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South African National Energy
Development Institute

ERRATUM NOTICE

BID1023

| Bid Description | Date of tender | Closing date |
|--|----------------------------|---|
| <p>REQUEST FOR PROPOSALS FOR CLEANER FOSSIL FUELS ROADMAP FOR SOUTH AFRICA (PHASE III)</p> <p>Erratum 1: kindly take note of the information below;</p> <ul style="list-style-type: none">➤ The closing date of the Bid has been extended to the 28th of July 2023 at 17:00.➤ Please see below, the revised scope of works. <p>For more information on the bids, kindly contact Ms Vulani Ngoveni on enquiries.procurement@sanedi.org.za</p> <p>Working hours: 08:00-17:00 Mondays to Fridays</p> | <p>23 June 2023</p> | <p>28 July 2023</p> <p>At</p> <p>17:00</p> |

Objective:

Build on the review of the current South African Fossil Fuel sector status, encompassing future plans, and produce a concise readable document that showcases a feasible techno-economic business case for Cleaner Fossil Fuel technologies in the country. This should be in alignment with most recent announcements by the State President on energy plans to address supply and demand issues in the short to medium term.

To produce a motivated recommendation of the roadmap for technological and financial interventions that would be most suited to implementation of such technologies in South Africa (this should include an easily interpretable infographic).



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Build on the outcomes of the first phase, by narrowing down on the identified technologies. Provide a comprehensive implementation plan for each feasible technology, conduct a skills requirement assessment, identify relevant legislation and soft/hardware required to enable implementation.

In essence, what could be adopted and implementable now, without changing the infrastructure of the grid

Scope of work

- Determine which existing Fossil Fuels chains in SA can implement Cleaner Fossil Fuels technologies solutions based on immediately implementable solutions. This evaluation should consider, but not be limited to, clean coal, renewable energy hybridisation, emissions abatement technologies, cleaner generation technologies, energy efficiency implementation in Fossil Fuel electricity and liquid fuel generation.
- Focal technologies determined should be assessed for immediate and cost-effective integration into existing Fossil Fuel value chains and what would be required in order to achieve this from a techno-economic perspective.
 - Any other technologies/interventions that are considered important for inclusion by the consultant should include, but not be limited to, a description of the technology and economic feasibility as well as their suitability for introduction to South Africa. This should not simply be a scan of available literature; the consultant should provide an assessment of how these technologies would be implemented within the South African energy system in its current status quo.
- The techno-economic review for this short to medium term roadmap may include:
 - User case studies
 - Quantification of economic and technically feasible displacement of Fossil Fuel impact through these interventions
 - What level of technology penetration would be needed to make a significant difference to efficiency and emissions by the implementation of Cleaner Fossil Fuels in South Africa
 - Implementation plan – this section to include desktop assessment of skills requirement, gap, duration to acquire skill and resource plan (equipment, tools, supplies, production materials and so on, depending on the nature of the technology) – this may include construction or retrofitting of existing infrastructure. Information to include capital costs and or possible/feasible integrated solutions provided by technology suppliers
- Based on the above short to medium term recommendations this report should:
 - Showcase success factors, hurdles/challenges, economics
 - Outline a feasible implementation plan including overcoming the above
 - Draw parallels with global projects that have been tested and/or terminated and why?
 - Showcase should include capital costs and funding sources that made projects success/factor and suggest how SA could overcome such challenges
- Legislation Requirements and gap analysis
 - Applicable South African legislation (including that of construction where necessary)



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- Applicable Standards/Methodologies
 - Availability of relevant legislation
 - Permitting and Licencing requirements
 - Opportunities to inform policy/legislation
- Administration, the Contractor shall:
 - Record written minutes of each Project Steering Committee (PSC) (minimum of 3)
 - Circulate all minutes within 5 working days of the meeting
 - Produce Progress Reports to be addressed at progress meetings

Payments will be made by SANEDI after acceptance by SANEDI of a Progress/Final Report and receipt of an itemised invoice and statement.

Regards,

SANEDI Procurement