

Comments on Integrated Energy Resource Plan

GeaSphere

ICC Durban

26 November 2010



GeaSphere
earth matters

GeaSphere

- Established in Mapumlanga in 1999
- Primary Focus is impact of industrial tree plantations on people and the environment
- Promotes sustainable livelihoods
- Promotes sustainable of Water and Energy use
- Offices in Mapumalanga and KwaZuluNatal in South Africa, Maputo Mozambique and Swaziland



Too little Too late

- In 2003 was part of study tour to Denmark with DME officials and parliamentarians
- Government not serious in commitment to renewable energy.
- Still waiting for the Govt contribution to joint report
- “Energy Crisis”
- Flawed process IRP 2010
- Allow the corporates and multinationals to dictate energy costs and energy needs.



Water and Energy

- Water is life – without water we will die
- MOUs to supply Eskom
- Medupi water efficient ?
- Scrubbers not in place at start up
- Water required for scrubbers and myth of clean coal

No Such thing as Clean Coal it's a Myth



Impacts of Coal

South Africa's Water Resources under South Africa's: water resources under threat

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Pollution killing Loskop wildlife

Published: Jul 22, 2007

Philani Nombembe

Fish, crocodiles bear brunt of leaking toxins

Deadly toxins are poisoning Loskop Dam, a popular recreation spot for Gauteng residents — and government-owned mines are probably to blame.

Crocodiles and thousands of fish have died as a result, and the water poses a health risk to nearby communities who use it for drinking and washing.



Dirty Water: Pollution — most likely from government-owned mines — is killing fish at Loskop Dam Picture: CHAYNE NUEBERT

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Decentralized Energy

- “Energy Crisis” 2008
- Transmission problems
- Small is beautiful
- Don’t see encouragement for local energy supply projects as IPPs and small mini grids
- Studies have been done by NGOs promoting these options



Power lines from Cahora Bassa passing the Mozambiquan communities with no electricity



Nuclear

- PBMR cost the Earth
- Conventional Nuclear – Finland Reactor way over cost
- Uranium legacy
- We paying the cost in terms of water Quality
- We will continue to pay the cost of waste and decommissioning



Solutions

- We need to increase the energy efficiency component studies have shown that this alone can solve some of the problems
- Look at decentralized energy and CHP options
- Look mirco hydro projects and small hydro projects in all new water projects
 - Western Aqueduct
 - Maguga Dam Swaziland



Thank you

- Contacts

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