

Conference Topics

Dec 2011



8-11 May 2012



Johannesburg Expo Centre, Nasrec
Johannesburg, South Africa

Tuesday, 8 May 2012

Opening Ceremony

15:00 – 16:15

Half of the world's ten fastest growing economies in 2011 are expected to be in Africa.
How to mobilize investments into the infrastructure sectors to meet the increased demand for power, reliable water services and mobility?

To that end, and building on existing tools and analysis, several 'high-level', transparent, and economy-wide scenarios for growth strategies for Sub-Saharan African infrastructure sectors are presented.

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| Key Note 1 | The Role of the Politics as Catalyst for Growth |
| Key Note 2 | Water as a Quality in the urban landscape for livability, well-being and profit |
| Key Note 3 | Fossil Energy Generation vs. Renewable Sources |
| Key Note 4 | How the World Bank reflects the growing Role of Africa in World's Economy |

Key themes

The growing Role of Africa in the World's Economy

Africa's value to the world

Examining Southern Africa's potential as a global trading partner

Challenges facing Africa's Drive for Growth

Powering Africa's Growth is a political, economic and social imperative

Panel Discussion

16:15 – 17:15

In order to reach a goal of universal access to modern infrastructure services in Southern Africa, consideration of various multi infrastructure sector pathways is required to help inform policy-makers and investors, and help guide system design.

The relationship between a national economy and its economic infrastructure is analogous to that between a building and its foundation.

Access to infrastructure services is more limited in Southern Africa than in any other region of the developing world.

Group of Panelists

Government Representative - Public Utilities – Private Sector
International Finance Institution

Key themes:

6% GDP Growth vs. 2% Investment Growth - How to overcome this unsustainable situation?

Closing the Infrastructure Gap

Who should be the Driver: Public or Private Actors?

Making it Happen: Politics and the Market – Tailoring the Framework for Implementation

Excursion through the Exhibition

17:15 – 18:00

Wednesday, 9 May 2012
Morning Session



8-11 May 2012
Johannesburg, South Africa

Overall Topic: Energy Efficiency, Intelligent Grids, Renewables

Start: 10.00

Long-term forecasting methods for power planning show roughly a threefold increase in installed generation capacity occurring by 2030, but more than a tenfold increase would likely be required to provide for full access.

Southern Africa is endowed with a great variety of energy resources that are unevenly distributed between countries. Integration of the region's power grids will make it possible to develop these resources on a larger scale so they become complementary and effectively contribute to economic growth and reducing poverty in the region.

"Open Grids" and "open power markets" will contribute to boost competitiveness, employment and resilience in the region.

Key themes:

Creating a Transnational Energy Market

Experience from Open European Power Markets

Case Study for African Power Pools

How to create a sustainable Energy Mix for Southern Africa - Realities and Perspectives

Parallel Workshops

10:45 – 11:45

Workshop A:

Energy Efficiency is the most valuable source
Paradigm Shift in Energy Thinking

How can vocational training create a sustainable work force ?

Key themes:

Fossil Energy Generation
Energy Efficiency in Buildings
Decentralised Energy Concepts

Workshop B:

Renewable energy is emerging as a fundamental requirement for addressing the challenges posed not only by climate change, but also by economic growth. It is also viewed as an essential foundation for meeting the needs of the rural poor.

Key themes:

Are the building blocks in place for a successful "Renewables Program" in Southern Africa?

Impetus Speech and Panel Discussion

12:00 – 13:00

How will governments finance an expansion in power capacity?
How will state power utilities realize open power markets?
Who is funding IPPs and at what risk?

We shall discuss the multiple and sometimes conflicting power trade initiatives in the region, facilitate ownership and a platform for policy harmonization to create economic benefits that will spill over to neighboring countries.

Group of Panelists

Government Representative - Public Utilities – Private Sector
International Finance Institution

Key themes:

Creating a Transnational Energy Market

Is the Region and the Market already prepared ?

Can we learn from the open Market in Europe?

Wednesday, 9 May 2012
Afternoon Session



8-11 May 2012
Johannesburg, South Africa

Overall Topic: Water and Wastewater “Cities for the Future”

Start: 14.30

Water and Urbanity – integrated Approaches

The aim is to highlight the need for and benefits of integrating and emphasizing water in the planning of cities of the future.

