economics
 - Cost-containment Mechanisms
 - Designing the procurement process
- Souleymane Ouedraogo**, Economist and Statistical Engineer, **Sonabel, Burkina Faso**
Emile Opangault, Director General, **Arsel, Republic of Congo**

Roundtable 6

Planning a grid for both large, and small-scale power producers

- Cost considerations
 - Stakeholder management
 - Stability and operations
- Reserved for ZESCO**

Roundtable 7

Big data and the benefits of utility analytics

- Improving grid operations
 - Customer analytics
 - Real time decision making
- Tristan Bergh**, Co-Founder, **Ixion, South Africa**

Roundtable 8

New financing models and partnerships for African infrastructure projects

- Mapping the new infrastructure financing landscape
 - Localised financing models
 - Time for PPP 2.0?
- Folabi Esan**, Partner, **Adlevo Capital, Nigeria**
Lolu Adubifa, MD, **Lavayo Energy, Nigeria**

Energy Efficiency
(continued)

Energy Investment

16:20

Keynote Panel: Energy investment as a driver for economic growth

- Building an ecosystem for energy entrepreneurship
- Electricity exports as drivers for growth
- Localisation & manufacturing
- Government and multilateral tools for encouraging energy financing
- Policy, regulation & capacity mechanisms



H.E. Tina Joemat-Pettersson
Minister
Ministry of Energy, South Africa



H.E. Djerassem Le Bemadjiel
Minister
Ministry of Petroleum, Mines, and Energy, Republic of Chad



H.E. Ibrahim Matola
Minister
Ministry of Natural Resources, Energy and Environment, Malawi



H.E. Come Manirakiza
Minister of Energy and Mining
Republic of Burundi



H.E. Minister Henri Ossebi
Minister
Ministry of Energy and Water, Republic of Congo

17:00

Chairpersons closing address and close of day one

17:10

PARTY!



To encourage diverse ownership of electricity resources, Neside will help you develop new ownership models.

Neside Tas Anvaripour
Chief Executive Officer
Africa50, Morocco



Learn from Chaim as he shows you how he commissioned East Africa's largest solar project in record time

Chaim Motzen
MD
Gigawatt Global, Israel



Rumundaka will lead a debate on the privatisation of state assets.

Rumundaka Wonodi
Chief Executive Officer
Nigerian Bulk Electricity Trading Plc



Join Dawie as he shares his thoughts on the smart grid opportunity in Nigeria

Dawie Pieterse
Vice President - Technical Services
Eko Electricity Distribution Company, Nigeria



Join Mahama as he speaks on energy efficiency opportunities in Africa.

Mahama Kappiah
Director General
Ecowas Centre For Renewable Energy And Energy Efficiency, Cape Verde Islands



Attend Alfred Olo Lima's presentation to learn about new projects in Equatorial Guinea

Alfred Olo Lima
Director General
Ministry Of Mines, Industry and Energy, Equatorial Guinea



Denham Capital is a Private Equity firm with \$7.9 billion in assets under management - they are looking to grow their investment portfolio.

Jens Thomassen
Director
Denham Capital, United States



Project costs running out of control? Join Kao as he shows you how to manage project costs effectively

Kao Abi
Director
Compagnie Energie Electrique du Togo



Join Charles as they speaks about rural electrification in Benin

Charles Yaovi Koumaple
Managing Director
ABERME, Benin



How can utilities use technology to enhance their competitive advantage? Jean Jacques has the answer

Jean Jacques Ntab
Director of Information Systems
Senelec, Senegal

08:00 Welcome refreshments

08:50 Chairpersons opening address **Nozipho Mbanjwa**, Anchor, CNBC Africa, South Africa

Leadership

09:00 Fireside chat with **Jacob Maroga**, Former CEO, Eskom, South Africa

- What was it like leading Africa's largest electricity utility?
- Lessons learned
- What advice would you give Eskom's new CEO



Jacob Maroga
Former CEO
Eskom, South Africa

09:20 Executives Panel The view from the top

- Leadership development & building capacity
- Disrupting every rule: The evolving utility
- Innovations



Engr. Felchesmi Mramba
MD
Tanesco, Tanzania



Paulinus Ilonga Shilamba
MD
Nampower, Namibia



Carlos José Neves
Chief Executive Officer
Empresa Nacional De Electricidade De Angola



William Amuna
Chief Executive Officer
GRIDco, Ghana



Engr. Oladele Amoda
Chief Executive Officer
Eko Electricity Distribution Company, Nigeria



