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SOUTHERN AFRICA ENERGY PROGRAM YEAR 5 – FY22 Q1 QUARTERLY PROGRESS REPORT

OCTOBER 1, 2021 – DECEMBER 30, 2021

Date: January 28, 2022

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SAEP CONTRACT AND INDICATOR PERFORMANCE SUMMARY

Project Name	Southern Africa Energy Program (SAEP)
Performance Period	15 March 2017 – 14 March 2022
TEC	\$69,955,372
Countries	Angola, Botswana, Eswatini, Lesotho, Madagascar, Malawi, Mozambique, Namibia, South Africa and Zambia
Implementing Partner	Deloitte Consulting LLP
Subcontractors	CrossBoundary, Deloitte South Africa, ENGAGE Energy, FLUXX, Geometric Talks, Consultec, Endangered Wildlife Trust and SIAL
Performance Reporting Frequency	Quarterly
Date of Latest PMP Modification	20 May 2021
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SAEP RESULTS AS OF: 31 December 2021

Project Goals	LOP Target	Progress to Date (as of 12/31/2021)	% Achieved	Next Quarter Targets
2 Number of new grid connections or off-grid connections (PA #3)	3 million	1,768,753	58.96%	175,142
1 Number of MW from transactions that achieved financial close (PA #8)	4,000 MW	5,771.38	144%	0
Amount of investment mobilized for energy investment (PA #14)	\$7,232 million	\$6,778.8 million	93.73%	\$0 million
8 Kilometers of power lines that have reached financial close (PA#20)	1,166	1,121	96.14%	0
9 Greenhouse Gas (GHG) reduced, sequestered and/or avoided (PA #21)	4,376,435 (Thousand tCO ₂ e)	2,991,487	68.35%	0
3 Number of laws, policies, regulations or standards to enhance energy sector governance formally	31	33	106.45%	0

proposed, adopted or implemented (PA #23)				
7 Number of Institutions with Improved Capacity	61	58	95.08%	0
6 Energy Efficiency or Energy Conservation (GJ of electricity saved)	5,724	46,718	816%	0
10 Number of competitive procurement processes for new generation capacity implemented with USG Power Africa assistance (PA #24)	2	2	100%	0

Projected Targets for the Next Performance Period (Remaining Life of Project)

#New connections: 1,231,247; #MWs at Financial Close: 0 MW; Investment Mobilized: \$1.106 billion; # KM of T&D lines at Financial Close: 45; # New Laws, Policies and Regulations: 0; #Institutions with Improved Capacity: 3; #People Receiving Training in Global Clean Energy: 0

ACRONYMS

Acronym	Definition
ADER	Agence pour le Développement de l'Électrification Rurale
AfDB	African Development Bank
ARENE	Autoridade Reguladora de Energia (Energy Regulatory Authority)
BESS	Battery Energy Storage Systems
BGFZ	Beyond the Grid Fund for Zambia
BoD	Board of Directors
BPC	Botswana Power Corporation
BTG	Beyond the Grid
CENORED	Central Northern Regional Electricity Distributor (Namibia)
CEO	Chief Executive Officer
COR	Contracting Officer's Representative
COP	Chief of Party
CSP	Concentrated Solar Power
CTT	Central Termica de Temane
CoCT	City of Cape Town
CoW	City of Windhoek
DBSA	Development Bank of South Africa
EASE	Eswatini Agency for Sustainable Energy
E&S	Environmental and Socioeconomic
ECB	Electricity Control Board (Namibia)
EDM	Electricidade de Moçambique
EEC	Eswatini Electricity Company
EGENCO	Electricity Generation Company
EMMP	Environmental Mitigation and Monitoring Plan
EMU	Electrification Management Unit
ENDE	Empresa Nacional de Distribuição de Electricidade
EOI	Expression of Interest
EPC	Engineering, Procurement, and Construction
ERB	Energy Regulatory Board (Zambia)
ERI	Electricity Regulatory Index
ESCOM	Electricity Supply Corporation of Malawi
ESERA	Eswatini Energy Regulatory Authority
ESIA	Environmental and Social Impact Assessment
ESEEP	Energy Sector Efficiency and Expansion Program
ESMP	Environmental and Social Management Plan
ESMS	Environmental and Social Management System

EU/IAEREP	European Union’s Increased Access to Electricity and Renewable Energy Production Program
EWSC	Eswatini Water Services Corporation
ETG	Energy Thematic Group
EWT	Endangered Wildlife Trust
ExCo	Executive Committee
FC	Financial Close
FY	Financial Year
GAP	Gender Action Plan
GET FiT	Global Energy Transfer Feed-in Tariffs
GOGLA	Global Off-Grid Lighting Association
GoM	Government of Malawi
HCD	Human-Centered Design
HICD	Human and Institutional Capacity Development
IA	Implementation Agreement
IAEREP	Increased Access to Electricity and Renewable Energy Production
IDA	International Development Association
IDIQ	Indefinite delivery/indefinite quantity (used in U.S. Federal government contracting)
IFC	International Finance Corporation
IFI	International Financial Institution
IPP	Independent Power Producer
IPP Office	South Africa Department of Energy (DoE) Independent Power Producer Procurement (IPP) Programme Office
IRP	Integrated Resource Plan
IRSEA	Instituto Regulador dos Serviços de Electricidade e de Água
IsDB	Islamic Development Bank
JDA	Joint Development Agreement
KfW	Kreditanstalt für Wiederaufbau (German Development Bank)
KPI	Key Performance Indicator
kV	Kilovolt
LCOE	Levelized Cost of Energy
LEC	Lesotho Electricity Corporation
LOC	Letter of Collaboration
M&E	Monitoring and Evaluation
MCC	Millennium Challenge Corporation
MER	Municipal Energy Resilience
MERA	Malawi Energy Regulatory Authority
MINEA	Ministry of Energy and Water in Angola
MIREME	Minister of Mineral Resources and Energy (Mozambique)
MMGE	Ministry of Mineral Resources, Green Technology and Energy (Botswana)

MME	Ministry of Mines and Energy (Namibia)
MNRE	The Ministry of Natural Resources and Energy
MW	Megawatts
NARUC	National Association of Regulatory Utility Commissioners
NDA	Non-Disclosure Agreement
NEESAP	National Energy Efficiency Strategic Action Plan
NEI	Namibia Energy Institute
OGTF	Off-Grid Task Force
OFID	OPEC Fund for International Development
OPC	Office of the President & Cabinet
PATT	Power Africa Transaction Tracker
PIM	Project Investment Memo
PIU	Project Implementation Unit
PMEP	Performance Management and Evaluation Plan
PMO	Project Management Office
PMU	Project Management Unit
PPA	Power Purchase Agreement
PPP	Public-Private Partnerships
PPPC	Public-Private Partnership Commission
PV	Photovoltaic
Q1	Quarter 1
Q2	Quarter 2
Q3	Quarter 3
Q4	Quarter 4
RAP	Resettlement Action Plan
RE	Renewable Energy
REA	Rural Electrification Agencies
RED	Regional Electricity Distribution Company
REIAMA	Renewable Energy Industry Association of Malawi
REIPPP	Renewable Energy Independent Power Producer Procurement
RERA	Regional Energy Regulatory Association
RFA	Request for Application
RFI	Request for Information
RFP	Request for Proposals
RNT	Empresa Rede Nacional de Transporte de Electricidade
ROW	Right of Way
RSSC	Royal Swaziland Sugar Corporation
RTIFF	Regional Transmission Infrastructure Fund Facility
RTS	Rooftop Solar

SACREEE	SADC Centre for Renewable Energy and Energy Efficiency
SADC	Southern African Development Community
SAEP	Southern Africa Energy Program
SALGA	South African Local Government Association
SARDC	Southern African Research and Documentation Centre
SAPP	Southern African Power Pool
SB	Single Buyer
SHS	Solar Home System
SIAZ	Solar Industry Association of Zambia
SOW	Scope of Work
SPEED+	Supporting the Policy Environment for Economic Development
SPV	Special Purpose Vehicle
SSIR	SAEP Support Information Request
STTA	Short-Term Technical Assistance
ToR	Terms of Reference
TTP	Temane Transmission Project
TTS	Targeted Transaction Support
UNESWA	University of Eswatini
USD \$	United States Dollar
USG	United States Government
USAID	United States Agency for International Development
USTDA	United States Trade and Development Agency
VAT	Value Added Tax
vRE	Variable Renewable Energy
ZESCO	Zambia Electricity Supply Corporation
ZRA	Zambezi Revenue Authority
ZTK	Zambia–Tanzania–Kenya

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I INTRODUCTION

The United States Agency for International Development (USAID) Southern Africa Energy Program (SAEP or the Program) is a Power Africa initiative designed to provide technical advisory, capacity building and grant support to counterparts throughout Southern Africa, with the goal of increasing generation of and access to power throughout the region. The Agreement (AID-674-C-17-00002) for this five-year program was concluded between USAID/Southern Africa and Deloitte on 15 March 2017. This Quarterly Progress Report (the Report) documents activities and progress made from 1 October to 31 December 2021 during the Program's first quarter (Q1) of the Fiscal Year 2022 (FY22). Key results from Q1 were:

- 450 megawatts (MW) added to Power Africa's transaction pipeline through an SAEP-supported transaction that reached financial close (FC)
- 217,429, direct electricity access connections
- Eight new reports, analyses, reviews, action plans and tools developed to improve the enabling environment and reduce barriers to energy sector growth

More details on the above listed tangible results are given in the content of this report.

I.1 HIGHLIGHTS FOR THIS QUARTER

- *SAEP Supports Mozambique's Utility in Reducing Commercial Losses.* The *Electricidade de Moçambique* (EDM) Board of Directors (BoD) approved the company-wide use of the commercial loss reduction tool and processes developed by SAEP to more accurately measure and track commercial losses. EDM's newly formed Revenue and Losses Control Directorate must reduce commercial losses by 2% per year from the current 27% to 20% by 2026. In collaboration with the Directorate's analytics team, SAEP developed a commercial loss reduction tool. The Excel-based tool is comprehensive and covers all the regions and different EDM customer classes, among other aspects. The immediate and critical value of the tool is that it enables EDM to understand the source and magnitude of its commercial losses, which is a starting point in working towards the set target of reducing the commercial losses by 2% per year in the next five years – information EDM did not have before SAEP's support.
- *Improving South African Municipalities' Electrification and Revenue Management Skills.* SAEP successfully delivered training on leading practices for revenue management and electrification project management offices (PMOs) to approximately 106 South African municipal officials. The revenue management training focused on credit and debt management strategies while the PMO training covered the key challenges in the project management cycle that municipalities currently face with electrification projects. These capacity building initiatives are enabled by SAEP's collaboration with the South African Local Government Association (SALGA) and form part of a series of training topics being offered to enhance the skills of the municipalities' energy professionals improve their ability to manage customer connections.
- *Mitigating Wildlife and Energy Infrastructure Interactions in Mozambique.* SAEP, in partnership with the Endangered Wildlife Trust (EWT), completed a two-day energy and wildlife system management training for Mozambican utility EDM in November 2021. Around 56 EDM staff members, including management, generation, transmission and distribution teams from 25 regions participated. The training focused on classifying and capturing incidents into a central database, identifying wildlife species and implementing appropriate mitigation measures to ultimately improve the reliability of the system while protecting wildlife. The training is a consequence of a collaboration with EDM which included an initial step that involved SAEP and the EWT conducting an energy and wildlife readiness assessment. They subsequently presented findings from this assessment to the EDM BoD on 30 September 2021. The training provided in November is one of the next steps that flowed from the Board presentation.
- *Angola's Central–South Transmission Line Project Reaches Procurement Milestone.* SAEP is supporting Angola's transmission company, *Rede Nacional de Transporte de Electricidade* (RNT), to manage the development of the AfDB-funded 343 km 400 kV transmission line that will connect central and southern Angola and allow for the evacuation of around 1,000 MW from North to South. In Q1, the transmission project reached a major milestone by concluding an agreement with the successful applicant for the owner's engineer (OE) role. The procurement of the OE – an independent consulting firm that plays a supporting role to the technical project management – is critical to the advancement of this complex project. SAEP guided RNT through the tender and evaluation process. On 13 December 2021, the AfDB formally approved the company selected by RNT and announced the contract award on its website: <https://www.afdb.org/en/documents/contract-awards-angola-owners-engineer-consulting-services-eseep-i>
The selected company, a consortium between Colenco Consulting Ltd and Decon International GmbH, will review and update (if needed) the conceptual designs for the 400-kiloVolt (kV) transmission line and associated infrastructure as well as assist RNT to prepare the bidding documents for an engineering, procurement and construction (EPC) contractor for transmission line and substation works.

The remaining sections of this report document program activities pursued, challenges identified and – where applicable – mitigation strategies implemented during the quarter. A series of appendices provide details on program staffing, including short term technical assistance (STTA) and resources mobilized; performance indicators and results; and progress reporting against activities included in SAEP's Year 5 Work Plan.

I.2 CHALLENGES AND RISKS

Challenges:

- *Coronavirus Pandemic.* The coronavirus outbreak and resulting lockdown and travel restrictions has impacted SAEP program delivery and expected outcomes. SAEP closed its Pretoria office on 23 March 2020 and the team has been teleworking ever since. Similar measures were imposed in many other countries in the region, which has limited the Program's ability to engage counterparts. In Q1, a new variant, Omicron, emerged and caused many countries to reinstate hard lockdowns. Despite lockdowns and having to adapt to different ways of work, SAEP continues to advance electricity reform activities and support counterparts, minimizing disruptions as much possible.
- *Delays in Approval of the No-Cost Extension.* Final approval of the contract modification to extend SAEP was finally received and signed on 12 December 2021, after several months of anticipation. Under the extension, deliveries for Year 5 will be extended through to 30 September 2022. The delay in receiving approval of an extension resulted in last-minute administrative items such as employment contract modifications and subcontract extensions and in some cases lapses of items that have since been renewed. Given this delay in the extension, we also lost the opportunity to recruit some new talent to the program including the OC4 deputy position because the short time frame of the remaining period of performance.
- *SHS Supply Chain Challenges.* The SHS companies awarded under the Malawi SHS Kick-Start Program have faced supply chain challenges by struggling to source products for the Malawi market given the broader supply chain disruptions and delays related to the COVID-19 pandemic. This has meant delays in products reaching Malawi and increased costs for their shipping. For three of the four SHS grantees this has meant lower sales volumes. With USAID approval, SAEP has extended the period of performance for the three remaining grantees under the SHS Kick-Start Program (Zuwa Energy, SolarWorks! and VITALITE) from 18 December 2021 to 30 June 2022. The reason for extension is to provide the grantees with more time to improve sales. To improve the likelihood of increased sales, SAEP has requested operational plans from the SHS companies and will use these to guide technical support for the remaining period of performance.
- *Slow Progress for the Madagascar Mini-Grid Development Grant.* The Madagascar Mini-Grid Development Grant has gotten off to a slow start as Madagascar was significantly affected by the COVID-19 pandemic. It is expected that the project will need to extend the period of performance of the grant, beyond the currently approved 31 January 2022 to enable the grantees to conclude the construction of the various mini-grids. Further challenges include customs clearance issues for the supply of equipment due to a legal change that has changed the tax status of some equipment. SAEP will continue to monitor progress and assist the grantees to overcome the challenges they face as best we can. Unfortunately, in some cases, the timelines for results are exceeding the SAEP performance timeline.

