



power ***& Electricity*** ***World Africa 2011***

28 March – 01 April 2011
Exhibition: 30 - 31 March 2011
Sandton Convention Centre
Johannesburg, South Africa



**Investment and development
for operators, developers,
government and investors**

- Meet and network with Africa's energy leaders
- Learn about the latest projects from coal to renewable
- Attract investment to your power projects
- Form winning partnerships

Africa's largest energy show

Event at a glance

DAY 1

29 March 2011

Clean Technology WORLD Africa 2011

- Africa's clean energy vision
- Investment & financing
- Regulation & incentives
- Renewable energy streams: Solar, Wind, Geothermal, Water & Hydropower

DAY 2-3

30 - 31 March 2011

power GENERATION WORLD

- Generating Africa's power future
- Finance & investment
- Regulation
- Nuclear
- Natural & alternative gas development
- Regional updates

DAY 4

1 April 2011

smart ELECTRICITY WORLD AFRICA 2011

- Africa's smart energy future
- Partnerships
- Money
- Smart metering
- Demand-side management

DAY 4

1 April 2011

IPP WORLD Africa 2011

- Big picture
- Regulation
- Cost of power
- Projects & innovation
- Partnerships
- Customer perspectives
- Regional reviews

Who should attend

- Power producers, utilities, power pools
 - IPP's, co-generators, project developers
- Government, municipalities & regulators
 - Investment & funding: private equity, venture capital, development agencies, cleantech funds, development banks
 - Finance: banks, investment banks, project finance firms
- Oil & Gas – petrochemical companies
- Water utilities and boards
- Major energy users

3 WORKSHOPS, 1 DAY

Workshop 1: The principles of project finance in energy

Workshop 2: Constructing renewable energy projects in Africa – improving risk sharing and preparing framework contracts

Workshop 3: Introduction to CDM and its application into the renewable sector in Africa

28 March 2011

Confirmed African utilities to date:



Hear from:



Titus K. Mbathi
Chairman
Kenya Electricity Generating Company Ltd, Kenya

Titus is the Chairman of Kenya Electricity Generating Company, Platinum Credit Limited and Athi River Mining Foundation. He has been honoured with a Decoration - Elder of the Golden Heart of Kenya.

“Regional power generation and trade could save Africa \$2bn a year”

Engineering News,
August 2010



Chris Faulkner
CEO
Breitling Oil and Gas, USA



Thava Govender
MD: Generation
Eskom, South Africa



Erica Johnson
Chief Officer: Customer Network Business
Eskom, South Africa

Erica joined Eskom in 1994 in the Distribution division. She has been intricately involved with the re-establishment of a secure supply of electricity in the country by bringing the power system back into balance.



Julius Riungu
Chief Executive Officer
Tsavo Power Company, Kenya



Sharon Kedmi
Director General
Ministry of Industry and Trade of Israel, Israel

“The conference in Johannesburg was well organised and well attended. Participation was of a very high standard and I was privileged to have the opportunity to rub shoulders with the high and mighty of the Energy & Power Sector in Africa.”

Jasper Odour,
Executive Secretary,
Eastern Africa Power Pool, Ethiopia



Robert P. Powers
President
American Electric Power Utility, USA



Paulinus Shilamba
Managing Director
NamPower, Namibia



Dr Frank Sebbowa
Chief Executive Officer
Electricity Regulatory Authority of Uganda, Uganda



Gerhard Coeln
Chief Executive Officer
Erongo RED, Namibia



Mark Ossel
Vice President, Echelon and Board Member
ESNA, The Netherlands



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



Dr. Latsoucabe Fall
Regional Manager: Africa
World Energy Council, Senegal



Jasper Oduor
Executive Secretary
Eastern Africa Power Pool, Ethiopia



Andre Barlow
Head - Treasury & Strategic Finance
NamPower, Namibia



Jeremie Bitanga
Project Director
AES-SONEL, Cameroon



Mike Eyre
Director
IPSA Group, United Kingdom



The earlier you book the more you SAVE

See the registration form for more details

Survival of the fittest – the power generation battle between fossil fuels and renewables!

Deciding between fossil fuels or introducing renewable energies into your African country or region feels like you're stuck between a rock and a hard place – right?

Africa's entire continent is at this junction – which way do you turn and which will give you the best return on your investment?

The best place for you to make that choice is at *Power & Electricity World Africa 2011*.

Power & Electricity World Africa gives you so many options that by the time you leave you will be able to not only implement your solution, but back it up with the right **investors**, the right **financiers** and valuable management **strategies** that will provide you with instant success!

For 5 days, over **150 speakers** will be blowing you away with what's really going on behind the scenes of Africa's power and electricity sector. They will give you the options that will work for you!

Get the latest on:

- Power generation
- Clean technology and renewable energy
- Smart electricity
- Independent power producers
- Bioenergy
- Greenbuildings
- Energy efficiency
- Transmission and distribution
- On-site power
- Hydropower

Don't get caught out again! Make sure you book your seat. This will be the best decision you will ever make! Register online today!

Outstanding

**"The event
highlighted a
number of issues
that need to be
addressed in order
to reduce power
shortage in the
region and in
Africa as a whole"**

F.M. Hloaele,
MD, Lesotho Electricity
Company

A

**Honour
Dipuo P
Minister
Departm
South A**

Minister Peters has been M
Africa since 2009. Her m
management of provision
transformation and Ener
improve economic growth



Get up close and personal



Pius Apuye
Executive Director:
Finance & Administration
**Power Holding Company
of Nigeria**



Sydney Zeederberg
Energy Manager
Sasol, South Africa



Michael Tarney
Managing Director of Corporate
Development
**Copperbelt Energy
Corporation, Zambia**



Emmanuel Lubandi
Financial Manager
**Uganda Electricity
Generation Company, Uganda**



François Nguyen
Senior Policy
Advisor -
Electricity Markets
**International
Energy Agency,
France**



**Tu
de L
et du**

speaker line up

Setting Standards

amazing keynotes

Honourable Elizabeth Peters
Minister of Energy
Ministry of Energy,
Africa



Honourable Simon Gyu D'ujanga
Minister of State for Energy
Ministry of Energy and Mineral Development, Uganda



Honourable Grain Wyson Malunga MP
Minister
Ministry of Natural Resources,
Energy and Environment, Malawi



Christine Lins
Secretary General,
European Renewable Energy
Council, Belgium

Minister of Energy in South
Mandate is to oversee the
of services for effectual
gy access to ultimately
and development.

Minister D'Ujanga is a member of Parliament in the 8th Parliament. He also serves as Minister of State for Energy. His duties include: Policy direction in the Energy Sector. He has also been involved in the supervision of the construction of many critical power projects.