Rachid Ben Dali
CEO
STEG, Tunisia

10:00 Morning refreshments, exhibition viewing & networking



Streams > Workshops > Roundtables

	Smart Electricity	Distributed Power & Waste Energy	North And Central Africa Country Spotlights	Workshop
11:00	Smart grids for South Africa <ul style="list-style-type: none"> • Strategic grid plan • Financing • Deployment • Future shifts in power-flow patterns Reserved for sponsor	Distributed power and how it's disrupting the electricity market <ul style="list-style-type: none"> • Redefining business models • Why more money is going into distributed solar • Collaboration and partnership opportunities • The ultimate solution for efficiency • An opportunity or challenge for utilities? Thomas P. Doyle , CEO, NRG Renew, United States	Tunisia country spotlight New projects and what is being done to open the door for investment Jamil Korked , Deputy General Manager, STEG, Tunisia	Big Data's impact on Energy Efficiency <ul style="list-style-type: none"> • Tailored electricity supply and demand services for customers • Better management of energy demand of households and intensive energy users • The use of operational analytics to improve asset performance, reduce operations costs, and improve network reliability • Using data analytics to improve operations and the customer experience Jothi Periasamy , Chief Data Scientist, Harvard Innovation Lab, Harvard University, United States
11:20	Meeting the challenges within central Europe high voltage grid <ul style="list-style-type: none"> • Managing a heavily meshed network • Incorporating a big amount of renewables • Operational planning, maintenance and real time operation • SCADA systems, operational planning systems and EDI • Network Codes Rudolf Baumann , Senior Adviser: Operations, Swissgrid, Switzerland	Waste-heat recovery as a valuable source of energy savings <ul style="list-style-type: none"> • Waste-heat recovery & and thermoelectric products • Delivering simple, reliable fuel savings • Managing & controlling the fleet Dr. Matthew L. Scullin , Founder & Chief Executive Officer, Alphabet Energy, United States	Chad country spotlight: New projects and what is being done to open the door for investment H.E. Djerassem Le Bemadjel , Minister, Ministry of Petroleum, Mines, and Energy, Republic of Chad	
11:40	Using electricity meters as smart grid sensors <ul style="list-style-type: none"> • Separating billing data from the grid power quality data • Detailed load profile and power quality data • Power quality monitoring & lower network costs Poul Berthelsen , Project Manager, NRGi, Denmark	Clean energy opportunities in waste energy Priyanka Bakaya , CEO, PK Clean, United States	DRC country spotlight: New projects and what is being done to open the door for investment Bernard Diaye , CGI3 Coordinator, Ministry Of Resources Hydrauliques And Electricity, DRC	



Streams > Workshops > Roundtables

12:00

9 Roundtables > Choose one of the 9 tables

Workshop

Roundtable 1

Markets & finance opportunities

- Green bonds on the rise
- Securing project finance
- Capital raising strategies
- Tapping into energy funds
- Finding a financial match for your project

Alastair Campbell, MD, Vantage Greenx, South Africa

Roundtable 2

Integrating renewables in electricity markets

- Overcoming operational problems
- Strengthening the grid backbone
- The modelling and forecasting of stochastic renewable power production
- Counteracting the variability and unpredictability of renewable units
- Trading renewable energy

Karim El-assefry, State Engineer: Renewable Energy, The Ministry Of Energy, Mines, Water and Environment, Morocco

Roundtable 3

A future proof architecture for smart grid

- Data that improves visibility
- Operational efficiency Incentives
- An intelligent grid
- Next gen DSM technologies

Mark Ossel, Vice President, OSGP, Netherlands

Roundtable 4

Privatisation & regulation

- License agreements
- An efficient energy trader
- Lessons from Nigeria

Dr. Haliru Dikko, Deputy General Manager, Nigerian Electricity Regulatory Commission

Roundtable 5

Building privately owned mining IPPs

- Finding a mine to work with
- Reaching financial closure
- Issues & challenges

Richard Doyle, COO, Avelar Energy, South Africa

Roundtable 6

South Africa's nuclear ambitions

- Can SA afford to go nuclear?
- Vendor financing as an option
- What are the alternatives?

Dr Kelvin Kemm, Chief Executive Officer, Nuclear Africa, South Africa

Roundtable 7

Next gen microgrids

- Realising the economic potential of microgrids
- Benefits for utilities
- New markets & monetization strategies
- Integration with macro grids

Dr. Lawrence Musaba, Coordinator Centre Manager, Southern African Power Pool, Zimbabwe

Roundtable 8

Energy storage – the sector's most important innovation

Karen Surridge-Talbot, Centre Manager: Renewable Energy, Centre of Research & Development Clean Energy, South Africa

Big Data's impact on Energy Efficiency
(continued)

12:40

Lunch, exhibition viewing & networking

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Streams > Workshops > Roundtables

14:00

Southern Africa Country Spotlights

Mozambique country spotlight
New projects and what is being done to open the door for investment

Benedito Diogo Lopes Chembeze, Deputy National Director of Electrical Energy, Ministry Of Energy Mozambique

Maintenance And Asset Management

Topic to be confirmed

Mongezi Ntsokolo, Division Executive for Generation, Eskom, South Africa

Billing & The Customer

How utilities can build a healthy bottom line

- Asset management strategies as an enabler for boosting plant performance
- Predictive demand: knowing when to cater to customer habits
- New revenue models
- A focus on cost recovery of electricity services
- Using asset analytics to profit from
- Distributed Energy Resources

Anish Garg, Director (Finance & Law), Joint Electricity Regulatory Commission, India

