

AFRICA ENERGY FORUM

programme
in progress

Powering Africa's Development

2007

Hamburg

Ministers attending to date

Bruno Itoua

Minister of Energy & Water
Republic of Congo

Daudi Migereko

Minister of Energy &
Mineral Development, Uganda

Kiraitu Murungi

Minister for Energy, Kenya

Salvador Namburete

Minister of Energy, Mozambique

Hamed Diane Séméga

Minister of Mines, Energy & Water, Mali

Jean Bernard Sindeu

Minister of Energy & Water Resources
Cameroon

Alemayehu Tegenu

Minister of Mines & Energy, Ethiopia

State enterprises and government officials

Andrew Barfour

Director of Operations
Electricity Company of Ghana

Bernard Barandereka

Energy Consultant
African Union

Manuel Cuambe

Chairman & CEO
Electricidade de Moçambique E.P.

Miheret Debebe

Chief Executive Officer
Ethiopian Electric Power Corp

Joseph Iita

Permanent Secretary
Ministry of Mines & Energy, Namibia

Yona Killagane

Managing Director
Tanzania Petroleum Development Corporation

Younes Maamar

Director General
Office National d'Electricité (ONE), Morocco

Bashir Mrindoko

Commissioner for Energy and Petroleum
Affairs, Tanzania

Eduardo Nelumba

Chief Executive Officer
Empresa Nacional de Electricidade de Angola

Juan Antonio Ndong Ondo

Director General
SONAGAS, Equatorial Guinea

Edward Njoroge

Managing Director
Kenya Electricity Generating Company

Don Priestman

CEO and General Manager
Kenya Power & Lighting Company

Ransome Owan

Chairman & CEO
Nigerian Electricity
Regulatory Commission

Paulinus Shilamba

Chief Executive Officer
NamPower, Namibia



Congress Center Hamburg
June 27 - 29 • 2007

Where Governments & Businesses Meet

- "Congratulations on an excellent event! As usual you assembled an excellent gathering of high-level people."
- "Please accept my congratulations on another successful edition of AEF; it continues to get better and better. I agree with you that indeed utility players in Africa are maturing and coming of age, with help from, amongst other things, the interaction and networking from fora like the AEF. Please keep up the good work."
- "As usual it was a very useful event for networking."
- "The conference was a huge success and we certainly received huge benefit from sponsoring."
- "Each conference is getting better from the perspective of getting down to the real issues. People seem to be more interested in saying what is good and bad about their experience rather than spouting politically correct rhetoric. I hope that trend continues as it will drive improvement in the market place."

Africa's Annual Power Market

- Attracting 344 participants from 38 countries in 2006;
- 32 government ministers and 35 utilities from Africa have participated;
- Presenting investment and business opportunities to leading international power developers;
- Facilitated by the presence of major financial and legal institutions;
- With equipment manufacturers and contractors providing the essential infrastructure and plant.

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Produced by



Wednesday June 27

AfricaEnergy21



12:30 Buffet lunch hosted by

LEBOEUF LAMB

14:00

The Power of Energy

Welcome address: as opportunities diminish elsewhere, will Germany give greater consideration to Africa?

Heidmarie Wieczorek-Zeul

*Minister of Economic Cooperation & Development
Germany*

Africa: what will it take for the international investor to realise the potential?

Buyelwa Sonjica

*Minister of Minerals & Energy
South Africa*

South Africa: how the Government assesses progress in meeting demand for power.

Cyril Ramaphosa

*Executive Chairman
Shanduka Group
South Africa*

Global warming or economic growth: can Africa contribute to the amelioration of climate change without jeopardizing growth?

Achim Steiner

*Executive Director,
United Nations Environmental Programme, Kenya*

The scramble for Africa's energy resources: good for business but could it have a negative impact on development?

Gao Zhen
*Deputy Director,
Concessional Loan Department
Export-Import Bank China*

Privatizing generation and distribution: the experience of an international power developer.

David Grylls
*Vice President Business
Development, Globeleq, UK*

Bringing power to Africa: an absolute requirement in which ideological dogma has no role.
Cummins Power Generations

16:00 Coffee



16:30

Ministerial Dialogue

African energy ministers address questions on energy and investment policies.

- **Risk profiles:** countering adverse assessments.
- **Incentives:** should they be necessary?
- **Project tendering:** streamlining the process.
- **Regulation:** enshrining the benefits of transparency.
- **Energy strategy:** policies on security, local content, fuel choice (including the nuclear option).