Prof Abubakar Sani Sambo
CEO, Energy Commission of
Nigeria and Vice-Chair for Africa,
World Energy Council, Nigeria



**"It has been excellent
information for Africa.
One of the best
conferences I
have ever been to."**

Robert Ferrier,
Manager: Planning and Design,
Buffalo City Municipality



Matthews Mooketsane Bantsijang
Director: Electricity Policy Analysis
and Regulation
Department of Energy,
South Africa



Karen Breytenbach
Senior Project Advisor - Financial
Analysis within PPP
National Treasury, South Africa

Hear from the best



Othman Ben Arfa
CEO
Société
unisienne
l'Electricité
Gaz (Steg),
Tunisia



Christopher Mubemba
Pre-paid Project
Manager
ZESCO,
Zambia



Sicelo Xulu
Acting Managing
Director
City Power:
City of
Johannesburg,
South Africa



Peter J. Neilson
Director: Energy /
Electricity Projects
Nelson Mandela
Bay Municipality,
South Africa



Katai Kachasa
General Manager
Lunsemfwa Hydro
Power Company,
Zambia



Dr. Zuko Kubukeli
Principal
Inspired Evolution
Investment
Management,
South Africa



Doug Kuni
General Manager,
IPPA
(Independent
Power Producers
Association),
South Africa

DAY ONE Tuesday 29 March 2011



Clean Technology World Africa

07:30 Registration and refreshments

08:15 Chairperson's opening remarks

Vicky Basson, CEO, KZN Energy Services, South Africa

Africa's clean energy vision

08:30 **International keynote address: Policy and implementation of renewable energy projects in Israel: a success story**

- How vigorous policies made renewable energy accessible and easy to implement in Israel
- How to identify renewable energy as an export growth sector
- Creating diverse platforms for Israeli companies to penetrate global markets
- What Africa can learn from Israel's success

Sharon Kedmi, Director General, Ministry of Industry and Trade of Israel

08:50 **Keynote address: Committing to Africa's clean tech vision**

- Establishing a clean technology fund to reduce carbons
- Ensuring a balanced approach to energy infrastructure
- Delivering large-scale energy capacity at an equitable cost

Honourable Elizabeth Dipuo Peters, Minister of Energy, Department of Energy, South Africa

09:10 **World leaders panel session: Changing the world's mindset on climate change and clean technologies**

- Achieving a firm policy framework for Africa
- Finalising the Copenhagen accord and other clean tech policies
- Who is taking centre stage in clean technology investment?
- Best practice from around the globe: advice for Africa's regions

Elizabeth Dipuo Peters, Minister of Energy, Department of Energy, South Africa

Sharon Kedmi, Director General, Ministry of Industry and Trade of Israel

François Nguyen, Senior Policy Advisor - Electricity Markets, International Energy Agency, France

Steve Sawyer, Secretary General, Global Wind Energy Council, Belgium

Representative, REEEP, Austria

Christine Lins, Secretary General, European Renewable Energy Council, Belgium

09:55 **Keynote address: Renewable energy market & policy development**

- Overview of global markets and future trends
- Understanding policies for renewable energy
- Benefits of renewable energy

Christine Lins, Secretary General, European Renewable Energy Council, Belgium

10:15 **Presentation by Mainstream Renewable Power**

Speaker to be announced, Mainstream, Renewable Power, South Africa

10:35 **Presentation by IBM**

Speaker to be announced, IBM, South Africa

11:00 Morning refreshments

Investment and financing

11:30 **Panel session: Rewards and risk for Africa's clean tech funds**

- Requirements for accessing clean tech funds
- Advice for securing partnerships: what are the requirements?
- Regulatory policies in place currently and going forward?

Christopher Clarke, Director & Principal, Inspired Evolution

Investment Managers, South Africa

Ulf Linders, Senior Investment Manager / Head of Infrastructure & Power, Swedfund international, Sweden

Mark Davis, Investment Director, Norfund, Norway

Cyrille Arnould, Head of GEEREF, European Investment Bank, Luxembourg

Bernhard Westerouen van Meeteren, Senior Investment Officer: African region, The Netherlands Development Finance Company (FMO), The Netherlands

Emmanuel Nzabanita, Officer in Charge/Chief Power Engineer: Energy Division, East and South Regions, African Development Bank, Tunisia

12:15 **Panel session: Banking on cleantech's financial future**

- What's the required ROI for clean technology investments?
- Debt, equity, venture capital, private equity funds
- Preferences for cleantech finance and the requirements?

Alastair Campbell, Project Finance Director, Standard Bank South Africa

Erik Wandrag, Director, Capital5, South Africa

Omar Vajeth, Head of Power & Energy, Absa Capital, South Africa

Andreas Ufer, Global Head Power, Renewables & Water, KfW Development Bank, Germany

13:00 Networking luncheon sponsored by Solar World Africa 14:00 **The case for Development Finance Institutions (DFI) vs. private investment**

- Achieving a mix: private investment and government funding
- Mobilising finance for project development
- Developing a relationship between DFI's & utilities
- Implementing good regulatory and governance structures

Damien Navizet, Energy and Climate Change Investment Officer, French Development Agency, South Africa

Regulation and incentives

14:20 **South Africa's REFIT programme - latest developments and the way forward**

- Update on latest developments
- Current status of programme and outstanding issues
- The way ahead

Scott Brodsky, Partner, Dewey & LeBoeuf, South Africa

14:40 **Panel session: Navigating Africa's cleantech regulation**

- Government's commitment to standardising incentives
- Getting to grips with REFIT
- Framing regulation to ensure reduced carbon emissions

Honourable Simon Gyu D'ujanga, Minister of State for Energy, Ministry of Energy and Mineral Development, Uganda

Honourable Elton Mangoma, Minister, Ministry of Energy and Power Development, Zimbabwe

Godwin Ugah Unimke, Programme Director, Council for renewable Energy Nigeria

Yousuf Haffajee, Manager, Single buyer office, Eskom, South Africa

Karen Breytenbach, Senior Project Advisor - Financial Analysis within PPP, National Treasury, South Africa

Joanne Yawitch, Deputy Director General, Department of Environmental Affairs, South Africa

Honourable Grain Wyson Malunga, Minister, Ministry of Natural Resources, Energy and Environment, Malawi

15:30 Chairperson's closing remarks and close of plenary

Renewable energy streams



Clean Technology World Africa

Solar stream

15:30 Chairperson's opening remarks

Thierry Lepercq, President & Director General, **Solaire Direct, France**

15:45 **Keynote address:** Illuminating the advantage of solar power - The Tunisian Mediterranean solar plan

- Actioning a long-term strategic framework

Othman Ben Arfa, CEO, **Société Tunisienne de L'Electricité et du Gaz (Steg), Tunisia**

16:05 **Case study:** Eskom's concentrated solar power plant

- An overview of Eskom's solar research and strategy

Wendy Poulton, General Manager Sustainability and Innovation, **Eskom, South Africa**

16:25 Afternoon refreshments & speed networking

17:00 **Panel session:** Solars potential to meet the worlds energy needs

- Best practice solutions for Africa

Wendy Poulton, General Manager Sustainability and Innovation, **Eskom, South Africa**

Godwin Ugah Unimke, Programme Director, **Council for Renewable Energy Nigeria**

Representative from REEEP, **Austria**

Othman Ben Arfa, CEO, **Société Tunisienne de L'Electricité et du Gaz (Steg), Tunisia**

Wendy Poulton, General Manager Sustainability and Innovation, **Eskom, South Africa**