Ongoing Risks:

- *COVID-19 Lockdowns:* By the end of Q1, it was unclear for how long existing lockdowns and travel restrictions will continue though it looks promising that things could open up in the region for most countries soon. Sudden changes could affect activity planning and implementation and require potential modifications to the SAEP work plan. In addition, the coronavirus pandemic is delaying the ability of governments and other counterparts such as project developers to advance their projects, activities and decisions that could cause delays to not only activity implementation, but also energy project advancement and connections activities that SAEP relies on for Program results. e. Specific information about the impacts on results are highlighted in the Outcome and activity table (Appendix J) status update sections.
- *Limited Connections Opportunities in the Region to Realize Connections Targets.* While electrification rates continue to be low in some countries in Southern Africa, the capital must be available with programs focused on electrification for new connections to occur. SAEP is working with most of the grid extension programs in the region as well as supporting off-grid electrification opportunities. However, the potential connections numbers are still falling short of the Program's 3 million connections target. In spite of the challenges, SAEP continues to work to identify and support additional opportunities.
- *Electoral and Political Transitions.* Throughout the life of the project, Southern African countries have experienced and will continue to experience political transitions following elections. Zambia had general elections in August 2021, which were peaceful and led to a change in government. Changes in government have resulted in the ZESCO BoD appointing a new managing director (MD) and terminating the employment of a number of directors, including SAEP points of contact, in December 2021. The Board, MD and his new team are in a restructuring process and the final announcement of the reorganized directorates with new directors and senior managers is yet to be made. SAEP can only succeed with support from high-level government officials. This means that following changes in governmental composition post-election, SAEP will need to build new relationships with successor government officials.
- *Global Market Fluctuations and Regional Interdependencies.* Prices of energy commodities are often affected by global market fluctuations. Likewise, national energy systems have regional interdependencies pertaining to imports, exports, and transportation networks. Because of this, each Southern African nation is to an extent constrained by trends and events impacted by external factors. To mitigate this constraint, SAEP will incorporate market research and trend analysis to stay abreast of global energy market developments and changes. SAEP will also focus on regional community engagement and coalition building to coordinate energy sector reform and other activities where possible. The SAEP team will also monitor interdependencies that can affect the success of the Program. The global economic slowdown caused by COVID-19 has resulted in oil prices being reduced, which has impacted Angola's financial sustainability, and has negatively affected currencies in countries such as Zambia and FOREX availability in Malawi.

Currency devaluation in Zambia is influenced by long-standing high debt levels and has been exacerbated by COVID-19.

I.3 POWER AFRICA SUPPORT TO AMERICAN COMPANIES

During this quarter, SAEP did not provide direct technical assistance to American companies. The following section identifies potential opportunities for U.S. companies to participate in the Southern African energy sector.

- **Technical Assistance**
 - Various energy projects in Southern Africa are in need of development and financing. Such financing could be targeted at rural electrification through mini-grids and other approaches, off-grid companies, independent power producer (IPP) projects and transmission line projects. Financiers must conduct the necessary due diligence and be comfortable with the inherent project and off-taker risks in SAEP's targeted countries.
- **Potential Opportunities for U.S. Companies**
 - **Angola:** Transmission project related tenders
 - Description: SAEP is assisting Angola's transmission company, RNT, in implementing the AfDB-funded 343 km 400 kV transmission line project that will interconnect central and southern Angola.
 - U.S. Opportunity: i) Opportunity to participate as EPC contractor for transmission line and substation works; ii) Supply of equipment
 - **South Africa:** Western Cape Municipal IPPs
 - Description: The Municipal Energy Resilience (MER) project is a three-year program running to July 2023. The Department of Economic Development and Tourism's Energy Directorate established the MER project to enable the development of municipal energy projects in the Western Cape province. This is in line with recent changes to the country's energy regulations, empowering municipalities to purchase energy directly from IPPs and/or develop their own generation facilities. The six candidate municipalities identified as part of the MER project are: Drakenstein, Mossel Bay, Overstrand, Saldanha Bay, Stellenbosch and Swartland. The project will also collaborate closely with the City of Cape Town.
 - U.S. Opportunity: i) Opportunity to participate as IPP developer and financier; ii) Supply of equipment
 - **South Africa:** Local governments, municipalities and Johannesburg's municipality, City Power
 - Description: Similarly, in response to recent changes to the country's energy regulations, empowering municipalities to purchase energy directly from IPPs and/or develop their own generation facilities, SALGA has requested SAEP with a number of topics. These include the improved understanding of project finance principles used by IPPs in the development of renewable energy generation (e.g., solar, wind) projects through facilitated workshops, dialogues and training sessions with selected municipalities. SAEP completed a total of six training sessions on 28 September 2021.
 - U.S. Opportunity:* i) Opportunity to participate as IPP developer and financier; ii) Supply of equipment

* When municipalities eventually initiate procurement activities

2 MAJOR ACTIVITIES DURING THE REPORTING PERIOD

2.1 OUTCOME I: IMPROVED REGULATION, PLANNING AND PROCUREMENT FOR ENERGY

2.1.1 STAKEHOLDER ENGAGEMENT

During this quarter, the SAEP Outcome I (OCI) team supported counterparts in two broad areas: i) connection policies that could enhance connections in individual countries and ii) development of mini-grid regulatory frameworks. Additionally, OCI began engagements with municipalities in South Africa to improve their ability to lessen their dependence on Eskom by procuring generation capacity directly. Doing so requires municipalities to have some knowledge of Public-Private Partnership (PPPs) procedures required in law. Key stakeholder support activities under OCI for Q1 of FY22 include:

- Finalizing the SOW and an agenda on training for South African municipalities looking to procure their own generation and reduce their dependence on Eskom. SAEP also hired consultants with South African experience in generation and PPPs who are preparing the training material
- Supporting the Eswatini Energy Regulatory Authority (ESERA) in developing a mini-grid regulatory framework. Mini-grid regulatory frameworks will serve to reduce uncertainty in the market thus providing greater incentives for mini-grid development and additional electricity for consumers
- Participating in a workshop and virtual study tour of One-Stop Shop alternatives to assist Zambia in structuring the powers and duties of its similarly-planned operation. The output from the event, held in December 2021, was a draft roadmap for creating a Zambian One-Stop Shop by 2023
- Having a courtesy call with the new CEO of the Malawi Energy Regulatory Authority (MERA), Henry Kachaje, to discuss SAEP support for the upcoming rate case with ESCOM. The CEO indicated that MERA would appreciate the assistance, similar to what SAEP provided in 2018, and that the timing of such assistance would be firmed up around the beginning of January 2022
- Completing, in cooperation with the Regional Energy Regulators Association of Southern Africa (RERA) Secretariat, the agenda for the RERA Annual Conference. The conference originally planned as a virtual conference for November 2021, has been changed to a hybrid conference to be held in February 2022, most likely in Namibia

OCI Top Achievements and Results

- Established the training agenda for South African municipalities on how to avail themselves of recently-granted authority to procure generation directly
- Supported Eswatini in its development of a mini-grid regulatory framework
- Participated in a workshop on the creation of a One-Stop Shop for additional generation capacity in Zambia
- Constructed the agenda for the RERA Annual Conference 2021
- Laid the groundwork for an upcoming rate case in Malawi

2.1.2 COUNTRY AND REGIONAL HIGHLIGHTS

ANGOLA

▪ Support to Angola's Regulatory Institute for Electricity and Water Services, IRSEA

This activity in the Year 5 Work Plan with IRSEA was intended to be a continuation of World Bank work on subsidy reduction. Essentially the World Bank would determine the amount of subsidies provided (e.g., in fuel purchases by utilities, in lower-than-cost rates for customers and in cross-subsidies among customer classes). Then SAEP would take that information and develop a plan to reduce or eliminate subsidies over a four- to five-year period. However, SAEP has had difficulty obtaining a copy of the report so that it could develop a recommended plan. SAEP has enlisted the help of a US embassy representative in Luanda, Energy Advisor, Elisio Ndoluvualo, to seek his assistance in securing the report directly from Angolan ministry sources, the technical client of the World Bank and the recipient of the report.

ESWATINI

▪ Eswatini Electricity Company (EEC) Optimal Capital Structure Study

In ESERA's latest rate case, decided in early 2021, SAEP recommended that the EEC hire a consultant to conduct a study on what the optimal debt-equity ratio would be for the company. SAEP made this recommendation because the EEC has about 90% equity. Most utilities have 40 to 60% equity and the balance in debt. This is important because a high equity ratio will push up the rates that ratepayers ultimately pay. ESERA staff and the board adopted the SAEP recommendation. SAEP also recommended the use of a hypothetical debt-equity ratio for purposes of setting the rates to reduce the impact on ratepayers. The EEC was in the process of following this order from ESERA but was having difficulty writing the terms of reference (TORs) for the consultant. At ESERA's request, SAEP drafted the TORs for the EEC. SAEP will monitor this work by the EEC in conjunction with ESERA and evaluate the EEC consultant's conclusions if requested.

▪ Support to the ESERA in Developing a Mini/Off-Grid Regulatory Framework

ESERA also asked for SAEP's assistance in reviewing the work of a proposed mini-grid regulatory framework that was to be developed by South African consultants. This review will be helpful to SAEP as the study, according to the TORs, will contain some samples of mini-grid regulatory frameworks from other countries around the world. This information will help inform SAEP's possible work in the program's focus countries in Year 5.

MALAWI

▪ MERA 2022 Rate Case Support

MERA has requested SAEP support in its upcoming rate case with ESCOM. Rates are set for a four-year period in Malawi. SAEP assisted ESCOM in 2018 with the ESCOM filing that requested a 60% increase over the four-year period. With SAEP support, MERA authorized a 30% increase in rates, determining that it was sufficient to cover ESCOM's reasonable costs. The application is expected to be filed in early February 2022. Providing rates that are sufficient to cover reasonable costs will allow ESCOM to become an increasingly viable utility while at the same time charging affordable rates to Malawi ratepayers. SAEP has been in contact with MERA to monitor when the rate will be filed so that it can – pending Year 5 Work Plan approval – be ready to mobilize resources to help with the analysis of the filing. The MERA analysis period is set at five months from the date of a duly filed application.

REGIONAL

▪ Planning for the RERA Annual Conference

In Q1, SAEP played a significant role in developing the agenda and securing speakers and moderators for the RERA 2021 Annual Conference intended as a virtual event from 8 to 12 November 2021. The event did not go ahead and has been changed to a hybrid in-person/virtual conference to be held in Namibia towards the end of February 2022. SAEP will support RERA in contacting speakers to reconfirm their availability.

SOUTH AFRICA

▪ SALGA Training: PPP Approaches for Energy Infrastructure Project Development

During the quarter, SAEP did the ground work for training for municipalities to help them understand and use recently-changed regulations regarding the procurement of generation from sources other than Eskom. SAEP has contracted two consultants to prepare training materials and deliver the training. SAEP, SALGA and the consultants have discussed and vetted the agenda with selected municipalities. The training dates are set for 24, 26, 28, 31 January and 1 February 2022. The training will be conducted virtually.

ZAMBIA

▪ One-Stop-Shop for Development of Renewable Energy Projects

In collaboration with the European Union's Increased Access to Electricity and Renewable Energy Production (EU/IAEREP) Program, SAEP supported the implementation of a workshop and virtual study tour to inform Zambian officials' deliberations on the value of a one-stop shop where developers can receive all information necessary – and possibly even complete some applications – for establishing businesses in Zambia for the purpose of developing project-financed power projects. Having such an entity could speed the development of additional capacity in Zambia by making the permitting process less onerous as well as by providing a sense of certainty to potential developers. The workshop took place from 8 to 12 December 2021 and included presentations from the Rwandan Development Board and InvestSA (under the South African Department of Trade, Industry and Competition). Both presentations provided great insight into the practical purpose of their respective programs, as well the mechanism of how they were established and continue to operate today. The output from the sessions was a roadmap that sets forth the steps for developing the one-stop shop. The roadmap runs to 2023 and SAEP's role from this point will be to support the Zambian officials on an as-needed basis.

2.1.3 ACTIVITIES AND RESULTS

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.01.01.05.MOZ	Support ARENE to develop an off-grid regulatory framework	David Jankofsky	10/01/2022-03/29/2022	SAEP Initiative	Y3.01.05.01.MOZ	<ul style="list-style-type: none"> Report containing an assessment of the current status of mini-grids, as well as a review of the current regulatory enabling environment and recommendations on the way forward 	<p>In progress: This is a Year-4 activity, which started in FY21 Q4 and has carried over into FY22/Year-5. The quarter saw progress made on developing a guideline document, prioritizing a focus on evaluating PPAs, rather than the overall procurement process, and developing a template PPA as the first step in providing guidance. Engagement with ARENE has been limited throughout the quarter as a result of the counterparts' lack of availability/full schedule. SAEP will renew efforts to make contact with ARENE in the new calendar year, following which a final deliverable for ARENE could be completed in FY22/Y5 Q2</p>

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.01.01.07.REG	Support to RERA Annual Conference	David Jankofsky	10/01/2021–03/11/2022	RERA Request	N/A	<ul style="list-style-type: none"> Generate the conference program in conjunction with RERA Present at plenary and breakout sessions pursuant to the conference program 	In progress: The event, which was originally planned as a virtual event from 8 - 12 November 2021, did not take place. At the end of the quarter, it was unclear when it would take place and in what format. SAEP continues to follow up with the RERA secretariat. Leading up to the original date, SAEP assisted RERA with the conference program and lining up speakers
Y5.01.01.09.SWA	Support to ESERA with the review of work by consultants on the development of a Mini/Off-grid Regulatory Framework	David Jankofsky	10/01/2021–01/31/2022	ESERA Request/ Continuation of Year 4 Activity	Y4.01.01.14.SWA	<ul style="list-style-type: none"> Reviews (reports and recommendations) on deliverables of ESERA-hired consultants, as required 	In progress: Engagement with the counterpart over the course of the quarter was very limited. A November 2021 SAEP status-request yielded a response indicating that the regulator and their appointed consultants have yet to conclude the market and industry assessment (the second of four tasks in terms of the TORs). The task is to do an assessment of the potential for mini-grids in Eswatini. The non-completion of this task has been due to difficulties in obtaining data on the local markets from local sources. SAEP continues to stand by in support of ESERA.
Y5.01.01.10.RSA*	Provide SALGA with training on PPP approaches for infrastructure project development training	David Jankofsky	10/01/2021–02/15/2022	SALGA Request/ Continuation of Year 4 Activity	Y4.01.01.15.RSA*	<ul style="list-style-type: none"> Training material and report 	In progress: This is a Year-4 activity that started in FY21 Q4 and has carried over into FY22/Year-5. Throughout the quarter, various engagements within SAEP, as well as with potential and subsequently appointed training consultants and SALGA, resulted in the following: <ul style="list-style-type: none"> Finalization of an SOW; General agreement on a broad set of topics/modules. The drafting and distribution of invitation letters for the training, as sent to municipalities on 12 November 2021 and, Agreement on when the training will be held (5 x 3-hour sessions from 24-31 January and 1 February 2022). At the conclusion of the quarter, the two consultants were well advanced in developing the training materials
Y5.01.01.11.ANG	IRSEA: Cross-Subsidy Reduction	David Jankofsky	10/01/2021–04/22/2022	IRSEA Request/ Continuation of Year 4 Activity	Y4.01.01.02.ANG*	<ul style="list-style-type: none"> Memorandum on the current tariff methodology and current tariff change process, together with recommended changes as required Evaluation of utilities financial statements, together with recommendations for IRSEA in the subsidy reduction process 	In progress: This is a Year-4 activity that started in Y4 Q4 and has carried over into Year-5. SAEP has requested a World Bank study that will be an input to this activity. The study was requested through various channels including IRSEA and the US Mission in Angola. At the end of the quarter the study had not yet been received. SAEP continues to follow up

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> Development and delivery of training program on tariff application evaluation and rate design Support IRSEA in development of ToRs, consultant selection and supervision for a Cost Allocation Study (if required) 	
Y5.01.04.01.ZMB	Zambia One-Stop-Shop	Chris Mubemba	10/01/2021 – 09/30/2022	Continuation of Year 4 Activity	Y4.01.04.02.ZMB*	<ul style="list-style-type: none"> Support to the European Union's Increased Access to Electricity and Renewable Energy Production (EU/IAERP) Team and Lead Consultant. Specific focus on facilitating the Rwandan Development Board and the South African InvestSA's One-stop Shop's support to the program 	In progress: A workshop and virtual country tour of the WG was held from 8 to 10 December 2021, the purpose of which was to present an overview of how OSS's work in other jurisdictions. SAEP made a presentation on country research into a variety of OSS's from around the world (originally made to a previous working group in 2020) The event concluded on Friday 10 December with a focus on the Draft Road Map of the program (currently set to run far beyond SAEP's life, into 2023). SAEP continues to stand by to support as required in 2022.

