



Global Funding and Technical Resources to support African Energy and Climate Projects

The South African German Energy Programme (SAGEN), implemented by GIZ

Marlett Balmer

Marlett.balmer@giz.de





Background information on GIZ

- As a government-owned corporation, GIZ carries out sustainable development projects worldwide for the German Federal Government and other public and private-sector clients
- The organisation supports political, economic, ecological and social development worldwide
- GIZ operates in more than 130 countries and employs more than 17,000 staff members (with a 70 – 30% split between national and international personnel)
- GIZ commenced activities in South Africa in 1994 and since then, allocated 550 million euro to the bilateral cooperation with South Africa
- GIZ South Africa employs around 250 staff members of which 60% is South African
- The main focus of our work in South Africa is on Governance and Administration, HIV/AIDS, **Energy and Climate**





Why bilateral co-operation on energy and climate?

- SA faces the triple challenge of addressing energy supply constraints, energy related environmental impacts and economic growth challenges, including job creation
- Renewable energy (RE) and energy efficiency (EE) offers solutions to the challenge
- Germany is world leader in the exploitation of RE and EE
- Bilateral Negotiations in 2008: Agreement to establish a new Focal Area on Energy & Climate in the SA-German bilateral cooperation





SAGEN: Programme principles, objective and duration

Important principles

- SAGEN focuses on large scale, grid-connected renewable energy projects
- Energy efficiency projects are focussed on supporting national EE incentive programmes and initiatives
- Ownership of partner institutions required but without overburdening partners
- Seeking synergies with other initiatives
- Efficiency and Quality
- Transparency regarding the GIZ conditions and expectations

Programme Objective:

Investments in RE and
EE have increased

Budget and Duration

- Planned until 2020
- Phase 1 from October 2011 to September 2014
- Budget for phase 1: 12 million euro



South African – German Energy Programme (SAGEN)

Component 1: Renewable Energy

Objective: The conditions for investments in RE have improved

Sub-Component 1.1: Enhancement of institutional and regulatory capacities to promote RE investment

Sub-Component 1.2: Enhancement of conditions and capacities for grid and system integration of RE

Sub-Component 1.3: Strengthening of technical expertise in wind and solar energy

Component 2: Energy Efficiency

Objective: The conditions for investments in EE have improved

Sub-Component 2.1: Institutional capacity development for EE promotion

Sub-Component 2.2: Support to national EE incentive programmes

Sub-Component 2.3: Strengthening of an EE service market

Sub-Component 2.4: Support to selected technology demonstration projects



SAGEN Component 1: Promotion of Renewable Energy

Institutional capacity for RE investment

- IPP Unit for improved sector coordination, policy design and implementation
- Support services for the IPP sector (e.g. Help Desk)
- Local government support via SALGA
- Support to the proposed RE Council

Grid and system integration of RE

- Capacity within DoE to coordinate energy and grid planning
- Grid access (grid code, trainings for Eskom & municipalities)
- System operation (operation code, system balancing/forecasting)
- Strategic grid and system planning

Technical expertise for wind and solar

- SANEDI/RECORD: Institutional capacity development
- Wind: Support the establishment of the South African Wind Energy Centre (focus on vocational and engineer training)
- Solar: Support the establishment of the Solar Technology Development and Innovation Centre (R&D, local IP, training)





Summary of programme results to date

Renewable Energy

- Establishment of IPP unit supported through concept development and provision of international experts
- Results from the performance assessment of the REI4P tendering process will assist in streamlining the future bidding process
- Feasibility of grid integration of RE demonstrated through various grid and system integration studies conducted
- Support to the establishment of the South African Wind Energy Centre provided (needs assessment, concept, curriculum)

Energy Efficiency

- Policy mapping study launched as basis for National Energy Efficiency Action Plan
- Support to the design and implementation of various EE programmes (SWH SOP, Tax Incentive Schemes, EPC, GIS manager, etc.)
- Energy auditors trained; training carried-on by Eskom



Contact:

marlett.balmer@giz.de

www.record.org.za

www.giz.de