Moderator: Christine Lins, Secretary General, **European Renewable Energy Council, Belgium**

17:45 Closing remarks by chairperson and end of Clean Technology day

Water & Hydro stream

15:30 Chairperson's opening remarks

15:45 **Keynote address:** Looking ahead to 2020 - hydropower as the leading power supply

- Ascertaining the financial viability of your project
- Regulatory risks involved with Africa's hydropower
- Assessing the environmental impact for new projects

Dr. Latsoucabe Fall, Regional Manager: Africa, **World Energy Council, Senegal**

16:05 **Water management sustainability to existing power plants**

- NOx reduction at Elektrownia Opole with ROFA and Rotamix
- The design and installation of systems
- CFD modeling and field results are compared

Brian Higgins, VP of Technology, **Nalco Mobotec, USA**

16:25 Afternoon refreshments & speed networking

17:00 **Panel session:** Hydro as Africa's competitive advantage

- Governments role in encouraging new hydro projects
- Is pumped storage commercially viable in your region?
- Advice for developing small-hydro power

Omona Jimmy Collins, Hydro Mechanical Specialist: Hydro Power Development Unit, **UEGCL, Ministry of Energy and Mineral Development, Uganda**

Babu Ram, Chief Power Engineer, **African Development Bank, South Africa**

Dr. Latsoucabe Fall, Regional Manager: Africa, **World Energy Council, Senegal**

17:45 Closing remarks by chairperson and end of Clean Technology day

Wind stream

15:30 Chairperson's opening remarks

15:45 **Keynote address:** Re-imagining Africa's wind atlas

- Wind power: short term solution to alleviate strained power
- Driving wind energy competition through a coherent policies

Steve Sawyer, Secretary General, **Global Wind Energy Council, Belgium**

16:05 **Presentation by GE Energy, South Africa**

16:25 Afternoon refreshments & speed networking

16:40 **Presentation by Vestas, South Africa**17:00 **Panel session:** The future of Africa's wind power projects

- Current and future technologies utilized for wind power
- Setting a reliable target for wind energy development by 2020

Thomas Donnelly, Associate Director, **Macquarie Capital, & Head, African Clean Energy Developments, South Africa**

Hamroun Adel, Direction de l'équipement, **STEG, Tunisia**

Steve Sawyer, Secretary General, **Global Wind Energy Council, Belgium**

Mark Tanton, Deputy Chairman, **The South African Wind Energy Association (SAWEA), South Africa**

Paul Eardley-Taylor, Director: Investment Banking Coverage / Head: Energy, Utilities & Infrastructure - SA & Africa, **Standard Bank, South Africa**

Hermann Oelsner, CEO, **Darling Wind Farm, South Africa**

Eng: Mohammed R. Zaroug, Manager of CDM Unit: Planning and Studies Department, **Renewable Energy Authority of Libya (REAOL), Libya**

17:45 Closing remarks by chairperson and end of Clean Technology day

Geothermal stream

15:30 Chairperson's opening remarks

15:45 **Keynote address:** Geothermal taking Africa by storm

- The advantage of geothermal for economic development
- Accessing funds for project development
- Advice for African geothermal projects

Honourable Simon Giu D'ujanga, Minister of State for Energy, **Ministry of Energy and Mineral Development, Uganda**

16:05 **Case study:** Geothermal for the first continent – A case of enormous wealth

- Resource development – Kenya's ambitious approach
- Financing – a conspicuously global endeavor
- Power plant selection and optimization for different resources

Kevin Wallace, Senior Project Manager, Manager Renewable Energy Market, **Power Engineers, South Africa**

16:25 Afternoon refreshments & speed networking

17:00 **Panel session:** Geothermals pull for the African market

- Accessing the potential of Africa's geothermal sector
- Attracting investment into geothermal power development
- Is regulation halting geothermal's progress

Dr. Silas M. Simiyu, CEO & MD, **Geothermal Development Company, Kenya**

Susan Kikwai, Managing Director, **Kenyan Investment Authority, Kenya**

Honourable Simon Giu D'ujanga, Minister of State for Energy, **Ministry of Energy and Mineral Development, Uganda**

17:45 Closing remarks by chairperson and end of Clean Technology day

DAY TWO Wednesday 30 March 2011



Power Generation World Africa

07:30 Registration and refreshments

08:15 **Chairperson's opening remarks**

Marc Goldstein, Energy Analyst, Frost & Sullivan, South Africa

Generating Africa's power future

08:20 **Opening keynote address: The global commitment to energy development**

- Crucial energy management strategies
- Steps for combining old and new technologies
- Identifying the investment needed for infrastructure gaps
- Identifying opportunities in Africa and tackling climate change

Honourable Simon Giu D'ujanga, Minister of State for Energy, Ministry of Energy and Mineral Development, Uganda

08:40 **Keynote address: Balancing South Africa's energy mix**

- Strategies for capacity development
- How Eskom secured their investment loan
- Managing Africa's energy mix with relevant legislation and policy
- Medupi update: fighting the deterioration of coal quality

Thava Govender, MD: Generation, Eskom, South Africa

09:00 **Power producers panel session: Africa's power shift - power producers speak out**

- How are power producers attracting investment & increasing capacity?
- The state of cross-border networks and power-sharing deals
- Overcoming regulatory restraints and slow implementation of government policies
- The impact of IPP's market penetration on power producers' performance
- Best practice and project success – examples from Africa for Africa

Titus K. Mbathi, Chairman, Kenya Electricity Generating Company Ltd, Kenya

Paulinus Shilamba, Managing Director, NamPower, Namibia

Julius Riungu, Chief Executive Officer, Tsavo Power Company, Kenya

Pius Gumbi, Chief Executive Officer, Swaziland Electricity Board, Swaziland

Othman Ben Arfa, Chief Executive Officer, Société Tunisienne de L'Électricité et du Gaz (Steg), Tunisia

François Nguyen, Senior Policy Advisor - Electricity Markets, International Energy Agency, France

09:40 **The benefits of networked indoor & outdoor lighting systems in a constrained energy supply environment**

- Lighting as an integral part of the smart grid
- Decreasing cost of components and rising energy costs
- Strong and increasing business need

Luc Escoute, Sales Director Energy Efficiency, EMEA, Philips Lighting B.V., The Netherlands

10:00 **Making the case for energy independence through energy efficiency**

- Moving away from fossil fuel reserves
- How energy efficiency plays an important role at the state and national levels
- How Wisconsin has been a leader in promoting energy efficiency
- Hurdles and challenges in developing a strong energy efficient programme

Eric Callisto, Chairperson, Public Service Commission of Wisconsin, USA

10:20 Morning refreshments and exhibition opening

11:15 **Keynote address: Energy poverty in Africa: challenges and the way forward**

- Overview of the energy sectors of Africa
- Major challenges to sustainable energy supply in Africa
- Making Africa's investment landscape more attractive
- Fast-forwarding Africa's commitment for energy integration, investment, and sustainability

Prof Abubakar Sani Sambo, CEO, Energy Commission of Nigeria and Vice-Chair for Africa, World Energy Council, Nigeria