14:20

Angola country spotlight

New projects and what is being done to open the door for investment

Kiala Pierre, Director for International Cooperation, Ministry of Energy, Angola

Increasing your generation performance & energy availability

- Increasing performance
- Minimising downtime
- Optimising maintenance
- Keeping costs down
- Developing a recovery plan for underperforming assets

Philip Emeka Ugwu, Managing Director and Chief Executive Officer, Olorunsogo Power PLC, Nigeria

Mobile payments for utilities

- Unimagined new opportunity
- Developing a strategy
- Rolling out the strategy
- Ease of use, convenience & security
- In-App payment prospects

James Baanabe Isingoma, Assistant Commissioner for Energy, Ministry of Energy and Mineral Development, Uganda

14:40

Namibia country spotlight

New projects and what is being done to open the door for investment

Paulinus Ilonga Shilamba, MD, Nampower, Namibia

Creating the best O&M and CIP investment strategy for your business

- Fundamental elements
- Strategy
- Long term funding
- Future growth prospects

Reserved for EDM

Customer analytics goes big time!

- Optimising resource utilization
- Understanding the customer better
- Harnessing the power of big data
- Developing demand-response program analytics

Tristan Bergh, Co-Founder, Ixion, South Africa



Streams > Workshops > Roundtables

15:00

9 Roundtables > Choose one of the 9 tables

Roundtable 1

Securing long term fuel supplies

- Price and reliability
- Energy independence & security
- Dealing with potential shortages
- Implications of classifying coal as a strategic mineral
- Hybrid diesel plants as a secure generation investment?

Knox Msebenzi, Executive Director, Power Institute for East and Southern Africa, South Africa

Roundtable 2

Achieving interoperability on a smart grid

- Standards for interoperability
- Testing & certification requirements

Paul Johnson, Executive Secretary, AFSEC, South Africa

Roundtable 3

How regulators can strike the right balance when deciding on tariffs

- Factoring systemic issues
- Regulatory barriers and infrastructure bottlenecks
- Market price sensitivity

Dr Sam Amadi, Chairman and Chief Executive Officer, Nigerian Electricity Regulatory Commission

Roundtable 4

How shale gas will shake the energy market

- Sustainability and environmental challenges
- The potential impact of shale gas on other energy sources
- Prices and costs of generating from shale gas
- New technologies and policies

John Marks, Chairman, C.B.I., United Kingdom

Roundtable 5

The Energy Efficiency opportunity

- How governments can collaborate to make EE a priority
- Creating mechanisms to attract EE investment
- Encouraging behavioural change

Mahama Kappiah, Director General, Ecowas Centre For Renewable Energy And Energy Efficiency, Cape Verde Islands

Roundtable 6

Trans-regional power trading

- Designing the electric power market operating model
- Geopolitics in evolving regional energy frontiers
- Overcoming institutional, technical, technological, environmental and financial issues

Changullah Lebbi, Secretary General, East Africa Power Pool, Ethiopia

Roundtable 7

Opportunities in Africa for energy start-ups

- Future prospects and disruption
- How innovation is changing the energy sector
- Understanding and predicting demand

Mamadou Diarra, Head of Research, Nigelec, Niger

Roundtable 8

The Internet of Things & the smart grid: Unimagined new possibilities

- Electricity 2.0: Intelligent homes & networks
- More M2M sensors, storage buffers & switches
- Energy delivery and peak demand
- IoT security standards & PKI
- Weak links, privacy & black swans

Reserved for sponsor

Roundtable 9

Investing in existing & new assets

- Managing complexity and change in a new landscape
- Avoiding debt overhang
- Opportunities for investment

Zubair Suliman, Senior Investment Manager, KfW DEG, South Africa

Seats are limited. Call Kelly NOW on +27 11 516 4038 to book or visit www.terrapinn.com/powerafrica

15:40

Chairpersons closing address and close of conference

15:50

Afternoon refreshments, exhibition viewing & networking



Keen to know about Eskom's smart grid plans? Mongezi will share Eskom's plans on just that.

Mongezi Ntsokolo
Division Executive for Generation
Eskom, South Africa



NRG Renew is the biggest retailer of green power in America. Come learn how they accomplished that feat.

Thomas P. Doyle
CEO
NRG Renew, United States



Struggling to strike the right balance when deciding on tariffs? Dr Amadi can help.

Dr Sam Amadi
Chairman and Chief Executive
Officer
Nigerian Electricity Regulatory
Commission



Discover how Changullah plans to get the EAPP working and trading power.

Changullah Lebbi
Secretary General
East Africa Power Pool, Ethiopia



Join Rudolf as he speaks about managing a heavily meshed network

Rudolf Baumann
Senior Adviser: Operations
Swissgrid, Switzerland



Join Dr. Kemm as he speaks about South Africa's nuclear ambitions

Dr Kelvin Kemm
Chief Executive Officer
Nuclear Africa, South Africa



Join Poul as he speaks about using electricity meters as smart grid sensors

Poul Berthelsen
Project Manager
NRGi, Denmark



Join Richard as he speaks about building privately owned mining IPPs

Richard Doyle
COO
Avelar Energy, South Africa



Mamadou will uncover opportunities in Africa for energy start-ups

Mamadou Diarra
Head of Research
Nigelec, Niger

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Peer-to-peer roundtables

Want to shape the future of the power and electricity sector? Join our interactive roundtable sessions, designed to facilitate debates and discussions on how to move the sector forward.