Bruno Itoua
*Minister of Energy & Water
Republic of Congo*

Daudi Migereko
*Minister of Energy & Mineral
Development, Uganda*

Bashir Mrindoko
*Commissioner for Energy
and Petroleum Affairs,
Tanzania*

Kiraitu Murungi
*Minister for Energy
Kenya*

Felix Mutati
*Minister of Energy & Water
Development
Zambia*

Salvador Namburete
*Minister of Energy
Mozambique*

Hamed Diane Séméga
*Minister of Mines, Energy &
Water, Mali*

Jean Bernard Sindeu
*Minister of Energy & Water
Resources, Cameroon*

Alemayehu Tegenu
*Minister of Mines & Energy
Ethiopia*

18:30 AEF Welcome Reception
Hosted by the **Free and
Hanseatic City of Hamburg***



Supported by NETGroup

*To be confirmed

Thursday, June 28

AfricaPower21



SIEMENS

09:00

The Future of African Utilities

Nigeria: an update on the progress of reforming the Nigerian power sector.

Ransome Owan
Chairman & CEO
Nigerian Electricity
Regulatory Commission

Kenya: is KenGen's IPO fulfilling expectations?

Edward Njoroge
Managing Director
Kenya Electricity Generating
Company

Namibia: the options for growth and cooperation in the power sector.

Paulinus Shilamba
Chief Executive Officer
NamPower, Namibia

Angola: its power sector is emerging as a force for development.

Eduardo Nelumba
Chief Executive Officer
Empresa Nacional de
Electricidade de Angola

Mozambique: making the best use of its abundant natural resources.

Manuel Cuambe
Chairman & CEO
Electricidade de
Moçambique

Morocco: an object lesson in domestic capacity expansion and international growth?

Younes Maamar
Director General
Office National d'Electricité
Morocco

11:00 Coffee

11:30

New Capacity

The art of project development: The Mmamabula Energy project case study.

Gregory Kinross
President & CEO
CIC Energy Corp
South Africa

Market driven generation expansion in southern Africa: IPPs are needed to complement utility projects.

Tore Horvei
Chief Operating Officer
CIC Energy Corp
South Africa

West Africa: new capacity—a history of unfulfilled expectations, but could the situation be changing?

Joseph Tato
Partner
LeBoeuf Lamb
New York

Power Generation in Africa: market requirements and solutions.

Karl-Heinz Schmidt
Vice President
Siemens Power Generation
Offenbach

East Africa: how will the region guarantee power supplies given its susceptibility to drought?

Robin James
Director Southern Eastern
Africa
Aggreko International Power
Projects, Dubai

13:00 Lunch hosted by

14:30

The Changing Dynamics of Africa's Power Market

Asset management: capability maturity model discussion—the extensive value of instituting an asset management programme.

Gregg Edeson
Member of Management
Group, PA Consulting Group
Los Angeles

The investment chain: taking Africa power projects through to financial closure.

Smunda Mokoena
Chief Executive Officer
National Electricity Regulator
(NERSA), South Africa

Borderless power: does Europe's experience in developing cross-border cooperation have any relevance for Africa?

Sakrini Herman Mutima
Secretary General
Union of Producers,
Transporters & Distributors of
Electric power in Africa
(UPDEA)

Powering Africa: the importance of emergency power in maintaining the fabric of the power system.

Robert Rankin
AME Territory Manager Power
Systems Department
Caterpillar

15:45 Coffee

16:15

Financial Keynotes

Carbon credits: creating the environment for the innovative financing of power projects in Africa.

Geoff Sinclair
Standard Bank, London

The changing face of development finance institutions: have they lost sight of their original purpose?

Winfried Nau
First Vice President New
Business Africa
DEG GmbH, Cologne

The Finance Debate Bringing Money to Projects

Expert Statements:

- **Orli Arav**
Senior Investment Manager
Emerging Africa Advisers,
London
- **Vijay Iyer**
Sector Manager—Energy
Africa Region, World Bank
Washington
- **Gerrit Kruyswijk**
Energy Project Finance
Nedbank Limited
South Africa
- **Anand Naidoo**
Investment Banker: Power &
Energy
ABSA Capital, Johannesburg
- **Bernhard van Meeteren**
Manager Business
Development Infrastructure
FMO, The Hague

18:00 End of session & AEF
reception

Hosted by



Friday, June 29

AfricaPower21



09:00

The Africa Power Caucus

Leading players in the African power sector discuss themes arising from the forum, and the merits of the various models. All are agreed that massive expansion is required. How to achieve this and at what cost is debatable.

State utilities have a responsibility to provide affordable electricity. Adherents maintain that by maximising efficiency they can deliver at a lower cost than the private sector—not being hampered by expensive financing, and private shareholders. Nothing per se prevents a state utility from operating with commercial rigour.

The contracting of outside managers has been adopted by a number of state utilities as a solution to poor internal management. Management contracts are often adopted in the wake of a bungled privatization. But how effective are they for the long-term development of the power sector?