11:35 **Presentation by GE Energy, South Africa**11:55 **Paving the way for 21st century sustainability - structured generation**

- The power evolution
- 21st century power solutions
- South African structured ingenuity

Des Muller, Head of Power Development & Strategy Team, Group 5, South Africa

Finance & investment

12:15 **CFO's Panel session: Utilities play by play of the investment chess board**

- Planned expenditure programmes and capital raising initiatives
- Strengthening relationships between investors and CFO's
- Ensuring commercial viability of projects and producing a stable ROI
- Aligning regulation, policies and investors' needs with the bottom line
- The CFO's role in securing energy supply

Moses Zulu, Financial Director, Zambia Electricity Supply Corporation (ZESCO), Zambia

Emmanuel Lubandi, Financial Manager, Uganda Electricity Generation Company, Uganda

Pius Apuye, Executive Director: Finance & Administration, Power Holding Company of Nigeria

Andre Barlow, Head - Treasury & Strategic Finance, NamPower, Namibia

12:55 Networking luncheon and exhibition viewing

14:15 **Panel session: Investigating Africa's investment landscape**

- Using private equity to get exposure to African markets: what is the ROI?
- What do investors consider in deploying investment funds to Africa?
- How to influence government in support of private investment
- Success secrets for tapping into bond markets
- Risks associated with Africa's investment landscape

Bernhard Westerouen van Meeteren, Senior Investment Officer for the African region, The Netherlands Development Finance Company (FMO)

Emmanuel Nzabanita, Officer in Charge/Chief Power Engineer: Energy Division, East and South Regions, African Development Bank, Tunisia

David Donaldson, Head: IFC Infrastructures – Sub-Saharan Africa, International Finance Corporation, South Africa

14:55 **Panel session: Accessing finance - formalising the requirements, blue prints and backing**

- Project finance – recent successes
- Advice for utilities partnering with capital expansion programmes

DAY TWO Wednesday 30 March 2011



Power Generation World Africa

- Steps for ensuring commercial viability of projects
- Mitigating risk for investors
- Criteria for attracting financiers

Liliang Teng, Chief Officer, **China Development Bank, South Africa**

Yusuf Macun, Director: Project Finance, **HSBC, United Kingdom**

Omar Vajeth, Head of Power & Energy, **Absa Capital, South Africa**

Paula Kuhn, Senior Manager: Power, Public Sector Infrastructure Advisory, **Standard Bank, South Africa**

Andreas Ufer, Global Head: Power, Renewables, Water, **KfW Development Bank, Germany**

15:30



Speed networking, afternoon refreshments and exhibition viewing

- Outlining the attraction for investors
- How to tap water resources in a water-starved Africa
- Getting around green-house gas footprints that shale gas leaves behind

Chris Faulkner, CEO, **Breitling Oil and Gas, USA**

18:00 Chairperson's closing remarks and end of Power Generation day one

18:30 Networking Cocktail



Eat, drink and network...

Join us for an evening of networking, cocktails and snacks in the delegates lounge after the conference

Regulation

16:15 Regulatory spotlight: Towards a regulation masterplan

- Closing critical legislative and regulatory gaps
- Regulatory frameworks required for an Independent Systems and Markets Operator
- Finalising the IRP2 – what is still required?
- Getting ahead of REFIT – update on IPP's
- Aligning regulation and government policies with investment

Honourable Grain Wyson Malunga MP, Minister, **Ministry of Natural Resources, Energy and Environment, Malawi**

Honourable Elton Mangoma, Minister, **Ministry of Energy and Power Development, Zimbabwe**

François Nguyen, Senior Policy Advisor: Electricity Markets, **International Energy Agency, France**

Karen Breytenbach, Senior Project Advisor: Financial Analysis within PPP, **National Treasury, South Africa**

Dr Frank Sebbowa, Chief Executive Officer, **Electricity Regulatory Authority of Uganda**

Matthews Mooketsane Bantsijang, Director: Electricity Policy Analysis and Regulation, **Department of Energy, South Africa**

Nuclear

17:00 Q & A: The business case for injecting nuclear into Africa's life blood

- The status of nuclear roll-out in Africa
- Efforts at getting nuclear into the national power grid
- Nuclear: a viable mechanism for reducing greenhouse-gas emissions
- Getting governments support & ensuring the investment backbone

Mr Gerard Wolf, Senior Executive Vice-President, International Operations Division, **EDF, France**

Professor Itumeleng Mosala, Regional Vice President, **Westinghouse, South Africa**

Latsoucabé Fall, Regional Manager: Africa, **World Energy Council, Senegal**

Natural & alternative gas development

17:30 Case study: Shale Gas/Oil: The potential for extracting Shale Gas - opportunity for Africa

- Is Shale Gas the next big thing?
- Overcoming potential risks

Amazing Keynotes

Hear from the world's leading speakers!

DAY TWO 08:20

The global commitment to energy development

Honourable Simon Giu D'ujanga
Minister of State for Energy
Ministry of Energy and Mineral Development, Uganda



Simon will be addressing how to identify opportunities in Africa and tackling climate change as well as discussing crucial energy management strategies for Africa's energy future

DAY TWO 08:40

Balancing South Africa's energy mix

Thava Govender
MD: Generation
Eskom, South Africa



Thava will be discussing strategies for capacity development as well as managing Africa's energy mix with relevant legislation and policy

DAY THREE Thursday 31 March 2011



Power Generation World Africa

08:30 Chairperson's opening remarks

Marc Goldstein, Energy Analyst, Frost & Sullivan, South Africa

Regional Updates**08:45 Regional panel session: Southern Africa's opportunity**

- REFIT developments
- Which renewable projects are gaining momentum?
- Strategies for attracting private equity investments into the region
- The debate between low-carbon alternatives or affordable electricity for all
- How to move forward with no formal IRP2 policy

Thava Govender, MD: Generation, Eskom, South Africa

Moses Zulu, Financial Director, Zambia Electricity Supply Corporation (ZESCO), Zambia

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

Pius Gumbi, Chief Executive Officer, Swaziland Electricity Board, Swaziland

Paulinus Shilamba, Managing Director, NamPower, Namibia

Andre Barlow, Head: Treasury & Strategic Finance, NamPower, Namibia

09:30 Regional panel session: Eastern Africa's energy framework

- Insight into governments' commitment to power generation
- How to attract investment for renewables other than hydro
- Energy-sharing deals and projects in place and the benefits
- Strategies in place for developing out-dated transmission lines
- Which funding model provides a better ROI?

