



South African - German Energy Programme (SAGEN) Support to South African Municipalities



SAGEN / SOUTH AFRICAN-GERMAN
ENERGY PROGRAMME



with co-funding from
Swiss State Secretariat
for Economic Affairs SECO

May 2018

In cooperation with:





Background information on GIZ

- As a governmental organisation, GIZ implements sustainable development projects worldwide on behalf of the German government
- GIZ operates in more than 130 countries and employs some 20,000 staff members (with a 70 - 30% split between national and international personnel)
- In South Africa, GIZ first started in 1994 and has since implemented projects with a total volume of more than EUR 550 million as part of the bilateral cooperation between Germany and South Africa
- The main focus of our work in South Africa is Governance and Public Administration, HIV/AIDS, **Energy and Climate**



In cooperation with:

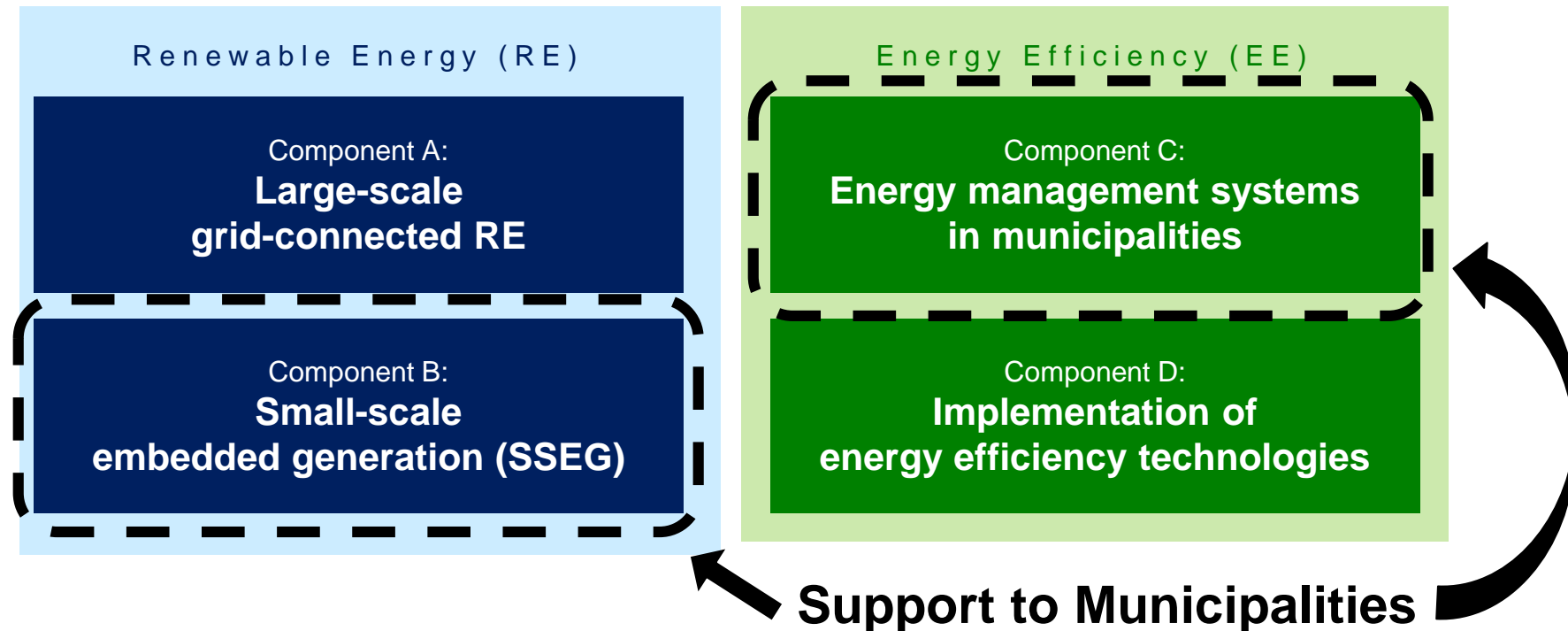




Structure of SAGEN-3 (2018-2020)

Objective:

National and local stakeholders use improved framework conditions for RE and EE





Partners in the implementation of SAGEN



IPP Office





OVERARCHING

Collaboration with SALGA:

- Seconded advisor (Ryan) on Sustainable Energy
- Assistance in SALGA activities and facilitate capacity building programmes



Collaboration with Eastern Cape DEDEAT:

- Seconded advisor based in East London (Sander)
- Direct support to municipalities in Eastern Cape



Collaboration with Nelson Mandela Bay:

- Seconded advisors in Electricity Department (David and Sibulele)
- Ad-hoc support (e.g. solar panel demo for training centre)
- SWH pilot (200 systems)





Component B: Small Scale Embedded Generation

PV GreenCard
@PVGreenCard

Folgen

Our first PV GreenCard has been issued to this Bright House Solar residential rooftop PV system in Constantia, Cape Town #solar #SouthAfrica



04:00 - 13. Okt. 2017

13 Retweets 29 „Gefällt mir“-Angaben

City of Cape Town, Chris Velland, Roger Lilley und 7 weitere

3 13 29



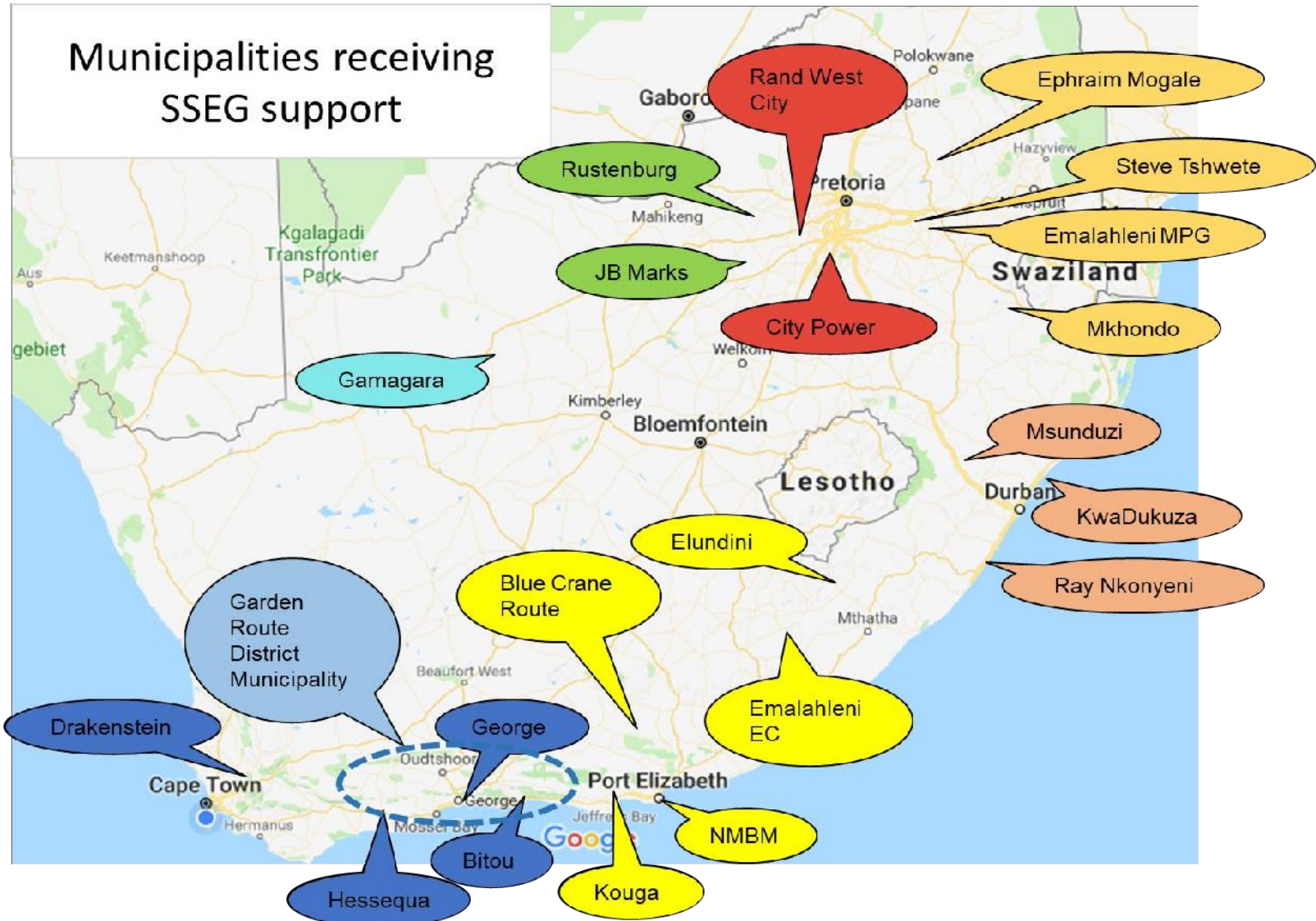
Components A and B: Renewable energy activities under SAGEN-3