Privatization is a loaded term. Its connotations depend on which side of the fence the observer stands; consequently, many find it easier to sit on the fence. Privatization is not a short-term solution to mismanagement; it can be a long-term goal for the industry's growth and the delivery of efficient, Affordable services. But

successful privatization requires preconditions. Given the uniqueness of the African situation, blueprints for success are absent, although there is a clearer understanding of the prerequisites.

Financing of public utilities is no longer confined to governments and concessionary funders. The growing importance of other sources of funding, including private, will have a bearing on how the industry is structured.

Themes

IPPs in Africa: the big picture.

Power in Africa: the future is brighter?

Private vs public capital: examining the options.

Management contracts: a window of opportunity for public-private sector cooperation or a stop-gap to prolong the status quo.

Participants

Alstom

Andrew Barfour
Director of Operations
Electricity Company of Ghana

Paul Biggs
Partner
Trinity International, London

Anton Eberhard
Professor, Graduate School of Business
University of Cape Town

Clive Ferreira
Managing Director
Fieldstone Africa (Pty) Ltd
Johannesburg

Lorne Halpenny
Managing Director
Manitoba Hydro
International Nigeria Ltd

David Keith
Director: Infrastructure & Development Services,
PA Consulting Group, USA

LeBoeuf Lamb

Robin Mizrahi
Senior Associate
Chadbourne & Parke

London

Marius du Preez
Managing Director
NETGroup International
South Africa

Don Priestman
CEO & General Manager
Kenya Power & Lighting
Company (KPLC)

Tim Scales
Partner
Allen & Overy, Paris

Helen Tarnoy
Commercial Director
Aldwych International Ltd
London

Closing paper

Nuclear power: issues relating to its possible introduction into currently non-nuclear States.

Gert Claassen
Manager International
Marketing
Pebble Bed Modular Reactor
(PBMR) (Pty) Ltd
South Africa

13:00 Farewell Lunch hosted by



14:30 End of AEF 2007

Thursday, June 28

AfricaGas21



09:00

Gas Markets

Sources of natural gas: who will supply South Africa's increasing requirements for gas?

Elizabeth Marabwa

*Director: Natural Gas
Department of Minerals &
Energy, South Africa*

Algeria: the geopolitics of energy is giving impetus to the expansion of the gas sector.

Dieter Pfaff

*Vice-President
Gas Supply Policy Division
E.ON Ruhrgas AG, Germany*

West African Gas Pipeline: an impact assessment on growth and development.

Alain Rosier

*Technical Adviser to the WAGP
Authority
Nexant, Abuja*

Nigeria: an expanding role for gas in powering the country's electricity growth.

Chris Ogiemwonyi

*Managing Director
Nigerian Gas Company*

Gas-fired power stations: an increasing role in southern Africa.

Peter Earl

*Chief Executive Officer
IPSA Group plc
United Kingdom*

11:00 Coffee

North African gas—a review: burgeoning domestic and export markets stimulate expansion of the region's gas projects.

Malik Zetchi

*Senior Analyst Midstream
IHS Energy, Geneva*

South Africa: analysing the dynamics of the gas market.

Musa Zwane

*Managing Director
Sasol Gas, Johannesburg*

Tanzania: the growing role of natural gas in power generation.

Yona Killagane

*Managing Director
Tanzania Petroleum
Development Corporation*

Kudu gas project: have markets for the gas been secured?

Margaret Van Der Merwe

*Kudu Project Leader
NamPower, Namibia*

Botswana: a commercial profile of coalbed methane.

Julian Scales

*Managing Director
Kalahari Gas Corporation
Botswana*

13:00 Lunch

14:30

Gas Prospects

Mozambique: what underpins the confidence in discovering additional gas reserves?

Salvador Namburete

*Minister of Energy
Mozambique*

South African industrial expansion: destined to rely on gas imports?

Pepi Silinga

*Chief Executive
Coega Development
Corporation (Pty) Ltd
South Africa*

Egypt: developing its gas reserves in partnership with foreign investors.

Sherif Ismail

*Chairman & Managing Director
Egyptian Natural Gas Holding
Company (EGAS)*

Cameroon: do the prospects of significant gas discoveries remain elusive?

Jack Grynberg

*Chief Executive Officer
Grynberg Petroleum
Company, Colorado*

15:45 Coffee

16:15

Gas Processing and Transportation

Equatorial Guinea: progress of the LNG development on Bioko Island.

Juan Antonio Ndong Ondo

*Director General
SONAGAS
Equatorial Guinea*

Angola: gas commercialization is on track.

Syanga Abilio

*Chairman
Angola LNG*

Nigeria: an assessment of the health of the LNG sector, given the tensions existing elsewhere.

Dayo Okusami

*Senior Associate
Templars, Nigeria*

Algeria: developing integrated LNG schemes.