Titus K. Mbathi, Chairman, Kenya Electricity Generating Company Ltd, Kenya

Emmanuel Lubandi, Financial Manager, Uganda Electricity Generation Company, Uganda

Julius Riungu, Chief Executive Officer, Tsavo Power Company, Kenya

Jasper Odour, Executive Secretary, East African Power Pool, Ethiopia

10:10 The energy mix of the future: from coal to biomass, wind and solar power

- Renewables as a future basis for electricity generation
- Smooth transition from coal to renewables
- Coal as a partner to develop into a renewable future
- Characteristics of different electricity generation methods
- Energy mix of the future

Dr. Wolfgang A. Benesch, Director: Energy Technologies, Evonik Energy Services GmbH, Germany

10:25 Morning refreshments and exhibition viewing

Partnerships**11:10 Panel session: Addressing the primary driving forces for power pool development**

- Getting ahead of the gap in transmission and infrastructure
- Steps in developing international electricity trade mechanisms
- Are power pools and power sharing deals Africa's main attraction for FDI?
- Accessing funds for large-scale power generation projects
- Focusing on the regional policy, legal, institutional and regulatory frameworks

Jasper Odour, Executive Secretary, East African Power Pool, Ethiopia

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

Bruno Kapandji Kalala, Permanent Secretary, Central African Power Pool, Republic of Congo

11:55 Panel session: The potential for IPP's in Africa

- Opportunities for IPP's beyond slow IRP2 implementation
- Advice on how to secure project finance & reassure your investor
- How to identify potential partners for renewable projects
- Steps to speeding up authorisation of Power Purchase Agreements
- Which renewables provide a better ROI and eliminate risk

Doug Kuni, General Manager, IPPA (Independent Power Producers Association), South Africa

Helen Tarnoy, Founder, Commercial Director & Deputy Managing Director, Aldwych International Ltd. United Kingdom

Mike Eyre, Director, IPSA Group, United Kingdom

Anton-Louis Olivier, Managing Director, Nu-Planet, South Africa

Hermann Oelsner, CEO, Darling Wind Farm, South Africa

Nunda Naidoo, Director, Lesedi Biogas Project, South Africa

Jeremie Bitanga, Project Director, AES Sonel, Cameroon

12:40 Generating success from the World Cup

- Managing peak demand with additional short-term power
- Turn-key power solutions with seamless synchronisation to any African grid
- Fast-track reliable power – an important element of the energy mix for governments and utilities

James Shepherd, Managing Director, Southern Eastern Africa, Yemen and Pakistan, Aggreko, United Arab Emirates

13:00 Networking luncheon and exhibition viewing

14:30 Power generation options via reciprocating engines

- Barloworld Power CAT – one company, multiple solutions
- Power generation options via reciprocating engines
- Alternative fuels (Diesel – LFO & HFO, Gas – LNG, LPG, CMM, CBM, Biogas, Landfill)

Warwick de Villiers, Applications Manager, Barloworld Power, South Africa

14:50 Small-scale gas power generation - an attractive solution by MTU Onsite Energy

Michael Baumann, Managing Director, MTU, South Africa

15:10 Afternoon refreshments and exhibition viewing

Customer perspectives**15:50 End-users panel session: The battle between the big players, growing competition, increased demand and shortages of supply**

- Reducing reliance on utilities: progress of own-build programmes
- Dealing with the pricing issue
- Efficiencies utilised currently for reducing carbon emissions
- Balancing coal, nuclear and renewables between energy intensive users while keeping carbon emissions low

Gerard van den Berg, Group Energy Engineer, Angloplatinum, South Africa

Thomas Garner, Manager: Energy Growth, Exxaro, South Africa

Sydney Zeederberg, Energy Manager, Sasol, South Africa
Representative from Anglo American, South Africa

DAY THREE Thursday 31 March 2011



Power Generation World Africa

Regional reviews

16:30 Regional panel session: Northern & Western Africa

- Advice for drawing investors attention to North Africa's hydro potential
- Current efforts for aligning governments and utilities
- Best practice from renewable energy projects
- How to strengthen ties for cross-border networks

Othman Ben Arfa, CEO, **Société Tunisienne de L'Electricité et du Gaz (Steg)**, Tunisia

Pius Apuye, Executive Director: Finance & Administration, **Power Holding Company of Nigeria**

Bruno Kapandji Kalala, Permanent Secretary, **Central African Power Pool**, Republic of Congo

17:15 Chairperson's closing remarks and end of Power Generation day two

19:00 **The Africa Energy Awards** dinner at Sandton Sun (19:00 for 19:30)

Gala Dinner



Rewarding excellence in Africa's power and electricity sector! Power & Electricity World Africa is proud to bring you the 4th Annual *Africa Energy Awards*.

Following on from the success of last year's event, the evening promises to be a night of glitz and glamour where we celebrate and acknowledge the movers and shakers in the African energy industry.

Join us on the evening of Thursday, 31 March 2011, at the Sandton Sun Hotel to be a part of this memorable experience. www.terrapinn.com/2011/awardsza



Speaker highlights

Hear from the world's leading speakers!

DAY THREE 11:10

Addressing the primary driving forces for power pool development

Jasper Oduor
Executive Secretary
Eastern Africa Power Pool, Ethiopia



Jasper will be speaking about the steps required for developing international electricity trade mechanisms

DAY THREE 09:30

Africa's power shift - power producers speak out

Titus K. Mbathi
Chairman
Kenya Electricity Generating Company Ltd, Kenya



Titus will discuss how power producers are attracting investment & increasing capacity

DAY TWO 10:00

The case for energy independence through energy efficiency

Eric Callsito
Chairperson
Public Service Commission of Wisconsin, USA



Eric addresses the topic of how energy efficiency plays an important role at state and national levels

DAY FOUR Friday 1 April 2011



Smart Electricity World Africa

07:30 Registration and refreshments

08:15 **Chairperson's opening remarks**

Silas Zimu, Independent Consultant and Former MD, City Power, South Africa

Africa's smart energy future

08:45 **African keynote: Africa's smart electricity potential**

- The role of the smart grid in dealing with Africa's maintenance backlog
- Securing investment for smart grid development
- Managing regulation effectively in smart grid implementation
- What Africa should know about smart grids
- Encouraging interconnections from neighbouring countries

Michael Tarney, Managing Director of Corporate Development, Copperbelt Energy Corporation, Zambia

09:00 **International keynote: The strategy behind one of the world's biggest smart grids**

- How to secure investment for your smart grid
- The advantages of smart grids for improving reliability
- Investing in infrastructure - capacity expansion projects
- How Africa can benefit from the development of a smart grid

Robert P. Powers, President, American Electric Power Utility, USA

09:30 **How to choose the right open architecture for smart grids**

- Future proof architecture
- All about the smart grid, not the metering
- Re-use of meter data in other applications
- Interoperability is a must but on what level to remain flexible?
- European trends and experiences

Mark Ossel, Vice President, Echelon & Board Member, ESNA, The Netherlands

10:00 **Presentation by IBM, South Africa**

10:25 Morning refreshments

11:00 **Smart grid roll out driven by consumer needs**

- Why smart grids?
- Solving a technical problem or serving your customers?
- Situation in Denmark: smart grid perspective from the authorities and utilities
- Smart metering and smart grid at SEAS-NVE (Danish utility)
- Lessons learned, by the utility and installer

Gordon Petersen, AMI Consultant, Eltel Networks & Chairman, ESNA, The Netherlands

Partnerships

11:55 **Panel session: Integration into the grid – communicating, connecting, providing clear-cut coverage**

- The impact of power sharing deals on integration into the grid
- Dealing with issues such as grid stability and reliability, congestion management, transmission efficiency and adequacy
- Current standards and policy regarding integration of renewables
- Refurbishing your distribution network grid
- Opportunities of energy storage for Africa