Sit across the table and deliberate with executives from Africa's top utilities, large energy users, IPPs, municipalities, government ministries, investors and regulators.

Exchange business cards, share ideas and discuss the latest challenges facing the industry.

Take a look at the topics being discussed...

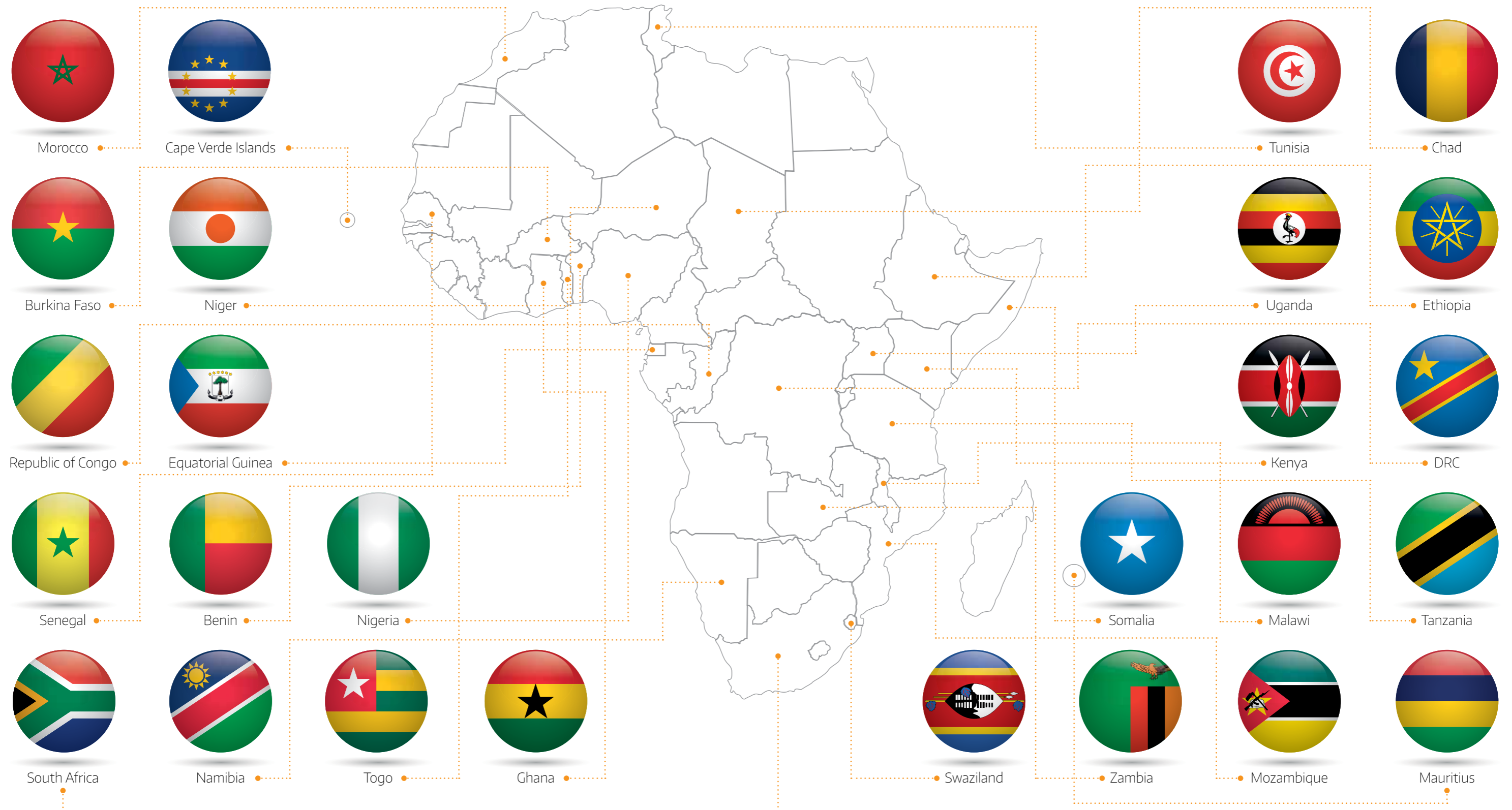
Is the standardised PPA agreement the way forward?	Rural electrification in Benin	New financing models and partnerships for African infrastructure projects
Smart Grids in Nigeria	Should state owned energy assets be privatised?	Markets & finance opportunities
Skilling the next generation of engineers	Gas generation outlook	Integrating renewables in electricity markets
Comprehensive maintenance with minimal shut-downs	How to effectively bring an IPP onto the grid	A future proof architecture for smart grid
New participants entering markets with new ideas and new business models	Opportunities in geothermal energy	Privatisation & regulation
How technology is enhancing competitive advantage for energy utilities	Feed-in tariffs vs. competitive bidding	Building privately owned mining IPPs
Making a profit on low tariffs	Planning a grid for both large, and small-scale power producers	South Africa's nuclear ambitions
How to manage project costs effectively	Big data and the benefits of utility analytics	Next gen microgrids



We've got Africa covered

Call us now on
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seat

Never before have 26 African countries been under one roof to deliberate the future of energy in Africa.