South Africa: committed to expanding the gas market through LNG imports and growth of the pipeline infrastructure.

Partnering development of Africa's gas resources: international energy companies are committed to the continued development of Nigeria's LNG potential.

Financing gas pipelines: what are the constraints on projects like Medgaz or trans-Saharan gas pipeline?

18:00 End of Gas21

Thursday, June 28



EnergyAccess21



Co-organized with



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A Meeting of Purpose

EnergyAccess21 provides an opportunity for governments, the private sector, donors, and NGOs to discuss how to improve energy access to poor communities.

09:00

Energy for Rural Communities

Chairman

Peter Davies

Senior Energy Adviser Policy Division, DFID, London

Power now! Rural communities can't wait for the grid. The power of renewables—are they the solution?

International solutions

- Sustainability should be the essence of renewable technology—to what extent is this so?
- Expanding the responsibility of the private sector to deliver long-term sustainability.
- Is it possible to ensure that funds are efficiently and responsibly disbursed?
- Replicating success—how easy is it to transplant successful models from Asia to Africa?

Indigenous solutions

- How sustainable are biofuels?
- How to engage local entrepreneurs in the successful delivery of rural energy services.
- Rural electrification agencies can play an important part in policy, funding, monitoring—how to promote their effectiveness?

Paul Clark

Vice President

National Rural Electric Cooperative Association USA

Olaf Goebel

Head of Renewable Energies, Lahmeyer International, Germany

Fabian Jochem

International Sales SMA Technologie, Germany

David Keith

Senior Partner PA Consulting Group, USA

Guy Marboeuf

Manager of Access Program
EDF, France

Fabio Nehme

Projects officer, IFC, Washington

James Rockall

Managing Director
World LP Gas Association
France

Casper Sonesson

Acting Director, Division of Business Partnerships
UNDP, USA

Arno Tomowski

Director of Environment & Infrastructure
GTZ, Germany

Patricia Veevers-Carter

Program Manager, Global Partnership on Output-Based Aid, Washington

11:30

Power for Peri-urban Communities

Chairman

Sarah Adams

CEO, GVEP, London

So close and yet so far! Power for many disadvantaged urban communities is tantalizingly close. Surely it can't be that difficult to extend the grid? What solutions are on offer?

Private-sector solutions

- How to operate commercially in a low-income environment.
- Renewable energy and grid electricity are often seen as mutually exclusive, need this necessarily be so?
- How to provide "civic" power at a profit.

State-sector solutions

- How do utilities propose to extend their services to low-income consumers.
- How to manage the efficient transfer of power from "pole to household".
- How to resolve controversial issues around the payment for power.
- Identifying incentives to encourage both domestic and international investment.

Younes Maamar

Director General

Office National d'Electricité

Oscar Kalumiana

Director of Energy
Ministry of Energy & Water
Development, Zambia

Paul Mare

General Manager, Umeme,
Uganda

Ransome Owan

Chairman & CEO
Nigerian Electricity
Regulatory Commission

Richard Tainton

Managing Director
Mtwara Transmission &
Distribution Company
Tanzania

Mike Scholey

Finance Director
Aldwych International
United Kingdom

Paulinus Shilamba

Chief Executive Officer
NamPower, Namibia

13:00 Lunch

14:30

Funding the Future

Chairman

Dean Cooper

Managing Director
Parallax Sustainable
Development Solutions, UK

Without power there is no social and economic development. This reality is increasingly recognised, and funds are available. But effective application is often lacking.

Financial solutions

- The impact of "Output-Based Aid" —examples from the ground.
- Climate change—the implications for funding?
- Germany's commitment to infrastructure development.
- Disbursement agencies like GVEP facilitate the efficient flow of funds to energy projects.
- Energy funds benefit from commercial rigour.

Rene Karottki

Adviser
European Commission:
Directorate General
Development, Brussels

Thomas Kraneis

Executive Director of Energy
Lahmeyer International
Germany

Martijn Proos

Investment Officer
FMO - Netherlands
Development Finance
Company

Aaron Senanu

Senior Project Manager
EcoSecurities, UK

Paul van Aalst

European Representative
E&Co, Amsterdam

MIDGA

Standard Bank

Federal Ministry for Economic
Cooperation and Development
(BMZ)

15:45 Coffee

16:15

Biofuels Round Table: Sustainability or Slavery

Chairman

Graham Baxter

Vice President, Corporate
Responsibility, BP, UK

- How sustainable are biofuels?
- Regulation & policy
- Growing biofuels feedstocks
- Import, export, trading & pricing
- Biofuels finance & investment

Biofuels are finding increasing application in West Africa—how sustainable is its success?

Joseph Adda

Minister for Energy, Ghana

Hamed Diane Semega

Minister of Mines, Energy &
Water, Mali

18:00 End of EnergyAccess21