



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



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Trade and Industry
REPUBLIC OF SOUTH AFRICA

Briefing Session: Impact Analysis for Geysers

Energy Efficiency Standards and Labelling

December 10, 2013

Background to the S&L Project

- The project's main objective is to reduce electricity demand and green house gas emissions attributable to use of household appliances .
- It is estimated that on completion the project will save up to 338 GWh/year, which will amount to about 4.6 Mt of direct CO₂ emissions reductions over the life time of the appliance covered and indirect CO₂ emissions reductions of 11.5 Mt CO₂
- The above objectives will be achieved by introducing energy efficient household appliances into the SA market over .

Background to the S&L Project

- For the next three years, twelve household appliances have been selected for introduction into the market. These are:
 - Air Conditioners
 - Audio & video equipment
 - Electric water heaters (geysers)
 - Electric lamps
 - Dish washers
 - Washing machines
 - Tumble dryers
 - Washer-dryer combination
 - Fridges
 - Freezers
 - Fridge-freezer combination
 - Electric ovens

Impact Analysis for EE Geysers

- Of the twelve appliances, there was no agreement on the recommended minimum energy performance level for electric geysers.
- Geyser manufacturers were not satisfied with the engineering analysis and conclusion of the Fund for Research into Industrial Development, Growth and Equity (FRIDGE) Study and this necessitates that we re-conduct the impact study.
- Electric geysers are critical to the success of the project. For example a reduction of energy performance level from the current E to a C level will contribute about 50% of the carbon reduction estimated for the project.
- As such it is important that this impact analysis is conducted and that an agreement for a higher level of energy efficiency for geysers is reached.

Scope of Work

- The service provider will work with the Lawrence Berkley National Laboratory (LBNL) and other institutions that will be considered by project management.
- LBNL and other institutions that will be involved in the project will provide guidance and expertise where necessary as per agreement with those institutions.

Scope of Work

	Output	Verifiable Indicator	Means of Verification
1.	<p>Engineering assessment</p> <ul style="list-style-type: none"> Review of technologically feasible design options/energy efficiency classes both locally and internationally Assess practicality of manufacturing in SA 	<p>Potential energy efficiency classes and rationally for selected classes</p>	<ul style="list-style-type: none"> Report with proposed classes Comments from DoE, and SANS 151 Working Group on the proposed classes

Scope of Work

	Output	Verifiable Indicator	Means of Verification
2.	<p>Economic impact assessment of proposed energy efficiency classes</p> <ul style="list-style-type: none">Assess impacts on manufacturersAssess impact on consumers	<p>Impact analysis of proposed energy efficiency classes</p>	<ul style="list-style-type: none">Impact analyses reportComments on report from local manufacturers and sample of consumers

Scope of Work

	Output	Verifiable Indicator	Means of Verification
3.	<p>Setting of minimum energy performance standard</p> <ul style="list-style-type: none"> Consolidate comments on proposed energy classes Set final minimum energy performance standard for geysers 	<p>Recommendation for a minimum energy performance class for geysers</p>	<ul style="list-style-type: none"> Report with recommendation Rationale for selecting energy class

Scope of Work

	Output	Verifiable Indicator	Means of Verification
4.	<p>Stakeholder engagement</p> <ul style="list-style-type: none">▪ Involve key stakeholder in all steps above▪ Meeting with local geyser manufacturers	Meetings held and proceedings	<ul style="list-style-type: none">▪ Number of meetings▪ List of attendees▪ Comments from participants

Duration and BBBEE Requirements

- The duration of the project is twenty two (22) weeks effective from the date a contract is signed with the successful service provider.
- Provisions of the Preferential Procurement Policy Framework Act (PPPFA) of 2011 and its regulation will apply in terms of awarding points.
- Bidders are required to submit original and valid B-BBEE Status Level Verification Certificates or certified copies thereof together with their bids, to substantiate their B-BBEE rating claims.
- Bidders who do not submit their B-BBEE status level verification certificates or are non-compliant contributors to B-BBEE will not qualify for preference points for B-BBEE.

Project Plan/Proposal

- The proposal should, in addition to price, include intermediate and final outputs and identified timeframes/milestones.
- Proposed Methodology.
- Management of the project.
- The successful service provider may be required to present their Project Execution Plan.



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Thank You