



SAYNPS

**South African Young
Nuclear Professional Society**

Nuclear Profession Sustainability and
Preservation through Youth in Nuclear

**Nuclear Build is bigger than 9.6 GW
Presentation to IEP/IRP Public
Consultations**

Bringing nuclear science awareness to Communities

Complete Nuclear Fuel Cycle

- ✓ Conversion, enrichment and fuel fabrication – 5000 direct jobs
- ✓ Manufacturing of nuclear grade components large steel vessels, piping, pumps, valves, and electrical cabling - 5000 direct jobs
- ✓ Maintenance and operation of nuclear power plants, would require around 7000 personnel.

Quality education and industry training

- ✓ Youth to acquire the necessary skills to enter adequately sustainable jobs, and to have the knowledge to participate in the economic development.
- ✓ Large capacity of highly competent and skilled artisans.
- ✓ 15 000 artisans such as welders, boilermakers, plant operators, carpenters, electricians, pipefitters, will be required.
- ✓ Having a highly skilled labour force would attract investors to establish more manufacturing facilities in South Africa.

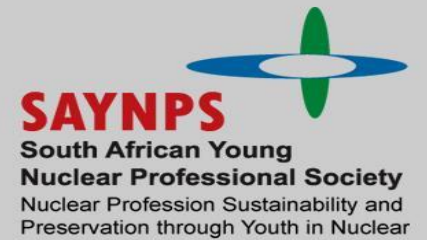
Quality education and industry training

- ✓ Need the mass-based skills development initiative benefiting the youth.
- ✓ contribute to skills development and to facilitate manufacturing capability.
- ✓ Expansion of existing institutions and establishment new.
- ✓ Given their advanced skills, these artisans would be easily employable in many industries such as the aviation, renewable energy, chemical, pharmaceutical, and petrochemical industry.

Economic advantages

- ✓ Eastern Cape Hub for Nuclear Manufacturing.
- ✓ Port of Nqura would assist significantly with the import or export of the large sized nuclear components.
- ✓ The growth of the local nuclear industry.
- ✓ SAFARI-1 is ranked amongst the top 3 largest producers of medical radioisotopes in the world.
- ✓ Acquiring the know-how to design NNP through technology transfer and access supplier country's markets.

Economic advantages



Thank You!

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