



Low Emissions Development Program

QUARTERLY REPORT

SOUTH AFRICA LOW EMISSIONS DEVELOPMENT (SA-LED)
PROGRAM

I APRIL – 30 JUNE 2017



June 30, 2017

This publication was produced for review by the United States Agency for International Development. It was prepared by Chemonics International Inc.



USAID | **SOUTH AFRICA**
FROM THE AMERICAN PEOPLE

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Contract No. AID-674-C-15-00005

DISCLAIMER

The authors' views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States government.

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ACRONYMS

AD	Anaerobic Digestion
AB	Agama Biogas
CD	Capacity Development
CHDM	Chris Hani District Municipality
CLEER	Clean Energy Emission Reduction
CoCT	City of Cape Town
CoP	Chief of Party
CoT	City of Tshwane
DBSA	Development Bank of South Africa
DEA	Department of Environmental Affairs
DFI	Development Finance Institution
DM	District Municipality
DNA	DNA Economics
DST	Department of Science and Technology
EEDSM	Energy Efficiency Demand Side Management
EE	Energy Efficiency
GDED	Gauteng Provincial Department of Economic Development
GHG	Greenhouse Gas
GoSA	Government of South Africa
ICF	ICF International, Inc.
ICLEI	Local Governments for Sustainability (International Council for Local Environmental Initiatives)
IDC	Industrial Development Corporation
IDP	Integrated Development Plan
IDZ	Industrial Development Zone
LED	Low Emissions Development
LEDS	Low Emission Development Strategies
LES	Linkd Environmental Services
LM	Local Municipality
M&E	Monitoring and Evaluation
MOU	Memorandum of Understanding
MRV	Measuring, Reporting, and Verification
NCCRWP	National Climate Change Response White Paper

NGO	Non-Governmental Organization
NMBMM	Nelson Mandela Bay Metropolitan Municipality
PMO	Project Management Office
PPA	Purchase Power Agreement
PPP	Public Private Partnership
PV	Photo Voltaic
RE	Renewable Energy
RFP	Request for Proposal
SA	South Africa
SACN	South African Cities Network
SA-LED	South Africa Low Emissions Development Program
SALGA	South Africa Local Government Association
SDM	Sedibeng District Municipality
SEU	Significant Energy Users
SoW	Scope of Work
SSEG	Small-Scale Embedded Generation
TA	Technical Assistance
TGH	The Green House
ToC	Theory of Change
UMDM	Umgungundlovu District Municipality
Y1	Project Year 1: 18 May 2015 – 30 September 2016
Y2	Project Year 2: 01 October 2016 – 30 September 2017

HIGHLIGHTS FOR THE QUARTER



SA-LED

HIGHLIGHTS

QUARTER THREE
APRIL-JUNE 2017

TEAM GROWTH



- SA-LED intern started 03 May
- Polokwane Energy Efficiency Demand Side Management Coordinator started 09 May
- Capacity Building Coordinator started 11 June

CAPACITY DEVELOPMENT

- Pilot Organisational Capacity Assessment Tool at Chris Hani District Municipality 16-17 May
- Second Organisational Capacity Assessment at Polokwane Local Municipality 29 June
- Cambridge Institute for Sustainability Leadership 11-14 June
- WWF-SA Environmental Leaders Intern Workshops
 - Cape Town 13-15 June
 - Durban 21-23 June



STAKEHOLDER ENGAGEMENT



- Third Advisory Committee Meeting of SA-LED 09 May
- Program update Event 01 June
- Mpumalanga Climate Change Forum Meeting 08-09 June

STUDY TOURS

- EcoDistricts Incubator, Portland, USA 17 -21 April
- Biogas for Vehicular-Use, Various US Cities 24 April - 02 May



INTRODUCTION

GOAL

The South Africa Low Emissions Development (SA-LED) Program is a \$14.9 million, five-year USAID-funded initiative aimed at supporting the Government of South Africa to achieve its green growth objectives.

OBJECTIVES

SA-LED is working to strengthen the capacity of the public sector to plan, finance, implement, and report on low emissions development projects and to accelerate the adoption of low emissions technologies in both the public and private sectors. A particular focus is to increase the flow of investments into LED projects and to increase the size and quality of the LED project pipeline.

SECTORS

To support the implementation of South Africa's Climate Change Response Policy, SA-LED focuses on near-term priority flagship sectors: Renewable Energy, Energy Efficiency and Energy Demand Management, Waste Management, and Transport.

PARTNERS

The USAID SA-LED Program was co-created in conjunction with the South African Department of Environmental Affairs (DEA) and the Department of Science and Technology (DST).

South Africa is embarking on an ambitious effort to use Low Emissions Development (LED) as a means to reduce its substantial greenhouse gas (GHG) levels in a sustainable and equitable way. To do so will require transformational change at multiple levels and sectors, including mitigating key capacity bottlenecks and coordinating with a diverse set of actors who contribute to LED project development.

While South Africa's 2011 National Climate Change Response White Paper presents ambitious cross-sectoral mitigation goals, significant obstacles remain in translating its vision into actual LED projects. Many South African municipalities not only lack the management skills to move projects through the pipeline, but also a clear structure for coordinating between the municipal and the national department level has not yet been articulated; these institutions do not yet have an understanding of the operational and planning implications of provisions of the White Paper and have had issues translating national DEA recommendations into actionable projects. South African investors also do not have a sophisticated understanding of LED technology or the legal and regulatory framework surrounding green investment and therefore perceive such investments as risky. Addressing these challenges requires translating LED concepts into replicable projects, proving their success, and scaling up.

The USAID South Africa Low Emissions Development Program's goal is to support the primary objectives of emissions reductions, LED capacity development, and LED market development at subnational level through a technical assistance framework which consists of five broad categories of interventions.

SA-LED is now in a position where we have firmly established our role and value-add in the sector in South Africa. The five categories of technical assistance interventions described below illustrate SA-LED's value-add to the LED sector in South Africa. Communications and Outreach is a crosscutting function that supports the distribution of lessons learned, training manual development, and knowledge management across each of the five intervention areas.



RESEARCH AND ANALYSIS

In FY16, SA-LED, working with consortium partners, DNA Economics, The Greenhouse, Linkd Environmental Services and ICF, finalized a series of research studies on the LED sector which identified key blockages, mapped out available funding mechanisms, and assessed capacity needs to inform forward programming and improve LED outcomes. This research and analysis focuses particularly on demonstrating the socio-economic benefits of low emission development initiatives. SA-LED will continue with such research and analysis as the need arrives. SA-LED has now gained traction in the project development and capacity building work streams. Learning emerging from work completed is being captured during the Work Planning process to ensure adaptability. As additional blockages, opportunities and challenges are identified this learning is circled back to the research to confirm and/ or expand the findings of the research.



LED PROJECT DEVELOPMENT

The SA-LED team continues to support municipal LED initiatives across each of the four flagship sectors in unblocking and progressing projects that face challenges and to provide technical assistance that will help bring projects to financial close or RFP award. This technical assistance support includes: conducting feasibility assessments; mobilizing finance; evaluating LED technology options; and providing legal, financial, and engineering technical assistance to LED projects.



CAPACITY DEVELOPMENT

Based on one of the research assessments on LED skills and capacity within municipalities that was completed at the end of FY16, SA-LED is embedding experts and conducting formal training with municipal partners in addition to implementing projects together in a learning-by-doing LED project implementation approach.



ENABLING ENVIRONMENT

SA-LED is helping to create an enabling environment that institutionally supports LED efforts across local, provincial, and national government. Based on the results of the research and analysis focus of the program in FY16, activities in this area will increase in FY17 to enhance existing municipal networks, government initiatives, and industry association efforts. SA-LED will further provide technical and financial support to industry and government in setting new standards for emerging technologies, supporting the development of a more cost-effective and simpler tool for reporting greenhouse gas emissions from LED projects, and in supporting the development of new LED funds and tools to streamline LED project development.

The SA-LED's Advisory Committee, which is composed of senior officials of key national government departments, have played a key role in shaping the enabling environment activities during FY17. The third meeting of this committee took place during May 2017 and important information regarding national efforts to integrate LED across the various levels of government were highlighted at this meeting.



