



ENERGY

CARBON

THE ROLE OF SOUTHERN AFRICAN COAL IN THE
FUTURE CARBON-CONSTRAINED WORLD ECONOMY

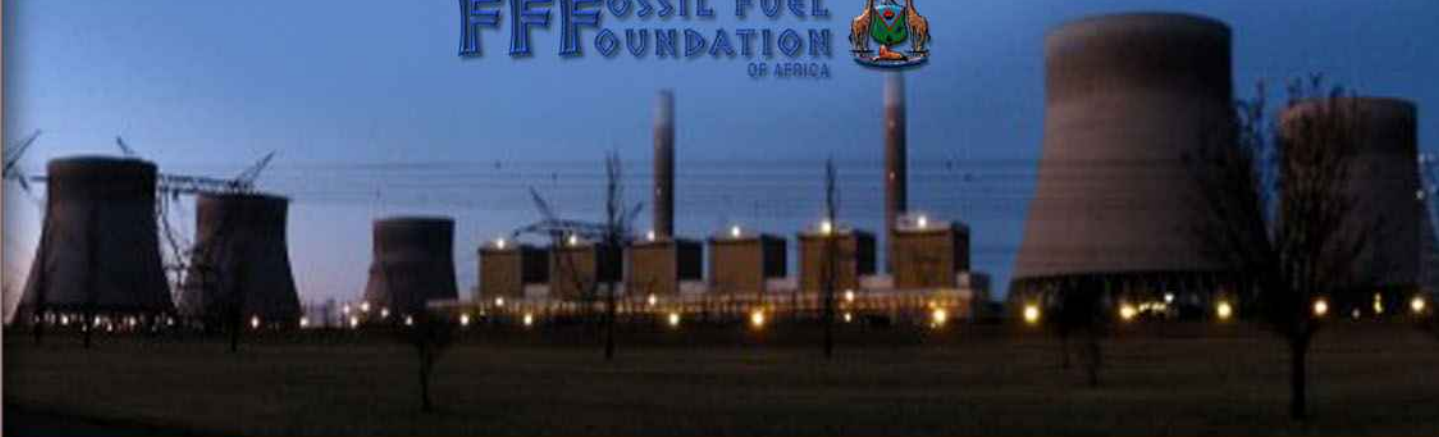
PART 1

OUTLINE AND PROGRAMME

Part I – Tuesday 17 November 2009
Part II – Wednesday 17 February 2010

Glen Hove Conference Centre, Melrose, Johannesburg, RSA

FFF FOSSIL FUEL
FOUNDATION
OF AFRICA 



Southern Africa is well endowed with significant reserves of coal, and this has led to its wide usage for power generation, coal-to-liquids, metallurgical processes and a host of smaller scale industrial activities.

However, the era of cheap fossil fuels is coming to an end; at the same time awareness of the climate change impact of fossil fuels usage is rapidly gaining momentum and the world is moving to a carbon-constrained economy. All this has major implications for the future of the Southern African coal industry, in terms of both local consumption and exports.

This conference is the first of two events. Its purpose is to assess the role of Southern African coal in the future world carbon-constrained economy by:

- Reviewing the looming world crisis of meeting future energy demand at affordable prices
- Reviewing the impact of climate change on the coal industry
- Reviewing mitigating actions based on clean coal technology
- Comparing the future cost, pros and cons of energy from coal with the major renewable and nuclear energy sources.

The second conference will be held on 17th February 2010 to hold more detailed discussions around specific issues identified during the first conference. This will also provide a forum for discussion of the outcomes of the United Nations Convention on Climate Change in Copenhagen in December 2009, which will have important implications for the coal industry. The latest national & regional regulatory & policy development will be presented and the impacts on Southern Africa and its coal sector will be discussed.

