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# NUCLEAR

# Going nuclear offers more than just a generation technology

The 2014 World Nuclear Industry Status
Report states that there are 388 reactors
in operation globally, with an installed
generation capacity of 332,548MWe
and an average age of approximately
29 years. With this in mind, ESI Africa
editor Nicolette Pombo-van Zyl caught
up with the South African Nuclear
Energy Corporation's chief executive
officer, Phumzile Tshelane.

Is nuclear energy a viable generation option to pursue?

What makes any new build programme viable is a sound implementation model as well as the funding model that supports it. For example, in South Africa, what would enhance the business case for the nuclear build programme is if it is coupled with a Nuclear Fuel Cycle.

South Africa has a feasible business case for the latter. Obviously the challenge with nuclear is the higher capital costs and lead times in comparison to other technologies. However, this is offset by lower Lifecycle Costs and virtually non-existent emissions (if you were to put a cost to this as well).

### What were the deciding factors for the 9,600MW of nuclear new build in South Africa?

- To have a sustainable and reliable base-load, which is important for security of electricity supply.
- The multiplier effect of a nuclear programme.
- 9,600MW translated into a fleet of roughly 10 reactors. For the nuclear new build programme to be viable

you need to implement a fleet (it's a question of economies of scale).

In ESI Africa's African

Power Elites: Projects and
People publication,
you predicted
that in 2015 there
would potentially
be a "procurement
decision for the
next nuclear power
station", is this still
the case?

The Minister of Energy, the Honourable Ms Joemat-Pettersson, anapuriced in the 2015/16 Policy and Budget Speech that the nuclear procurement process would commence in the second quarter of this financial year with the selection of a Strategic Partner or Partners, with the outcome of this process expected to be announced by the end of the financial year. The business model for the re-establishment of the Nuclear Fuel Cycle would also be completed.

So far, there doesn't seem to be a stumbling block in this process. Recall that the outlined process, which included the Vendor Parade process, has now been concluded.

### What are the skills that will be needed for the new build to be successful?

In South Africa, we already have a good skills base created and maintained through the existence of nuclear infrastructure at Necsa. Koeberg and iThemba LABS, as well as skills and capability created through the PBMR. We have had programmes previously, like SANHARP and ARECSA, that developed high-level skills that are now being utilised in the sector.

One of the Working Groups of the Energy Ministerial Committee has worked on a skills development strategy in anticipation of the nuclear new build. Furthermore, the draft Nuclear Energy Research Development and Innovation Strategy (NERDIS) is supportive of the human capital development.

Therefore, the skills required and that are being developed cut across the skills pyramid (artisans, technicians, technologists, scientists and engineers across all disciplines).

### Do you foresee any challenges with the new nuclear build deadlines in bringing the additional generation capacity online?

So far, the process has been very intensive, with Working Groups hard at work looking at various facets of the new build (funding, skills development, etc.), including analysing challenges and related mitigation. The Vendor Parades also provided a good idea of available technologies and possible funding models.

### In your view, which countries (besides South Africa) could develop nuclear energy generation in the next 30 years and why these countries?

There are countries in Africa that have Research Reactors and which South Africa continues to engage in terms of collaborating, particularly in radioisotope and radiopharmarceutical technologies (or so-called radiation-based applications).

Therefore, nuclear must not just be looked at from a perspective of power generation but we must also take into cognisance other aspects of nuclear for which Africa can take a lead globally. Note that South Africa is amongst the top manufacturers and suppliers of radiopharmaceuticals in the world.

### Lastly, Necsa is celebrating 50 years of the SAFARI-1 research reactor; what does the future hold for Necsca as a corporation?

The future is very bright for Necsa because the radiopharmaceuticals business case mentioned earlier generates significant foreign currency for the country. We are currently working on strategic projects that will enhance Necsa's capability and capacity into the future and are realigning our R&D to focus on innovation outputs.

We are already generating new technologies, some of which are ready for commercialisation. As such, we play a critical role within the National System of Innovation. We already have ASME III accreditation (the only entity in Africa and one of a few globally) that places our nuclear manufacturing capability on a par with the best in the world.

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