Full day workshop Monday 23 March 2015

How to ensure a successful IPP license bid

Objective

This workshop will focus on all aspects for a successful IPP license bid.

09:00

Registration & refreshments

09:30

Introduction and background

10:00

Preplanning phase

11:00

Morning refreshments & networking

11:30

Concept design

12:30

Economic development

13:00

Networking lunch

14:00

Securing finance

15:00

Execution & Finalisation

11:00

Afternoon refreshments & networking

16:00

Operations and maintenance

17:00

End of workshop

Your workshop leaders



Lisa Tait
Chairperson
Transcend, South Africa



Lolu Adubifa
Managing Director
Lavayo Energy, Nigeria

Seats are limited. Call us now on +27 11 516 4038 to reserve your place www.terrapinn.com/powerafrica



This is your chance to spend 90 minutes learning and interacting with some of the world's foremost energy leaders. You'll learn how to focus on big ideas in energy and how you can profit from them. You can interact, discuss and learn from your peers across Africa and brainstorm other big ideas to build the future of energy around the world.

1

How utilities can build a healthy bottom line

- How to mitigate municipal and national revenue loss
- Asset management strategies as an enabler for boosting plant performance
- Predictive demand: knowing when to cater to customer habits
- New revenue models
- A focus on cost recovery of electricity services
- Should municipalities pay for electricity lost in transmission?
- Using asset analytics to profit from Distributed Energy Resources

Date > Tuesday 24 March 2015

Time > 11:00

WORKSHOP
LEADER



Barry Bredenkamp
Senior Manager, Energy Efficiency
SANEDI

2

Big Data's impact on energy efficiency

- Tailored electricity supply and demand services for customers
- Better management of energy demand of households and intensive energy users
- The use of operational analytics to improve asset performance, reduce operations costs, and improve network reliability
- Using data analytics to improve operations and the customer experience

Date > Tuesday 24 March 2015

Time > 14:00

WORKSHOP
LEADER



Jothi Periasamy
Chief Data Scientist
Harvard Innovation Lab, Harvard
University, United States

3

Power plant automation

- Asset health analytics
- Network security and automation: Why this should be a priority for utilities
- How substation automation will shift to IP based systems that rely on Ethernet switches and Intelligent Electronic Device (IED)
- Expect more M2M as technology prices continue to drop
- Introducing automation into an aging fleet
- Autonomous self-healing infrastructure

Date > Wednesday 25 March 2015

Time > 11:00

WORKSHOP
LEADER



Jasper Oduor
Former Executive Secretary
East African Power Pool, Kenya

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The Executives Panel

Leadership is central to the workings of any utility. Attend the Executives Panel as CEOs from around Africa share their vision for the power & electricity sector. They will also tell you about the things that keep them awake at night.

Join us for the panel.
This is your only opportunity to ask them the hard questions –don't miss it.



Carlos José Neves
Chief Executive Officer
Empresa Nacional De
Electricidade De Angola



William Amuna
Chief Executive Officer
GRIDco, Ghana



Rachid Ben Dali
Chief Executive Officer
STEG, Tunisia



Engr. Felchesmi Mramba
Managing Director
Tanesco, Tanzania



Oladele Amoda
Chief Executive Officer
Eko Electricity Distribution Company,
Nigeria



Paulinus Ilonga Shilamba
Managing Director
Nampower, Namibia

Country Spotlights

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seat

Attend the country spotlights and sessions at Power & Electricity World Africa to learn of upcoming projects. The country spotlights showcase new projects and what is being done to open the door for investment.

Want to learn about the latest projects in the electricity & power sector?
Want to meet the people driving the projects?

East Africa Country Spotlights



Uganda



James Baanabe Isingoma
Assistant Commissioner: Energy
Ministry of Energy and Mineral Development, Uganda



Tanzania



Engr. Felchesmi Mramba
MD
Tanesco, Tanzania



Ethiopia



Mekuria Lemma
Strategy and Investment Director
Ethiopian Electric Power

West Africa Country Spotlights



Nigeria



Kalu Ukoha
Senior Special Assistant
Federal Ministry of Power, Nigeria



Equatorial Guinea



Alfred Olo Lima
Director General
Ministry Of Mines, Industry And Energy, Equatorial Guinea



Senegal



Fatou Thiam
Unit Coordinator of Studies and Planning
Ministry of Energy, Senegal

North And Central Africa Country Spotlights



Tunisia



Jamil Korked
Deputy General Manager
STEG, Tunisia



Chad



H.E. Djerasse Le Bemadjjel
Minister
Ministry of Petroleum, Mines, and Energy, Republic of Chad



DRC



Bernard Diaye
CGI3 Coordinator
Ministry Of Resources Hydraliques and Electricity, DRC

Southern Africa Country Spotlights



Mozambique



Benedito Diogo Lopes Chembeze
Deputy National Director of Electrical Energy
Ministry of Energy Mozambique



Angola



Kiala Pierre
Director for International Cooperation
Ministry of Energy, Angola



Namibia



Paulinus Ilonga Shilamba
MD
Nampower, Namibia

How you benefit

We know & understand that relationships matter more than ever in the power & energy space. The success of the event will be determined by the number of quality contacts you make. We guarantee you will meet buyers at this show.