2.2 OUTCOME 2: IMPROVED COMMERCIAL VIABILITY OF UTILITIES

2.2.1 STAKEHOLDER ENGAGEMENT

In this quarter, the SAEP Outcome 2 (OC2) team continued to work with utilities in Angola, Malawi and Mozambique as well as with municipalities in South Africa to achieve expected outcomes and to advance the approved activities in the SAEP Year 5 Work Plan. Key stakeholder activities under OC2 for Q1 of FY22 included:

- Providing comprehensive training to South African municipalities under SAEP's letter of collaboration (LOC) with SALGA. The training covered two topics: Revenue Management and Electrification PMO
- Continuing support to Angola's distribution company, ENDE, under the AfDB's Energy Sector Efficiency and Expansion Program (ESEEP) Phase I, in the next stage of evaluations to develop a shortlist of preferred bidders to procure prepaid meters and service contracts to connect 1.2 million customers
- Assisting ENDE in preparing for and hosting the bidder meetings for the first stage of the two-stage procurement process for the Systems Development and Integration Services tender to improve ENDE's fraud and revenue protection management capabilities
- Completing assistance to EDM's newly formed Revenue and Losses Control Directorate and finalized the commercial loss analytics tool and guidelines, which EDM has successfully adopted. SAEP's support will help EDM to achieve its target of reducing commercial losses by 2% per year from a current level estimated at 27%
- Commencing with rolling out three solutions to the regional EDM Delegations aimed at improving customer service and engagement as part of the EDM Human-Centered Design (HCD) assistance to EDM. In 2019, EDM initiated a pilot HCD approach, with SAEP support, to improve its new and existing customer experience and facilitate new connections nationwide

OC2 Top Achievements and Results

- Assisted ENDE to shortlist ten qualified bidders for the EPC contractor for Secondary Network Regularization and Supply and Installation of 1.2 million prepaid meters tender
- EDM BoD approved the company-wide use of the commercial loss reduction tool and processes developed by SAEP to more accurately measure and track commercial losses
- Provided training successfully to SALGA municipalities under the topics Revenue Management and Project Management for Electrification
- After successfully piloting three HCD solutions, the EDM Board approved rolling out the solutions to all the regional delegations (technical service centers)
- Contributed to 110,072 connections through on-grid activities in Angola and Mozambique in Q1

2.2.2 COUNTRY AND REGIONAL HIGHLIGHTS

ANGOLA

▪ **Support to ENDE with the AfDB's Energy Sector Efficiency and Expansion Program Phase I**

SAEP is assisting Angola's electricity distribution company, ENDE, in developing and implementing the internal systems and processes necessary to successfully and efficiently install approximately 1.2 million prepaid meters over the next four years under the AfDB-funded energy program. SAEP support entails technical advisory and on-the-job training as the ENDE PIU prepares the required tender packages for i) the installation of prepaid meters and ii) systems and integration services.

In Q1, SAEP assisted ENDE in shortlisting 10 qualified bidders from 60 applications for the engineering, procurement and construction (EPC) for secondary network regularization and supply and installation of 1.2 million prepaid meters, as part of the prepaid metering tender prequalification process. Once the AfDB has given a No Objection (NO) to the evaluation report and the request for bids (RFB) documents, ENDE will inform the shortlisted companies, share the RFB and commence the bidding process. ENDE is expecting a NO in January 2022.

In October 2021, the AfDB gave a NO to ENDE to commence with the RFP Stage 1 (of 2 stages) for the systems and integration service tender. RFP Stage I entails the review of three submitted technical proposals from the six shortlisted bidders. ENDE has begun with the technical evaluations, the result of which will be concluded in Q2.

ENDE is also awaiting the AfDB's NO to the bidding documents to procure the services of the supervision consultant(s) who will oversee the prepaid meters EPC contractor. Once the AfDB gives approval, ENDE will proceed with the pre-selection stage through the Request for Expressions of Interest (EoI) process.

▪ **Support to ENDE with the World Bank's Energy Revenue Protection Program**

SAEP is supporting ENDE to prepare tender documents for the installation of advanced metering infrastructure for medium- and high-voltage customers as part of the World Bank's Revenue Protection Program. The Program will lead to 200,000 connections in Angola. The World Bank's USD \$250 million loan to ENDE will be used to extend access to power and improve revenue collection. This component will contribute to enhancing ENDE's distribution services' commercial and operational performance. SAEP supported ENDE with the bidding documents and technical specifications for Subcomponent 1.2 *Revenue Protection Program*, which ENDE submitted to the World Bank for NO via the Ministry of Energy and Water's (MINEA) PIU. ENDE is awaiting the first engagement meeting with the World Bank team to discuss the documents and work towards publishing the RFB (which will be a single-envelope tender, with no prequalification).

MALAWI

▪ **Operational Support to Malawi's Single Buyer**

Malawi's newly licensed Single Buyer, Power Market Limited (PML), requested guidance from SAEP in i) applying the market rules and grid code in line with their mandate and ii) assessing the Integrated Resource Plan (IRP), which will be revised in 2022, and requires input from PML. This assistance will help PML operate effectively and efficiently as the Single Buyer of generation resources.

SAEP's focus has been on supporting PML in developing an operational plan. The goal is for PML to establish operational procedures that fulfill its mandated tasks in a coordinated, efficient and sustainable manner. In this regard, SAEP has provided three key work products to strengthen PML: i) a compliance register that sets out PML's obligations and associated responsibilities and processes, ii) an operational plan that ensures all obligations as captured in the compliance register will be addressed and iii) a review of relevant international experience to be used by PML for benchmarking purposes. SAEP engaged with PML management throughout the process, who welcomed these fundamental and critical inputs. In the second quarter, SAEP will complete the operational plan assistance.

MOZAMBIQUE

▪ **Support to EDM to Improve Customer Relationship Management through HCD and Operationalization of EDM's Electrification Management Unit (EMU)**

SAEP is assisting EDM to realign its customer engagements through the innovative HCD process, which builds on understanding customer experiences and developing aligned solutions and strategies for the utility. After successfully piloting three solutions in Year 4, SAEP supported the EDM HCD task team in presenting the pilot results and rollout plan to the EDM BoD in Q1. The board approved the Customer Engagement and Support Program that aims at capacitating the delegations (regional technical and commercial centers in Mozambique) and the EDM EMU to deliver better results and customer experiences during the planning, community engagement and connection processes. The program considers a set of specific solutions for the following three components:

- Community engagement operating model: EDM customer servicing areas (local delegations, abbreviated as ASCs) need to adopt and execute structured and disciplined community and customer engagement programs and promote the participation of all relevant stakeholders, such as community leaders and local government administration authorities
- Customer servicing model: EDM ASCs will upgrade their organizational and operational customer servicing capabilities, primarily focusing on responding to the Universal Access Program requirements, including preparing and disseminating informative material, training staff and formalizing points of contact through the appointment of the solution managers for each of the solutions in each EDM Delegation

- Scheduling process of communities' electrification and connections: Focuses on a collaborative and well-coordinated planning and scheduling process between the ASCs central and local planning departments, project contractors and the relevant community stakeholders to improve communities' electrification and connection projects

In December 2021, SAEP and the EDM HCD task force held virtual meetings with the EDM appointed managers in all the delegations. The meetings gave high-level introductions of the HCD concepts and the solutions that EDM will be implementing. The next steps entail capacity building for the delegation managers on responsibilities and procedures required to implement the solutions throughout EDM in a sustainable manner.

During this quarter, EDM reached and exceeded a milestone of connecting half a million people to electricity as part of its "Energy for All" Program. The focus in the next quarter will remain on implementing the HCD solutions to improve EDM's new and existing customer experience and facilitate new connections nationwide. SAEP will also assist EDM in integrating these processes within the EMU, which SAEP helped to establish and operationalize.

▪ **EDM Commercial Loss Reduction Assistance**

SAEP is supporting EDM's newly formed Revenue and Losses Control Directorate with developing tools and capacity building. The overall goal of this assistance is to help EDM reduce commercial losses and improve commercial viability. During the first quarter, SAEP completed the initial phase of assistance focused on developing an analytical tool and procedures to capture and accurately measure commercial losses. The current indication is that EDM commercial losses are 27%. The immediate and critical value of the tool is that it enables EDM to understand the source and magnitude of its commercial losses, which is a key starting point in working towards the set target of reducing the commercial losses by 2% per year in the next five years. During the development of the tool and procedures, SAEP conducted a number of workshops with EDM staff engaged in commercial loss reduction.

Given the completion of Phase I, SAEP and EDM held a kick-off meeting for the next stage in reducing commercial loss. The objectives of Phase II are to build on gains made during Phase I by i) improving the loss data analytics team's technical capacity and ii) supporting EDM to create an organizational culture that is committed to reducing commercial losses using the methodologies developed in Phase I.

EDM Executive Board Director (Commercial, Distribution and IT), Francisco Inroga, expressed enthusiasm about starting this follow-on phase and thanked SAEP for the work concluded in Phase I. The EDM BoD communicated that the utility has universally adopted the analytics loss reduction tool.

NAMIBIA

▪ **City of Windhoek (CoW) Revenue Management**

The CoW requested support from SAEP to improve its revenue management. This improvement is expected to take place through the conversion (i.e., replacement) of postpaid water (57,000) and electricity (24,000) meters with prepaid meters. The request is for SAEP to develop a financial model similar to the one that SAEP developed for the CoW peri-urban electrification. SAEP developed an SOW focused on the model development, which the CoW reviewed and approved. SAEP also prepared and submitted a data request to initiate model development process. Further meetings are planned in Q2 to seek responses to the data request and further refine the model design based on an internal model developed by CoW. After finalizing these meetings, SAEP will commence with the full implementation of model development. SAEP expects to finalize the financial model within three months of the CoW providing the required data to SAEP.

SOUTH AFRICA

▪ **SALGA Electrification PMO Capacity Building**

SAEP successfully delivered Electrification PMO training to South African municipalities in December 2021. The training focused on the key challenges in the project management cycle that municipalities currently face with their electrification projects. SAEP and SALGA identified the specific challenges during discussions with selected municipalities before the workshop. On average, around 50 municipal officials from 20 municipalities attended the sessions. This capacity building initiative resulted from SAEP's collaboration with SALGA and is one of a series of training topics being offered to improve municipalities' abilities to manage customer connections and enhance the skills of the energy professionals within these municipalities. SALGA expressed gratitude to the SAEP presenters for their time, and insight on the problems municipalities face while managing electrification projects. Due to an unforeseen occurrence, the supply chain management section of the training program could not be delivered. This has now been planned for delivery on 1 February 2022.

SAEP and SALGA have begun preparing engagements for the next stage of their collaboration, which will focus on working with three municipalities to address their most pressing concerns. The solutions and recommendations derived from this direct interaction will be put into the "Municipality-Specific Electrification PMO Application Toolbox", which will supplement the pre-training reading and training material.

▪ **SALGA Revenue Management Capacity Building**

SAEP also completed five training sessions on revenue management topics to municipal officials. The program drew about 90 officials from 30 municipalities. SAEP addressed the reduction of non-technical losses, meter readings, prepaid and vending management, invoicing, cash inflow management and credit and collections, among other

topics. The training was interactive and allowed participants to apply their learnings and share experiences by working on case studies in small breakout groups and then reporting back to the broader group of participants.

SALGA requested that SAEP conducts the training in person for a Gauteng-based municipality, Emfuleni Local Municipality, whose officials were unable to attend the virtual training due to technological challenges. SAEP will conduct the training in Q2.

2.2.3 ACTIVITIES AND RESULTS

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.02.05.01.MOZ*	EDM Commercial Loss Reduction Phase II – Assessment and Mitigation	Wayne Mikutowicz Tea Mihalj Jose Cavaretti	10/01/2021–07/29/2022	EDM request	Y4.02.05.01.MOZ	<ul style="list-style-type: none"> A functional specification for the EDM losses data extract Report required by the EDM analytics team obtained from the commercial and prepaid vending systems. This specification must be provided to EDMs system vendor to configure Principles and guidelines for developing the yearly loss reduction plan that guides all the loss reduction and loss analytics team's actions for the year Workshop with EDM team SAEP final report on the activity (internal) 	In progress: SAEP held kick off meeting with EDM team and an initial workshop with the EDM Analytics team, aimed to develop functional specs for Commercial Management System
Y5.02.05.02.NAM	Financial Modelling Support to the City of Windhoek to Convert Customers to Prepaid Meters	Wayne Mikutowicz	01/01/2022–07/29/2022	City of Windhoek Request	N/A	<ul style="list-style-type: none"> Financial model to support conversion of electricity and water customers to prepaid meters, thereby reducing operating losses 	In progress: Meeting held with CoW financial and technical specialist to review SOW. SAEP prepared the data request and shared with COW for their perusal. Additional preparatory meeting was held with the financial specialist to review CoW model.
Y5.02.08.01.REG*	Disseminate of the Credit Rating White Paper (CRWP)	Wayne Mikutowicz Tea Mihalj Izak du Plessis	01/17/2022 – 03/31/2022	Requested by USAID	OC5	<ul style="list-style-type: none"> Report released Webinar to engage utilities and regulators to present and discuss the credit rating whitepaper 	In progress: CRWP draft internally approved. Additional case studies are being prepared. The webinar is scheduled for 2 February 2022 and SAEP issued a save-the-date to Southern Africa utilities' CEOs and Financial Directors.
Y5.02.09.02.MOZ*	EDM HCD Customer Experience Implementation	Wayne Mikutowicz Tea Mihalj Rui Alves	01/03/2022-04/29/2022	SAEP initiative	Y4.02.09.05.MOZ	<ul style="list-style-type: none"> Report outlining the needs and challenges of the communities targeted for electrification and evaluations of solutions adopted by EDM to successfully implement them Workshop/capacity building on the central community engagement with commercial directorates Communication and training program designed to promote connections and use of energy by 	In progress: Pilots were completed and the solutions' implementation commenced with a meeting of the EDM Regional Directors. Subsequent training commenced with all EDM delegations' appointees for each of the solutions.

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> the targeted communities SAEP final report on the activity (internal) 	
Y5.02.09.03.ANG*	ENDE bid evaluation support for AfDB ESEEP-I program	Wayne Mikutowicz Tea Mihić Rui Alves	10/01/2021 – 06/30/2022	ENDE request	Y4.02.09.01.ANG	<ul style="list-style-type: none"> Report communicating the activities where SAEP provided support to ENDE to enable and guide timely execution of all procurement-related activities and compliance to the AfDB requirements Technical support: end-state metering and revenue protection solutions designed (ICT, processes) Workshops with PIU teams to prepare the distribution and commercial local areas to provide the subcontractors the required detailed electrification and connection data/plans SAEP final report on the activity (internal) 	In progress: SAEP continued supporting ENDE with the three procurement packages under AfDB program: 1) Systems Tender - 2-stage RFP procurement: On 28 December 2021, ENDE received three proposals from the six shortlisted bidders. ENDE evaluation team commenced with the proposals' evaluations (Stage 1 – technical evaluations). 2) ENDE completed the pre-qualification stage of the Prepaid metering tender and submitted the Evaluation report to AfDB for No Objection (NO), 3) On EPC Supervision Consulting tender ENDE submitted the Request for Expression of Interest (Eoi) with the TOR to AfDB for NO. Furthermore, AfDB approved the revised procurement plan after an alignment meeting between the parties.
Y5.02.09.04.ANG*	Support to ENDE for the World Bank Program	Wayne Mikutowicz Tea Mihić Rui Alves	10/01/2021 – 03/31/2022	ENDE request	Y4.02.09.03.ANG	<ul style="list-style-type: none"> Report communicating the activities where SAEP provided support to ENDE to enable and guide timely execution of all procurement related activities and compliance to the World Bank requirements Technical support - end-state metering and revenue protection solutions designed (ICT, processes) Workshops with PIU teams to prepare the distribution and commercial local areas to provide the subcontractors the required detailed electrification and connection data/plans for the HV, MV and high-consumption LV customers SAEP final report on the activity (internal) 	In progress: The Ministry of Energy and Water (MINEA) Project Coordination Unit (PCU) submitted the ENDE prepared Request for Bids (RFB) document and the accompanying specifications to WB for comment, and the parties are awaiting a meeting confirmation with the WB team. SAEP supported ENDE with the preparation of the RFB.
Y5.02.09.08.RSA*	SALGA Electrification PMO Capacity Building	Wayne Mikutowicz, Nachi Majoe	10/01/2021 – 3/31/2022	SALGA request	OC5	<ul style="list-style-type: none"> Facilitated training and training materials Close-out Report A list of 3 municipalities and the key challenges that SAEP will give follow-on assistance to resolve 	In progress: SAEP and SALGA conducted high-level "as-is" assessments with selected municipalities, which were used as a basis to prepare the training material. The training took place on 1, and 2 December 2021, with approximately 51 participants from 21 municipalities attending the sessions. Task 3 also commenced, which will

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							focus on three municipalities and SAEP working directly with them to address their key challenges.
Y5.02.09.09.RSA*	SALGA Revenue Management Capacity Building	Wayne Mikutowicz Tea Mihic	10/01/2021 03/31/2022	SALGA request	OC5	<ul style="list-style-type: none"> Pre-workshop reading pack Training materials and handouts Documented workshop outcomes Revenue management guidance document (An updated high-level guidance document on revenue management and the reduction of non-technical losses that incorporates local context) SAEP final report on the activity (internal) 	In progress: SAEP concluded five training sessions on revenue management between September and November 2021. On average, 57 participants from 23 municipalities attended each session.