MEASURING, REPORTING AND VERIFICATION OF GHG EMISSIONS

SA-LED is supporting municipalities to perform project-level greenhouse gas emissions analysis, using USAID's CLEER Tools developed by consortium partner ICF International where applicable, and to articulate the co-benefits of LED projects. The program is working with the DEA on the development of the department's Monitoring and Evaluation (M&E) Sectoral Guidelines for the Energy, Industrial Processes and Product Use (IPPU), Transportation, Waste and the Agriculture, Forestry and Land Use (AFOLU) sectors. In addition, the program will develop MRV reports and support local emissions GHG reporting.

Project Initiatives Highlights

Blue Karoo Trust Fish Waste as Potential Biogas

- Support to procurement process ensuring 3 valid quotations received.
- Valid quotations were received.
- Approval of the preferred service provider will proceed at next PSC meeting in Graaf Reinet on 13 July.
- Co-benefit analysis and site visit will be conducted in July.

Eden District Municipality

- The SoW for the expert conducting the waste characterization study has been finalized and agreed to.
- Expectation for work to begin next quarter.

eThekweni Solar PV on Water Reservoirs

- Municipal MoU Signed.
- Appointment of independent consultant to proceed urgently.
- Inception meeting to proceed in July.

Cacadu Development Agency

- Appointment of a energy advisor is underway.
- Technical and advisory support for greening of the Mohair value chain has been finalized.
- SoW and contracting process are being finalized.

DEA Web Portal

- The Department of Environmental Affairs identified a need to develop a web information portal to disseminate information to municipalities.
- SA-LED will support the development of the web information portal.
- The web portal will go a long way in creating an enabling environment for municipalities to implement climate change programs.

ELIDZ Low Emissions Roadmap

- GHG Inventory for Buffalo City Metropolitan Municipality (BCMM) is 80% complete.
- Progress to be presented to East London Industrial Development Zone (ELIDZ) and stakeholders on 26 July.
- LED Roadmap development inception meeting to be held on 27 July in East London.

!Kheis Off-Grid Technology Feasibility

- MoU signed.
- Finalizing appointment of water engineer for municipal project and technical support.

Ekhurhuleni Metropolitan Municipality

- 2 MW rooftop PV RFP issued with SA-LED technical assistance.

SUMMARY OF KEY LED PROJECTS SUPPORTED IN QUARTER THREE



1	EThekweni Metropolitan Municipality
2	Blue Karoo Aquaculture Project, Eastern Cape
3	Ekurhuleni Metropolitan Municipality
4	Blue Crane Route Municipality

Figure 1: Map of South Africa indicating location of LED projects with progress made in Quarter 3.

LED PROJECT DEVELOPMENT

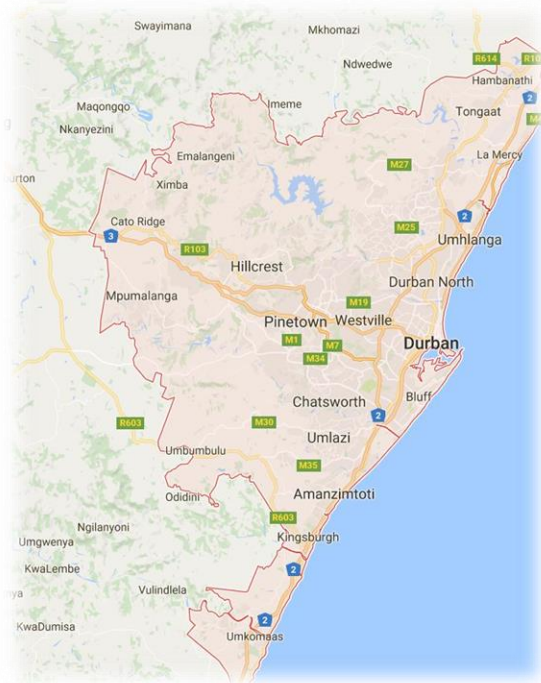
Over the quarter, the SA-LED team continued to provide technical support to low emissions development projects and to undertake the procurement of specialists to support the technical and financial implementation of projects. The aim of supporting the projects outlined below is to gain a representative experience providing technical assistance to municipalities across municipal type (metro, district and local municipality) and across climate change flagship sector (renewable energy, energy efficiency, waste management, and sustainable transport). Figure 3 in the summary of key LED developments provides a geographical representation of where technical assistance is currently being provided. The key progress for the quarter is outlined below.

ETHEKWINI METROPOLITAN MUNICIPALITY

Biogas to Renewable Natural Gas (RNG)

As a part of our continued support for vehicular biogas use in EThekwini, SA-LED has commissioned a study to assist the municipality in making a decision regarding the development of a RNG to vehicular use project.

This study will involve using life cycle methodologies to holistically account for GHG emissions and costs throughout the biogas production and vehicle use process, including all related supply-chain activities where data are available. The initial work involves assessing the GHG mitigation potential and economic value of biogas production for use in vehicle fleets. Next steps on this project will be testing of the landfill biogas quality and quantity.



BLUE KAROO AQUACULTURE PROJECT



SA-LED's technical assistance informed the design of the Waste Water Repair System (WWRS) and an anaerobic digester (AD) pilot system for the Fish Farm. Based on expert inputs from SA-LED biogas and waste water consultants, the final design elements were specified for a Request for Proposals for installation of the pilot WWRS, and AD. The WWRS will utilize algal ponds and pre and post settlers which will filter out the fish waste solids and allow for the scaling up of the facility to its full capacity. An operational WWRS will ensure continued environmental compliance at the facility and water use reduction and recycling.

SA-LED support will offset capital budget from the provincial (Local Rural Economic Development - LRED) grant to the project of approximately ZAR 500,000. The LRED Project Steering Committee will award contracts for the installation of the WWRS and AD according

to the RfP prepared with SA-LED support. Three quotations for the installation were received by the 30th of June, the closing date for submission of quotations.

Following the award of the contract for installation of the pilot system, SA-LED’s support will continue through a 9-month monitoring and evaluation phase of pilot operation and subsequent proposal design of a full-scale waste water and biogas solution.

EKURHULENI METROPOLITAN MUNICIPALITY (EMM) 2 MW ROOFTOP PV TENDER

During the quarter, Ekurhuleni issued a tender for a rooftop photo voltaic (PV) project using the best practice RFP tool and guidelines which was developed with SA-LED’s support. The tender was adjudicated with a tool developed by the Council for Scientific and Industrial Research (CSIR), and the levelized cost of electricity (LCOE) adjudication model. SA-LED facilitated the training by CSIR for EMM’s Energy Department officials in order to use the tool to select the developer that provided the most guaranteed energy over the twenty-year agreement at the lowest price. The project will generate 2 MW ¹of clean energy and reduce 49,000 tons of GHGs by 2030 (see figure 1).

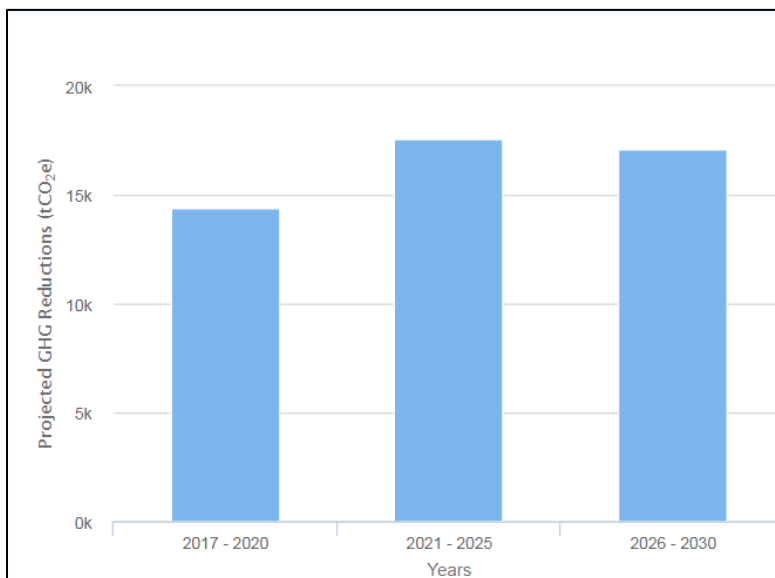


Figure 2: Graph revealing projections of GHG reductions from 2017 till 2030.

¹ The MW are reported in the PMP table in [Annex B](#).

