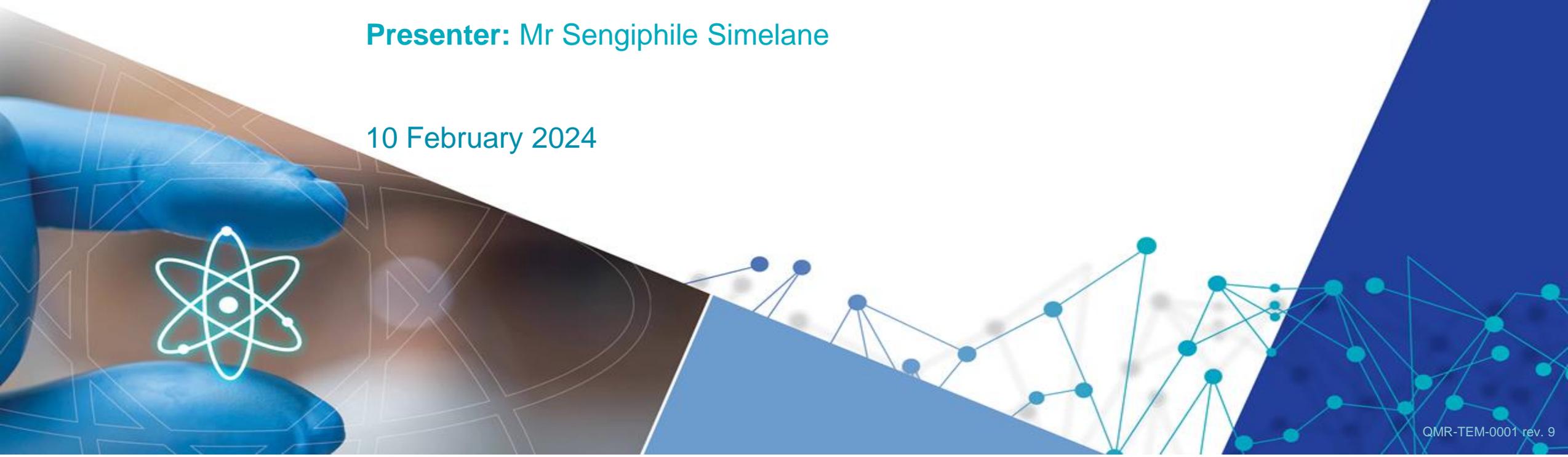


NECSA SUBMISSION: NNR Public Hearings

Presenter: Mr Sengiphile Simelane

10 February 2024



- Koeberg provides a consistent and reliable source of electricity to South Africa's grid.
- It is a base-load power plant, can operate continuously, providing a stable supply of electricity to meet the country's energy demands.



- Nuclear power enhances South Africa's energy security by providing a stable and indigenous source of electricity.
- Nuclear fuel can be domestically sourced or stored for long periods, reducing vulnerability to supply disruptions.
- South Africa currently struggling with meeting its electricity demand and the long term operation of Koeberg power station prevent further challenges.



Low Greenhouse Gas Emissions

- Nuclear power generation produces zero/low levels of greenhouse gas emissions compared to fossil fuel-based power plants.
- By relying on Koeberg for electricity generation, South Africa can reduce its carbon footprint and contribute to global efforts to combat climate change.
- It will enhance South Africa's aspiration of achieving net zero carbon emissions by 2050.
- Nuclear power is the only realistic carbon free base load power for the country. Gas is a second option, however, this is currently used for peaking plants.



Diversification of Energy Sources

- South Africa's energy mix is diversified with the inclusion of nuclear power from Koeberg.
- Diversification reduces the country's reliance on a single energy source, mitigating risks associated with fluctuations in fuel prices or availability.



- Operating and maintaining a nuclear power station like Koeberg requires specialized technical knowledge and expertise.
- The long-term operation of Koeberg allows South Africa to develop and retain these capabilities, which can be valuable for future nuclear projects and technological advancements.



Job Creation and Economic Benefits

- The operation of Koeberg supports jobs and stimulates economic activity in the surrounding area.
- It creates employment opportunities for skilled workers in various fields, including engineering, maintenance, and operations.
- Additionally, the power station contributes to the local economy through taxes, procurement, and infrastructure development.



- Overall, the long-term operation of the Koeberg Nuclear Power Station offers South Africa a range of benefits, including reliable energy supply, environmental sustainability, economic development, energy security, and technological advancement.
- Necsa supports the long term operation of Koeberg Power Station, provided it adheres to responsible practices and meets all regulatory standards.