With thousands of attendees, including 500+ senior buyers from African utilities and delegations from across Africa, Power & Electricity World Africa is no average event.

Networking Benefits

- Engage & meet relevant business people
- Access the entire list of relevant, professional possible future business partners
- Personalise your event experience with our updated schedule
- Select the most relevant candidates to meet to get the full benefits
- Access & download presentations post-event
- Perfect co-ordination & planning to suit your needs



How you network

STEP 1

Visit the App store & download our Networking App – Total Electricity

STEP 2

Begin networking; login using your unique password & email I.D, you will receive the login details as soon as you register

STEP 3

Manage your diary, send & accept meeting invites. Easily view your meetings, agenda, maps, notes, favourites & more

STEP 4

Finalise your pre-show & on-site schedule. Free WIFI is available

STEP 5

Use our Meeting Hub to meet with your pre-selected key executives. You can pre-book a secluded meeting room for maximum privacy

STEP 6

After the event you can still keep in touch with people you connected with on-site as well as anybody you might have missed



“Great show.
Well organised.
Keeps getting better.”

Dr W. Barnard
Acting DG
Department of Energy, South Africa



The Africa Energy Awards

8th AFRICA ENERGY AWARDS 2015

The awards recognises outstanding achievements in energy research and technology from Africa and around the world. The drive for success and competitive advantage, coupled with the need to satisfy spiralling energy demands across the world is what's pushing futurists and disruptors to deliver new practical energy solutions and innovations.

The awards aim to highlight vision, opportunity and innovation in the energy sector. This prestigious evening will not only recognise individuals and companies changing the future of power, but will showcase the revolution taking place in the power sector and the new opportunities its creating.

The Africa Energy Awards will be awarding excellence in the following categories...



African energy leader of the year



Premier energy project of the year



Small and medium energy company of the year



New category for 2015: The African Energy Innovation Prize

Breaking news!

THE AFRICA ENERGY AWARDS IS AWARDING

US \$30,000

TO TOP AFRICAN INNOVATORS



**AFRICA
ENERGY
INNOVATION
PRIZE**

Breaking news: The Africa Energy Awards is awarding US\$30 000 to top African innovators.

In a bid to encourage innovation in the African energy sector, The Africa Energy Awards will award US\$30 000 to Africa's top energy innovator.

May the most innovative and exciting entrepreneur win!

Call Marlien NOW on +27 11 516 4048 if you want your brand to be associated with excellence & innovation.

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Networking

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Seminars

Educate your customers about your solutions and products which will help them achieve their business goals in our dedicated seminar theatres.