CACADU DEVELOPMENT AGENCY – MOHAIR VALUE CHAIN

The Cacadu Development Agency (CDA) requested SA-LED's technical assistance for their work in Blue Crane Route and Makana municipalities. SA-LED will, among others, support the CDA to facilitate certification of greening the mohair value chain for South Africa.

Specific activities include:


1. Identify the GHG impacts of the mohair value chain.
2. Unpack the mohair value chain for South Africa.
3. Ensure integration with other mohair initiatives and include all relevant stakeholders.
4. Support on-farm training of emerging farmers and link them to commercial farmers.



In this quarter, SA-LED had an inception meeting with the CDA and key stakeholders. During this visit to Somerset East, the team also visited three emerging farmers in order to start preparation for GHG data collection. Going forward in Q4, SA-LED consortium partner, The Greenhouse will provide expert inputs on the GHG component of the project. Although it is estimated that the work will be completed by December 2017, this work is ongoing and also captured in the Y3 Work Plan.

IDENTIFICATION OF POTENTIAL LED INITIATIVES FOR TECHNICAL ASSISTANCE

During the Quarter, SA-LED continued the process of further screening potential LED initiatives according to the SA-LED Selection Criteria which were developed during FY16.



A total of 7 initiatives were screened and 5 of these were selected to be supported.

The initiatives that were selected to be supported are:

1. Biogas for schools' project with the Eastern Cape DEDEAT
2. OR Tambo District Municipality Waste Characterization study
3. Mogale City municipal support
4. Mpumalanga provincial support
5. Western Cape provincial project development support

These initiatives will be further fleshed out during follow up meetings with the institutions to be supported. The aim of these meetings is to: (i) gain insight into the development context of the municipality and/ or province, (ii) unpack these development issues in terms of service delivery, (iii) analyze to what extent an LED solution would address some of these issues, and (iv) prioritize and phase out the different priorities offered by the institution.

SA-LED is also actively pursuing further LED initiatives in order to develop a robust pipeline of initiatives to support. There was some activity related to the initiatives listed below although no quantifiable work was done on these initiatives during the quarter.

!KHEIS LOCAL MUNICIPALITY

An MoU was signed with !Kheis municipality in June 2017. A senior water engineer will begin supporting the municipal services manager in the 4th Quarter of FY17 according to the SoW agreed with !Kheis officials.

EDEN DISTRICT MUNICIPALITY WASTE MANAGEMENT

Inception meetings for the Eden District waste characterization study were held in May 2017. These included the District waste and services planning managers as well as representatives of the existing multi-sector waste management forum. A senior waste management consultant has been appointed and has started work with the district municipality to identify and characterize potential waste resources and prepare a synopsis of existing and potential initiatives and projects.

GOVAN MBEKI LOCAL MUNICIPALITY

An MoU with Govan Mbeki Local Municipality was drafted and submitted to the municipality. An Organizational Capacity Assessment will be conducted with the municipality on 27th and 28th of July. This assessment will inform the kind of support that SA-LED will provide to the municipality.

CAPACITY DEVELOPMENT

In FY17 SA-LED's activities around capacity development have increased and we have also started assessing how recipients of capacity development activities apply the knowledge and skills that they have acquired from activities targeted at closing capacity gaps.

ECODISTRICT INCUBATOR - PORTLAND, USA, 17 - 21 APRIL 2017

SA-LED developed a programmatic approach to supporting green developments in South Africa by collaborating with the Green Building Council of South Africa (GBCSA) and EcoDistricts.org of the USA. From 17 to 21 of April, two SA-LED team members went to Portland, USA with three of the 14 pilot green communities, that were part of the SA-LED - supported initiative to develop a tool for rating green precincts, to attend EcoDistrict.org's annual



Photo 1: Group discussions taking place at the EcoDistricts Incubator.

three-day intensive incubator. Two of these communities were from Johannesburg - the City Hall/Metro Centre precinct and the Braamfontein West precinct, and one from Cape Town, Old Mutual's Affordable Housing Mupine Development. The purpose of the incubator is to empower urban development project teams to achieve EcoDistrict.org's global performance standard.

The three teams from South Africa indicated that they found the event very useful, both in terms of current green communities and for other projects in their pipelines. They have all extended requests to SA-LED for technical assistance on very specific LED aspects of their green communities. The Metro Centre project, for example, requested SA-LED's technical inputs to potentially install a Natural Organic Recycling Machine (NORM) that will sustainably process the building's waste water (all water).



Photo 2: [REDACTED], CEO of EcoDistricts giving a presentation

The developments that were chosen to participate in the EcoDistricts Incubator were selected for four reasons. Firstly, they are critical to inner-city revitalization in two of the largest cities in the country. Secondly, they are high priority developments of their municipalities. Thirdly, the developers have additional developments in progress that they are planning with their

respective municipal partner in these two municipalities as part of a larger urban regeneration effort that presents a unique opportunity for replicating the lessons learned from the incubator. Finally, the developers and municipalities expressed commitment to the EcoDistricts principles.

SA-LED, EcoDistricts, and GBCSA are currently discussing which local organization will host EcoDistricts to promote the EcoDistricts concept, and where in South Africa the EcoDistricts model should be piloted.

The team also went on a day trip to Seattle where they met with three local municipal representatives. It was a great learning experience on how the EcoDistricts model affected Seattle's city planning and it is this same change in planning processes that SA-LED would like South African municipalities to implement at a local level.

VEHICLE BIOGAS STUDY TOUR - VARIOUS US CITIES, 24 APRIL - 02 MAY 2017

EThekweni Metropolitan Municipality's Durban Solid Waste Management Unit (DSW) requested SA-LED to support a study tour to a select number of facilities in the US from 23 to 28 of April, where biogas production for vehicular use is happening on-site. The municipality is interested in developing a landfill gas (LFG)-to-renewable natural gas (RNG) plant and to use the fuel to power its refuse removal trucks. EThekweni currently operates two LFG-to-electricity plants in Marrarianhill and Bisasar. The City is looking to expand its gas extraction program at its Buffelsdraai landfill, but as the area is sparsely populated, and thus electricity generation is not an option at this time as grid connection costs mean that option is not economically feasible. DSW is therefore strongly considering cleaning the landfill gas at this site and utilizing the RNG in its refuse collection vehicles. The study tour was targeted to facilitate capacity building around using biogas to power vehicles.

The study tour aimed at exposing the City officials to existing technologies and applications to enable them to make an informed investment decision. From literature, there seems to be more than one gas cleaning technology as well as vehicle filling methods (stations). The participants were able to visit facilities using different technologies. The officials were able to get insight into the pros and cons of the different gas cleaning and filling methods. The team visited the following facilities:



Photo 3: Biofuel pumping station at St. Landry Parish, Louisiana.

“I found the study tour useful for strengthening my capacity exposing me to the challenges faced by the project developers and technical aspects were continually reinforced leaving me empowered and more confident.” [REDACTED]

[REDACTED] Senior Manager:
Engineering, eThekweni
Municipality

- St. Landry Parish, Washington, LA
- River Birch Landfill, Avondale, LA
- Altamont Landfill and Resource Recovery Facility, Alameda, CA
- CleanWorld Gasifier Project, Sacramento, CA
- Blue Line Transfer, South San Francisco, CA
- San Mateo Wastewater Treatment Plant, San Mateo, CA