2.3 OUTCOME 3: IMPROVED REGIONAL HARMONIZATION AND CROSS-BORDER TRADE

2.3.1 STAKEHOLDER ENGAGEMENT

During Q1 of FY22, the SAEP Outcome 3 (OC3) team continued to work with regional and national-level stakeholders to improve regional harmonization, cross-border trade and transmission with an increased focus on Angola. Key stakeholder support activities under OC3 for this quarter included:

- Providing technical advice to Angola's transmission company, RNT, in implementing the AfDB-funded 343 km 400 kV transmission line project that will interconnect central and southern Angola. The key focus areas were finalizing the OE procurement, relaunching the resettlement action plan (RAP) consultant tender, advancing the recruitment of the specialist consultants (engineering, environmental, social safeguards, procurement, gender, project management and financial management) and updating the RNT/ENDE procurement plan
- As part of the Regional Transmission Infrastructure Financing Facility (RTIFF) Oversight Task Team, advising SAPP on the first working draft of the RTIFF Institutional Blueprint
- Monitoring progress of the Temane Transmission Project (TTP), which is now in construction phase
- Finalizing all training reports and assessments for the rollout of the SAPP Generic Production Optimization model training as part of the activity closeout

2.3.2 COUNTRY AND REGIONAL HIGHLIGHTS

ANGOLA

- Operationalizing RNT's PIU to Advance the ESEEP Phase I Transmission Project**

During this quarter, SAEP continued to support Angola's transmission company, RNT, as they continued to advance a new transmission infrastructure project. SAEP specifically supported RNT in operationalizing and establishing a PIU. The successful functioning of the PIU is critical in assisting RNT to manage the development of the AfDB-funded Central-South transmission system between Huambo and Lubango. In Q1, SAEP recruited a procurement specialist based in Luanda to offer RNT in-person support and skills transfer. The procurement specialist is also assisting the RNT project coordinator with overall project coordination. During the reporting period, SAEP started to develop a transition plan for RNT. The document is a detailed project plan that outlines tasks, procedures and documents to be handed over to RNT as SAEP concludes its assistance. The plan will also serve as a guide for the individual consultants (Project Management, Financial Management, Senior Engineering,

OC3 Top Achievements and Results

- Supported RNT to advance critical procurement processes, including the finalization of the recruitment of the OE consultant, relaunch of the RAP implementation procurement process, and continuation of the recruitment of the individual specialists
- Assisted RNT to update the procurement plan to reflect adjusted dates and the new procurement method for the RAP consultant
- Assisted RNT to finalize the evaluation report for the procurement of the Gove Menongue feasibility studies consultant
- Supported RNT to draft and submit the TOR and the request for EoI for the monitoring & supervision (M&S) consultant procurement
- Assisted RNT to review the preliminary designs for both the transmission line and the substations leading up to the handover process with the OE
- The *Central Termica de Temane* (CTT) reached FC on 8 December 2021 and the notice-to-proceed for the contractor is expected for mid-January 2022. The CTT will evacuate electricity through the TTP to southern Mozambique

Procurement, Senior Engineering, Environmental, Social Safeguards and Gender Specialists), who will be coming in to fill the skills gap within RNT and advance delivery. The aim is to have a finalized and approved version by mid-January 2022.

An overview of key events and outcomes from Q1 is detailed below.

- Under general project management, SAEP assisted the RNT PIU to:
 - Enhance internal reporting of project related activities/tasks. Each discipline (engineering, environmental & social, procurement, finance, power systems planning, legal and project coordinator office) updates its monthly report with set tasks and required actions and reports back to the wider PIU team during the monthly team calls between RNT and SAEP
 - Develop the 2022 master PIU work plan, detailing project timelines and key milestones for 2022 to adhere to the overall project timeline with minimal or no risks. The project delivery's key goal is to ensure that the date of completion does not change from the 2024 target – this is one of the mandates given to RNT by the government. This document aligns with the updated procurement plan
 - Advance the domain and Microsoft Teams account renewal process with a South African Internet Service Provider (ISP). RNT struggled to solicit a credible Angolan company that could take over managing the account and providing general IT support. MS Teams/SharePoint is the platform where the PIU official data room has been set up and is also the space where all project related document collaborations are executed. RNT will process payment for the subscription renewal through the AfDB's special account
 - Proactively update the risks and issues registers for the different PIU sections during the respective weekly technical sessions
- Under recruitment of staff and procurement of services, SAEP assisted the RNT PIU to:
 - Procure the OE following the AfDB's NO to the combined evaluation report and the draft contract on 25 October 2021. The selected consultant, a consortium between Colenco Consulting Limited (based in Nigeria) and Decon International (based in Germany), signed the contract on 26 November 2021 and began work on 30 December. The contract duration is 10 months and the OE's main tasks include developing the bidding documents for EPC contractor procurement and reviewing the preliminary designs and technical specifications for both substations and transmission line
 - Update the procurement plan by amending key dates and changing the procurement method for the RAP consultant. Before resubmission back to the AfDB for NO consideration, the AfDB requested to have a working session to discuss the changes and provide any pending clarifications to avoid delays. During the session on 13 December 2021, the AfDB:
 - Indicated that the contracting of the M&S consultant (the consultant who will be reviewing the final designs prepared by the OE in preparation of their supervisory role when construction commences) should be pushed forward to occur within the period of the OE contract (which has a validity of 10 months)
 - Suggested shortening the M&S consultant's design review period currently estimated for 6 months starting December 2022
 - Committed to providing feedback on the EPC prequalification report during the first quarter of 2022
 - Finalize the evaluation report for consulting services to conduct a feasibility study for the Gove-Menongue transmission project and submit the report to the AfDB on 26 November 2021 for NO consideration
 - Update and finalize both the TOR and REOI for the monitoring & supervision consultant. Both documents were submitted to the AfDB for NO consideration on 15 November 2021
 - Finalize the evaluation report for the procurement of the external auditor, which was a joint exercise with ENDE. The evaluation report was submitted to the AfDB for NO consideration on 4 November 2021
 - Launch the bid for IT equipment on 16 October 2021 with a public opening scheduled for 1 December 2021. Furthermore, SAEP conducted a bid opening training session with the RNT team on 29 November 2021, in preparation of the bid submissions by the interested service providers. RNT is currently evaluating submissions
 - Advance the recruitment of five individual consultants who will provide hands-on support to the RNT PIU. The following are the major updates from Q1:
 - Procurement Specialist: RNT updated the evaluation report based on the AfDB's comments and will resubmit it to the AfDB in Q2 for NO
 - Financial Specialist: The AfDB provided feedback and comments to the evaluation report, which RNT (with the assistance of SAEP), managed to address and resubmit to the AfDB for NO consideration in November 2021. RNT are currently waiting for the NO consideration from the AfDB
 - Social Specialist: Following the launch of the REOI in the local Angolan press and the AfDB website, RNT received a few responses from interested applicants. RNT are still deliberating with the AfDB on whether to further extend the deadline or republish the REOI
 - Environmental Specialist: This is currently not a priority activity according to RNT and as such recruitment process will begin in Q2
 - Project Manager: RNT is drafting the TOR and SAEP will assist with finalizing in Q2
 - Senior Engineering Specialist: SAEP assisted RNT to develop the TOR and REOI, which were both concluded on 12 November 2021. The next step is for RNT to submit to the AfDB for NO consideration
 - Gender Specialist: SAEP assisted RNT with the development of the TOR
- Under engineering, SAEP assisted the RNT PIU to:

- Finalize the review and update process of the preliminary designs and technical specifications for both substations and the transmission line. This included additional preparations of all the technical documentation needed by the OE consultant to successfully complete its tasks and avoid any issues or risks. This process was concluded on 30 November 2021
- Under training/skills development, SAEP:
 - Continued with the skills gap assessment study focused on the RNT PIU engineering team to identify gaps requiring capacity building. After the RNT engineers carried out individual interviews with SAEP as part of the study, in Q1, SAEP continued with the technical working sessions covering some technical topics for both substation and transmission line designs

MALAWI

▪ Malawi–Mozambique Interconnector

ESCOM is preparing to deploy the Mozambique–Malawi Regional Interconnector Project, a 1,000 MW capacity, 400 kV project that will connect the transmission systems in Mozambique and Malawi, allowing the two countries to engage in bilateral and regional power trade in the SAPP. The project reached FC in July 2020 and, as previously reported, SAEP received the signed FC claim letter from ESCOM Malawi in February 2021. The letter acknowledges SAEP's role in training ESCOM engineers to operate in an interconnected system. Phase 2 of SAEP's training activity entails site visits to the National Control Centers of two operating member countries and the SAPP Coordination Centre Head Office for the ESCOM engineers who attended the Year 4 training. Due to COVID-19 travel restrictions, this activity could not take place in Q1. SAEP anticipates the easing of travel restrictions in the next quarter, allowing the activity to proceed. During Q1, the interconnector project reported the following progress:

- ESCOM has awarded key contracts for the construction of the interconnector and Matambo substation (in Malawi) as part of the MOMA interconnector project
- The transmission line and expansion of the Phombeya substation will be built by SinoHydro of China, with both projects being managed by Gopa Intec International of Germany
- The expected completion date is October 2023
- A joint PIU has been set up, which is made up of staff from EDM (Mozambique) and ESCOM (Malawi)
- The World Bank, the European Union through KfW, and the Malawian government through ESCOM are funding the MOMA interconnector project at a cost of USD \$127 million

MOZAMBIQUE

▪ Temane Transmission Project (TTP)

SAEP continues to track the TTP's construction progress after it reached FC in December 2020. In Q1, the TTP made good progress. This includes the conclusion of factory acceptance tests, tower type tests and the arrival of construction material shipments such as transmission line conductors. The transmission line contractor started with the tower foundation works on 2 November 2021. The construction of the resettlement houses is expected to start in January 2022 as detailed designs for these were initiated in early November 2021.

TTP recruited a communications manager who will be responsible for all media and project stakeholder engagements. During an introductory meeting with SAEP, the communications manager agreed to add SAEP to the distribution list for all TTP project related information releases and events.

Another milestone related to the TTP occurred in Q1, when the 450 MW gas-fired CTT reached FC. The CTT will deliver electricity from power plants at Temane in the north to the nation's capital, Maputo, in the south via the TTP transmission line. The CCT gas-fired power plant and TTP transmission infrastructure form a key part of Mozambique's national transmission backbone, facilitating a reliable electricity supply and improving energy access.

REGIONAL

▪ Support to SAPP

○ The Regional Transmission Infrastructure Funding Facility (RTIFF)

SAEP continues to advise and support SAPP as their consultant, Pegasys (supported by Zutari and Cliffe Dekker Hofmeyr), advances the development of the RTIFF – a priority SAPP initiative to help address funding challenges for transmission interconnectors across the SADC region. Previously, SAEP reviewed the RTIFF institutional blueprint, RTIFF financial business model and the TOR for the Phase 2 development of the facility and submitted advisory notes, including technical and financial comments, to SAPP. In Q1, SAPP kickstarted Phase 2 which entails i) modifying the financial model on a project-by-project basis; ii) developing the final list of priority projects and iii) finalizing the first version of the RTIFF institutional blueprint. SAEP was also inducted into the RTIFF Oversight Committee, a special technical group tasked with reviewing all work being done by the consultants and providing guidance to SAPP.

○ SAPP General Production Optimization Tool

SAEP adapted the production optimization tool, initially developed for ESCOM in Malawi, into a generic model for SAPP member utilities to improve short- and medium-term demand forecasting and production optimization. This will help build utilities' planning capability towards enhancing regional harmonization and cross-border trade. In Year 4, SAEP developed a training plan and materials and facilitated training for a select group of planning engineers from the SAPP region in July and August 2021. Overall feedback from the

attendees was positive with some utilities already using the model. During Q1, SAEP finalized all training documents, closing out the activity. In Year 5, SAEP will focus on maintaining the model and providing technical support as needed to the SAPP members utilizing the model.

2.3.3 ACTIVITIES AND RESULTS

Activity No	Activity Title	SAEP Activity Manager(s)	Start–End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.03.01.01.REG	Prepare SAEP report for SADC ETG meetings	Willem Theron, Keith Katyora	10/01/2021 – 09/30/2022	USAID request	OC1, OC2, OC5	<ul style="list-style-type: none"> SAEP presentation to ETG 	In progress: SAEP attended the ETG meeting that was held on 25 October 2021, during which the program presented status updates on all activities focusing primarily on the activities with significant regional impact
Y5.03.04.01.ANG*	RNT PIU Procurement Support for the Central–South 400 kV transmission Project	Carla Sousa	10/01/2021 – 09/30/2022	USAID, RNT and AfDB request	OC1, OC3 and OC4	<ul style="list-style-type: none"> Appointed OE consultant Appointed consultant to do the feasibility studies for the Gove-Menongue transmission line Appointed M&S Consultant Appointed RAP Consultant Appointed External Financial Auditor Appointed External Auditor for ESMS and ESMP Approved procedure to procure IT equipment Procurement of office space and furniture Procurement of Software Procurement of official translator Procurement of the Senior Engineering Specialist Procurement of the five Individual Specialists (Environmental, Social, Project Management, Procurement and Financial Management) Bidding documents for the EPC procurement 	In progress: During this quarter, the following was advanced under procurement: finalization of the procurement process for the OE consultant; procurement of the individual consultants (Project Management, Financial Management, Environment, Social Safeguards, Procurement, Senior Engineering and Gender Specialists); update of the new version of the Procurement Plan; procurement of the Monitoring & Supervision consultant, translations services, IT equipment, office rental, external auditor and Gove Menongue feasibility studies report
Y5.03.04.02.ANG*	RNT PIU Project Coordinator’s Office Support for the Central–South 400 kV transmission Project	Willem Theron, Carla Sousa	10/01/2021 – 03/31/2022	SAEP Initiative	OC1, OC3 and OC4	<ul style="list-style-type: none"> Skills and knowledge transfer workshops Ongoing support through participation in the weekly project coordinator office meetings and monthly all RNT PIU team meetings Monthly report on assistance provided to the RNT PIU Management of activities and support to the RNT PIU coordinator 	In progress: The main activities advanced during this quarter include the following: update and monitoring of the risk and issues register; development of the RNT Transition Plan; coordination of the monthly team meetings; and assisting RNT with the coordination of the AfDB-RNT Monthly meetings
Y5.03.04.03.ANG*	RNT PIU Environmental Advisory and	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice and compliance		<ul style="list-style-type: none"> Assistance in developing the project manual, 	In progress: Advised RNT to develop a complaints register and stakeholder

Activity No	Activity Title	SAEP Activity Manager(s)	Start–End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
	Assistance for the Central–South 400 kV transmission Project			with International Financial institutes operational safeguards		<p>ESMS, AfDB quarterly compliance reports and documents needed to recruit the EPC contractor, M&S consultant, the RAP implementation consultant, the E&S budget and capacity building plan</p> <ul style="list-style-type: none"> Advise on the evaluation process in the recruitment of the OE, the EPC contractor, the RAP implementation consultant and the M&S consultants Assist with review of all the specific management plans developed by the OE and the gender mitigation framework Assist RNT with the first environmental and social project audit Assist RNT with the recruitment of the environmental auditor and the environmental and social safeguards specialists Provide high-level training and workshops on the ESMP conditions and any specific items that may require engagement and capacity building 	tracker, review of the terms of reference for the procurement of the Resettlement Action Plan (RAP) Implementation Consultant, updated the RNT monthly action trackers and developed the terms of reference for the Environmental Auditor; assisted in updating the RNT PIU master work plan and contributed to several internal trackers to advance and track environmental and social aspects of the PIU work; held weekly progress meetings with the RNT PIU Environmental and Social team to keep the team on track ;supported the SAEP gender team in developing the gender mitigation framework.
Y5.03.04.04.ANG*	RNT PIU Engineering Support for the Central–South 400kV transmission Project	Keith Katyora, Rui Morgado, Pedro Machado	10/01/2021 – 09/30/2022	USAID, RNT and AfDB request	OC1, OC3 and OC4	<ul style="list-style-type: none"> Input to Enterprise Management System Software procurement Report of the single line diagrams for the overhead lines and substations (basic, conceptual, and preliminary designs) Report on all comments provided to procurement documents Monthly summary report of all engineering related activities Engineering work plan to track all deliverables and actions before the commencement of work by the OE consultant 	In progress: During this reporting period, the main activities were the finalization of the reviews of the preliminary designs for the transmission line and the substations; this has also included the preparation of all other handover documents for the OE assignment SAEP engineering team assisted RNT with coordination the official OE kickoff meeting which was held on 30 December 2021. Part of this assistance also included providing project related technical clarifications which the OE Consultant had, and further discussing the status of all preliminary designs that were available
Y5.03.05.01.REG*	Assistance to SAPP on the Regional Transmission Infrastructure Financing Facility (RTIFF) Phase 2	Willem Theron, Keith Katyora, Jason Alvarado, Colbye Prim	10/01/2021 – 09/30/2022	SAPP and World Bank request	N/A	<ul style="list-style-type: none"> Stakeholder engagement plan Written feedback on SAPP consultant's work 	In progress: During this reporting period, Phase 2 was kick-started, with the primary objectives including: modifications to the financial model on a project-by-project basis; the

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							development of the final list of priority projects; and the finalization of the first version of the RTIFF Institutional Blueprint. SAEP was inducted into the RTIFF Oversight Committee, a special technical group that aims to review all work being done by the consultants and provide advisory guidance to SAPP.

