

Inherently Safe Nuclear Reactors for Reducing Greenhouse Emissions

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Nuclear power has outstanding attributes as a clean, safe, reliable source of electricity with very low greenhouse emissions over the full energy cycle. However, it has had two major disadvantages in the past: high capital costs and poor public perception.

A new generation of nuclear reactors addresses both of these problems. These are the small, simple, inherently safe reactors, characterised by South Africa's proposed Pebble Bed Modular Reactor. They have low capital costs and quick construction time. They are ideal for developed and developing countries alike. They can be used for electricity production, hydrogen production and water desalination.

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