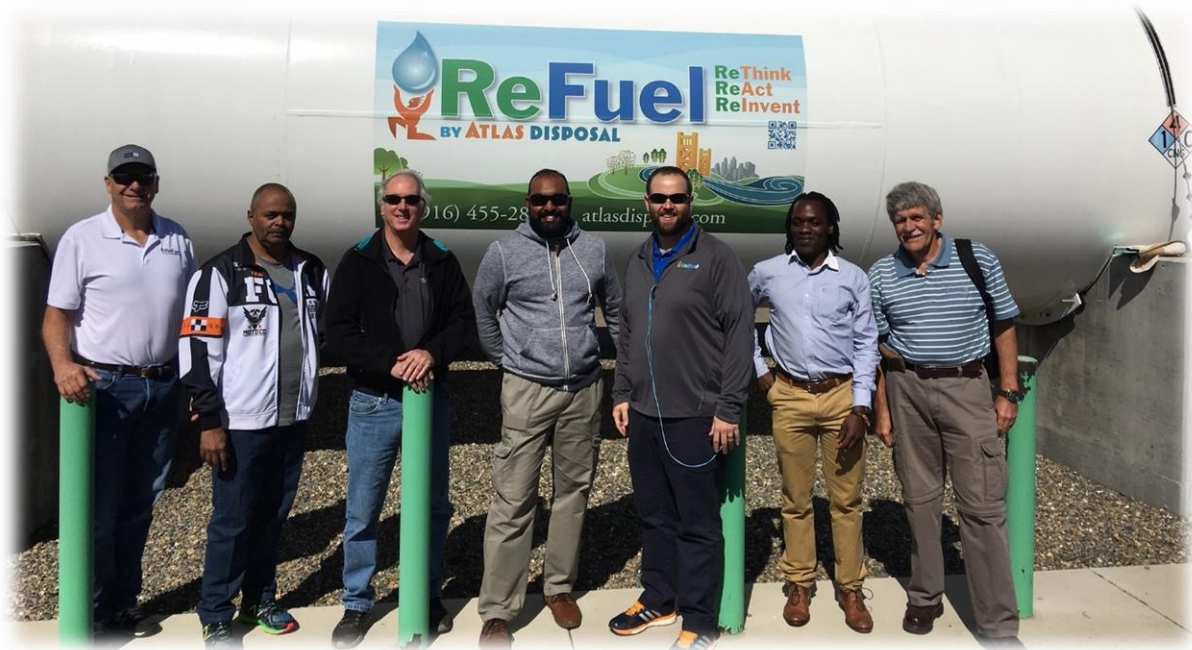


Photo 4: South Africa Delegation at the Atlas ReFuel Plant, Sacramento.

“The methodology of cleaning methane and converting it into biofuel was the information I found most useful. Also knowing the usage of CNG as fuel for vehicles is the same as diesel was very interesting.”

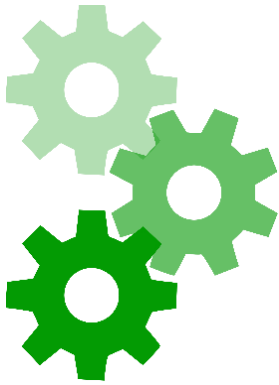
Head: Cleaning and Solid Waste, eThekweni Municipality

This trip exposed participants to a successful LFG-to-RNG project design and therefore DSW officials will now be able to elaborate the lessons learned with respect to the different technologies’ relevance for the South African context and create practical visions and innovative ideas for future project implementation. The next steps will include support for the writing of Request for Proposals (RFPs) or Expressions of Interest (EOIs) for a vehicular biogas project and testing of the landfill gas.

Following this trip, SA-LED is considering organizing a conference that would bring together South African municipalities, project developers, companies, and North American municipalities that have used state-of-the-art technologies for biogas upgrading for vehicular use. The conference would provide an opportunity for discussion on government strategies and policies that could support waste-to-energy projects as well as networking among government and business leaders/entrepreneurs. Such a conference would also build a foundation for establishing partnerships and a waste-to-energy industry in South Africa. There is a potential for SA-LED to collaborate with the Southern African Biogas Industry Association (SABIA) on co-hosting this conference or integrating the biogas for vehicular use stream into SABIA’s annual conference. We have now begun the planning process for this conference and the dates have been confirmed for 1-3 November 2017.

POLOKWANE EMBEDDED EXPERT

■■■■■■■■■■■■■■■■■■■■ is working directly for Polokwane Local Municipality on secondment, performing a variety of duties related to the coordination and promotion of energy efficiency and demand side management programs of the municipality. She is currently helping to implement and coordinate a R6 million energy efficiency program the municipality is running for this financial year. She will also work on identifying, recommending, and promoting other energy efficiency, sustainability initiatives and practices throughout the municipality, involving appropriate staff, departments and agencies in key strategies and goals.



CHRIS HANI DISTRICT MUNICIPALITY ORGANIZATIONAL CAPACITY ASSESSMENT

SA-LED conducted the first pilot of the Organizational Capacity Assessment at Chris Hani District Municipality (CHDM) on 16-17 May. Since CHDM was SA-LED's first municipal engagement in the Eastern Cape Province via the Department of Economic Development, Environmental Affairs and Tourism (DEDEAT), they were chosen to be the first municipality in which the assessment would be applied.

The assessment determined key areas of success, but more importantly, weak areas where the municipality is not achieving their climate change goals and where SA-LED could provide technical assistance. Since SA-LED is embedding an expert in the municipality for a year, the results from this workshop will also inform the scope of work for the candidate.

The tool used in these assessments is the organizational capacity assessment tool (OCAT) tool which focusses on 6 key areas within a municipality. These include governance, policies and service delivery, strategy, programs, financial management, and internal functions.



Photo 5: Municipal officials at the Chris Hani District Municipality participating in the Organizational Capacity Assessment Tool.

Overall Findings of the OCA

Overall, the municipality had an average score of 52%. This score rates the municipality as “Partly”, i.e. the municipality has some capacity for climate change, however, this capacity is very limited. Thematic Area 3: Strategy and Resources scored the highest (65%) followed by Thematic Area 4: Program development, information and data analysis monitoring and evaluation and reporting (62%). The municipality has a draft Climate Change Strategy, resulting in a high score allocated to this thematic area.

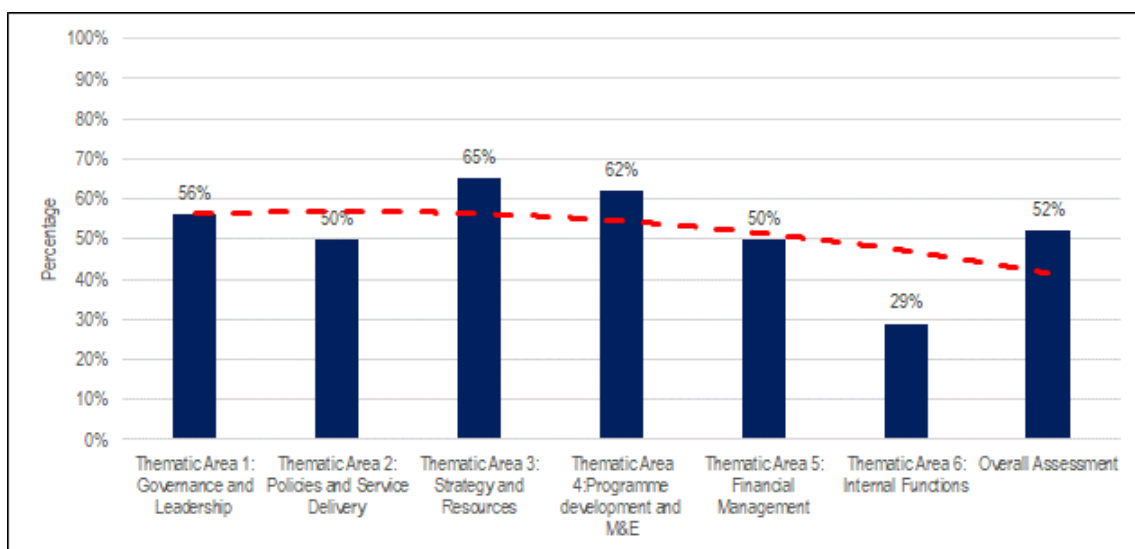


Figure 3: Overall Score for Chris Hani District Municipality

Thematic Area 6 scored the lowest (29%) due to the lack of sharing of information and the silo approach to addressing climate change issues across the municipality. During the OCA

workshop, it became evident that the draft climate change strategy was known to few which was further exacerbated by limited consultations held during the strategy development process. The other thematic areas are scored a 50% or slightly above indicating that the capacity for climate change is very limited.

POLOKWANE LOCAL MUNICIPALITY ORGANIZATIONAL CAPACITY ASSESSMENT

SA-LED conducted the second Organizational Capacity Assessment with Polokwane Municipality on 29 June 2017. The assessment focuses on the important organizational dimensions of a municipality and identifies areas of strength and required improvement, facilitates the implementation of a guided capacity building process and helps establish a baseline from which the municipality can measure progress.

The tool used in the assessment focuses on 6 key areas within a municipality. These include governance, policies and service delivery, strategy, programs, financial management and internal functions. When the tool is presented to a municipality, participants are divided into groups and all participate in the assessment. A plenary session is then facilitated where a consensus on scoring and action plans is reached. Once all the collected data is analyzed, the information is verified against evidence provided by the municipality. This then informs a total score and an analytical report is generated.