Peter J. Neilson, Director: Energy / Electricity Projects, Nelson Mandela Bay Municipality, South Africa

Dr. Pawan Singh, Director: Finance, Delhi Power Company & Delhi Transco Ltd., India

Robert P. Powers, President, American Electric Power Utilities, USA

Sicelo Xulu, Acting Managing Director, City Power: City of Johannesburg, South Africa

Money

12:15 **Financing the smart option**

- What is the required ROI for smart grid investments?
- The debt vs. equity debate
- Weighing the options for smart grid finance

Dr. Pawan Singh, Director: Finance, Delhi Power Company & Delhi Transco Ltd., India

12:45 Networking luncheon

Smart metering

13:45 **Panel session: Advanced metering infrastructure**

- How will advanced metering infrastructure impact utilities
- The roll-out of smart meters in Africa – what's the process?
- Expansion programmes for existing structures

Erica Johnson, Chief Officer: Customer Network Business, Eskom, South Africa

Sicelo Xulu, Acting Managing Director, City Power: City of Johannesburg, South Africa

Robert S. Ferrier, Manager: Planning and Design, Buffalo City Municipality, South Africa

14:30 **Lessons learned in AMI: How to scale from pilot to roll out**

- European and Dutch legislation on AMI organisation
- Strategy and proven added value of smart meters
- The roll out: preparation, service and maintenance process
- Technology and innovation

Richard de Vreis, Manager: Advanced Metering Infrastructure, Alliander, The Netherlands

15:00 Afternoon refreshments and speed networking

15:30 **Case study: Johannesburg Water's prepaid metering project**

- Addressing high unaccounted water (UFW) Level
- Water infrastructure upgrades and sustainability
- Changing to water prepaid metering billing

Enoc Mudau, Senior Manager: New Service Development Division, Johannesburg Water, South Africa

Demand-side management

16:00 **Panel session: Demand-side management vs. customer engagement: strengthening customer and system dynamics**

- Updating billing infrastructure
- Managing peak load from the supply side
- Pre-paid payment options on the cards
- Theft reducing technologies & rural electrification projects

Erica Johnson, Chief Officer: Customer Network Business, Eskom, South Africa

Peter J. Neilson, Director: Energy / Electricity Projects, Nelson Mandela Bay Municipality, South Africa

Christopher Mubemba, Pre-paid Project Manager, Zambia Electricity Supply Corporation (ZESCO), Zambia

Robert S. Ferrier, Manager: Planning and Design, Buffalo City Municipality, South Africa

Mohammad Moazzem Hossain, Operation Planning and Studies Department Manager, Abu Dhabi Distribution Company, United Arab Emirates

DAY FOUR Friday 1 April 2011



Smart Electricity World Africa

16:45 Case study: Addressing the energy challenges through energy efficiency: the Eskom experience

- What is the required ROI for smart grid investments?
- The debt vs. equity debate
- Weighing the options for smart grid finance

Andrew Etzinger, Senior General Manager: Integrated Demand Management, **Eskom, South Africa**

17:00 The benefits of international experience in vacuum tap changer technology

- Advantages of this technology
- Problems experienced in the international power supply systems
- Actions to resolve problems

Sakkie van Wyk, Technical Director: CED Prometheus, **Wilec, South Africa**

17:15 Chairperson's closing remarks and end of Smart Electricity conference day

Rebirth of a Nation Tour (JHB City & Newtown)

HALF DAY TOUR R594pp

Daily departure from:

Sandton hotels (13h30)

Rosebank hotels (14h10)

Languages available English – German

Highlights:

The historical buildings of downtown Johannesburg passing Hillbrow and the landmark Post Office lower en-route; the 'Top of Africa' at the Carlton Centre; the Brixton Tower; the affluent suburb of Houghton, the Supreme Court, 'Museum Africa' (time permitting), Africa's new Constitutional Court and site of Johannesburg's Old Fort Prison.

See back page for registration details or visit:

www.terrapinn.com/2011/awardsza

***Please note the above is subject to availability & change.*



Speaker highlights

Hear from the world's leading speakers!

DAY FOUR 08:45

Africa's smart electricity potential

Michael Tarney

Managing Director of Corporate Development
Copperbelt Energy Corporation, Zambia



Michael explains the role of the smart grid in dealing with Africa's maintenance backlog

DAY FOUR 09:00

The strategy behind one of the world's biggest smart grids

Robert P. Powers

President
American Electric Power Utility, USA



Robert investigates the advantages of smart grids for improving grid reliability

DAY FOUR 13:45

Advanced metering infrastructure

Erica Johnson

Chief Officer: Customer Network Business
Eskom, South Africa



Erica looks at the roll-out of smart meters in Africa – what's the process?

DAY FOUR Friday 1 April 2011



IPP World Africa

07:30 Registration and refreshments

08:45 Chairperson's opening remarks

Hillary Erasmus, Editor of the African Energy Journal, **Brooke Patrick Publications, South Africa**

Big Picture**09:00 Opening international keynote: Paving the way for IPP development in Africa**

- Big economies discussing opportunities in Africa
 - A long-term view for IPP development in Africa
 - Providing a conducive environment for IPP development
 - Implementing an effective and independent systems regulator
- Bernhard Westerouen van Meeteren**, Senior Investment Officer: African region, **The Netherlands Development Finance Company (FMO), The Netherlands**

09:30 African keynote: An African approach to an African problem

- The role of IPP's for securing Africa's power supply
- Long term planning and the diversification of the energy mix
- Taking the politics out of power - whoever controls the power makes the rules
- Are PPP's (Public Private Partnership) best for Africa?
- Enhancing economic stability through Greenfield IPP investment

Julius Riungu, CEO, **Tsavo Power Limited, Kenya**

10:00 Panel session: Africa's IPP's take the lead- collaborating on mutual challenges and opportunities

- How to maximise your project scope to keep investor interest
- How are IPP's securing investments in an unstable regulatory environment?
- Best practice advice for new IPP's
- How fellow IPP's in Africa are accessing the national power grid
- Are IPP's the way to increase electricity capacity or to provide affordable electricity?