WHO SHOULD ATTEND

- Coal producers and users
- Alternative energy producers
- Energy efficiency managers
- Marketing directors
- Environmental consultants
- Government
- Researchers and technical innovators
- Project developers and constructors

PROVISIONAL PROGRAMME

The two problems – the world is running out of cheap fossil energy, and climate change. The use of fossil fuels is only a 400 year blip in the greater scheme of world history; they will run out soon. So quite apart from the climate change effects of fossil fuels, other energy sources will have to be developed. **Dave Collins** (Promethium Carbon)

SESSION 1: FUTURE CHALLENGES IN AN EVOLVING CARBON-CONSTRAINED ECONOMY

The reality of climate change and the risks and opportunities it presents to business in general.

- **CLIMATE CHANGE**
The science of climate change and the projections for the future. The resulting challenges, impacts, needs for mitigation, and the need for a carbon-constrained economy. **Peter Lukey** (Dept. of Environmental Affairs)
- **CURRENT AND IMPENDING POLICY AND LEGISLATION**
International and national legal and policy frameworks in terms of energy and climate change - Kyoto, Copenhagen, carbon tax, trade measures. Implications for business Southern Africa's energy future. **Marie Parramon** (Imbewu)

- **RISKS AND OPPORTUNITIES RELATED TO CLIMATE CHANGE**
Business risks and opportunities related to climate change and the carbon constrained economy. Adaption & mitigation. Carbon Disclosure Project results. **Valerie Geen** (*National Business Initiative*)

SESSION 2: WORLD FUTURE ENERGY REQUIREMENTS AND THE OPPORTUNITY FOR COAL

The coming energy supply crisis caused by an increase in demand and an increase in costs. This could be accompanied by a reduction in oil production.

- **WORLD ENERGY FUTURE DEMAND**
Projections for the demand for energy into the future. The effect of peak oil. The intentions of many countries to rely on coal for several decades. **Dr. Chris Cooper** (*Central Energy Fund*)
- **WORLD ENERGY REQUIREMENTS – MITIGATING ACTIONS**
What can be done to reduce the demand for energy. Energy efficiency in transport and buildings. Energy recovery through cogeneration. Speaker TBA

SESSION 3: SOUTHERN AFRICA COAL: FUTURE SUPPLY & DEMAND

The supply of and demand for Southern African coal – for local consumption and for exports.

- **SOUTHERN AFRICA COAL SUPPLY AND RESERVES**
Overview of the reserves and highlighting of the issues, through brief presentations and a panel discussion. **Professor Anton Eberhard** (*UCT*) **Xavier Prevost** (*XMP*) **Professor Rosemary Falcon** (*Wits*) **Kgomotso Abi** (*Director of Mines, Ministry of Minerals, Energy & Water Resources, Botswana*) Other speakers TBA
- **SOUTHERN AFRICA COAL AND ALTERNATIVE ENERGY DEMAND**
The future demand for Southern African coal. Plans for using other sources of primary energy.
Sasol - speaker TBA
Eskom - **Kannan Lakmeharan**, *MD System Operations and Planning*
Industrial use of coal in South Africa - **Professor Rosemary Falcon** (*Wits*)
Botswana - **Kgomotso Abi** (*Director of Mines, Ministry of Minerals, Energy & Water Resources*)
Zimbabwe - speaker TBA

SESSION 4: FUTURE EMISSIONS STRATEGIES AND MITIGATING ACTIONS

- **SOUTHERN AFRICA COAL PRODUCING COMPANIES: STRATEGIES TO THRIVE IN THE FUTURE CARBON-CONSTRAINED WORLD ECONOMY**
Anglo American • Exxaro • BHP Billiton • Sasol • Xstrata
- **COAL MITIGATING ACTIONS (1)**
The use of clean coal technology to reduce emissions – at a cost, through higher combustion efficiencies and gasification. **Dr. Mark van der Riet** (*Eskom*)
- **COAL MITIGATING ACTIONS (2)**
Carbon capture and storage **Dr. Tony Surridge** (*SA centre for CCS*)