Attendance by municipal officials was less than anticipated, however, there were still enough participants for two groups to go through the pre-populated tool. The environmental department is busy with the process to pass a climate change strategy in council and have also proposed the establishment of an environmental coordinating committee. A few possible projects were mentioned: the anaerobic digestion of food waste for energy production; waste separation at source; technical assistance for solar PV projects and a Non-Motorized Transport (NMT) training and recreational park.

SA-LED will continue rolling out these assessments to various municipalities, the next one scheduled is for Govan Mbeki Local Municipality on 27-28 July.

Overall Findings of the OCA

Polokwane municipality had an overall score of 44%. The 44% rates the municipality in the category of “Partly” which means that the municipality has limited capacity for climate change. The Thematic Area 4: Financial Management scored the highest (73%) while the Thematic Area 3: Strategy and Resources scored the lowest with 24% followed closely by Thematic Area 6: Internal Functions that scored 28%. The remaining three Thematic Areas (Governance and Leadership, Policies and Service Delivery, Program Development and M&E) all scored between 44% - 46% which points to the need for more development support in these areas.

According to the results in Figure 4, the municipality’s strength appears to be in their financial management ability. The low scores found in Thematic Area 3 and Thematic Area 6 could be as a result of the fragmented communication and collaboration approach between units in the municipality (silo approach). This issue of lack of communication and collaborative planning in addressing climate change issues was raised in the OCA workshop with municipal officials as a great concern. Many of the participating officials in the OCA workshop requested more information about how they could contribute as well as encourage other units in the municipality to participate in the climate change initiatives.

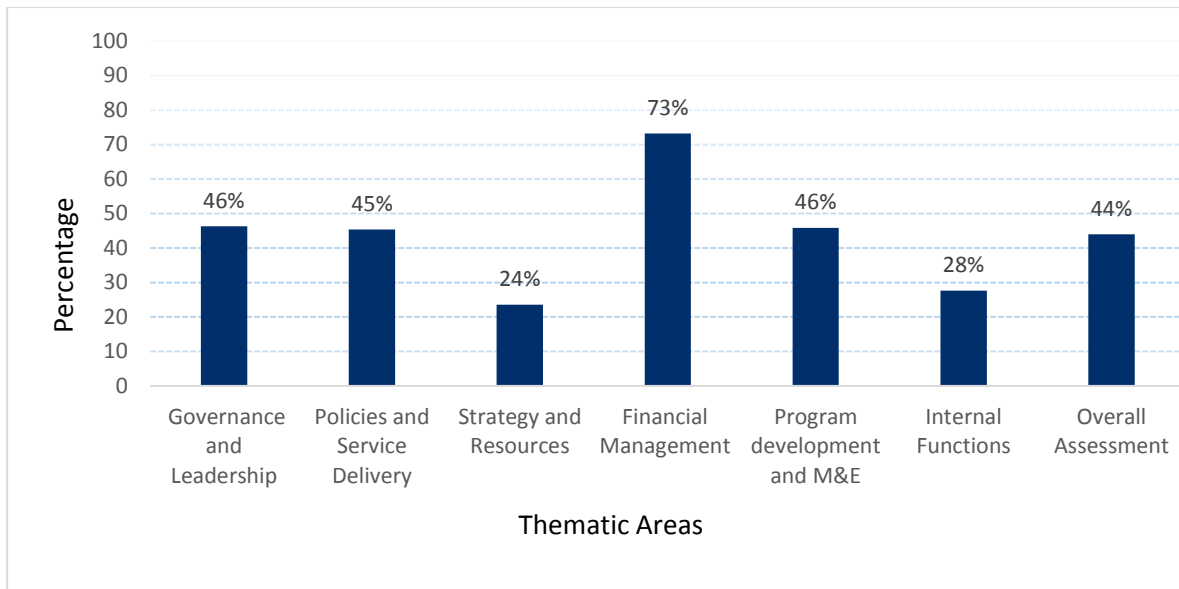
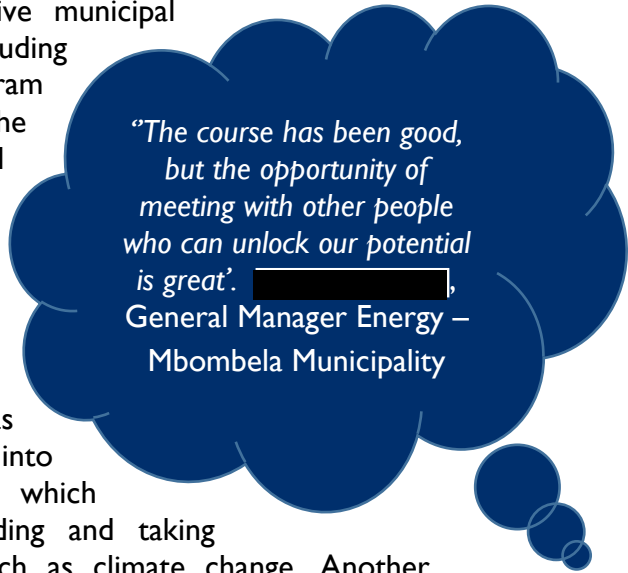


Figure 4: Overall Score for Polokwane Local Municipality

CAMBRIDGE INSTITUTE FOR SUSTAINABILITY LEADERSHIP EXECUTIVE PROGRAM

SA-LED funded the participation of five municipal delegates, from three municipalities, including the SA-LED M&E specialist, in this program which took place from 11-14 June. The seminar started off by giving a global context of current trends and challenges which combined social, economic, environmental, governance and political issues. Discussions included the growing population, need for more food, urbanization, climate change impacts, water shortage and energy. This was followed by deep dive discussions into understanding and navigating systems which provided a framework for understanding and taking

decisions in complex circumstances such as climate change. Another presentation took a deeper look into cities – providing the main challenges for Africa’s urban landscape. This set the scene for discussions on what this means for governance/decision making, finance and new approaches to design and construction.



“The course has been good, but the opportunity of meeting with other people who can unlock our potential is great.” [Redacted],
General Manager Energy – Mbombela Municipality

The participatory seminar was structured in such a way that there were morning and afternoon focus groups meetings where delegates were offered an opportunity to reflect openly about their challenges, their views, and share and learn from each other. This also allowed for peer and faculty coaching which helped with co-creating solutions for the challenges discussed on the first day.

“I wish to truly convey my heartfelt enthusiasm and appreciation for the opportunity to participate in the course. It was a real eye opener for me in terms of sustainability approach in both the organizational and individual level. The course facilitators shared their cutting-edge experience with us and we emerged well equipped to make a meaningful impact in the world through our respective areas of work.”

██████████ Director Strategic Services -
Chris Hani District Municipality

As part of measuring impact of its training and capacity building activities, SA-LED will do quarterly follow up visits or interviews to check on how the sponsored delegates are applying the knowledge and skills acquired at the seminar.

“The course helped me unlearn the generic way of thinking/strategizing and learn to think all operations around sustainability and SDGs. I should change the way I view things (operations). It helped me integrate my thoughts to SDGs. I have stopped viewing sustainable development/operation as separate from the normal operations. From now on, I will integrate SDGs and sustainable development into all my operations. Integrate SDGs and sustainability into my operations thought process.” ██████████, Technical Director – Govan Mbeki Municipality



Photo 6: Five municipal delegates who are all directors of their respective departments from three municipalities, including SA-LED M&E specialist attending the Cambridge Institute for Sustainability Leadership Executive Program.

WWF-SA ENVIRONMENTAL LEADERS GRADUATE INTERNSHIP PROGRAM

WWF-SA's Environmental Leaders Program provides opportunities for graduates in conservation; environmental management and sustainability practices to access practical work integrated and learning experiences that increase the employability of these young environmental leaders. To this end, WWF-SA has sourced funds from the Department of Higher Education and Training's (DHET): National Skills Fund and the WWF Nedbank GreenTrust to facilitate purpose driven placement of eligible graduates as Interns with various participating agencies. SA-LED has partnered with WWF-SA to host an intern from the Program. Our Intern, [REDACTED], a chemical engineer, joined the SA-LED office on 2 May 2017. [REDACTED] will be working with the team on a variety of initiatives.

