

SITING AS A (NEO)COLONIAL PROJECT

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Governing nuclear waste conference, FFU,

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SOUTH AFRICA'S NUCLEAR HISTORY



GLOBAL NUCLEAR INTEGRATION

- Post-Manhattan global search by US & UK for Uranium
- SA found to have rich deposits as a by-product of gold mining
- Atomic Energy Board established in 1948, same year as apartheid

Under US Atoms for Peace a research reactor was provided



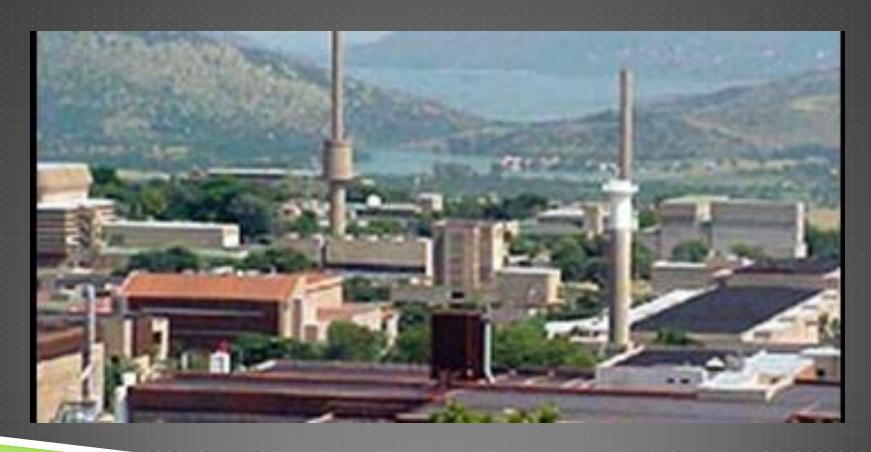


MILITARISATION

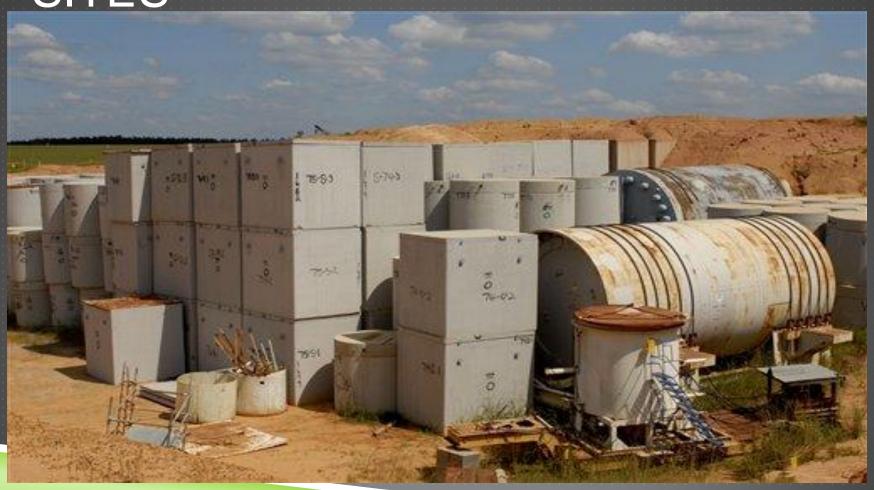
- Training of SA scientists in US, UK, W Germany & contact with Israel
- By 1970, an enrichment programme was initiated
- ▶ By 1978, SA began to manufacture weapons of mass destruction
- By 1984, two power reactors began to operate outside Cape Town
- In 1990, the weapons programme was dismantled