SESSION 5: THE MAJOR ALTERNATIVES TO COAL AND THE ROLE THEY CAN PLAY

- **NUCLEAR**
Applicability, true costs, available resources, advantages and disadvantages. Speaker TBA
- **WIND**
Applicability, true costs, available resources, advantages and disadvantages. **Robbie Louw** (*Promethium Carbon*)

ENERGY

- SOLAR
Applicability, true costs, available resources, advantages and disadvantages. **Thomas Garner** (*Exxaro*)

SESSION 6: COAL v. THE ALTERNATIVES

- COMPARISON
The future cost of coal (with carbon capture and storage, and/or carbon tax) in perspective with the alternatives – nuclear and major renewable sources.
Speakers: **Bob Tait** (*Wits*) **Dave Collins** (*Promethium Carbon*)
- SUMMARY AND PANEL DISCUSSION
What is the future of Southern African coal? Costs, reserves, emissions.

SPONSORSHIPS

Sponsorship packages are available as well as sponsorship on specific items. All sponsors will be offered branding promotion whether this is inclusion of your logo on the sponsored item or as banner displays in the dining hall or venue. The Conference Secretariat has details

ACCOMMODATION

Accommodation in nearby hotels or B&Bs is available.
Please contact the Conference Secretariat for details: Ms Robbie Cameron
Tel 011 728 8173 • Fax 011 728 1675 • Email:robbie@rca.co.za

ORGANISING AND TECHNICAL COMMITTEE

Mr Dave Collins – *Promethium Carbon* (Conference chairman)
Ms Marie Parramon – *Imbewu*
Professor Rosemary Falcon – *FFF/Wits*
Mr Bob Tait – *Wits*
Dr Peter Lukey – *DEA*
Mr Kgomotso Abi – *Ministry of Minerals, Energy and Water Resources, Botswana*
Mr Paul White – *FFF/US Embassy*
Mr Brian Tait – *Sasol*
Mr John Walmsley – *Consultant*
Dr Brian Purchase – *Consultant*
Mr Dick Kruger – *FFF/Chamber of Mines*
Dr John Holloway – *DRC Congo*

CONFERENCE SECRETARIAT

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RCA Conference Organisers

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REGISTRATION

Part I – Tuesday 17 November 2009

Title Surname First Name

Postal address

Telephone Mobile Fax

Email (please print clearly)

Company or Organisation (to be invoiced)

Your company's VAT registration number

Purchase order number

Your position in the company

Accounts contact person

Accounts tel/fax number

Accounts email address

Company's Postal Address

Are you a member of the Fossil Fuel Foundation? YES NO

Specific dietary requirements

REGISTRATION FEES

EARLY BIRD REGISTRATION

Register and pay on or before 15 October 2009

Member – R2 500.00 Non Member – R2 750.00

FULL REGISTRATION

Register and pay after 15 October 2009

Member – R2 750.00 Non Member – R3 000.00

Full time student/academics/retired person – R1 500.00

Invited Speaker FFF Guest Media **0.00**

See next page for registration information

REGISTRATION FEES are VAT inclusive

Please tick the option for which you are registering on the previous page.

Full Registration fees to the conference include:

Delegate folder, name tag, entrance to all sessions, abstract book & programme, CD of presentations, tea/coffee breaks and lunch.

Please note: if your registration fees have not been paid by 10 November 2009 by your company you will remain personally liable for the full amount.

Attendance is STRICTLY subject to prior payment.

Please fax your registration form to:

+27 11 728 1675 or email to robbie@rca.co.za or register@rca.co.za

An invoice will be issued on receipt of a completed registration form. Attendance is **STRICTLY** subject to prior payment, a deposit slip or transfer form with the invoice number as a reference is required as proof of payment

CANCELLATION OF THIS REGISTRATION

Cancellation may be made in writing 10 days prior to the conference; a 25% administration fee will be charged. No refund or credit note will be issued if written cancellation is not received timeously.

**You will then remain liable for payment of the invoice.
Registrations are transferable.**

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