2.4 OUTCOME 4: RENEWABLE ENERGY AND ENERGY EFFICIENCY TECHNOLOGIES AND PRACTICES LOCALLY DEMONSTRATED AND SCALED

2.4.1 STAKEHOLDER ENGAGEMENT

In this quarter, the SAEP Outcome 4 (OC4) team continued to work with government entities to promote energy efficiency and private sector counterparts to move forward activities in the off-grid space. Key stakeholder support activities under OC4 for Q1 of FY22 included:

- Completing support to the Eswatini Water Services Corporation (EWSC) to implement the recommendations contained in the energy audit report developed by SAEP in 2019. During working sessions with the executive management and operational staff, SAEP reviewed EWSC’s energy management systems, delivered data management learning materials and identified operational sites with potential to yield the highest energy efficiency and cost gains
- Finalizing support to the Lusaka Water Supply and Sanitation Company (LWSC) by evaluating the impact of past energy efficiency audits, reviewing the effectiveness of energy efficiency structures and systems, enhancing corporate energy policies and strategies and the design of PV solar systems at the three main water treatment and pumping stations. The completion of the activity repositions LWSC for increased effectiveness in energy management and strengthens its preparedness to unlock finance for solar PV plants
- The Madagascar mini-grid development grant awardees made slow progress during the quarter, hampered by procurement and regulatory bottlenecks that were compounded by the impacts of the COVID-19 pandemic. SAEP continues to support the companies through the ongoing challenges and has helped revise delivery schedules
- One of the grantees, Yellow, took full advantage of the Kick-Starter support and was able to achieve the agreed targets well ahead of time. SAEP stepped up its diagnostics efforts to identify ways of ramping up sales and accelerating connections from other companies. Recognizing the adverse market environment, including the impact of the COVID-19 pandemic, SAEP extended the Kick-Starter period of performance to June 2022
- Socializing the draft final econometric study report and the implementation roadmap in Mozambique as a result of presentations and discussions with the Ministry of Mineral Resources and Energy (MIREME) technical committee. At the close of the quarter, efforts were underway to present the documents to the minister and the advisory council, who will take the lead in steering the proposals through the government

OC4 Top Achievements and Results

- Completed support to water utilities in Eswatini and Zambia focused on improved structures and systems for energy efficiency in water treatment and delivery
- Connected 43,731 households in Malawi to solar power, of which, 2,899 connections were through the SHS Kick-Starter grant program and connected 14,342 households in Mozambique and 45,144 households in Zambia through continued support to the SHS industry
- Released the Off-Grid Company Training Package for sales managers and field agents to help improve the efficiency and effectiveness of off-grid companies’ sales teams
- Assisted the Renewable Energy Industry Association of Malawi (REAIMA) in developing a task force to address VAT and import duties on SHS products

2.4.2 COUNTRY AND REGIONAL HIGHLIGHTS

ESWATINI

▪ EWSC Energy Efficiency Implementation Support

On 10 December 2021, SAEP gave the closeout presentation on energy efficiency implementation support to the EWSC. The presentation, attended by the EWSC Managing Director, Jabulile Mashwama, summarized the various activities completed to support the implementation of an improved energy management system. Key elements included: a gap analysis and review of the existing energy management system; data management training; an energy management system action plan and data management system; and a review of standard operating procedures (SOP). In 2019, SAEP had conducted an energy efficiency audit for EWSC. The energy audit report recommended changes to operational practices and performance monitoring to help EWSC realize energy savings and reduce energy costs. Additionally, the audit revealed the critical need for EWSC to install additional electrical meters to

better capture, report, and analyze energy consumption data. As a result of SAEP's support, EWSC installed electrical meters at 15 sites and reduced the number of days, from five to one, it takes EWSC to collect energy and power data. Additionally, SAEP's support has helped EWSC saved over 2.35 million kWh and USD \$200,000 from these measures in 2021 compared to 2019 benchmarks, while improving their efficiency (water output in m³/kWh) by 11 percent. SAEP's support to the EWSC was a continuation of a Year 4 activity. SAEP support to EWSC positions the utility to reap the benefits of improved energy management over time. These benefits will be a countervailing factor against water cost escalations to the consumer.

MADAGASCAR

▪ The Madagascar Mini-Grid Development Grant

During the quarter, SAEP continued to monitor and support the grantees – Autarsys Madagascar, *Hydro Ingenierie Etudes Et Realisations* (HIER) and Henri Fraise Fils & Cie (HFF) – as they advanced their projects under the Madagascar Mini-Grid Development Grant Program. Particular focus was given to HIER that is confronting an enormous unforeseen demand for customs and import duties on equipment procured to build its mini-grid. SAEP supported the company's efforts to mount an appeal for a waiver of the taxes. At the close of the quarter, the Malagasy government was yet to convey its decision on the matter. The issue arose out of a change in the regulations for duty exemptions on renewable energy products and, if maintained, the charges have the potential to render HIER's project unviable. Autarsys currently has one concession agreement in execution and two other concessions in development. Autarsys reports that they expect the solar PV panels for the two concessions in agreement to arrive in March after a six-month delay. HFF have begun conducting an environmental and social study on the village in which they have a contract with. HFF plans to complete the study in Q2 before they begin construction. SAEP instituted the Madagascar mini-grid grant program as a subsidy for mini-grid development in a country with one of the lowest access rates in the world. It is expected that Q2 will bring a positive outcome.

▪ Assistance to Madagascar's Industrial Sector Association with the Industrial Energy Efficiency Program

SAEP is working with the Malagasy industrial sector association, *Syndicat des Industries de Madagascar* (SIM), to implement an industrial energy efficiency pilot with two SIM member companies, Codal and Technopet. On 23 November 2021, SAEP conducted the first part of an energy efficiency audit at one of Technopet's facilities to identify or verify systems for upgrading to energy efficient alternatives. In late December 2021, Technopet informed SAEP that they sold all of their equipment after receiving an offer for it. As a result, Technopet plans to buy and install new, energy efficient equipment for this facility. SAEP plans to support Technopet in Q2 by reviewing their operating procedures, utility tariff and new equipment to identify how Technopet can operate their processes in a more efficient manner. Throughout Q1, SAEP attempted to contact Codal to establish a date to conduct an energy audit at their facility. SAEP plans to continue to coordinate with Codal to conduct an energy audit and develop an energy efficiency implementation plan.

▪ Baobab+ Sales Force Effectiveness Training

During this reporting period, SAEP continued to support the second phase of the sales force effectiveness (SFE) training program with Baobab+ focused on adapting the sales agent training to their mobile platform. The training aims to improve agents' sales efficiency, planning skills and sales pitches to improve sales. SAEP translated the training materials into French and shared with Baobab+ on 11 November 2021. Progress on this phase of work was delayed as a result of a change with Baobab+'s POC. SAEP met with the new Baobab+ POCs on 5 January 2022 and is awaiting their feedback on the training materials.

MALAWI

▪ Renewable Energy Industry Association of Malawi (REIAMA) Technical Assistance

SAEP assisted REIAMA to kick off and operationalize the VAT and Import Duty Task Force. The task force's goal is to support the off-grid sector to advocate for the consistent and correct application of VAT and import duty exemptions when importing renewable energy products. On 13 December 2021, SAEP co-hosted a task force kick-off meeting for REIAMA members to understand the main import challenges that members experience and finetune the strategic approach of the task force. The next steps, which SAEP will support in Q2, include developing an action plan to address these issues with regulatory authorities. Further, SAEP collaborated with the GIZ Energising Development (EnDev) program to develop a technical webinar series to be co-hosted with REIAMA that will engage members in discussions on lessons learned with other off-grid sector stakeholders. The webinars are planned to take place from Q2 to Q4. The goal is to enable greater collaboration and communication across the sector. Finally, SAEP worked with MAEVE, a local NGO that promotes fuel-efficient technologies in Malawi, to host business development trainings through the REIAMA platform as a part of REIAMA's membership offering.

▪ SHS Kick-Starter Program and Other Off-Grid Support for Malawi

SAEP continued with regular check-ins with the four SHS Kick-Starter grantees: SolarWorks!, VITALITE, Yellow, and Zuwa Energy, as well as other companies outside of the Kick-Starter grant, including SunnyMoney. With USAID approval, SAEP decided to extend the Kick-Starter grant period of performance to the end of June 2022 as SolarWorks!, VITALITE and Zuwa Energy have not yet achieved their Kick-Starter targets.

On 19 November 2021, SAEP met with Yellow Malawi's CFO, Ross Thompson, to discuss lessons learned from Yellow's time under the Kick-Starter grant program. Yellow achieved its sales targets under the grant in FY21 Q3

and SAEP sought to get feedback from Yellow’s experience regarding the effectiveness of the Kick-Starter and technical support. The results of this discussion, including specific feedback from Mr. Thompson, will be used as part of the Kick-Starter grant program summary document that will be released following the completion of the program.

SAEP released the Off-Grid Company Training Package for sales managers and field agents to help improve the efficiency and effectiveness of off-grid companies’ sales teams. The training package includes three sets of SFE training material – SFE training for managers, SFE train-the-trainer, and SFE training for agents – as well as the project management training module. Companies can utilize the material to improve sales force capabilities in the off-grid sector by equipping sales agents and supervisors with the organizational and sales execution abilities to increase sales. The training package can be downloaded [here](#).

▪ **350 MW Mpatamanga Hydropower Project Support**

SAEP continued to serve as the transaction advisor to the Mpatamanga Hydropower Project, which on 11 February 2020 launched the first competitive tender in Africa to identify a strategic sponsor to develop, finance and operate a large-scale hydropower project. Mpatamanga will add 350 MW of renewable energy to the country’s generation capacity, thereby diversifying Malawi’s energy profile with renewable energy and reducing its reliance on fossil fuel sources. SAEP’s transaction advisory team guides the procurement process and the diverse set of advisors supporting the Government of Malawi in this effort.

In Q1 of FY22, SAEP supported the government in evaluating the bid. SAEP established several working groups to focus on specific portions of the bid and identify issues that would need to be discussed between government and the bidder. SAEP worked with the working groups to complete the individual issues lists and coordinated with the Government of Malawi advisors to propose the negotiation position for each of the identified issues. SAEP then compiled a presentation to provide the government with a comprehensive overview of all issues and the advisors’ proposed responses. On 22 December 2021, SAEP presented the issues lists and responses to the Negotiations Committee during a full-day virtual workshop and further prepared the committee for the start of negotiations planned for February 2022. SAEP also worked with legal counsel who will lead the negotiation and finalization of the ancillary project agreements (including the Lease Agreement, Independent Engineer Agreement, Connection Agreements, ESCOM Direct Agreement, Implementation Agreement Direct Agreement and Government Foreign Investors Agreement).

MOZAMBIQUE

▪ **Implementation of Mozambique Fiscal Incentives for Solar Products to Improve Affordability**

In Q1, SAEP continued to work with BRILHO to socialize the econometric study on fiscal exemptions produced in Year 4 with key stakeholders. SAEP engaged with MIREME, ARENE and the Mozambique Energy Fund (FUNAE) in reviewing policy options and worked closely with USAID/Mozambique and other donor partners in enhancing the level of engagement from the government to advance the implementation of key policy reforms. To date, SAEP has gained buy-in for the implementation of these policy recommendations from the MIREME technical council and is preparing to present to the Minister’s Advisory Council in early Q2. These steps will enable MIREME to take ownership of the proposals and steer them through government for eventual approval and implementation.

In a parallel approach, SAEP, in partnership with BRILHO, also developed a directive that detailed the options for fiscal exemptions to improve SHS affordability to be shared with the Mozambican regulator, *Autoridade Reguladora de Energia* (ARENE) in Q2. SAEP and BRILHO agreed that this option would be the best approach because, when reviewed and approved by ARENE, this Directive will serve as an Interpretation of Solar Products in the current Class K of the Customs Tariff, and therefore does not require any change in the current text of the customs tariff to be implemented – allowing short term application for exemptions without a longer process. The regulator will submit the econometric study for corresponding approval to the MIREME minister alongside the off-grid legislative package that the BRILHO team was working on.

During the quarter, SAEP also updated the SOW to provide technical assistance to the newly formed FUNAE division focused on supporting private sector companies in the off-grid space. SAEP defined support activities with a direct link to connections that qualify for program attribution. The fund would channel funds and technical assistance to private players in the market to set up and scale activities.

▪ **Alten Battery Energy Storage Assessment**

SAEP is collaborating with an energy company based in Spain called *Alten Energias Renovables* (ALTEN) in assessing the viability of pairing battery storage with a 40 MWp solar PV plant in the north of Mozambique. The IPP is interested in pairing battery storage with its planned PV plant. The inclusion of battery storage could result in the company’s assets playing a more significant role in supporting peak demand and ancillary services. Throughout Q1, SAEP reviewed and updated the draft financial model and was finalizing a summary report on the model’s findings. The model will enable ALTEN to have informed discussions with EDM about the viability of adding batteries to their plant. SAEP plans to finalize and deliver the cost-benefit analysis and report with findings to Alten in Q2.

NAMIBIA

▪ **Follow-up Support to CENORED with Battery Storage**

SAEP is supporting CENORED with reviving its previous solar PV procurement action through SAEP modelling that looked at the added use of battery storage as either a bolt on or as a separate facility.

CENORED has identified six solar sites for consideration and intends to procure solar PV generated electricity from IPPs for the installation of solar PV grid-connected systems. In order to manage the variability from these potential renewable energy plants, CENORED has taken on board SAEP's recommendations and included the use of battery energy storage (BESS). This has now culminated in CENORED putting out an EoI that closed in June 2021 for a solar PV and battery energy storage system (BESS) procurement. SAEP assisted CENORED to develop the EoI and will continue to support the procurement through the next stages such as the RFP and draft PPA.

Following on the success of the June 2021 EoI, CENORED released the Okahandja EoI on 1 December 2021, which also had a battery storage component as a consequence of our SAEP's with CENORED. The EoI closed on 20 January 2022. SAEP will continue to monitor and support the process towards a competitive procurement conclusion and implementation.

- **Ministry of Mines and Energy (MME) Incandescent Lamp Phase-Out Activity – Follow-up Support**

Following a request from the MME to study the SADC mandate to phase out incandescent lamps, SAEP provided a high-level report with recommendations directing the MME to look at a natural phase-out supported by Customs and Excise in August 2020. xxx. As a result, the MME asked for further support from SAEP in facilitating a workshop to sensitize the MME's key stakeholders on the findings and recommendations of the SAEP report. The workshop sought to gather stakeholder views on how Customs and Excise can support the MME with up-to-date data on lighting imports to inform the MME's energy efficiency actions. SAEP shared a draft presentation on 22 November 2021 with the MME prior to the hybrid workshop on 13 December 2021. Participants included the SADC Center for Renewable Energy and Energy Efficiency (SACREEE), Namibia Energy Institute (NEI), the Namibian Standards Institution (NSI) and ErongoRED. SACREEE indicated at the workshop that the Energy Efficiency Lighting and Appliances in East and Southern Africa (EELA) Project welcomes SAEP's report findings and is willing to contribute to the SAEP recommendation for data collection enhancement. MME plans to reach out to the Namibia Revenue Agency (NAMRA) in January 2022 with support from SAEP and SACREEE.