NUCLEAR RESEARCH @ PELINDABA



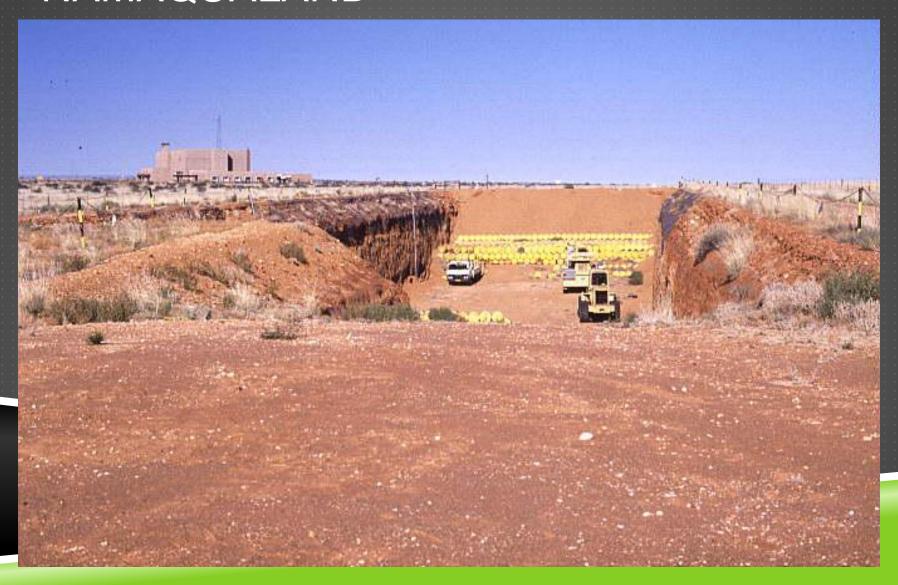
"RADIATION HILL" AND OTHER SITES



NUCLEAR ENERGY @ KOEBERG

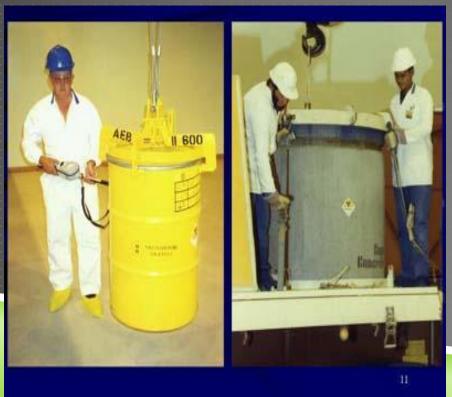


NUCLEAR WASTE @ VAALPUTS IN NAMAQUALAND



PURPOSE OF VAALPUTS

1985 ----Search on for a shallow disposal site for low- and intermediate-level wastes mainly from Koeberg reactors.