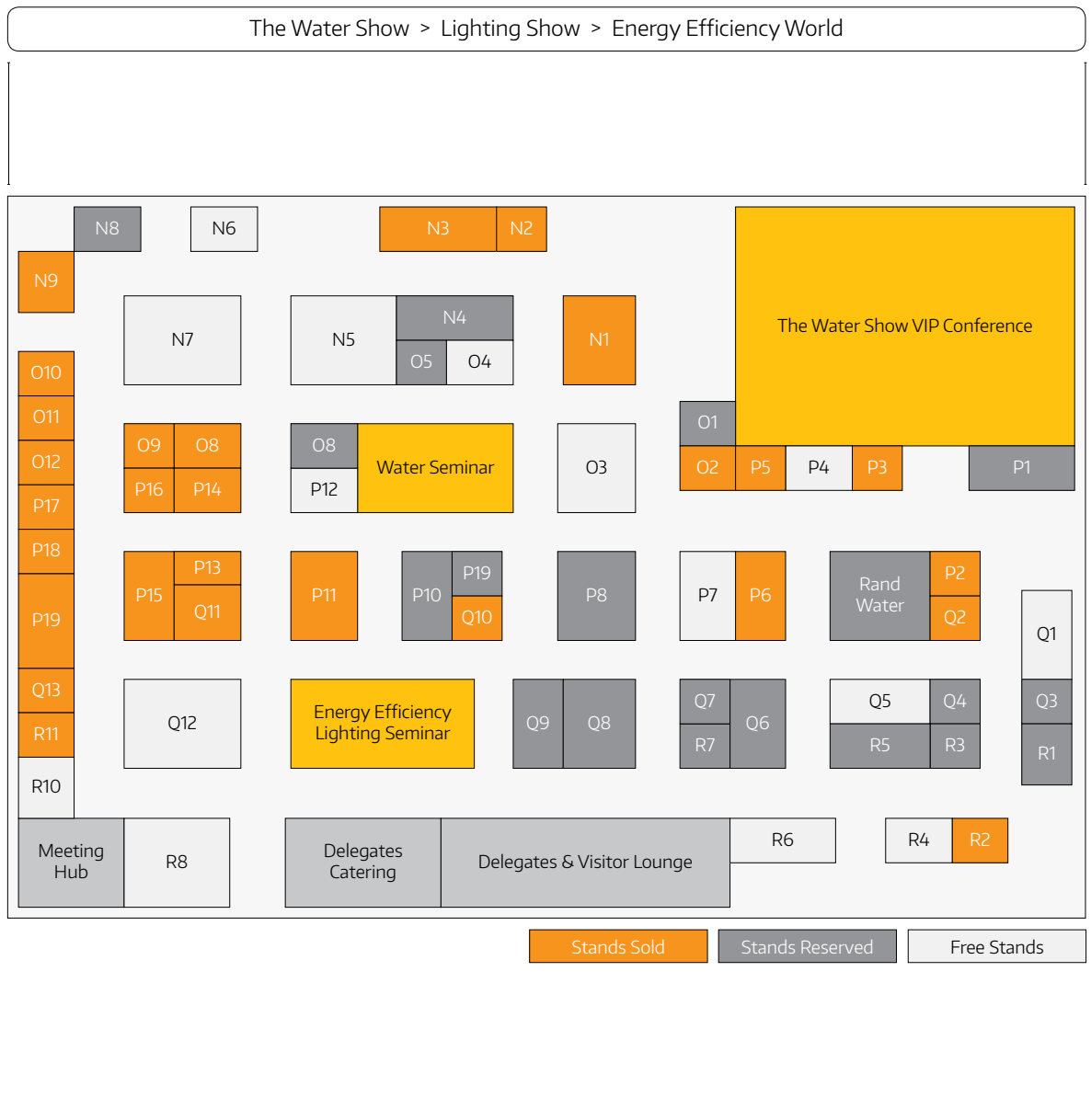
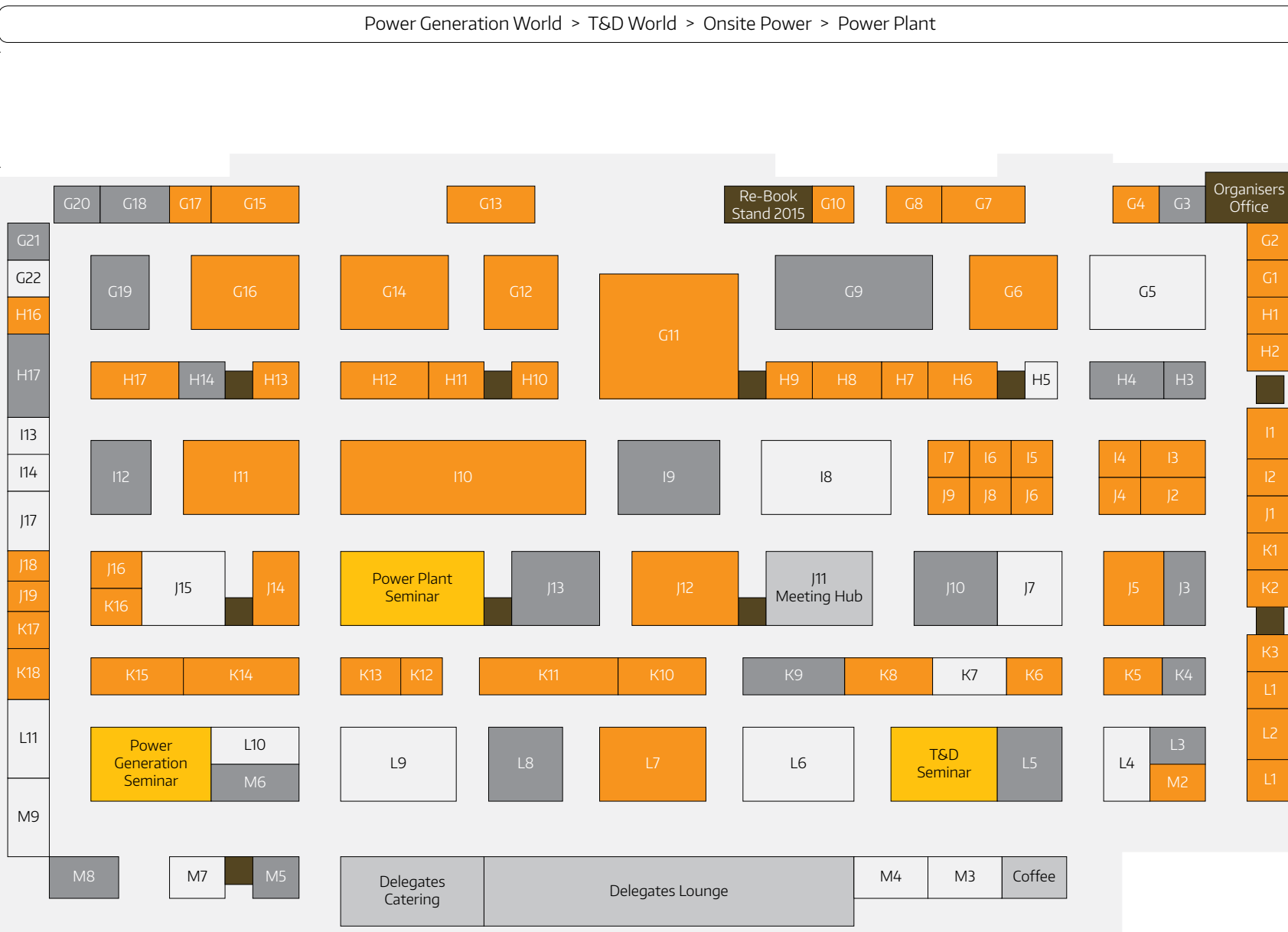
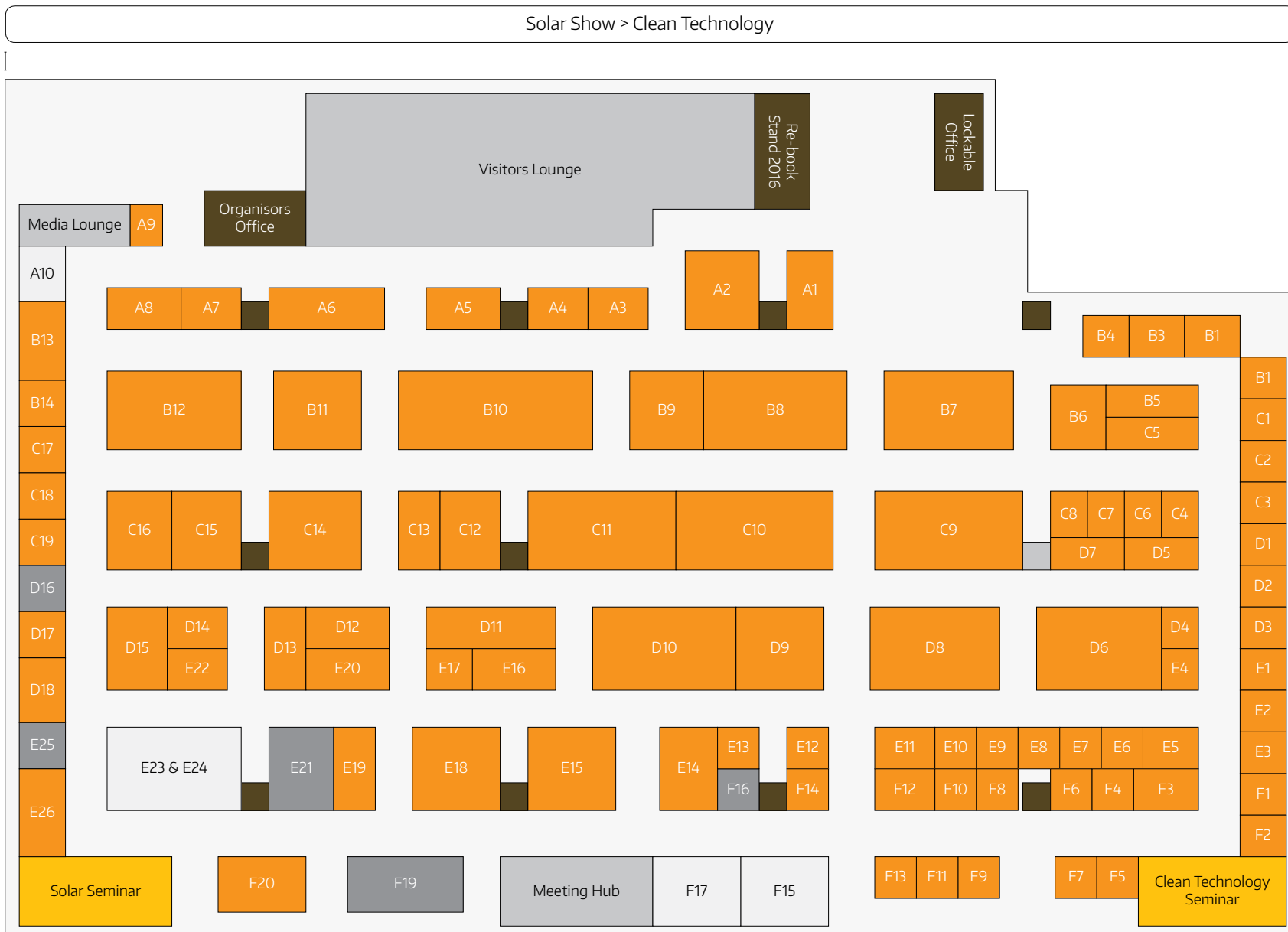
VIP Conferences

Learn about Power & Electricity innovation. The world's most ground-breaking thinkers and industry innovators will deliver their visionary presentations which will excite, provoke, inspire and engage you

Visitor and Delegate Lounge

Keep your energy levels up and enjoy lunch and refreshments or meet with prospective clients throughout the day at your local lounge or café.

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2015 Exhibitors

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