In order to support the development of young graduates in the green economy, SA-LED partnered with WWF-SA to host two Interns workshops that are an integral part of the Internship Program.

WWF INTERNS WORKSHOP: 13-15 JUNE (CAPE TOWN) AND 21-23 JUNE (DURBAN)

SA-LED funded two intern workshops that form part of the Internship Program. These workshops focused on career planning and development, exploring the environment sector and its career opportunities, key workplace-based competences (such as time management, relationships and communication in the workplace, engaging constructively in performance appraisals and feedback, amongst others), holistic wellness (including financial management, health management, managing workplace-based stress and anxiety, amongst others) recognizing individual leadership capability and preparing for taking the next step

into the job market (including, exploring job possibilities, creating and effective curriculum vitae, preparing for and attending an interview, receiving and responding to the job offer).

Each workshop was run over three days, at an overnight venue, to encourage interns to socially interact with each other and establish and build the peer networks that would support them through their career progression. Guest lecturers were invited to make inputs into the workshop program, for example, a financial advisor offering advice on financial management, a health advisor offering advice on work life balance, amongst others.

Below is a link on our resident intern, Anna Ras, on her experience thus far in the internship program.

http://www.wwf.org.za/what_we_do/environmental_leaders/?21163/Finding-emissions-solutions-for-a-better-future-An-interns-journey



Photo 7: WWF Environmental leaders at the workshop held in Pringle Bay, Cape Town.

ENABLING ENVIRONMENT



The SA-LED Program recognizes that in order to play a catalytic role in scaling the uptake of LED projects in South Africa, considerable work must be done across legal, financial, policy, and regulatory boundaries.

Numerous government departments, existing networks, donor agencies, development finance institutions, and private industry have done excellent work for many years to support the same goals. Instead of reinventing the wheel, SA-LED is working to leverage these existing efforts.

During the quarter under review several meetings and collaborative efforts were undertaken to consolidate working relationships and support with key stakeholders.

FINANCIAL ADVISORY SUPPORT TO THE INDUSTRIAL DEVELOPMENT CORPORATION

SA-LED provided financial advisory technical assistance during the quarter to meet the following joint objectives of USAID and the Industrial Development Corporation

- Enable long-term project finance lending to stimulate micro-scale renewable energy and energy efficiency projects.
- Encourage use of innovative financial mechanisms (wheeling, subnational PPA's with municipalities, energy performance contracts).
- Provide debt to small developers (without large balance sheets) using technologies with no credit history in South Africa.
- Provide access to finance to developers with municipal power off-takers.

The specific financial advisory technical assistance work provided to the IDC included creating de-risking solutions to provide project finance debt to an RE developer with a twenty-year PowerX power purchase agreement. PowerX is the only entity, at this time, in South Africa with a NERSA license to buy and sell green energy anywhere on the Eskom grid.

SA-LED developed a clearinghouse structure with cash cascades, reserve accounts, and covenants providing IDC with additional credit enhancement and making PowerX an insolvency remote vehicle. This, in essence ensures that the IDC would continue to receive its debt payments under a PPA signed with PowerX even if PowerX were no longer a viable concern. SA-LED also explored de-risking projects by creating standby use of systems agreements with municipal utilities, standby PPA's directly with the prepaid meter customer of the municipality, and sought legal opinion on the ability to transfer generation licenses. Lastly, SA-LED is working with the IDC to ensure that the appropriate risk mitigation tools are available for projects including:



- Contractor, operator, and supplier performance guarantees
- Long-term lease agreement clauses acceptable to building owners, landlords, and developers
- Insurance products and potential rand hedging products
- Power purchase agreements with minimum availability requirements

ATTENDANCE AT CONFERENCES/MEETINGS

THIRD ADVISORY COMMITTEE MEETING OF USAID SA-LED

This meeting was attended by 4 constituted members of the Advisory Committee. In preparation for the meeting, the members of the committee were provided with the minutes from the second meeting of the advisory committee, the annual report and an agenda. The value of the inter-departmental forum raises various opportunities to further align our program targets with National development targets on the green economy.

It was recommended that there be some coordination with Department of Transport and Department of Environmental Affairs on the Green Transport Strategy before arranging the vehicular biogas transport conference scheduled for the end of year.

The lively discussion on LED projects revealed potential cross-funding and duplication of resources that again highlighted the value of the committee with regards to alignment of initiatives.



Photo 8: SA-LED team at Chris Hani District Municipality

SA-LED PROGRAM UPDATE EVENT

Since the launch of SA-LED, the program has not had a chance to gather all stakeholder partners such as governmental officials, other donor agencies and private sector representatives in one room and have a networking session. Not only is this vital for members of the team to meet officials from partnering municipalities, other partners get to have an update on the progress of the program and explore areas of collaboration.

The event was held on 01 June and the objective was to be casual and informal yet informative and engaging where participants could chat and network over tapas style snacks. A short address was made by [REDACTED], Director for the Regional, Education, Environment and Democracy (REED) office from USAID as well as [REDACTED], the SA-LED Chief of Party, highlighting key successes of the program thus far. Four of the SA-LED staff also presented their areas of expertise, namely project development, capacity building, financing and monitoring and evaluation.

The event was a success and we hope to host future program updates on an annual basis so that there is an opportunity for all relevant stakeholders to meet and hear the latest highlights of the program.



Photo 9: Stakeholders present at the Program Update Event

MPUMALANGA PROVINCIAL CLIMATE CHANGE FORUM

SA-LED was invited to attend and make a presentation at the round table discussion and Mpumalanga Climate Change Forum Meeting which took place on 08-09 June 2017. The objectives of the provincial meeting were:

- To review, refine and finalize provincial Desired Adaptation Outcomes
- To discuss data and information needed to monitor progress towards understanding each Provincial Desired Adaptation Outcomes

The main challenge found in most municipalities in the province is around the integration of climate change into policy development. The Mpumalanga Climate Change Forum aims to coordinate climate change activities across the province and efforts are being made to integrate climate change into schools' curriculum in the province. SALGA is also assisting Mpumalanga municipalities with developing climate change response plans.

Following the forum meeting, SA-LED held an internal project selection meeting to discuss project support to the Mpumalanga Provincial Government. A decision was made to support the provincial government and a follow up meeting will be held to confirm the nature of the support that can be provided.

TECHNICAL ASSISTANCE IN RELATION TO DEVELOPMENT OF STRATEGIES AND POLICIES FOR LOW EMISSIONS DEVELOPMENT

Moving forward, SA-LED will report on technical assistance in relation to the development of strategies and policies for low emissions development. This work is linked to SA-LED indicator 11.

An initiative that relates to this indicator is SA-LED's support to DEA on the development of sector guidelines for monitoring GHG emissions. The Department of Environmental Affairs has developed updated versions of the Monitoring and Evaluation sector guidelines for the Energy, Industrial Processes and Product Use (IPPU), Transportation, Waste sectors, and has developed a draft version for the Agriculture, Forestry and Other Land Use (AFOLU) sector. In response to DEA's request that SA-LED provide review comments on the guidelines, consortium partners ICF and The Green House provided consolidated SA-LED comments to DEA in late 2016. Due to staff turnover and a shortage of DEA staff, DEA has requested further SA-LED support to revise the GHG mitigation portions of the sector guidelines.



The other current initiative that covers this type of technical assistance is the Buffalo City Metropolitan Municipality, Amahlati Local Municipality, East London Industrial Development Zone (ELIDZ) LED Roadmap and GHG Inventory. The GHG inventory for ELIDZ is nearing completion and the inventory will be presented in July. The work to develop the LED Roadmap will commence in July. In this quarter, the SA-LED GHG consultant gathered data for the GHG inventory that will form the basis of the Renewable Energy Roadmap. This work entailed massive interaction/ interviews and discussions with the BCMM and ELIDZ stakeholders, including tenants in the ELIDZ, industries, different municipal departments and private sector stakeholders.

GREENHOUSE GAS MEASURING, REPORTING AND VERIFICATION

SA-LED is currently providing support to DEA's Monitoring and Evaluation Unit in developing acceptable sectoral guidelines to monitor and evaluate the GHG emission reduction benefits of potential LED mitigation options. SA-LED through its consortium partners, ICF and TGH completed a review of the updated versions of the Monitoring and Evaluation sector guidelines for the Energy, IPPU, Transportation, Waste and AFOLU sectors.