SITING HISTORY OF VAALPUS

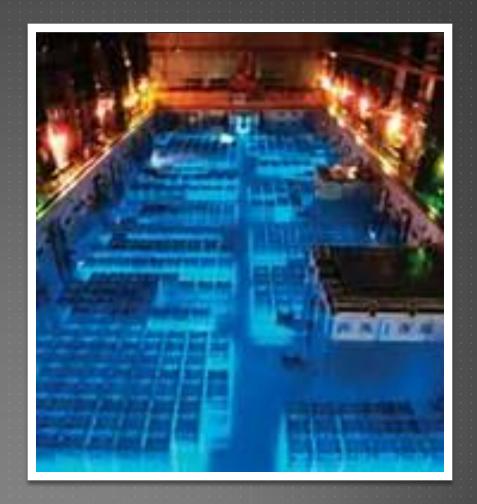


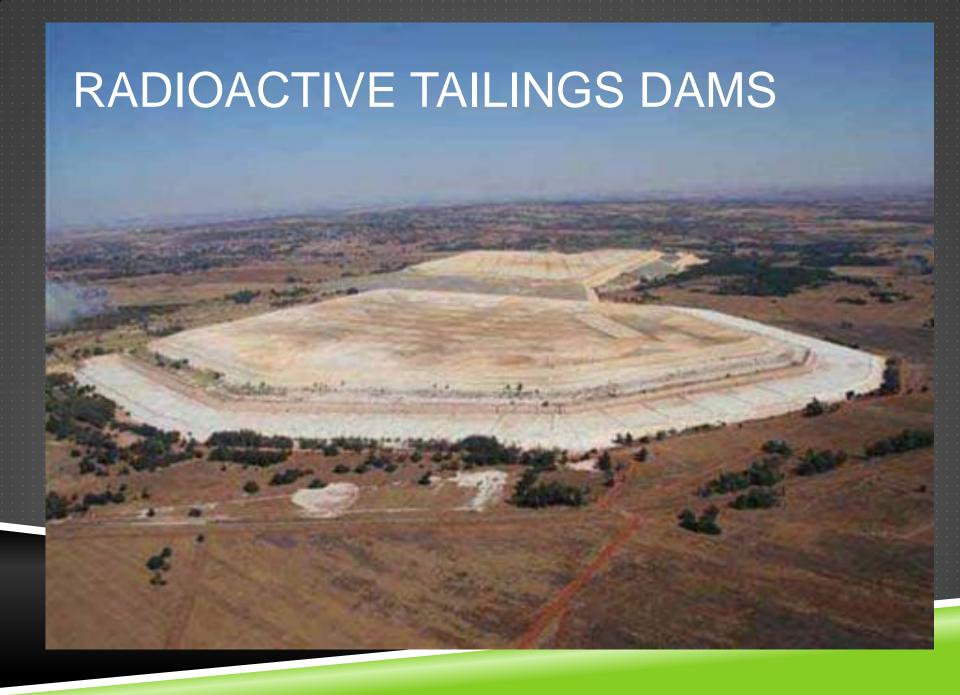
NAMA PEOPLE LIVED WITHIN



HIGH LEVEL WASTES

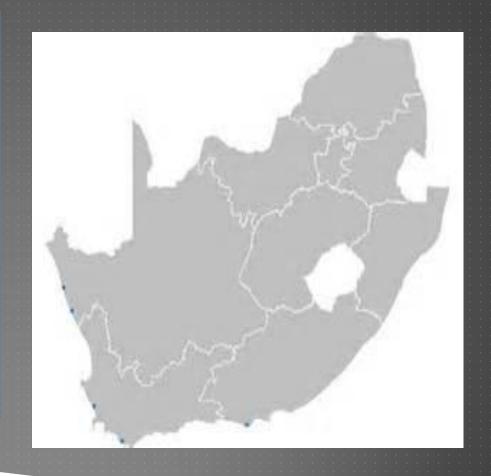
- 1. WET STORAGE ON SITE AT KOEBERG SINCE 1984
- 2. PONDS HAVE TO BE RE-RACKED AS THERE IS NO OTHER LONG TERM SOLUTION
- 3. DRY STORAGE IN CASTOR X/28-F CASKS ABOVE GROUND AT THE KOEBERG SITE.



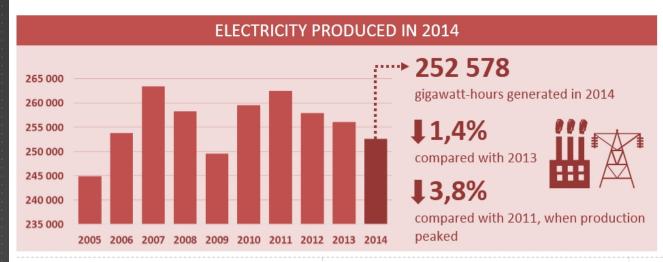


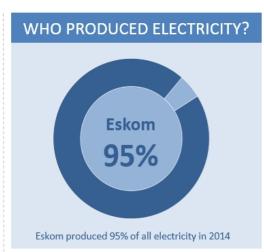
NUCLEAR RELATED ACTIVITIES

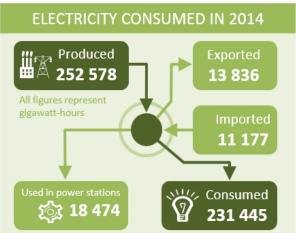
- Pelindaba
- Witwatersrand
- Vastrap
- Vaalputs
- Uranium exploration
- Thyspunt
- Koeberg
- Bantamsklip

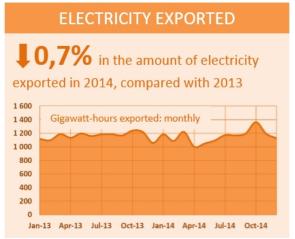


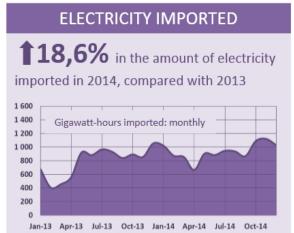
Electricity produced and consumed in South Africa: 2014











Electricity generated and available for distribution, December 2014 http://www.statssa.gov.za

SOUTH AFRICA @ A CROSSROADS

- Today 1 844MW of nuclear
 - = 2 reactors
 - = 5% of electricity
- > Add a further 9 600MW of nuclear?
 - = 6-8 extra reactors
 - = 12% of electricity

BALANCE OF FORCES

PROMOTING

- President & entourage
- Department of Energy
- Nuclear lobby & beneficiaries



OPPOSING

- Environmental justice groups
- Faith-based organizations
- Trade unions
- Affected communities
- Opposition political parties
- Energy Intensive User Group
- Manufacturers' Circle
- Chambers of Commerce, NBI
- Financial press
- University & other researchers
- National Development Plan
- CSIR

REASONS FOR PRESIDENT'S SUPPORT

WHY, DESPITE THE LOGICAL CASE OF THE ANTI-NUCLEAR FORCES DOES THE PRESIDENT PERSIST IN GOING AHEAD?