Urban planners, policy makers and water managers must respond effectively and urgently to the impacts of climate change, growing resource constraints, rapidly increasing global urbanization and the importance of urban needs that address the competition between regions and other water users.

Key themes:

“Cities for the Future”- The Water Sector as Catalyst for Urban Development

How to mitigate the Urbanisation Pressure

“Infrastructure for the Bottom of the Pyramid”

Parallel Workshops

15.00 – 16.00

Workshop A:

Water Resource Management
Water Infrastructure and Risk Management
Waste Water as Energy Source

How can energy-saving measures in water-supply and wastewater disposal plants reduce the pressure on municipal service budgets?

Key themes:

**Municipal Water
Water Reuse
Life Cycle Costs as Planning Instrument**

Workshop B:

Rural Water Resource Management
Water Infrastructure as Catalyst for a commercially viable food industry

Getting Harvest to the Market: Food Security, Agriculture and the Requirements to Rural Water and Irrigation

Key themes:

**Rural Water Management
Cost optimized irrigation systems**

Impetus Speech and Panel Discussion

16:00 – 17:00

Points to be discussed:

Who will invest – Which policies are needed –
How will tasks be divided between public and private actors
How will benefits be distributed?
Which are implications at municipal and rural level
What are the consequences for city governments, regional administration, national or foreign investors, financiers

Group of Panelists

Government Representative - Public Utilities – Private Sector
International Finance Institution

Key themes:

Can Private Sector Participation close the financial Gap?

The Role of IFIs as Mediator between public and private expectations

Thursday, 10 May 2012
Morning Session



8-11 May 2012
Johannesburg, South Africa

Overall Topic: ICT Technology for Africa

Start: 10.00

The integration and networking of conventional and alternative energy sources at a national and regional level will change our energy supply system.

The increasing reliance on decentralized, fluctuating energy derived from renewable sources will necessitate the closer coordination of generation, storage and consumption. This in turn will require smart networking systems.

Key themes:

Safety and Security of Smart Grids – Infrastructure Vulnerability

Fighting Cyber Warfare Attacks against Infrastructure Systems

Protecting Energy and Water Infrastructure

Parallel Workshops

10.30 – 11.30

Workshop A:

Managing Municipalities means managing Data Streams.

The Challenges for Efficiency gains through IT Solutions are enormous.

Key themes:

Tomorrow`s urban IT Systems
Bringing Innovation into Practice
Challenges and Opportunities of integrated IT Systems

Workshop B:

The safety/security of citizens, information networks and the public infrastructure will pose a major challenge to tomorrow`s cities. Sensor networks and local services will provide the basis for monitoring and managing the various energy flows in cities – safely and reliably.

Key themes:

Dangers, vulnerabilities and cyber security with regard to service infrastructure
Fighting Cyber Warfare Attacks against Infrastructure Systems

Excursions through the Exhibition

11.30 – 13.00

Individual time for excursions through the exhibition.

Thursday, 10 May 2012
Afternoon Session

Overall Topic: Mobility and Transportation Infrastructure

Start: 14.00

Improvements in transportation infrastructure will generate economic growth and ultimately improve lives within the communities when carefully balanced with environmental considerations. Efficient and climate friendly logistics are the basis for improving the livelihood of cities in the region.

What needs to be done to secure the rising demand for logistic services without congesting the lifelines of the cities?

Key themes:

Urban Mobility – the decisive factor for investment settlements

How to implement a Climate Business Plan in the Transportation Sector

Parallel Workshops

14.30 – 16.00

Workshop A:

What will the roles of different forms of transport be?
How can different traffic carriers be managed?

What are the latest technological developments to create the “Intelligent City”?

Key themes:

Mobility and Logistics in the City of Tomorrow

Workshop B:

How can we create the conditions for increased support for transport investment and governance?

How can sound project management be improved to foster new technologies

Key themes:

Intermodality between different carriers –only a vision?

Impetus Speech and Panel Discussion

16:00 – 17:00

Points to be discussed:

What are the trends and different experiences with PPP Projects?
What role does good governance play in this issue?

Group of Panelists

Government Representative - Public Transport Utilities – Private Sector Representatives International Finance Institution

Key themes:

The Transportation Sector as Catalyst for Economic Development and Open Markets

Is the Sector ready for PPPs?



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