DEA has requested further SA-LED support with re-writing these M&E guidelines. The initial intention was that DEA would re-write the guidelines in-house with ICF's support. However, given the capacity constraints within the department DEA requested that SA-

LED consider supporting the full re-writing of the guidelines by ICF. SA-LED, ICF and DEA finalized the SoW for this support in April and the work commenced during Quarter 3.

CHALLENGES, CONSTRAINTS AND LESSONS LEARNED

Staff turnover at the DEA has been a major challenge regarding the development of the M&E Sectoral Guidelines. Also, the diminished staff compliment in the department means that there are a few people capable of filling in gaps left by the departing staff.

Delays in confirming SoWs with municipal officials is another challenge. This is mainly due to staff having a lot of work to do as part of their day-to-day operations to the extent that LED initiatives are seen as additional work.

Lesson learned from the City of Cape Town project is that it is important to get buy-in from the executive management of various departments SA-LED works with before we commence with our technical assistance. If this buy-in is not achieved, the cooperation from the affected departments is not optimal and this will cause delays in the implementation of the project.

ANNEX A. DEFINITIONS

DISTRICT MUNICIPALITY There are 47 Category C or District Municipalities which are made up of several local municipalities that fall under one district (between 3-6 local municipalities form a district council). The district municipality coordinates development and service delivery in the entire district.

LOCAL MUNICIPALITY There are 231 Category B or Local Municipalities which share responsibility for service delivery with district municipalities.

METROPOLITAN MUNICIPALITY There are 8 Category A or Metropolitan Municipalities representing the largest cities. These municipalities have a population of 500,000 and above.

MRV The implementation of climate change mitigation actions in a “measurable, reportable and verifiable” manner.

SALGA South African Local Government Association is an autonomous association of 278 municipalities with its mandate derived from the Constitution of the Republic of South Africa. This mandate defines SALGA as the voice and sole representative of local government. SALGA interfaces with parliament, the National Council of Provinces (NCOP), cabinet, as well as provincial legislatures.

V-LED Vertical integration of Low Emissions Development involves cross-cutting dialogue and cooperation across sectors and different tiers of government.

V-NAMA refers to vertically integrated nationally appropriate mitigation action as conceptualized by GIZ and has since been adopted by the UNFCCC as a globally accepted term for local mitigation action.

WHEELING energy refers to the transfer of electrical power from one utility to another using the electrical grid – usually from an area with surplus to areas of higher demand. A NERSA trading license is required to wheel power via the existing transmission and distribution infrastructure.

ANNEX B. INDICATORS AND MILESTONES

The table below provides a summary of progress towards the achievement of SA-LED's targets for FY17 and over the life of the Program. Progress on activities as laid out in the SA-LED Workplan for FY17 is also described in the table. The table is laid out in such a way that it is easy to see how the activities of the Workplan contribute towards the achievement of the Program's indicators.

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Intermediate Outcome 1: Increased investment in LED								
KRA 1.1	Innovative LED projects identified, supported, and facilitated	Number of LED projects provided with technical assistance	20	8	4	2	100%	In Q3, SA-LED provided technical assistance to 2 new projects - Biogas to Compressed Natural Gas in EThekweni Municipality and Cacadu Development Agency Mohair Supply Chain Greening, bringing the program to reach its annual target. In addition, technical assistance was provided to 2 other existing projects

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
								- Blue Karoo and Ekurhuleni.
KRA I.4	Reduced emissions potential in strategic sectors demonstrated	Projected quantity of GHG emissions in metric tons of CO ₂ e, reduced or avoided by 2030	100,000 tons	0	20,000 tons	49,033 tons	245%	Ekurhuleni's 2 MW tender solar PV project has been awarded resulting in exceeding the annual target.
		MW of clean energy generation capacity supported by SA-LED assistance	10MW	0	5MW	2MW	40%	2 MW from rooftop solar PV in Ekurhuleni has reached financial close.
Immediate Outcome I.1.1 Improved project preparation								
Activity	Result Statements	Comments On Progress						
Activity I.1.1a	Identify potential projects for technical assistance	No additional projects were selected in this quarter. The program is prioritizing the implementation of the projects already selected but where work has not yet commenced, for instance, !Kheis and EThekwini.						
Activity I.1.1b	Evaluate potential projects via screening criteria	No new projects were screened in Q3.						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Activity 1.1.1c	Ensure a robust pipeline of LED projects	The program has a pipeline of 3 projects in this quarter. The project pipeline is maintained and updated every month as new project ideas are developed.						
Activity 1.1.1d	Support development of renewable energy RFPs	SA-LED will continue working with City of Cape Town, on renewable energy RFP's in Q4.						
KRA 1.3	Resources from Development Finance Institutions (DFIs), Public Sector Finance funds (such as the SA Green Fund), and Private Sector Finance mobilized or Leveraged	Value of funds in USD mobilized or leveraged to support LED projects	US\$206M	US\$200	US\$ 2M	US\$30,611	1.5%	SA-LED leveraged these funds from the Local and Regional Economic Development (LRED). This leveraged amount is confirmed in Project Steering Committee minutes.
Immediate Outcome 1.2.1 Increased financial support to LED projects								
Activity	Result Statements	Comments On Progress						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Activity 1.2.1a	Support co-benefit analyses for the allocation of budget to all the projects in the municipal LED pipeline	In this quarter, SA-LED officially commenced with the co-benefits analysis by appointing ICF and a local consultant to develop an overarching co-benefit framework for SA-LED projects, together with a specific, contextualized assessment of the Graaff-Reinet fish farm project. Concrete deliverables are expected in the next quarter (framework and draft analysis for 3 projects), with final deliverables in the first Quarter of Y3.						
Activity 1.2.1b	Collaborate with the Gauteng infrastructure funding agency on implementing LED projects	The MOU with GiFA is signed						
Activity 1.2.1c	Share information on the revenue implication of small scale embedded generation models	Activity was postponed to Q4						
Activity 1.2.1d	Work with banks to increase the amount of commercial debt provided to biomass and biogas projects	SA-LED is currently engaging with three commercial banks. In this quarter, SA-LED focused on ensuring uptake of the IDC guarantee and have paused interaction with commercial banks temporarily. SA-LED's financial offering in the next quarter will focus on providing technical assistance to the IDC and related projects and focusing on seeking leveraged funds through other DFIs, Government funds and institutional arrangements (for example, Old Mutual).						
Activity 1.2.1e	Partner with the Green Building Council of South Africa (GBCSA) to establish a green building finance working group to accelerate private sector investment in green buildings	Discussions with Old Mutual's Impact Development fund to discuss how to partner to invest in rooftop PV across their residential portfolio were put on hold based on Old Mutual's hiring of an internal solar team. Discussions with Nedbank and Trust for Urban Housing Finance (TUHF), a specialized affordable housing lender, interested in greening their portfolio with energy efficiency and renewable energy projects were placed on hold as both were interested in the partial risk guarantee. USAID has requested SA-LED to utilize the IDC guarantee prior to engaging financial institutions in guarantee discussions.						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Activity 1.2.1.f	Match projects with funding and provide support to project owners to secure the exact number of funds required for implementation	SA-LED has been working with five partners to secure matching funds and provide financial advisory technical assistance to help these solar projects reach financial close. The five partners receiving financial advisory support are: IDC, Genergy, Emergent Energy, Harbour Capital, and Clean Energy Africa.						
Activity 1.2.1g	Provide financial advisory services to banks, DFI's and municipalities to accelerate the deployment of finance to LED projects	The municipal work to deploy finance to municipal rooftop PV projects that do not have any municipal budget continues with ongoing support to NMBMM, and Ekurhuleni and Cape Town. Cape Town and Ekurhuleni issued tenders during the quarter for 2MW and 960 kW's respectively with SA-LED technical assistance. No progress has been made with Tshwane and Mbombela during the quarter but expect future rooftop support to continue with these partners. DFI financial advisory support is still focused on the IDC exclusively and continued throughout the quarter. Financial advisory support to banks did not occur as financing rooftop PV is beginning to mainstream and no longer needs donor assistance.						
Activity 1.2.1h	Work with banks to create credit lines or debt products specifically targeted at private-sector LED developers	Discussions with ABSA are ongoing. These discussions are still at a business development stage but it is hoped technical assistance will be provided to the bank in Q4.						
Intermediate Outcome 2: Accelerated rate of implementation of LED initiatives								
KRA 1.2	Capacities of the Public and Private Sectors to Identify, Develop, and Fund LED Projects in Strategic Sectors Strengthened	Number of institutions with improved capacity to address LED issues	20	0	5	0	0%	SA-LED conducted two baseline assessments for Chris Hani and Polokwane Municipalities. Re-assessment of these institutions will be conducted in FY18 to

