



energy

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Energy
REPUBLIC OF SOUTH AFRICA



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Trade and Industry
REPUBLIC OF SOUTH AFRICA

Briefing Session: Baseline Determination

Energy Efficiency Standards and Labelling

December 11, 2013

Background to the S&L Project

- The S&L project is executed by the Department of Energy and the Department of Trade and Industry through the United Nations Development Programme (UNDP) funded by the Global Environment Facility (GEF).
- This project is executed as part of the implementation of the National Energy Efficiency Strategy which sets out a 12% energy intensity reduction by 2015.
- This overall target is based on the following disaggregation of sub-sectors: Residential (10%), Mining and Industry (15%), Power Generation (9%), and Commercial and Public Buildings (10%), and Transport (10%).
- The S&L project is expected to contribute towards the 10% of the Residential sector.

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

Objectives for Baseline Determination

- The indicator of success for the S&L project will be an increase in the number of energy efficient household appliances used.
- It is thus critical that the quantity and level of energy efficiency of products that are currently sold into the SA market is determined as a baseline and reference to measure the impact of the project.
- As such the sales record on the type and quantity of listed appliances currently in the market, the most recent household energy consumption surveys and the estimated current greenhouse gas emissions attributable to appliances in the market must be determined to inform the project baseline.

Scope of Work

	Output	Verifiable Indicator	Means of Verification
1.	<p>A database of sales, make and energy efficiency classes of listed products in the SA market</p> <p>This output will include the following data:</p> <ul style="list-style-type: none"> Market penetration: Sales data from manufacturers and trade associations Energy efficiency levels of products: Engineering specifications, manufacturer data Greenhouse Gas emissions factors 	<p>A comprehensive database discussed with stakeholders</p>	<ul style="list-style-type: none"> Meetings with stakeholders Comments from key stakeholders

Scope of Work

	Output	Verifiable Indicator	Means of Verification
2.	Determining potential reduction in energy demand and carbon dioxide emissions based on proposed minimum performance standards	Percentage reduction in energy demand and amount of carbon emissions to be reduced on project completion	<ul style="list-style-type: none"> Comments on the proposed demand reduction from Eskom and DoE Comments on projected carbon reduction from DoE and DEA

Scope of Work

	Output	Verifiable Indicator	Means of Verification
3.	Populate baseline data onto a monitoring system	Baseline data populated onto the monitoring system to test capability of the system to report on future sales data.	<ul style="list-style-type: none"> Comments on system output/reports from DoE.
4.	Engage stakeholders on key outputs	Workshop presentation of database, projected reduction in energy demand and amount of carbon emissions to be reduced to stakeholders	<ul style="list-style-type: none"> Broader stakeholder comments on the baseline

Duration and BBBEE Requirements

- The duration of the project is nineteen (19) 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