- **City of Windhoek Peri-Urban Electrification**

SAEP is supporting the CoW in electrifying 40,000 peri-urban households in Windhoek. SAEP previously provided a number of actions that include financial modeling assistance and a development of a draft implementation plan to the city. The CoW is now seeking to take SAEP's recommendations on the peri-urban electrification process by approaching the CoW's ExCo and Council for funding strategy approval and structure. The CoW is still pursuing approval for a public-private partnership or "ring-fenced" approach as recommended by SAEP. As a result of the important work done looking at peri-urban electrification, CoW is now seeking SAEP support with a planned revenue management program that looks at replacing credit meters with prepaid meters that will both be funded through a "revolving" fund.

Due to a change in City leadership (in terms of needing a substantive Chief Executive) and a similar change within the Electricity Department on 30 November 2021 which has now been resolved, the CoW is reviewing their approach to the funding needs for both the electrification activity and the revenue management activity. The Electricity Executive has now (December 2021) returned to his post and so the POC has been re-established. The AfDB has been a part of the funding discussions and is still reviewing whether they will finance parts or all of this activity.

ZAMBIA

- **Zambia Operational Support to SHS Companies and Mini-Grid Developers**

SAEP continued to interact with SHS companies on a regular basis about the status of their operations. During regular check-ins with companies, including VITALITE, Engie Energy Access, Standard Microgrid, and SunnyMoney. SAEP discussed the challenges and opportunities that the SHS companies are facing, including supply chain delays and issues of currency fluctuation, as well as new pilot programs in clean cooking and productive use appliances, as well as basic company business planning. In response, SAEP continues to offer technical assistance through a variety of resources, including the Off-Grid Company Training Package for sales managers and field agents to help improve the efficiency and effectiveness of off-grid companies' sales teams; the RTM tool to support strategic company expansion; and in engagement with the donors to support additional financing, such as BGFA, which is expected in Q2, and improved advocacy with the government and enabling bodies through support to the SIAZ. Specifically, for companies interested in Productive Use Energy (PUE) projects, SAEP also offered assistance to review business plans and send examples of past PUE studies published by Power Africa.

In addition, SAEP interacted with a new company, Little Sun this quarter to provide technical assistance on their business plan in order to help them locate and position themselves appropriately for funding opportunities. SAEP continues to monitor each company's operations and offer ad-hoc technical assistance as requested.

- **Program Management Support to the Solar Industry Association of Zambia (SIAZ) and the Off-Grid Task Force (OGTF)**

In Q1, SAEP supported SIAZ, in coordination with GIZ's Green People's Energy (GPE) Program in Zambia, in promoting an updated constitution and election process that would enable an Executive Committee (ExCo) transition for greater continuity of SIAZ's operations. On 15 December 2021, SAEP co-hosted the December SIAZ members meeting with both the SIAZ ExCo and the GIZ program to present these changes to the broader membership. The agenda included an i) Overview of the constitution; ii) Discussion around the proposed updates to the SIAZ ExCo tenure and election process; and iii) Additional Secretariat support from the GPE program. In

Q2, SAEP will support the SIAZ ExCo in coordination with GIZ to vote on the constitution changes ahead of the 2022 ExCo elections and subsequently finalize the constitution and election process.

In parallel, SAEP continues to support the OGTF as Chair of the Consumer Affordability Subcommittee. SAEP hosted the first subcommittee meeting in October 2021 and presented the results from the Consumer Affordability Fact-base completed in Y4, which creates transparency on three dimensions for SHS market access and development: (i) SHS awareness and ownership, (ii) mobile phone usage, and (iii) household expenditure and willingness to pay for SHS. SAEP then opened the call for discussion on next steps and alignment across programs. In December 2021, SAEP also met the two new senior advisors, Professors Francis Yamba and Lloyd Chingambo, who will replace Sabera Khan in leading the OGTF in 2022. SAEP provided background on the support provided thus far to the OGTF and Consumer Affordability Subcommittee. SAEP and the senior advisors will continue to stay in touch as OGTF meetings are scheduled in the new year.

▪ Lusaka Water Supply and Sanitation Industrial Energy Efficiency

SAEP's support to the Lusaka Water Supply and Sanitation Company (LWSC) is a carry-over activity from Year 4. On 8 October 2021, SAEP presented to LWSC the progress of the utility's implementation of recommendations of earlier energy audits aimed at the optimal use of electricity for water abstraction, treatment and distribution. Reduced energy demand and the installation of autonomous renewable energy generation will help LWSC contain operation and maintenance (O&M) costs and expand access to potable water. Overall, SAEP found that LWSC has made some progress towards the implementation of the past audit recommendations, but the potential for efficiency gains remains high.

On 15 November 2021, SAEP delivered a report based on the solar PV workshop delivered on 31 August 2021. This report reviewed potential LWSC sites for solar PV, the financial viability of implementing solar PV and opportunities to reduce energy consumption from the grid and energy costs from the utility's volatile tariffs.

In December 2021, SAEP presented the closeout presentation summarizing all the activities and results from SAEP's assistance. The overview included the findings and results from SAEP's recommendations in implementing energy conservation measures, reviewing LWSC's energy policy, energy management system and energy strategy, reviewing LWSC's network model and SOPs and reviewing potential LWSC sites for development of solar PV to reduce energy consumption from the utility and reduce energy costs. SAEP's findings provided LWSC with recommendations to enhance their energy policy, implement new technologies to increase LWSC's ability to monitor energy consumption and reduce energy costs through load shifting. SAEP plans to deliver a final report on the activities in Q2 and will continue to provide light-touch monitoring to LWSC.

2.4.1 ACTIVITIES AND RESULTS

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.04.01.01.REG	Transaction Advisory services for SAEP transaction pipeline	Clarence Oelofse	10/01/2021 - 09/30/2022	SAEP Initiative		<ul style="list-style-type: none"> Power Africa Transaction Tracker (PATT) monthly updates 	In progress: See transactions section for details
Y5.04.01.02.MDG	Ad-hoc TTS for Energy Companies in Madagascar	Henri Randriamanana	10/01/2021 - 09/30/2022	SAEP Initiative	Y4.04.01.03.MDG	<ul style="list-style-type: none"> PATT monthly updates 	In progress: No activity in quarter I
Y5.04.01.03.MWI*	Transaction advisory services to GOM for Mpatamanga project	Jorry Mwenechanya	10/01/2021 – 06/30/2022	GoM and IFC Request	Y4.04.01.04.MWI	<ul style="list-style-type: none"> Finalized PPA and IA Appointment of a project sponsor PATT monthly update Quarterly reports 	In Progress: Assisted the Government of Malawi to prepare its position in negotiations with the preferred bidder of the strategic sponsor
Y5.04.01.04.NAM	TA to CENORED for procurement of energy from new solar plants	Clarence Oelofse	10/01/2021 – 06/30/2022	CENORED Request	Y4.04.01.02.NAM	<ul style="list-style-type: none"> Review and comments to procurement documents for final procurement round 	In Progress: SAEP tracked results of Eol plans to support development of draft RFP for CENORED
Y5.04.01.07.RSA*	Follow-on project finance support to SALGA municipalities	Clarence Oelofse	11/15/2021 – 3/31/2022	SALGA request	N/A	<ul style="list-style-type: none"> Customized financial modelling and / or support for tariff calculations Customized technical advisory support to build on initial assistance 	In Progress: Discussions between SAEP and City Power Johannesburg commenced in December 2021 as one of the first eight entities identified by SALGA. City Power needs to agree internally on how to position themselves prior to progression. They are conducting stakeholder consultations to identify

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							what assistance they need from SAEP.
Y5.04.03.01.NAM	Follow-up support to CENORED with battery storage	David Jarrett	10/01/2021 – 06/30/2022	CENORED Request	Y4.04.03.01.NAM	<ul style="list-style-type: none"> • Reports on support for (1) the RFP rounds; (2) negotiation of implementation agreements; (3) ad hoc engineering and transaction matters. • Comments on procurement documents for Eol procurement round 	<p>In Progress: CENORED is currently evaluating submissions received in response to the request for EOI. Following the evaluation, CENORED will distribute a request for proposal (RFP) to selected entities. The 10 MW Okahandja project was excluded from the original EOI request and thus, no submissions were received for Okahandja. In October 2021 CENORED decided to proceed to issue a request for EOI for Okahandja. SAEP again assisted CENORED with a review and comments of the draft. SAEP additionally drafted an "EOI Submission Template" to be issued with the request for EOI</p>
Y5.04.03.02.RSA*	SALGA: Assist municipalities to assess the viability of deploying battery storage and other new technologies in their systems	David MacPherson	10/01/2021 – 04/29/2022	SALGA Request	Y4.04.03.03.RSA	<ul style="list-style-type: none"> • A report on the viability of integrating battery storage technologies into municipal grids; example, techno-economic assessment model for assessing battery storage viability • Assessment of legal and regulatory environment for BESS in SA • Workshop for municipalities 	<p>In progress: Awaiting project kickoff date with SALGA, while awaiting kickoff SAEP has started development of the first report</p>
Y5.04.03.03.MWI	Monitoring and Evaluation, and supplementary support for ESCOM vRE integration	Jorry Mwenechanya	11/01/2021 – 05/15/2022	ESCOM Request	Y4.04.03.02.MWI	<ul style="list-style-type: none"> • Inception Report • Training plan • Revised network model • Training report 	<p>In progress: Kicked off coordination with ESCOM in Q1</p>
Y5.04.05.01.SWA	Ministry (MNRE) Energy Efficiency light-touch Action Plan Support	Jorry Mwenechanya	10/01/2021 – 09/30/2022	Ministry Request	Y4.04.05.02.SWA	<ul style="list-style-type: none"> • Final recommendation and progress report on adoption and implementation • Ad-hoc advisory memos to MNRE • Light-touch support as MNRE implements the new institution 	<p>In Progress: Supporting ministry to appoint an interim board for the Eswatini Agency for Sustainable Energy (EASE)</p>
Y5.04.05.02.ZMB	LWSC light-touch monitoring of implementation	Jorry Mwenechanya	10/01/2021 – 09/30/2022	LWSC request	Y4.04.05.06.ZMB	<ul style="list-style-type: none"> • Reports on the progress of implementation of (1) an improved energy management system; (2) revised standard operating procedures • Reports on financing and implementation of solar PV plants 	<p>In Progress: Final closeout workshop completed in Q1. SAEP plans to submit final report plans in Q2.</p>

Activity No	Activity Title	SAEP Activity Manager(s)	Start–End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> at the three main pumping sites. Quarterly report updates 	
Y5.04.05.03.SWA	EWSC light-touch monitoring of implementation	Jorry Mwenechanya	10/01/2021 – 09/30/2022	EWSC request	Y4.04.05.01.SWA	<ul style="list-style-type: none"> Quarterly report updates to track and monitor the implementation of recommendations from Years 3 and 4 	In Progress: Final closeout workshop completed in Q1. SAEP plans to submit final report plans in Q2.
Y5.04.05.04.MGD	Assistance to the Madagascar industry association (SIM) with Industrial Energy Efficiency Program Phase 2	Henri Randriamanana	10/01/2021 – 09/30/2022	SIM Request	Y4.04.05.05.MDG	<ul style="list-style-type: none"> Walk-through energy assessment reports Project proposals for funding 	In progress: : SAEP conducted energy audit with Technopet in Q1 and plans to conduct energy audit with Codal in Q2. Following energy audits review, SAEP will assist in developing project proposals in Q2 and Q3.
Y5.04.06.01.ZMB	Program Management Support to SIAZ and OGTF	Chris Mubemba	10/01/2021 – 09/30/2022	SIAZ Request	Y4.04.06.13.ZMB	<ul style="list-style-type: none"> Quarterly reports OGTF Subcommittee Action Plan Affordability initiatives and tools summary report 	In progress: SAEP supported the Solar Industry Association of Zambia (SIAZ), in coordination with GIZ's Green People's Energy (GPE) Program in Zambia, in the promotion of an updated constitution and election process that would enable a staggered Executive Committee (ExCo) transition for greater continuity of SIAZ operations. These changes will be formalized in Q2. SAEP also provided support to the Off-Grid Taskforce (OGTF) as Chair of the Consumer Affordability (CA) Subcommittee, hosting the first Subcommittee meeting in October 2021 to present the results from the Consumer Affordability Fact-base, completed in Y4. In December, SAEP also met the two new senior advisors, Professor Francis Yamba and Professor Lloyd Chingambo, both of whom will replace Ms. Sabera Khan, to lead the OGTF in 2022; SAEP will continue to stay in touch as OGTF meetings are scheduled in the new year
Y5.04.06.02.ZMB	Zambia Operational support to SHS companies and mini-grid developers	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.14.ZMB	<ul style="list-style-type: none"> Quarterly progress reports 	In progress: SAEP continues to check in on the status of SHS companies' operations on a regular basis. SAEP provided support to Little Sun to assist in their preparation for funding opportunities available in Zambia.
Y5.04.06.04.MWI	Malawi: Operational support for SHS Kick-Starter grant awardees and other SHS companies	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.06.MWI	<ul style="list-style-type: none"> Quarterly progress reports Final Impact Report 	In progress: SAEP continues to check in on the status of the companies' operations. The grant has been extended to June 2022 to support the remaining three companies that have not achieved their Kick-Starter targets –

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							SolarWorks!, VITALITE, and Zuwa Energy.
Y5.04.06.05.MWI	REIAMA technical assistance	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	REIAMA Request	N/A	<ul style="list-style-type: none"> • 2 SFE training completed; Training materials handover • REIAMA Strategic Plan Document • VAT/Import Duty Sensitization Training Materials; two VAT/Import Duty Sensitization Trainings completed 	In progress: The SAEP Team provided assistance to REIAMA, including supporting the kick-off of the VAT and Import Duty taskforce, hosting the first call with the taskforce members, and leading a discussion with REIAMA members on the challenges they face when importing renewable energy products. SAEP also collaborated with GIZ EnDev to prepare a concept note to co-host a series of webinars for REIAMA members to share lessons learned and interesting sector insights. Finally, the SAEP team collaborated with MAEVE, a local implementation partner in Malawi, to host business development training through REIAMA in January 2022.
Y5.04.06.10.MDG*	Madagascar mini-grid catalytic grant program	Henri Randriamanana	10/01/2021 – 06/30/2022	SAEP Initiative	Y4.04.06.04.MDG	<ul style="list-style-type: none"> • Status updates • Ad-hoc technical assistance • Periodic reports from grant awardees 	In Progress: HIER is confronting a substantial and unforeseen demand for customs and import duties on equipment procured to build its mini-grid. SAEP supported the company's efforts to mount an appeal for a waiver of the taxes. At the close of the quarter, the Malagasy government was yet to convey its decision on the matter. Autarsys currently has one concession agreement in execution and two other concessions in development. Autarsys reports that they expect the solar PV panels for the two concessions in agreement to arrive in March after a six-month delay. Henri Fraise Fills and Cie (HFF) has begun conducting an environmental and social study on the village in which they have a contract with. HFF plans to complete the study in Q2 before they begin construction.
Y5.04.06.11.MDG	Baobab+ Technical Assistance	Henri Randriamanana	10/01/2021 – 09/30/2022	Baobab+ Request	Y4.04.06.02.MDG	<ul style="list-style-type: none"> • Reports on support towards sustainable capacity building for sales force effectiveness. • Reports on ad hoc business development needs. • Quarterly progress reports 	In progress: SAEP continued to support the second phase of the sales force effectiveness (SFE) training program with Baobab+ focused on adapting the sales agent training to their mobile platform. SAEP translated the training materials into French and shared with Baobab+ in Q2. Progress on this phase of work was delayed as a result of a change with Baobab+'s POC. SAEP met with the new