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
								measure improved capacity.
Immediate Outcome 2.1.2 Mainstream LED criteria into the Supply Chain Management (SCM) processes								
Activity	Result Statements	Comments on Progress						
Activity 2.1.2a	Support municipal officials with mainstreaming LED criteria into the SCM processes	Planned for Q4						
Activity 2.1.2b	Work with municipalities to include LED criteria in the issuing of RFPs	From consultations with municipalities and National Treasury it was found that the greatest need in municipalities is to influence procurement specifications to include low emissions aspects.						
KRA 2.3	Key stakeholder knowledge and awareness of LED technologies and implementation strategies improved	Number of communication products produced by SA-LED	50	2	10	6	80%	Brochure on SA-LED Projects; Organizational Capacity Assessment Tool Newsletter and accompanying Video; WWF Workshop article; CLEER Tool Newsletter and a Video, explaining how the tool works. The

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
								products are disseminated through Events, YouTube and Online Newsletter.
Immediate Outcome 2.2.1 Strengthened municipal LED knowledge base								
Activity	Result Statements	Comments On Progress						
Activity 2.2.1a	Develop a capacity building program for transport planning for municipal officials	Training opportunities are being identified in Q3 and will be rolled out in Q4.						
Activity 2.2.1b	Support Training opportunities for installation of LED technologies	SA-LED will support the rollout of the North-West University's Solar Training Centre's technical solar PV installation. Other opportunities will cover training on biogas, biomass, waste, energy efficient technologies as needed. These trainings will be informed by technical assistance provided by SA-LED to a municipality.						
Activity 2.2.1c	Develop information products on LED project blockages and regulations	No progress for this quarter. A lot has been written up on blockages not only by SA-LED but by other organizations. Now the challenge is to translate this information into cheat sheets or easy to read documents.						
Activity 2.2.1d	Conduct study tours	A US biogas for vehicle use study tour by EThekweni Metro Municipality's Durban Solid Waste (DSW) officials was held in Q3. Another study tour to Seattle was also held as part of the EcoDistricts incubator programme in Portland, Oregon. A local study tour to an in-vessel composting facility in Grabouw is still pending for Mbombela and Mangaung Municipalities.						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
KRA 2.4	Knowledge and awareness of the relationship between economic, gender, and youth implications of low emissions development increased	Number of projects supported by SA-LED that have co-benefits (output)	10	2	3	0	0%	Co-benefits analysis on Graaff-Reinet Fish Farm is underway and 2 other projects will be analyzed for co-benefits in Q4.
Immediate Outcome 2.3.1 Increased LED credibility as a pathway to local economic development, including gender and youth								
Activity	Result Statements	Comments on Progress						
Activity 2.3.1a	Include young graduates and female financial, engineering, and legal interns in LED activities	The Intern started work in May and is on a one-year tenure						
Activity 2.3.1b	Capture learnings on co-benefits from projects supported	Planned for Q4						
Intermediate Outcome 3: Mainstream LED into programming, planning and budgeting, of municipal services								

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
KRA 2.1	Technical skills and strategic knowledge within relevant national, provincial or municipal government entities developed	Number of GoSA officials trained in LED	130	33	36	20 (14 male, 6 female)	169%	In Q3, SA-LED trained 20 more participants through the Biogas and EcoDistricts Study Tours as well as Cambridge Institute for Sustainability Leadership bringing a total of those trained to 61.
		Number of individuals with improved LED capacity in supported organizations (outcome)	92	0	31	0	9%	The annual target will not be met due to the complexity of collecting data on this indicator. Another indicator to replace it has been proposed for FY18.
Immediate Outcome 3.1.1 Increased municipal capacity for project assessment, design and development								
Activity	Result Statements	Comments on Progress						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Activity 3.1.1a	Provide technical assistance to biogas and biomass projects	SA-LED continued to provide technical assistance to Blue Karoo Trust Aquaculture Project and a SoW was agreed to between DSW and ICF to support the development of the biogas for vehicular use by EThekweni Metro after the US biogas study tour.						
Activity 3.1.1b	Strengthen municipal capacity on project assessment, design and development	Activity to start in Q4						
KRA 2.5	Technical products to facilitate GoSA development and management of LED developed	Number of technical products developed to facilitate GoSA development and management of LED (output)	8	0	2	0	50%	No new product developed but the Energy Efficiency and Renewable Energy Manual reported in the last quarter will be printed in August. The edits and revisions to the document delayed the printing process that was planned for May.
Immediate Outcome 3.2.1 Increased implementation of LED initiatives								
Activity	Result Statements	Comments on Progress						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Activity 3.2.1a	Develop short videos for two LED technologies	This activity is planned for Q4						
Activity 3.2.1b	Develop simplified templates/ cheat sheets for different LED technologies	Planned for Q4 after the EMM rooftop solar project and NMBMM projects are awarded / brought to financial close to share those municipal lessons learned with other municipalities.						
Activity 3.2.1c	Develop business case studies and package for replication of viable LED projects	Planned for Q4						
Activity 3.2.1d	Development of training materials for Councilors on green building standards	After consultations with the GBCSA and SALGA it was decided that instead of developing new training materials SA-LED will work with municipalities interested in developing their own green building guidelines to leverage the guideline templates previously developed by the GBCSA under the ICLEI Urban LEDS Program. Basic introduction to green buildings for councilors will be covered as part of the SALGA Electricity and Energy Councilor Induction Program. There is a planned training for building inspectors at the end of the next quarter.						
Activity 3.2.1e	Update current manuals on renewable energy and energy efficiency	Manuals will be printed by August 2017. Final revisions were being done to the manual to make sure recent changes in the RE market are captured.						
Activity 3.2.1f	Document best practices of greening the value chain of niche agricultural products	The best practice will be reported in Q4. In Q3, an inception report on identifying GHG and impacts of the mohair value chain was completed.						

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
KRA 2.6	Public planning for LED improved	Number of laws, policies, regulations, or standards addressing LED formally proposed, adopted or implemented as supported by SALED assistance	10	0	2	0	50%	Inventory done for IDZ and will be presented in Q4 and LED Roadmap is in development.
Immediate Outcome 3.3.1 Increased visibility of LED projects in IDPs, SDBIPs and municipal budgets								
Activity	Result Statements	Comments on Progress						
Activity 3.3.1a	Train municipal officials in LED planning and IDP processes	In Q3 the activity was done through the CISL Executive Program and will continue into Q4						
Activity 3.3.1b	Assess LED mainstreaming in IDPs, SDBIPs and municipal budgets	Activity done as part of the institutional capacity assessments for Chris Hani District and Polokwane Local Municipalities.						
Intermediate Outcome 4: Improved quality of monitoring and reporting of GHG emissions at sub national and project level								
KRA 2.2	GoSA skills to monitor, report, and communicate on GHG emissions improved	Number of GoSA officials trained in LED	130	n/a	36	0	47%	The training has been deferred to Q4.

Level of Results	Result Statements	Indicators	LOP Targets	FY 16 Results	FY 2017 Targets	Progress FY 2017	Annual Performance Achieved to Date (in %)	Comments
						Q3		
Ultimate Outcome	Reduced Greenhouse Gas Emissions through Implementation of SA-LED Initiatives							
Immediate Outcome 4.1.1 Improved skills to monitor, report and communicate GHG emissions at sub national and project level								
Activity	Result Statements	Comments On Progress						
Activity 4.1.1a	Provide training in the use of the USAID – CLEER Tool for GHG measurement	Roll out training on CLEER Tool planned for Q4.						
Activity 4.1.1b	Provide training on the use of the Global Protocol on Community Scale GHG accounting	This training did not happen as there was no interest shown by municipalities. SA-LED is however developing GPC compliant inventories for Buffalo City Metropolitan Municipality and Amahlathi Local Municipality.						

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