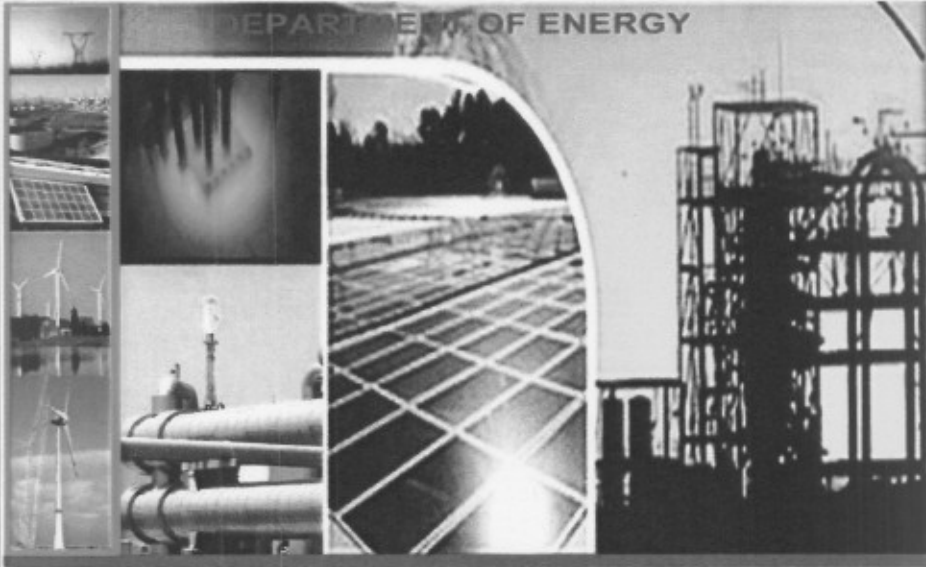



PC Energy
20 April
2010



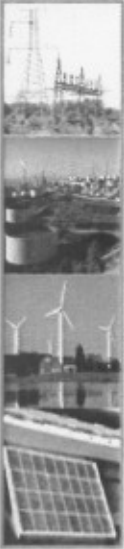
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Nuclear Skills

1



Current Status

- Needs analysis up to 2030 (report of 2009, after approval of nuclear energy policy):
 - Department ~ 12, new structure ~60
 - Necsa employs ~1900
 - Eskom Nuclear Cluster employs ~1800
 - NNR employs ~92
 - PBMR employs ~850, currently undergoing restructuring



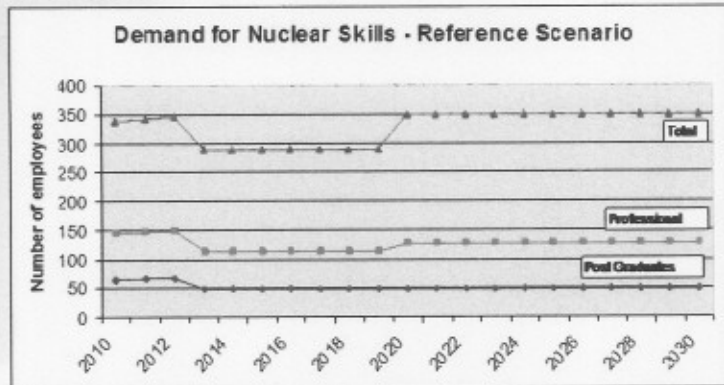
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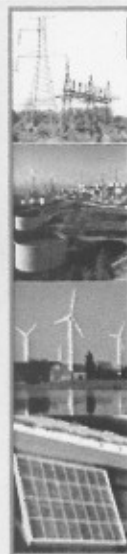
Demand Analysis Scenarios

