

CAPACITY BUILDING PROJECT IN ENERGY EFFICIENCY AND RENEWABLE ENERGY (CaBEERE)

1. Background

The CaBEERE Project is a joint project between the Governments of South Africa and Denmark and is aimed at building capacity in energy efficiency and renewable energy.

The overall objective of the project is: *“an increased use of Renewable Energy and Energy Efficiency throughout South Africa to maximize the energy sectors’ contribution towards sustainable development”*.

The immediate objective is: *“DME and relevant stakeholders are resourced and capacitated to formulate and facilitate implementation of strategies and legislation promoting Energy Efficiency at the demand side and Renewable Energy in both rural and urban areas”*.

Details of the CaBEERE project can be found on the DME web-page under energy efficiency.

The Project is financed by the Danish Government with a contribution of DKK 27 million (Danish Kroner) and implemented by the DME together with COWI Consulting Engineers and Planners A/S, Denmark (visit their website at www.cowi.dk).

2. Project Management

The DME Chief Director, Kevin Nassiep, is the Project Director. Mr Nassiep is supported by the Chief Technical Adviser from COWI, Helene Rask Grøn, as Project Manager.

3. Project Steering Committee

The project is governed by a Project Steering Committee. The committee members are senior managers from the DME and a senior representative from the Royal Danish Embassy.

4. Advisers and Consultants

The project is scheduled for four and a half years (starting date was August 2001) and includes the deployment of an International Project Manager, Helene Rask Grøn, in the DME, as well as two local advisers; namely Charles Murove (EE Commercial/Public Buildings) and Dave Mercer (EE Industry Sector). Assistance is also provided by number of International and Local short-term advisers.

5. Activities

As from August 2001 CaBEERE has implemented a wide range of activities. An important focus has been to support the formulation of the now newly approved national strategy for Energy Efficiency as well as the white paper and a subsequent national strategy for Renewable Energy.

Secondly, the project has supported for formulation of sector plans and thirdly, the Project has assisted the DME to kick start the implementation of the strategies through detailed project activities. Some of the those project activities are listed below.

5.1 Appliance Labelling

In terms of Appliance Labelling the CaBEERE project undertook a study in 2002 to assess the scope for introducing appliance labeling in South Africa and provide recommendations as to a possible implementation. Based on this work a process of consultation with all relevant stakeholders has been organised mainly through the SABS processes for standard setting. But also the DME has organised a number of stakeholder processes. In 2004 the DME concluded that South Africa will introduce Appliance Labelling and it was decided to opt for the European label and standards in order to minimise costs to the industry for retesting and to facilitate easy trade also out of South Africa.

Lately the CaBEERE project has organised training in energy efficiency testing for the test houses, SABS and other key role players. This training took place in Denmark in April 2005. The Project has also supported the planning of the launch and the national implementation of the labelling scheme. Lastly, the project supports the DME to establish the necessary capacity both in terms of staff and in terms of funding.

5.2. Other CaBEERE initiatives

Energy Efficiency:

- Energy Efficiency Household Savings Tips (completed 2002)
- Baseline Study: Energy Efficiency (completed 2002)
- Energy Efficiency: Audit of Public Buildings - Department of Minerals and Energy and National Energy Regulator (completed 2002)
- Energy Efficiency: Appliance Labeling Study (completed 2002)
- Energy Efficiency Strategy Plan: Formulation Process (completed 2002)
- Draft Energy Efficiency Strategy (completed 2003)
- Energy Savings Projections (completed 2003)
- Building Energy Audit Training (completed 2004)
- Industrial Energy Management (in progress)
- Industrial Norms and Standards (in progress)
- Energy and Demand Efficiency in Commercial Buildings (in progress)
- Energy Efficiency Monitoring of Targets (in progress)
- Roll-out of Energy Management to National Government Buildings (in progress)

Renewable Energy:

- Baseline Study: Hydro Power (completed 2002)
- Baseline Study: Solar Energy (completed 2002)
- Baseline Study: Wind Energy Technology (completed 2003)
- Green Power Brochure on Business Opportunities in South Africa for Renewable Energy Independent Power Producers 2003 (available from the DME Library)
- Technical Standards and Certification for Renewable Technologies (completed 2003)
- Economic and Financial Calculations and Modeling for the Renewable Energy Strategy Formulation (completed 2004)
- Formulation of Market Rules for Renewable Energy (completed 2004)
- Macro-Economic Computer Modeling and Training (completed 2004)
- Landfill Gas Resources for Power Generation (completed 2004)
- Assessment of Commercially Exploitable Biomass Resources (completed 2004)
- Darling National Demonstration wind Farm: Environmental Impact Assessment (completed 2004)
- Formulation of the Wind Monitoring Program in South Africa (complete)
- Renewable Energy Subsidy Office (in progress)
- Renewable Energy Monitoring of Targets (in progress)
- Renewable Energy Independent Power Producers Information (in progress)
- Renewable Energy Independent Power Producers Regulation Implementation (in progress)

Capacity Building:

- Energy Efficiency Study Tour to Denmark (2002)
- Renewable Energy Study Tour to Denmark (2002)
- Approach to Capacity Assessment in the Energy Efficiency and Renewable group of the DME, selected Stakeholders and the Methodology of planning Capacity Building within the scope of CaBEERE (completed 2003)
- Capacity Analysis of Internal and External Stakeholders of the Energy Efficiency Unit in the DME (completed 2003)
- Revision of the DME Performance Management Development System - PMDS (completed 2003)
- Implementation of the PMDS (completed 2003)
- Approach to Capacity Assessment in Renewable Energy in the DME and selected Stakeholders, and the method to plan Capacity Building within the scope of CaBEERE (completed 2004)
- Institutional Capacity of the Renewable Energy function within the DME and External Stakeholders (completed 2004)
- Finalising the National Human Resources 10 Year Master Plan for the DME (completed 2004)

Information Participation:

- Formulation of an Information Strategy (completed 2002)

6. For further information please contact:

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Project Reports can be downloaded from the Department of Minerals and Energy website: www.dme.gov.za under Energy Efficiency.