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							Baobab+ POCs on 5 January 2022 and is awaiting their feedback on the training materials.
Y5.04.06.13.NAM	Provide follow-up assistance to the City of Windhoek - implementation of recommendations	David Jarrett	10/01/2021 – 09/30/2022	COW Request	Y4.04.06.01.NAM	<ul style="list-style-type: none"> Biweekly and quarterly reports 	<p>In progress: CoW is seeking SAEP support with a planned revenue management program to assess replacing credit meters with prepaid meters that will be funded through a “revolving” fund. Due to a change in leadership for the City Chief Executive and Chief Executive of the Electricity Department during most of Q1, the CoW is reviewing their approach to the funding needs for both the electrification activity and the revenue management activity. The AfDB has been a part of the funding discussions and is still reviewing whether they will finance parts or all of this activity.</p>
Y5.04.06.14.MOZ	Mozambique: Operational support to SHS companies, and mini- and micro-grid developers	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.08.MOZ	<ul style="list-style-type: none"> Quarterly progress reports 	<p>In progress: SAEP continues to check in on the status of SHS companies’ operations on a regular basis, including SolarWorks! and ENGIE Energy Access (formerly Fenix International). During Q1, SAEP provided support to SolarWorks! on financing productive use equipment and building a facility for these systems.</p>
Y5.04.06.15.MOZ	Support implementation of fiscal incentives for solar products to improve affordability	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SHS company request/ Continuation of previous USAID Program	Y4.04.06.09.MOZ	<ul style="list-style-type: none"> Quarterly progress reports on support provided Support to the government to operationalize the fiscal incentives implementation roadmap from Year 4 Support to the government during deliberations on incentives and roadmap expected to be finalized during the second quarter of Year 5 	<p>In progress: SAEP Team engaged with the Ministry of Mineral Resources and Energy (MIREME), ARENE, and FUNAE in a review of the econometric study developed with BRILHO in Y4 and worked closely with USAID/Mozambique to enhance the level of engagement from the government to advance the implementation of key policy reforms. In Q2, SAEP will continue to work with stakeholders in the country, including SHS companies, to enable authorities to use the updated econometric study to effect policy change – particularly, the application of the fiscal exemption to improve SHS affordability.</p>

2.5 OUTCOME 5: INCREASED HUMAN AND INSTITUTIONAL CAPACITY

2.5.1 STAKEHOLDER ENGAGEMENT

As a continuation from year four, OC5 worked on strategies to promote SAEP's learning programs and supported counterparts with their capacity building needs. Key activities under OC5 in Q1 of FY22 included:

- Working with SALGA to support municipalities with capacity building in revenue management and electrification project management
- Engaging the City of Johannesburg's electricity utility company, City Power, on the support SAEP can provide on approaches and required activities for entering into long-term PPAs with IPPs
- Consulted Mpumalanga municipalities on their capacity building needs including the Just Energy Transition in order to develop tailored assistance
- Engaged with the Development Bank of Southern Africa (DBSA) on a collaboration with SAEP to respond to the needs of South African municipalities and take advantage of the opportunity presented by the signing of the Power Africa Memorandum of Understanding (MoU)
- Helped RERA to identify and convene engagements with relevant stakeholders to support RERA's development of capacity building interventions in the region

OC5 Top Achievements and Results

- Trained approximately 106 municipal officials on revenue management and electrification PMO
- Advanced collaboration with regional institutions including SALGA, DBSA and RERA
- Publicly shared the Off-Grid Company Training Package through social media and a targeted email to off-grid companies

2.5.2 COUNTRY AND REGIONAL HIGHLIGHTS

REGIONAL

▪ Support to RERA

To assist RERA with identifying a learning institution to develop content for 11 training modules, SAEP coordinated engagements between RERA and four institutions: i) Energy Regulators Regional Association (ERRA), ii) Public Utility Research Centre (PURC), iii) Florence School of Regulation (FSR) and iv) the National Association of Regulatory Utility Commissioners (NARUC). SAEP developed an evaluation template for RERA to guide the selection of its preferred partner. The evaluation criteria for assessing the four proposals received are: price, and technical merit criteria, namely; skills and/or team composition, demonstrated experience and expertise and work plan/methodology/approach. The next step is for RERA to select the preferred learning institution that will develop and deliver the trainings. The expected impact once the trainings are developed and delivered is that member regulators will be equipped to deal with policy, economic, technical, legal, consumer oversight compliance and general management matters in the power sector.

SOUTH AFRICA

▪ SALGA Training Assistance

OC5 supported OC2 on the delivery of two trainings: Revenue Management and Electrification PMO. To develop the appropriate training material, OC5 distributed a pre-training evaluation to municipalities and engaged with select municipalities to ascertain their training expectations. OC5 focused on structuring the trainings in an interactive manner and utilized interactive tools such as *Mentimeter* and case study discussions in smaller breakout groups. This allowed learning, application of knowledge and sharing of experiences. Following the trainings, OC5 disseminated a post-training evaluation to determine the extent to which the trainings met set objectives and the level of improvement in the participants' knowledge and understanding of the topics covered.

As a continuation of the project finance training in Year 4, OC5 initiated discussions with City Power, about the support SAEP can provide on PPAs with IPPs. Another activity initiated is the Mpumalanga support program, which SAEP will provide in partnership with SALGA, to build the capacity of municipalities in the province to identify, develop and deliver power projects and ultimately increase connections and look into the appropriate approach to the Just Energy Transition (JET) – which is a shift from the current coal-powered energy system to one that is better in terms of sustainability, environmental impact, climate change, human health, economics, employment and social equity.

▪ Engagement with the DBSA on the DBSA/Power Africa MOU

Power Africa and DBSA renewed their MoU in November 2021. This enables the two institutions to collaborate on mutually beneficial programs. As a part of giving effect to this, SAEP and the DBSA have identified the DBSA run Embedded Generation Investment Program (EGIP) with a focus on South African municipalities as a key area of collaboration. SAEP and the DBSA are currently finalizing an LOC. The expected outcome of this is that municipalities will receive assistance in identifying and understanding new opportunities in the energy landscape. These could include the ability to reduce their electricity costs due to rising tariffs by procuring power from private developers and operators or exercising the option of developing their own generation assets.

KNOWLEDGE SHARING

▪ **Learning Guides and Training Products**

In an effort to share training material and knowledge products with the region, SAEP developed a training package for off-grid companies to guide their workforce through SFE training, coaching sessions and project management training. The package consists of a summary document that includes detailed descriptions of each template in the off-grid company training package. All templates are editable and can be tailored to meet a company's training context and needs. On 16 November 2021, SAEP shared the material with off-grid companies through a document release note and Power Africa published the package on its social media platforms.

▪ **SAEP Lessons Learned Webinar Series**

Over the past four years SAEP has learned valuable lessons and made an impact towards improving energy access and electrification in Southern Africa. During the fifth program year, SAEP will profile successes and lessons learned throughout the project life cycle through quarterly lessons learned webinars. These webinars aim to i) showcase SAEP's impact over the years, ii) create a platform for sharing of lessons and iii) create further opportunities for learning, exchange and reflection. In Q1, OC5 worked with outcomes in developing relevant topics and planning the implementation of webinars. The first webinar will be held on 18 January 2022 on the topic of Engaging Women as SHS Agents and Customers: Insights for Off-Grid Energy Companies.

2.5.3 ACTIVITIES AND RESULTS

Activity No	Activity Title	SAEP Activity Manager(s)	Start–End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.05.01.02.REG	Dissemination of Year 4 Learning Guides	Nachi Majoe	10/01/2021 - 08/31/2022	SAEP initiative	N/A	<ul style="list-style-type: none"> Upload of LGs onto regional institution websites Document releases 	In progress: SAEP developed a training package for off-grid companies to guide their workforce through SFE training, coaching sessions and project management training. On 16 November 2021, SAEP shared the material with off-grid companies through a document release note and Power Africa published the package on social media platforms.
Y5.05.01.03.REG	Quarterly Lessons Learned Webinars	Nachi Majoe	10/01/2021 - 09/30/2022	SAEP initiative	All Outcomes	<ul style="list-style-type: none"> Presentation materials for 4 events to disseminate lessons learned from SAEP 	In progress: OC5 worked with Outcomes in developing relevant topics and planning the implementation of webinars. The first webinar will be held on 18 January 2022 on the topic of Engaging Women as Solar Home System Agents and Customers: Insights for Off-Grid Energy Companies.
Y5.05.02.01.REG	Refresh and review of RERA training curriculum	Nachi Majoe	10/30/2021 - 08/31/2022	RERA Request	OCI	<ul style="list-style-type: none"> Review report and analysis for path forward 	In progress: SAEP coordinated engagements between RERA and four learning institutions and developed an evaluation criterion for RERA to guide the selection of its preferred partner.

2.6 PROGRAM MANAGEMENT OFFICE

As the program reaches its final year of implementation, SAEP continues to build on its existing relationships with regional partners. In this reporting quarter, the team's commitment and active engagement laid the foundation for long-term cooperation, coordination and information exchange with counterparts.

The PMO team continued to work with the various outcomes to meet the project's quarterly goals and contribute to Power Africa's goal of increasing electricity access in sub-Saharan Africa by adding more than 30,000 MW of electricity generation capacity and 60 million new connections by 2030. SAEP continued to communicate the Program's successes by developing promotional materials for events, outreach activities and social media platforms. Focus areas included increasing the Program's social media and alternative media (blog) presence, by creating short write-ups and blog posts on successes achieved, implementing processes for Program-specific communications and conveying impact from activity delivery.

The PMO also developed and submitted numerous program deliverables to USAID/Southern Africa and Power Africa during Q1. These deliverables include:

- **Biweekly Status Reports:** SAEP submitted biweekly reports throughout the quarter (October – December 2021). These biweekly reports provide biweekly program updates and are sent to the COR for SAEP program management purposes
- **FY21 Annual Progress Report:** USAID/Southern Africa approved the Year 4 Annual Progress Report on 6 December 2021
- **Success Stories:** SAEP drafted two success stories (*Advancing the Central–South Transmission Line Project* and *Saving Cost and Energy for Eswatini's Water Utility*) and submitted these for approval as part of this FY21 Annual Performance Report (refer to Appendix G)
- **FY21 EMMR:** The Environmental Monitoring and Mitigation Report (EMMR) is a USAID compliance report establishing the ADS 204.3 requirements for incorporating and monitoring appropriate mitigation measures integrated into all SAEP activities. USAID/Southern Africa approved the Year 4 EMMR on 6 December 2021
- **Development Information Solution (DIS) Report:** SAEP submits a DIS report to USAID/Southern Africa on a quarterly basis. This report aims to build a portfolio management system for USAID to facilitate evidence-based decision-making. The FY21Q4 data was uploaded to the USAID DIS online platform on 15 October 2021 and approved on 6 December 2021
- **Power Africa Information System (PAIS) Reporting:** PAIS is an online reporting platform for Power Africa implementing partners to submit quarterly data. SAEP updated the PAIS online platform with current data covering FY21Q4 on 15 October 2021
- **Power Africa Tracking Tool (PATT) Update:** PATT is an online platform that tracks all Power Africa transactions. SAEP provided regular updates to the PATT. The current status is 24 active transactions, 31 on hold and 0 proposed. Since the Program's start date, 34 transactions have reached FC and are not counted as part of the total transactions tracked by SAEP
- **Environmental Review Forms (ERFs):** The ERF is a USAID environmental compliance form that is required for all implemented activities. As of the end of FY21Q4, SAEP submitted all ERFs for Year 4 activities to USAID/Southern Africa for review and is awaiting approval

PMO Top Achievements and Results

- USAID/Southern Africa approved the SAEP's Year 4 Annual Performance Report on 6 December 2021
- USAID/Southern Africa approved the Environmental Management and Mitigation Report (EMMR) on 6 December 2021
- Power Africa published SAEP-developed social media content on various topics; Power Africa's weekly social media round-up indicated that the posts about the off-grid training package triggered the highest engagement rate and most impressions for the week

2.6.1 COMMUNICATIONS AND OUTREACH

The SAEP communications team supports the Program's messaging with external audiences through different platforms. In Q1 of Year 5, the communications team developed and disseminated innovative content and material to promote SAEP's work and enhance USAID and Power Africa's visibility across the region. The following are key outcomes from Q1:

- **Events**
 - Engaging Women as SHS Agents and Customers Webinar
 - Participated in a planning call with the off-grid team and OC5 to discuss hosting a webinar for off-grid companies about engaging women as SHS agents and customers. The communications developed and distributed a Save the Date on 13 December 2021 to off-grid energy companies in SAEP's focus countries. This webinar, planned for 18 January 2022, will be part of SAEP's quarterly lessons learned webinar series
 - Credit Rating White Paper Webinar
 - Supported OC2 in planning a webinar about the importance of credit ratings for utilities. The webinar is planned for 2 February 2021. The Communications team developed and distributed a Save the Date to utility CEOs and chief financial officers in SAEP's focus countries on 13 December 2021. The official invitation will follow in January 2022

USAID POWER AFRICA QUARTERLY WEBINAR SERIES
A platform for sharing lessons, learning and exchanging ideas with Southern Africa's energy sector

SAVE THE DATE: INVITATION ONLY EVENT
Tuesday, 18 January 2022
Engaging Women as Solar Home System Agents and Customers: Insights for Off-Grid Energy Companies

The USAID Southern Africa Energy Program (SAEP), a Power Africa initiative, will share results from an analysis on the outcomes associated with engaging women as solar home system (SHS) customers and sales agents. Join us for an engaging dialogue with off-grid panelists as they share what was discovered through the surveys and related insights for SHS company decision-making.

The analysis examined:

- Associations between SHS use and customer income, hours spent on household duties and entry into the formal labor market
- Differences in sales and approaches between male and female sales agents (e.g., hours spent working, methods of selling, distance traveled)

Join us to learn:

- Customer reported benefits of SHS ownership
- The importance of employing female sales agents
- The significance of having a management support structure in place to attract and retain male and female sales agents

Who is invited: Off-grid energy companies, though the discussion is open to anyone interested in learning more about gender dynamics in the off-grid energy sector

This webinar forms part of a learning series. Over the past four years, SAEP has learned valuable lessons and made an impact towards improving energy access and electrification in Southern Africa. SAEP is profiling our successes and learnings through topic-specific quarterly lessons learned webinars.

MORE DETAILS TO FOLLOW SOON

▪ **Success Stories**

- As part of SAEP’s contractual deliverables, drafted two success stories for Q1 titled: i) *Advancing the Central–South Transmission Line Project* and ii) *Saving Cost and Energy for Eswatini’s Water Utility*. Refer to Appendix G
- At Power Africa’s request, SAEP submitted five success stories for Power Africa’s 2021 Annual Report on 29 October 2021. The story focus areas and titles are:
 - Gender: Success stories from the grantees under the SHS Kick-Starter Program for Malawi,
 - Ending energy poverty: i) *SHS Kick-Starter Grant Impacts on the Lives of Malawians* and ii) *Support to Utility Connections in Angola and Mozambique*
 - Accelerating a carbon-free future: *Mpatamanga: Unlocking Malawi’s Renewable Energy Potential to Reduce Dependence on Diesel and Charcoal Burning*
 - Bolstering U.S. and African private sector innovation: *Construction of Malawi’s First Utility-Scale Solar-Plus-Storage Project is Nearing Completion (Golomoti)*
 - Enabling Environment: *Providing Relief for Eswatini Electricity Consumers and Transparency for Energy Investors*

▪ **Knowledge Products**

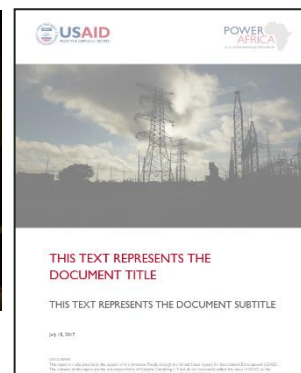
- Off-Grid Company Training Package
 - SAEP put together a training package for off-grid companies to guide their workforce through SFE training, coaching sessions and project management training. The package consists of a summary document that provides detailed descriptions of each template included in the off-grid company training package. The SFE training package was released on 16 November 2021 via a document release note to a target email list and Power Africa’s social media platforms



▪ **Other PR Materials**

SAEP Reporting and PowerPoint Presentation Templates

- Created new templates for SAEP reporting and presentation purposes. USAID approved the templates on 3 December 2021. The templates give the option of using a cover appropriate for the subject matter, for example, an image of transmission lines or SHS. The new templates relate to off-grid or on-grid topics.