- Scenario 1 – assumes current programme, no growth



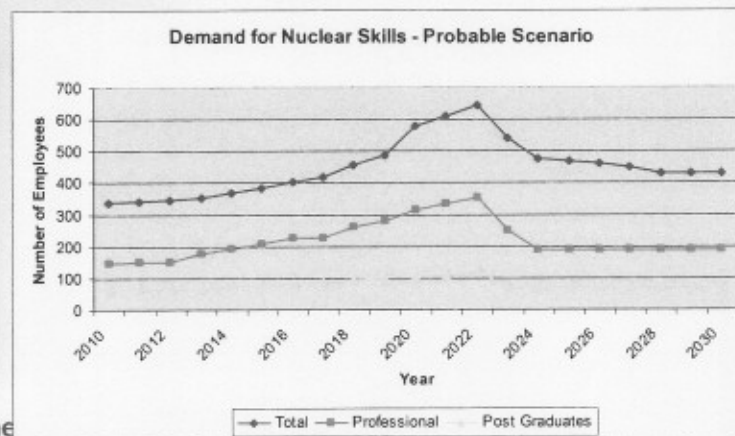
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Demand Analysis Scenarios

- Scenario 2 – expectations of activity in the next 10 years



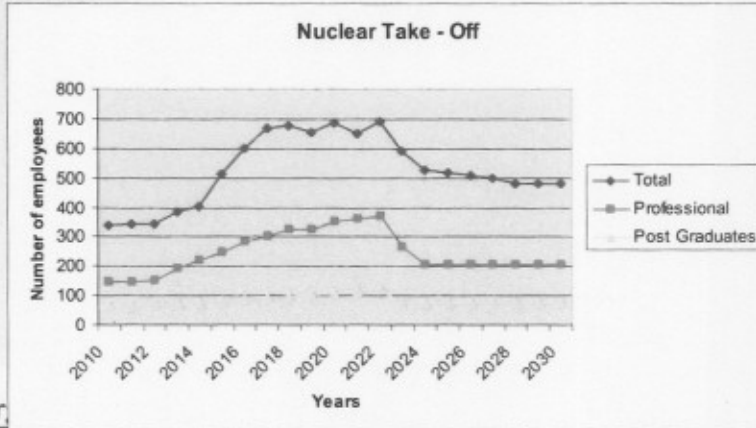
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Demand Analysis Scenarios

- Scenario 3 – 1 nuclear power station built



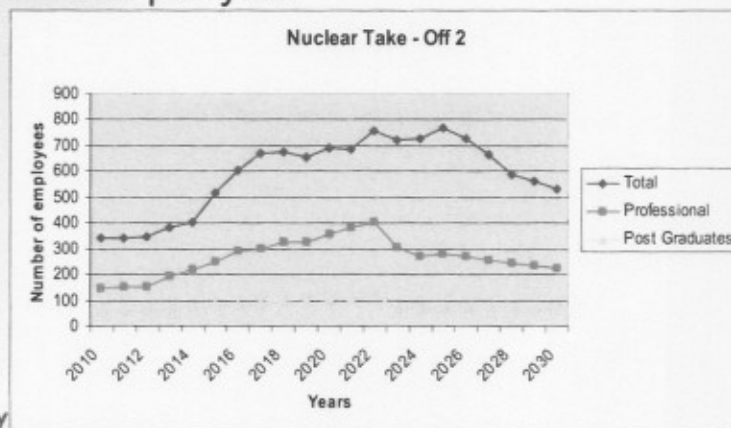
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Demand Analysis Scenarios

- Scenario 4 – Fleet, 2 nuclear power stations per year



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6



Initiatives internal to DoE

- Small External Bursary programme within the Department since 2008, funded from current allocations ~300K
- Internship programme (min 2 interns per directorate)
- Contract Energy Officer programme (10 contract energy officer positions) posts motivated for and approved prior to the split of DME



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7



Initiatives by Industry

- All entities have external and internal bursary programmes, internship and/or learnership programmes and leadership development programmes.
- Nuclear Skills Development Centre established and operational at Necsa
- Necsa is establishing the National Nuclear Security Center to ensure proper training of physical protection personnel for nuclear installations.



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Initiatives by Industry

- South African Nuclear Human Asset and Research Programme (SANHARP) is a bursary programme sponsoring grade 10 to post-graduate level. Initial focus was on PBMR
- Programme resides with DST, funded to R1.15billion over 10 years.
- SANHARP also establishes research chairs- UP, NWU



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Initiatives by Industry

- Artisan training – sector has partnered with the SA Institute of Welders
- RSA continue to use the International Atomic Energy Agency (IAEA) skills development opportunities. Plans underway to ensure maximum participation.
- ARECSA established between Areva and Necsa as a conduit to access funding for skills development



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10