Grid and system integration of variable RE	Implementation of SSEG at distribution level	Electricity sector regulatory framework development & reform	Structural change in the energy sector
<ul style="list-style-type: none"> • Grid access (generator grid code) • Transmission system planning and operations (system stability, ancillary services, network pricing, ...) • Distribution system planning and operations (DNOP standard, Quality of Supply practices, grid protection standard, battery storage, long-term planning, ...) • Helpdesk 	<ul style="list-style-type: none"> • AMEU SSEG guidelines • Introduction of application and registration processes in 25 municipalities • National SSEG registration process (in cooperation with the GIZ-CSP programme) • Promotion of PV Green Card Programme • Municipal procurement of SSEG assets 	<ul style="list-style-type: none"> • Cost of Supply regulation • Wheeling and grid access regulation • Municipal energy planning 	<ul style="list-style-type: none"> • Just coal transition • Socio-economic transformation

Main partners: DoE, Eskom, SALGA, AMEU, municipalities, NERSA, Industry associations

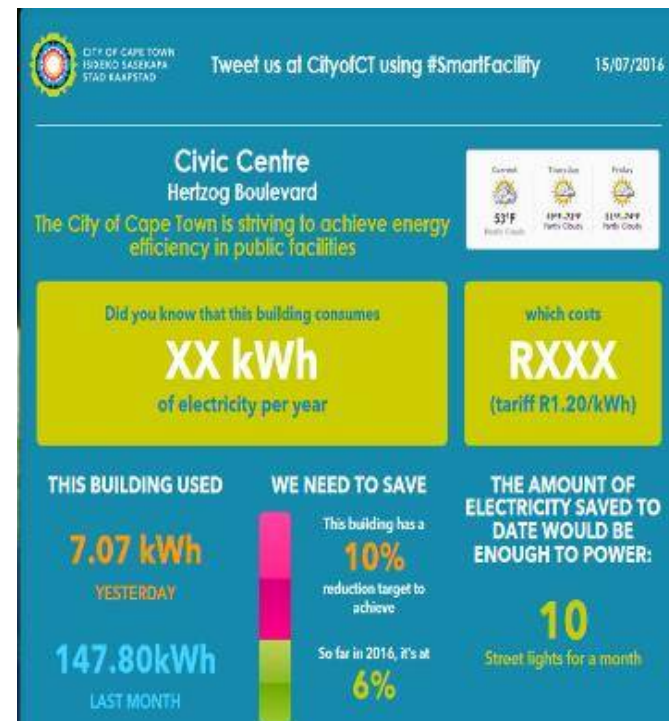


Municipalities receiving SSEG support





Component C: Municipal Energy Management Systems



Electricity saving campaign in City of Cape Town

Component C: Municipal Energy Management Systems (MEMS)

Learning by exchange for “innovator municipalities”

- Support to **learning and exchange platforms** for networking and sharing best-practice between municipalities on MEMS
- Assist selected municipalities in updating their **energy action plans**
- **Provide expertise for specific topics** (on a needs basis)

Piloting MEMS in “aspirant municipalities”

- Assist in the **implementation of an adapted MEMS** in 4 - 6 selected municipalities (based on the specific capacities)
- Share experience through **learning networks**
- Support the selected municipalities in compiling **municipal energy efficiency action plans** (MEEAP)

Creating awareness in “beginner municipalities”

- Development of **material for training and awareness raising** for MEMS
- **Training courses** on MEMS
- Organisation of **learning excursions**

Partners: SALGA, AMEU, municipalities, NCPC, DoE, NT, COGTA



Support Tools and Knowledge Sharing Products



Sustainable Energy in South African Municipalities

List of Guidelines, Tools and Case Studies
As of February 2018

In Partnership With



Urban Energy Support Platform

cityenergy.org.za

Small-Scale Embedded Generation Municipal Resource Portal

sseg.org.za



Relevant Support Documents

- The electricity distribution in Germany and South Africa- A review of policy and regulations::

<https://sagen.org.za/publications/79-the-electricity-distribution-in-germany-and-south-africa-a-review-of-policy-and-regulations/file>

- Sustainable Energy & Climate Change in Municipal IDPS 2017-2018:

<https://sagen.org.za/publications/80-sustainable-energy-climate-change-in-municipal-idps-2017-2018/file>

- Renewable Energy Scenarios for Municipalities:

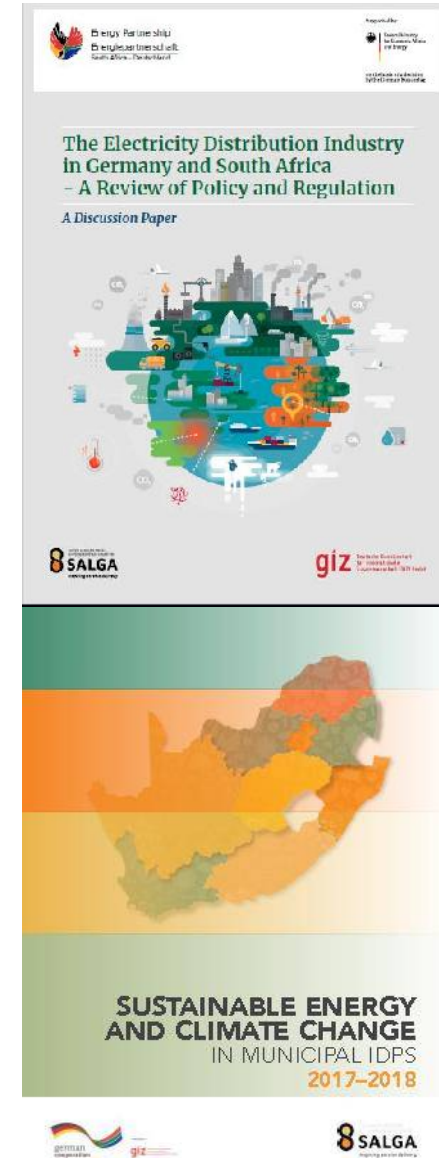
<http://www.cityenergy.org.za/getfile.php?id=452&category=5>

- Opportunities in Energy Efficiency for Municipalities:

http://www.cityenergy.org.za/uploads/resource_454.pdf

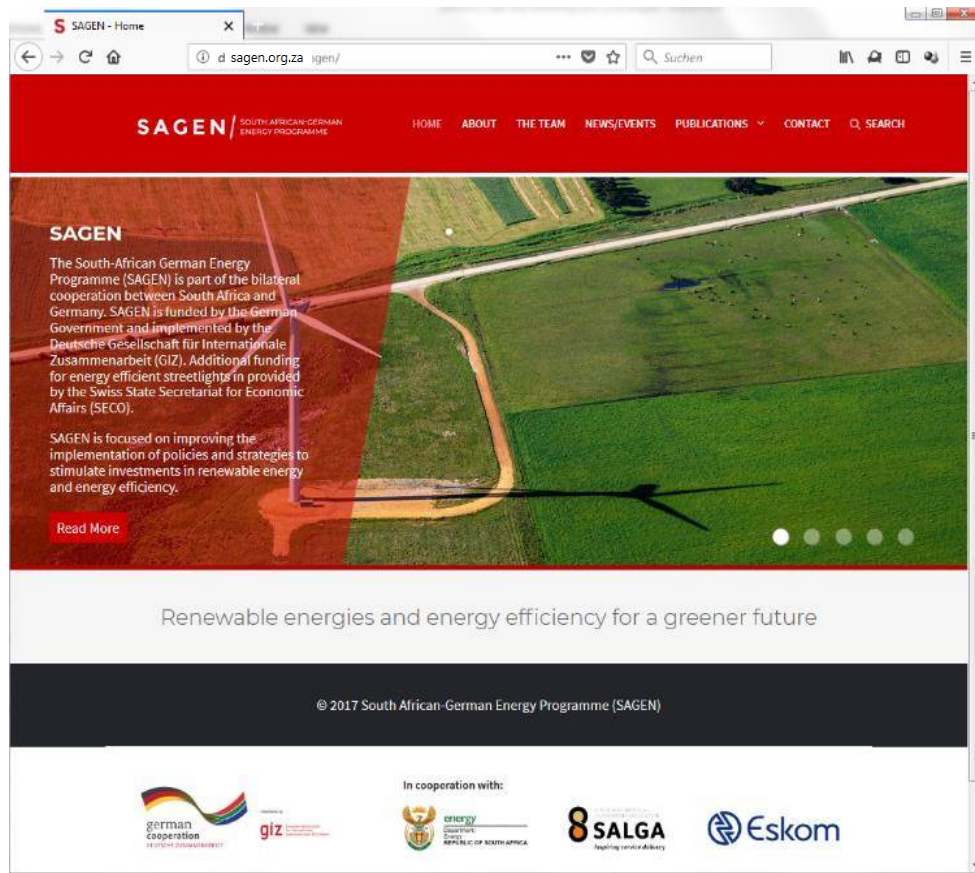
- Status of Small Scale Embedded Generation in South African Municipalities:

<https://www.sseg.org.za/wp-content/uploads/2019/03/Status-of-Small-Scale-Embedded-Generation-in-Municipalities-October-2018.pdf>





Visit us... www.sagen.org.za



Or follow us on Twitter:
@SAGEN_Programme

Ryan Roberts
Rroberts@salga.org.za