- Patronage networks
- Cronyism
- Legacy issues
- Geo-politics



GEO-POLITICS

- Preferential support for giving Russia the business
- Zuma close to Putin
- Using spaces like BRICS and G20 to reinforce relationships



MEMORANDA OF UNDERSTANDING WITH VENDOR STATES

SA is choosing suppliers from:

China (*China Guangdong*), France (*Areva*), Japan/US (*Toshiba/Westinghouse*), Russia (*Rosatom*) and South Korea (*KEPCO*).

MoUs usually speak about co-operation, and do not contain contractual information



THE AGREEMENT WITH RUSSIA

- Kept secret
- Russia first announced it had the contract for the new build in SA
- > It later retracted, as did South Africa
- Eco-Defence, a Russian NGO, found the document on the website of Russia's foreign ministry and made it available
- It confirmed that Russia would be granted the contract, and control over the whole nuclear fuel chain in SA, without having any liability
- Because it contains contractual information, the MoU is technically illegal

СОГЛАШЕНИЕ

между Правительством Российской Федерации и Правительством Южно-Африканской Республики о стратегическом партнерстве и сотрудничестве в области атомной энергетики и промышленности

Правительство Российской Федерации и Правительство Южно-Африканской Республики, в дальнейшем совместно именуемые Сторонами и отдельно Стороной,

признавая, что оба государства являются членами Международного агентства по атомной энергии (далее — МАГАТЭ), участниками Группы ядерных поставщиков и Договора о нераспространении ядерного оружия от 1 июля 1968 г.

руководствуясь Соглашением между Правительством Российской Федерации и Правительством Южно-Африканской Республики о сотрудничестве в области мирного использования атомной энергии от 20 ноября 2004 г.,

учитывая намерения Южно-Африканской Стороны по реализации масштабного плана развития национальной энергетики, предусматривающего сооружение до 2030 года новых энергоблоков атомных электростанций (далее – АЭС) в Южно-Африканской Республике,

отмечая права и обязанности Сторон по Соглашению между Правительством Российской Федерации и Правительством Южно-Африканской Республики о поощрении и взаимной защите капиталовложений от 28 ноября 1998 г.,

ссылаясь на Совместную декларацию об установлении всеобъемлющего стратегического партнерства между Российской Федерацией и Южно-Африканской Республикой от 26 марта 2013 г.,

стремясь к дальнейшему расширению и углублению взаимовыгодного экономического и научно-технического сотрудничества между Российской Федерацией и Южно-Африканской Республикой в области атомной энергии и промышленности в мирных целях на основе равенства, невмешательства во внутренние дела и уважения суверенитета обоих государств,

исходя из убеждения, что договорно-правовое закрепление стратегического партнерства в области атомной энергетики и промышленности будет способствовать развитию сотрудничества на других направлениях между Российской Федерацией и Южно-Африканской Республикой,

согласились о нижеследующем:

LITIGATION

- In October 2015, the SA Faith Communities Environment Institute and Earthlife Africa instituted a court case against the state for the agreements signed with Russia, USA and South Korea.
- In addition the NGOs are accusing the state of not ensuring that nuclear procurement demonstrates the constitutional requirements for fairness, equity, transparency, competitiveness and cost-effectiveness.



WHEN WILL PROCUREMENT OCCUR?

- Government made several announcements that procurement would happen in 2015.
- The Treasury in its 2015 mini-budget granted the Department of Energy R200 million for preparing the procurement.
- Cabinet in December 2015 announced it agrees to initiate the procurement, but its decision is being challenged as illegal.
- The EIA for the first site at Thyspunt is almost complete, but the technology has not yet been chosen!
- ► The 2016 Budget statement allocated nothing to the procurement process.
- Minister of Finance Pravin Gordhan feels that procurement will not take place for at least the next three years.
- Minister of Energy Tina Joemat-Pettersen has announced it will begin on 30 September 2016

MEANWHILE...

- In less than five years, the state has commissioned 5 243MW of new renewable energy in the first four rounds of public bidding.
- R168 billion has been invested by the private sector in 79 projects.
- Over 1 800MW of the total is currently being generated.

WHAT NEXT?

- Galvanising those opposed is a challenge
- Zuma legacy issue & possibilities for patronage
- Can Treasury veto the project on costs alone?
- Will litigation slow down state ambitions?

THANK YOU!

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