Jeremie Bitanga, Project Director, **AES SONEL, Cameroon**

Doug Kuni, Managing Director, **South African Independent Power Producers Association, South Africa**

Yousuf Haffjee, Market Development Manager, **Eskom, South Africa**

Julius Riungu, Chief Executive Officer, **Tsavo Power, Kenya**

Michael Tarney, Managing Director of Corporate Development, **Copperbelt Energy Corporation, Zambia**

Fred Barron, Former Director, **Lesedi Biogas Project, South Africa**

Katai Kachasa, General Manager, **Lunsemfwa Hydro Power Company, Zambia**

Mike Eyre, Technical Director, **IPSA, South Africa**

Hermann Oelsner, Chief Executive Officer, **Darling Wind Farm, South Africa**

10:45 Morning refreshments

Regulation**11:15 Panel session: IPP regulation – the good, the bad and the ugly**

- Standardising the procurement process for power purchasing agreements
- Overcoming protectionism by state owned enterprises

- Tariffs: competitive pricing to maintain business sustainability and REFITS
- Deconstructing the single buyer model
- Implementation and accountability of the Independent System and Market Operator

Matthews Bantsijang, Chief Directorate of Energy Regulation, **Department of Energy, South Africa**

Jasper Oduor, Executive Secretary, **East Africa Power Pool, Ethiopia**

Dr. Maxwell Muyambo, Manager: Technical Regulation, **Namibia Electricity Board, Namibia**

Ishmael Poolo, Acting Chief Executive Officer, **CENTLEC, South Africa**

Dr. Sherif Mohamady El Sayed, Regional Project Coordinator, **Eastern Nile Technical Regional Office, Ethiopia**

Jan de Beer, Energy Consultant, **South Africa**

Yousuf Haffjee, Market Development Manager, **Eskom, South Africa**

Gerhard Coeln, Chief Executive Officer, **Erongo RED, Namibia**

Cost of power**12:00 Q&A: The price of Africa's power**

- Providing bankable guarantees: putting investor fears to rest
 - Ensuring the creditworthiness of public utilities buying IPP power
 - Ensuring cost recovery
- Incentives for cost reflective feed-in-tariffs
- Risk entailed with IPP finance
- Bridging the gap - using economies of scale to create more electricity and more scope for financiers
- Equity or debt financing - the best solution for African IPP's
- BOT, BOOT or BTO: What is the best option for IPP's?

Jean Madzongwe, Energy Specialist, **Development Bank of Southern Africa, South Africa**

Karen Breytenbach, Senior Project Advisor, **National Treasury, South Africa**

12:45 Networking luncheon

13:45 Case study: Exxaro's energy emerges

- Project pipeline
- Strengths of the approach or strategy
- Proposed partners
- How the industry is seen to develop: 5 – 20 year view

Thomas Garner, Manager: Energy Growth, **Exxaro, South Africa**

14:15 Panel session: Investing in the light at the end of the tunnel

- Managing the high cost of transmission infrastructure development
- Raising funds during the credit crunch - a challenge or opportunity?
- Balancing investors needs with regulatory frameworks
- Requirements for attracting investors
- Mitigating the risks for international investors

Omar Vajeth, Head of Power and Energy, **Absa Capital, South Africa**

Carsten H. Laugesen, Development Counsellor, **Danish International Development Agency, South Africa**

Dr. Zuko Kubukeli, Principal, **Inspired Evolution Asset Managers, South Africa**

DAY FOUR Friday 1 April 2011



IPP World Africa

Projects & innovation

15:00 **Case study: Botswana's Mmamabula project – Africa's biggest IPP project**

- Making use of Botswana's natural resources - creating opportunities for IPP's
- Recruiting the right people to partner with
- The do's and don'ts for the procurement and implementation process
- How the IRP 2010 has impacted the development of the Mmamabula Project

Tore Horvei, Business Development Director, **CIC Energy, South Africa**

15:30 **SPEED NETWORKING** networking and afternoon refreshments

16:15 **Case Study: Success strategies for building new hydros**

- Process of developing an IPP
- Forming regulatory frameworks
- Importance of building capacity for IPP projects

Michael Tarney, Managing Director, **Copperbelt Energy Company, Zambia**

16:45 **Case Study: A Zambian experience of an IPP**

- A Zambian perspective on the IPP environment
- The challenges for an IPP in a transitional environment of liberalism
- Light at the end of the tunnel and dawn for IPP's
- Future prospects for IPP's in Africa

Katai Kachasa, General Manager, **Lunsemfwa Hydro Power Company, Zambia**

17:15 Closing remarks by the chairperson and end of Independent Power Producers World Africa day

"Increasingly we see the introduction of private sector participation in the form of IPP's"

Professor Anton Eberhard,
University of Cape Town-Graduate
Business School,
AFP-1 December 2010

**Book before 18 February 2011
and save R3221**

See back page for registration form

Speaker highlights

DAY FOUR 09:30

An African approach to an African problem

Julius Riungu
Chief Executive
Officer
**Tsavo Power Company,
Kenya**



Julius delves into the role of IPP's for securing Africa's power supply

DAY FOUR 11:15

IPP regulation – the good, the bad and the ugly

Dr. Maxwell Muyambo,
Manager: Technical
Regulation, **Namibia
Electricity Board, Namibia**



Maxwell examines the procurement process for power purchasing agreements

DAY FOUR 16:45

A Zambian experience of an IPP

Katai Kachasa
General Manager
**Lunsemfwa Hydro Power
Company, Zambia**



Katai explains the challenges for an IPP in a transitional environment of liberalism

Workshops: Monday 28th March 2011

WORKSHOP I

The principles of project finance in energy projects

Objective

To understand the bankability of a project; focusing on projects within the power & electricity sector. Delegates will be given an executive summary of a hypothetical project and asked to express an opinion on the bankability of the project.

08:30 Registration and refreshments

09:00 Introduction to project finance

09:30 Getting started - describing project financing

- Project finance vs. conventional lending
- **Case study:** energy projects: advantages of project finance
- Project finance vs. limited recourse lending

10:00 Risk

- Risk identification and the risk management process
- **Case study:** IPP risk matrix
- Risk allocation: counterparty credit issues

10:30 Morning refreshments and networking

11:00 Risk mitigation

- Completion risk and sponsor support
- Market risk and force majeure

11:30 The credit process: case study of a term sheet

12:00 Funding matters

- Equity, mezzanine finance and senior debt

12:30 Networking luncheon

13:30 Modelling fundamentals

- Modelling the waterfall

14:00 Ratio tests

- Annual debt service cover ratio
- Loan life cover ratio and project life cover ratio

14:30 Financial close

- Documentation, the drawdown process & legal counsel

15:00 Afternoon refreshments and networking

15:30 Post financial close

- Termination and its consequences

16:00 Conclusion

- Introductory project revisited

16:30 Q & A

17:00 End of workshop

Your workshop leader



Charles P.F. Marais

Commercial practitioner | **Eversheds, South Africa**
Charles has extensive experience in the finance, mining, construction and energy sectors in all aspects of project finance and has been instrumental in the successful closure of projects. His present activities include drafting of commercial documentation and advising on large transactions in the power sector.

WORKSHOP II

Constructing renewable energy projects in Africa

Objective

To gain a better understanding of the renewable energy prospects in Africa; to instill a comprehensive knowledge base of the risks inherent in constructing renewable energy projects in Africa. To equip participants with the knowledge and tools to manage these risks through appropriate contract structures. Provides the participants with a framework to create standard form contracts for renewable energy projects.

