

## How SAGEN works

SAGEN is focused on improving framework conditions for renewables and energy efficiency and assisting in their implementation at national and municipal level.

SAGEN provides policy advice, technical support and practical training to government and businesses. Support is always based on partner needs and implemented in close cooperation with SAGEN's South African partners.

## SAGEN's partners

SAGEN works in cooperation with the Department of Energy as its political partner. Other implementation partners include the South African Association of Local Governance (SALGA) and the national power utility Eskom.



SAGEN is implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) on behalf of and with funding from the German Federal Ministry for Economic Cooperation and Development (BMZ) as part of the bilateral cooperation between South Africa and Germany.

GIZ is a government-owned entity which assists the German government to achieve its objectives in the field of international cooperation and sustainable development.



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# Renewable Energy and Energy Efficiency for a Greener South Africa



Since 2011, SAGEN has been supporting South African partners from government and the private sector to improve framework conditions for renewable energy and energy efficiency.

SAGEN provides international knowledge, expertise and experience to help create an environment in which renewable energy and energy efficiency can flourish.

The SAGEN programme is currently in its third phase:

- Phase 1: 2011–2014
- Phase 2: 2015–2017
- Phase 3: 2018–2020



# RENEWABLE ENERGY



## Large-scale grid-connected renewable energy

- Technical support on grid integration of variable renewables, including
  - Grid connection code
  - System stability
  - Ancillary services
  - Network pricing
  - Quality of supply practices
  - Grid protection standard
- Provision of inputs on selected topics related to the long-term structural change in the energy sector (e.g. job creation, skills development, sector transformation)



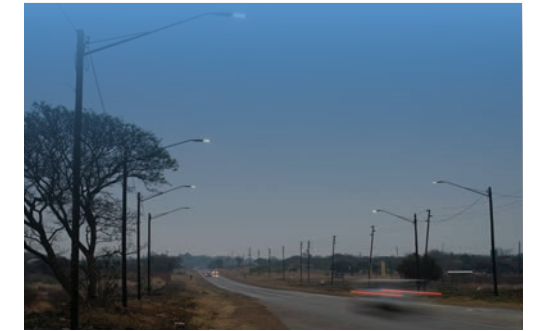
## Small-scale embedded generation (SSEG)

- Support to the development of framework conditions, e.g. technical standards, regulatory rules, national SSEG register
- Assistance to municipalities to implement the national SSEG framework, e.g. harmonisation of approval and registration processes, in-depth support for selected municipalities, grid impact assessment methodology
- Dialogue on a sustainable future business approach for municipal utilities
- Support to the PV GreenCard as a quality assurance mechanism for decentralised photovoltaic systems



## Energy-management systems in municipalities

- Support to municipalities in implementing energy management as a systematic approach to identify and implement energy efficiency opportunities
- Support to learning and exchange platforms for sharing best-practices between municipalities
- Piloting of energy management systems in up to 4 municipalities, based on local needs and capacities
- Support to the preparation of municipal energy efficiency action plans
- Provision of training and awareness creation



## Implement energy-efficiency measures

- Support on selected energy efficiency technologies along the value chain (project identification, project preparation, clarification of financing, implementation support)
- Development of capacities and provision of training on selected energy efficiency technologies
- Assistance in the establishment of support instruments, e.g. the national register for Energy Service Companies ("ESCo Register"), technical manuals and training handbooks, guidelines
- Support to the implementation of incentive mechanisms that promote energy efficiency, like the municipal energy efficiency programme EEDSM or the tax incentive scheme 12L



# ENERGY EFFICIENCY