08:30 Registration and refreshments

09:00 Introduction and structure

09:30 Overview

- Overview of the power and electricity sector in Africa focusing on the prospects and limitations of renewable energy sources

10:15 Renewable energy construction projects

- An outline of current projects, proposed projects and possible future projects

11:00 Morning refreshments and networking

11:30 Understanding construction project risks

- The importance of appropriate contractual framework

12:15 Participant group discussion

- Special risks inherent in the construction of renewable energy projects according to renewable energy sources and special risks created by constructing these projects in Africa

13:00 Networking luncheon

14:00 Training

- Using contract provisions to manage the risks identified

14:45 Frameworks

- Creating a framework for standard form contracts for renewable energy construction in Africa

15:30 Afternoon refreshments and networking

16:00 Issues encountered

- Issues in enforcement of contract terms and dispute resolution

16:45 Q&A & conclusion

17:00 End of workshop

Your workshop leader



Koko Udom

Lecturer in law: Aberdeen Business School | **The Robert Gordon University, United Kingdom**

Koko's experience ranges from international financing for energy projects; construction of power plants, compensation issues in oil spillages; major mergers and acquisitions. His areas of expertise are Construction Law, Energy Law and lectures on International Construction Contracts, Advanced Construction Law and Arbitration Law. He is currently working on the effectiveness of particular contract forms and industry specific regulations in solving the problems of the construction industry in developing countries.

WORKSHOP III

Introduction to CDM and its application into the renewable sector in Africa

Objective

This half day workshop serves as an introduction to the Clean Development Mechanisms (CDM), carbon market mechanisms and opportunities for CDM project development. Participants will be able to leave the session with an understanding of the broader framework of the CDM, and will understand the processes and procedures involved in CDM project registration. The session will also highlight potential areas for project development in the region.

08:30 Registration and refreshments

09:00 Overview of carbon markets and climate change science

- Understanding the evolution, development and project mechanisms of international carbon markets
- The climate change science and the need for a low carbon economy
- CDM project types, cycles and time frames
- 30 minute Q&A

10:30 Morning refreshments and networking

11:00 CDM details and project examples

- Baselines, additionality and the nitty gritty...
- Some project examples
- 30 minute Q&A

12:30 Networking luncheon

13:30 End of workshop

Your workshop leader



Kinesh Chetty

Regional Manager | Orbeo South Africa Pty Ltd
Kinesh has been involved in the CDM development of several CDM projects in South Africa. He holds a Masters degree in Environmental Science and is passionate about aiding sustainable development in Southern Africa by accelerating the uptake of renewable energies. He has in-depth knowledge of the CDM and a detailed understanding of local conditions and constraints of renewable energy project development on the sub continent.

The venue



Sandton Convention Centre

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7 REASONS

Find out the 7 reasons why you should be at Power and Electricity World Africa 2011

Learn how to attract investment into new power generation projects

Get tips for success from the top utilities-local and international

Discover the advantages of moving from coal generation to renewable energy

Find out which renewable energy works best for your business's bottom line

How to develop more effective and efficient electricity networks

Spruce up your smart electricity networks with top tips and tactics

Opportunities to strengthen old and develop new key business relationships

Countless networking sessions will keep you on your toes and on the lookout

Understand how government is framing regulation to include a more dynamic energy mix

Appreciate how renewable energies make the cut for a place in Africa's energy future

How to integrate new and renewable technologies into the grid

Get to hear how power producers are managing their peak demand

Snoop around for the secrets of sourcing new investment into clean technology

Have a heart to heart with the top investors and clean technology funds

The Terrapinn difference

Terrapinn events create exciting places to...

- interact and grow knowledge
- meet and make contacts
- become inspired and re-energised.

use your brain



Africa energy Awards

The 4th Annual **Africa Energy Awards** will be given out during a glittering gala dinner, to be held on Thursday, **31st March 2011**. Join us at this prestigious event as we recognise and celebrate the leaders and innovators in Africa's energy sector.

We will be recognising the power & electricity industry's key players with the following awards:

- The Best Financial Support in the Power Industry
- Best Clean Technology Solution
- The Best Renewable Project in Africa
- The Best Rural Electrification Project
- The Most Innovative Co-generation Project
- Best Fast Track Power Project
- Best Demand Side Management Project
- The Best Leadership in Skills Development
- The most Influential Woman in Power
- Africa's Leading Energy Personality



Master of ceremony for the evening – Mark Pilgrim

Mark is one of South Africa's most recognisable radio and television personalities. He has spent over 15 years entertaining millions of listeners and viewers.

He started his radio career on 5fm, and now broadcasts simultaneously on 94.5 Kfm across the Cape and 94.7 Highveld Stereo in Johannesburg, South Africa.



How to enter the Awards

Entries for the Africa Energy Awards 2011 are now open and all industry players are welcome to participate.

It's so easy to enter. Just go to www.terrapinn.com/2011/awardsza for our online registration form. Follow the easy steps and fill out the form to ensure your entry.

Make your nominations - **enter today!**



ENTER NOW!

www.terrapinn.com/2011/awardsza

Deadline: 1 February 2011

Sponsorship opportunities at the awards

Sponsorship of the Africa Energy Awards 2011 is the perfect way to associate your organisation and brand with excellence in the power sector.

The winners of the awards are the industry's most successful and innovative companies as well as its future stars. More importantly, they are your clients and prospects!

Awards can help to:

- Reinforce a corporate direction
- Recruit and retain talent
- Present a sales advantage
- Improve the bottom line

GET INVOLVED!

This is a great opportunity for you to reflect, recognise and honour the power industry players. For further information regarding judges, categories, nominees, sponsorships or any aspects of the awards, please visit www.terrapinn.com/2011/awardsza or contact Michelle Da Silva on Tel: +27 (0)11 516 4070 or email michelle.dasilva@terrapinn.co.za

Networking at the highest level

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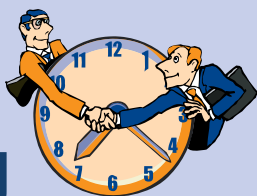
Be apart of our linkedin group:

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- Download presentations after the event

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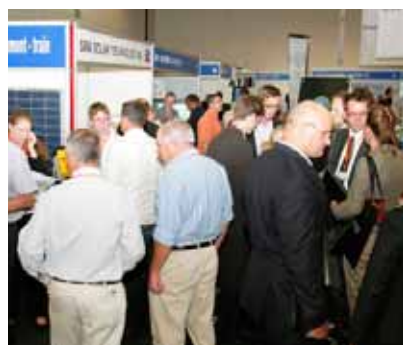
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From power generation, transmission & distribution to efficient on-site solutions and the latest in renewable and smart technologies, Power & Electricity World Africa 2011, has all your solutions under one roof.

Technical seminars

As many middle level management and **engineers** in this field would like to explore the latest energy technologies, the Power & Electricity World Africa exhibition features an on-floor symposium where the latest **technologies** and **solutions** are showcased.

Free technical seminars will feature presentations by some of Africa's and the world's foremost authorities on power generation, onsite power, smart electricity, clean technology, energy efficiency... and don't forget greenbuildings.

Who will visit

- Facilities managers
- Municipalities
- Water utilities
- Mines
- Power generators & utilities
- IPP's
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Opportunities for Onsite Power in an African Environment and endless with the current power shortage and a need for power to sustain economic growth. Various sources of fuels and solutions utilising reciprocating engines are available in Africa for Standby, Prime, or Continuous power requirements.

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MTU Onsite Energy brings you extensive, intelligent, and innovative system solutions with diesel, gas, and fuel cell technology – for all applications to satisfy the widest variety of needs.

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