SHS Kick-Starter Program for Malawi Milestone 9 Newsletter

- Developed the SHS Kick-Starter Program for Malawi Milestone 9 newsletter, which USAID approved on 17 December 2021. Once approved by USAID/Malawi, the newsletter will be distributed to the grantees under the Program, working capital providers and USAID/Malawi

▪ **Social Media**

Developed social media posts on the following topics:


- International Day of Rural Women, which went live on 15 October 2021
- Zuwa Energy SHS boosts business hours and revenue for female business owner in Malawi, which went live on 19 October 2021
- Training package for off-grid companies, which went live on 16 November 2021
- Malawi’s first solar power project going online, which went live on 19 November 2021
- The SHS Kick-Starter Program for Malawi connecting nearly 91,000 Malawian households to electricity, in celebration of World Television Day, which went live on 21 November 2021
- Mozambican and Malawian presidents launching the construction work for the Mozambique–Malawi interconnection project. These posts went live on 9 December 2021
- Scatec and OnePower signing agreements with the Government of Lesotho and the Lesotho Electricity Company to develop Lesotho’s first IPP solar plant. These posts went live on 15 December 2021




- Mozambique's *Central Térmica de Temane* (CTT) project reaching financial close, which went live on 20 December 2021

The Power Africa Social Media Weekly Round-Up showed positive feedback to the [Facebook post](#) and [Tweet about the SAEP-developed training package](#) for off-grid companies:

Post with the most impressions*



Tweet with highest engagement rate*



*Impressions: the number of times a post was displayed (i.e., someone seeing it in their feed).
*Engagement rate: a metric that shows how much people interacted with our content through likes, comments, shares, etc.

- **LinkedIn**
 - Updated the [SAEP LinkedIn page](#) on a regular basis by creating content for new posts and reposting or amplifying news. The LinkedIn page reached 4,400 followers by 30 December 2021. Content is frequently liked, celebrated and shared by followers
- **Fact Sheets**
 - Updated all SAEP country fact sheets and shared them with USAID for final review and approval on 29 November 2021
- **Copy Editing**
 - Continued to review and edit major deliverables in various publication forms for readability, spelling, grammar, accuracy, punctuation and consistency

2.6.2 PERFORMANCE MONITORING

The Program Performance Management function coordinates interconnected tasks from knowledge management services, monitoring and evaluation (M&E) and program management support tasks. These tasks include tracking and monitoring the performance of SAEP's activities, data management, archiving activity-related documents and deliverables, providing performance feedback that will enable evidence-based decision-making and reporting on various performance indicators. In this quarter, the performance monitoring team completed the following tasks:

- **Conducted a Virtual Data Quality Assessment (DQA):** SAEP conducted a virtual DQA with EDM in Mozambique on 28 October 2021 for all connections data submitted in Year 4. It is a USAID requirement to do continuous data verifications on the data reported to ensure the validity and accuracy of the data. Therefore, the purpose of the process was to verify and validate data that was previously reported to SAEP from October 2020 to September 2021. DQAs are a USAID requirement to validate the accuracy of the data reported in each given quarter
- **Assisted with survey development through SurveyMonkey:** Developed the following surveys for the Program:
 - SALGA project finance training post-training evaluation form
 - SALGA PMO electrification training (pre/post-training evaluation form)
 - SALGA revenue management training (attendance registers, pre/post-training evaluation form)
 - SAEP return to the office survey
 - EDM training on wildlife interaction (invitation questionnaire, pre/post-training evaluation form)
 - SALGA training on PPP approaches for power generation development
- **Verified the SHS Kick-Start Program for Malawi Data:** Verified the Milestone 10 data (covering the period 1 October 2021 to 31 December 2021) submitted by grantees under the Kick-Start program and confirmed the sales numbers reported by the grantees against each company's Customer Relationship Management (CRM) extract
- **Updated USAID Reporting Platforms:** Adhered to the USAID and Power Africa monthly and quarterly reporting requirements by collating and uploading the monthly/quarterly data and deliverables on the standard reporting platforms. The reporting platforms are listed below:
 - DIS – Development Information Solution (Quarterly Reporting)
 - PATT – Power Africa Transaction Tracker (Weekly, Monthly and Quarterly Reporting)
 - PAIS – Power Africa Information System (Quarterly Reporting)
 - TEAMS – Training & Exchanges Automated Management System (Quarterly Reporting)
- **Uploaded Deliverables on USAID Platforms:** SAEP reported 12 deliverables (10 reports and 2 Success

Stories) and uploaded them on the USAID Development Experience Clearinghouse (DEC)

2.6.3 GENDER INTEGRATION

In Q1 of Year 5, the SAEP gender team:

- **RNT Gender Mitigation Framework:** Finalized the TOR for a Senior Gender and Gender-Based Violence Specialist and sent it to the RNT PIU for comment. SAEP drafted the RNT Gender Action Plan (GAP) Implementation Guide and conducted the first GAP implementation training. The SAEP Gender Specialist presented the tools developed by SAEP, which form part of the Implementation Guide. RNT provided feedback to SAEP on the Implementation Guide in December 2021 and SAEP's Gender Specialist plans to host another training workshop on the guide in Q2.
- **SADC Gender Indicators:** On 2 December 2021, the SADC Energy Ministers approved the Gender Mainstreaming Baseline Report and SADC Energy Sector GAP. As a way forward, SAEP will be supporting the SADC Secretariat with developing and disseminating the implementation plan.
- **SHS Gender Surveys:** Collected insights into the implications of the purchase and use of SHS for women customers as well as the potential impact of female sales agents and managers on SHS company success. SAEP completed data collection via surveys. On 15 November 2021, USAID provided feedback on the SHS Gender Analysis. SAEP addressed USAID's comments and shared them back with USAID. On 13 December 2021, SAEP distributed a Save the Date for the 1st Quarterly Lessons Learned Webinar on the SHS Gender Analysis to share recommendations and findings from this analysis. The purpose of the event, which will take place on 18 January 2022, will be to help the grantees under the SHS Kick-Starter Program for Malawi and similar SHS companies shape their business operations and hiring process to be more gender-inclusive. SAEP is working to confirm speakers for the event.
- **RDG Collective Gender Action Plan:** In Year 4, SAEP assisted RDG Collective Zambia to develop a GAP and leading practices for developing a gender policy. RDG is a multinational, for-profit company that designs, manufactures, distributes and finances SHS. On 22 October 2021, SAEP finalized the proposed activities for Year 5 with RDG – including training on gender sensitization, training on HR/gender policies and support for female agent recruitment/retention. Further, SAEP introduced the RDG Collective Zambia CEO and Founder, Rune Gunnar Dige, to Yellow CFO Ross Thompson for them to share lessons learned around female sales agent recruitment and retention, a priority area for RDG and both parties agreed to stay in touch.
- **Southern African Research and Documentation Centre (SARDC) Virtual Conference:** On 11 November 2021, during a SARDC virtual conference, SAEP presented its gender work and resulting impact by showcasing a success story about a female SHS sales agent in Zambia who runs a shop and sells SHS. SAEP's session was titled: "Lighting the Way to Women's Economic Empowerment in Zambia" and the SAEP COP presented this session.

2.6.4 ENVIRONMENTAL MITIGATION AND MONITORING

During Q1 of Year 5, the SAEP Environmental Specialist completed the following:

- **Endangered Wildlife Trust (EWT) Energy and Wildlife Engagement Activity**
 - In Q1, EWT developed a handbook titled: "Mainstreaming Wildlife Incident Management into Utilities in Southern Africa." The purpose of this handbook is to assist all utilities in Southern Africa in making better decisions to avoid, manage and mitigate wildlife and energy interactions, which will save utilities money in the long run. This document is being finalized and will be sent to USAID for review and approval in Q2.
 - EWT continued its work with electric utilities to finalize the rolling out of a four-part program aimed at equipping utilities to prevent or minimize instances where wildlife collides with and damages electricity infrastructure. This assistance will reduce revenue losses due to outages and costs as a result of replacing damaged equipment. In Q1, EWT presented the EDM readiness assessment report detailing the site visit findings with recommendations and next steps to reduce energy and wildlife interactions to the EDM Board and trained EDM on wildlife management. In addition, EWT drafted an EDM Wildlife Management System Handbook, titled: "A Complete Guide to the Management of Wildlife Interactions on Electrical Infrastructure in Mozambique." During the course of Q2, this handbook will be distributed to EDM for review and approval.
 - EWT provided assistance to Eskom South Africa in the form of a desktop and field investigation, which included mapping all the energy infrastructure in the protected areas in South Africa and ranking the protected areas from most to least impacted by energy infrastructure. After ranking, protected areas were selected and further investigated to determine the abundance of energy infrastructure in protected areas. EWT selected 10 protected areas in each province in South Africa. This resulted in 90 areas being ground-truthed. During Q1, SAEP shared the desktop investigation report, the report on the findings of the protected areas along with recommendations with Eskom. Eskom was pleased to know the protected areas' energy infrastructure status and the actions needed in each area to reduce damage to energy infrastructure and promote wildlife protection. This activity has now been completed.
- **Support to RNT in Angola under OC3**
 - Reviewed the TOR for the RAP implementation consultant and developed the TOR for the Environmental Auditor
 - Assisted in updating the RNT PIU master work plan and contributed to several internal trackers to advance and track environmental and social aspects of the PIU work

- Held weekly progress meetings with the RNT PIU Environmental and Social team to keep them on track regarding environmental matters crucial to the project, such as project risks, progress on the development of the Environmental and Social Management System (ESMS) and the Environmental and Social Project Manual
 - Supported the SAEP gender team in developing the gender mitigation framework based on best practice (IFC standards endorsed by the World Bank). The framework includes addressing gender-based violence, employment of women and management of women in the workplace for RNT
- **Support to SALGA under OC2**
 - Assisted OC2 in training South African municipalities on establishing and enhancing PMOs. The Environmental Specialist attended working sessions with each municipality to identify their environmental and social constraints in a project development context and developed pre-course material for the municipalities relating to the roles and tasks of environmental and social officers in the PMO. The Environmental Specialist also arranged for an environmental management inspector from the Department of Fisheries Forestry and Environment to help train the aforementioned municipalities. Specific topics included the importance of environmental and social offices in the PMO or PIU, IFC standards (best practices), stakeholder engagement, resettlement, the environmental impact assessment process, environmental management systems, environmental licensing requirements and consequences of non-compliance with the National Environmental Management Act No. 107 of 1996.
- **Other Activities**
 - Continued to follow environmental review steps during SOW development in order for SAEP activity managers to perform the appropriate environmental due diligence for each activity proposed in the SAEP Work Plan and completed ERFs for activities
 - Developed an EMMR of all SAEP activities, which was submitted to USAID and approved on 6 December 2021

2.7 FINANCE AND OPERATIONS

During this quarter, the SAEP Finance and Operations team continued to focus on all aspects of project finance, statutory reporting, project administration, recruitment, performance evaluation, subcontracting, ICA management and grants management in a virtual delivery environment.

On 1 October 2021, the South African Government eased COVID-19 restrictions and the country was moved to Alert Level 1. Eased travel restrictions meant that international travel to and from the countries could commence and with the decline of daily coronavirus infections and (vaccination rate) SAEP began looking into the possibility of staff returning to the Pretoria office. The reopening of the SAEP Pretoria office will happen in three phases, subject to Deloitte US Home Office approval, SAEP leadership, COVID-19 conditions and local guidance and regulations. As part of the approval process, SAEP Pretoria-based staff were asked to complete a *Return to Office Survey* to obtain information, which helped SAEP leadership in seeking the necessary approvals to open the office. SAEP has a detailed and approved Office Reopening Plan that sets out guidelines and protocols to follow to mitigate the risk of staff contracting and spreading COVID-19 in the office and the plan will be shared with the Pretoria Office staff in due course. The Pretoria Office has been upgraded to allow for appropriate social distancing.

F&O Top Achievements and Results

- SAEP was awarded a No-Cost Extension and the project end date extended from 14 March 2022 to 14 June 2023
- Successfully submitted and reconciled the SARS annual IT14 tax return
- Received Exchange Control approval from the South African Reserve Bank (SARB) for another year. This allows SAEP to transact in the SADC region

The fourth wave of coronavirus infections began in South Africa in Q1. Travel bans were imposed to and from Southern Africa and most SAEP focus countries as a result of the new Omicron variant. As a result of the fourth wave of infections in South Africa, staff were not able to return to the Pretoria office. More organizations adopted mandatory vaccination policies across the country. Nevertheless, SAEP continued to encourage project staff to voluntarily get the COVID-19 vaccine. The Department of Health announced in December 2021 that booster doses of the COVID-19 vaccines will be implemented in South Africa.

Final approval of the contract modification to extend SAEP was received and signed on 12 December 2021. Thus, some activities in SAEP's Year 5 Work Plan can be implemented; however, the work plan is still subject to USAID's final approval. Under the extension, deliveries for Year 5 will be extended through to 30 September 2022. As part of project wind down, the SAEP Zambia project office will close at the end of January 2022 and work occurred during the quarter to prepare for the close out.

2.7.1 FINANCE AND STATUTORY REPORTING

In Q1 of Year 5, the Finance team:

- Submitted all pay-as-you-earn (PAYE) and Value Added Tax (VAT) returns for the quarter and processed all PAYE payments to the South Africa Revenue Service (SARS)
- Completed the submission of the annual SARS IT14 submission. This is an annual reconciliation submitted to SARS for tax compliance. SAEP managed to respond to all queries raised and remains in Good Tax Standing. The SARB renewed the Exchange Control approval for another year to October 2022. This approval allows

SAEP to transact in the SADC region by processing payments to countries outside of South Africa

2.7.2 SUBCONTRACTING

In Q1 of Year 5, SAEP:

- Processed contract modifications for the following independent consultants: David Jankofsky, Clarence Oelofse, Henri Randriamanana, Mark Sims, Michael Barry, Raj Addepalli, Marzio de Moura, Jose Cavaretti, Inka Schomer, Carla Sousa, Willem Theron, and Ernesto Johannes Kokke de Rego. These modifications extended the consultants' periods of performance and added funding to their contracts to sustain the ICAs through project year 5
- Finalized a new independent consulting agreement (ICA) for Mpelu Rampokanyo to serve as the Variable Renewable Energy Integration Specialist in support of an OC4 training
- Finalized an ICA for Jay Govender to serve as the Legal and Regulatory Specialist in support of the SALGA PPP Trainings
- Processed a contract modification for subcontractor SIAL, extending the period of performance of their indefinite delivery/indefinite quantity (IDIQ). This is a type of contract that provides for an indefinite quantity of supplies or services during a fixed period
- Processed a contract modification for subcontractor Consultec, obligating funding toward deliverables in the option period of their subcontract
- Processed a contract modification for subcontractor Deloitte Zambia to obligate additional funding for office leasing in Zambia for the last remaining months of the subcontract
- Processed a contract modification for subcontractor Geometric Talks, extending the period of performance of the subcontract
- Processed a contract modification for subcontractor ENGAGE Energy, extending the subcontract period of performance through February 2022

2.7.3 PROJECT STAFFING

On 26 December 2021, Tea Mihic, SAEP's OC2 Deputy was promoted to the OC2 Lead position as the previous OC Lead, Wayne Mikutowicz, transitions off the program. The SAEP team recruited for the following positions expected to be filled in Q2:

- Renewable Energy Systems Engineer (OC4 Deputy). Although SAEP had recruited a candidate previously, due to the fact that the NCE was not received earlier, the amount of time for the contract was not long enough to attract talent to the program. As such, SAEP has two people currently fulfilling this position and supporting from the U.S. SAEP is looking into options to potentially recruit an independent consultant to support this role as it is unlikely that the program will find anyone qualified willing to leave current roles for a short duration assignment
- Madagascar Technical Expert. This position is to work in Madagascar to support the Madagascar Country Manager as he will need to take some leave of absence and travel outside of Madagascar. In addition, SAEP requires additional technical capabilities in the country to deliver activities.
- Malawi Country Manager. This is to replace the previous Malawi Country Manager who left the program for another opportunity
- Off-Grid Electrification Specialist to deliver activities on electrification in South Africa

2.7.4 PROCUREMENT

Key procurement initiatives that occurred during Q1 include:

- Translation of documents from English to French for the Agent Sales Force Effectiveness (SFE) and Boabob+ App training

2.7.5 GRANTS

▪ Madagascar Mini-Grid Development Grant Program

As part of Power Africa's Madagascar Mini-Grid Development Grant, SAEP awarded USD \$1.3 million to three companies in November 2020 in support of Madagascar's goal to reach 70% access to electricity by 2030. Autarsys Madagascar, Hydro Ingenierie Etudes Et Realisations (HIER), and Henri Fraise Fils & Cie (HFF) were among the winners. The grant is intended to assist mini-grid developers who have obtained concessions from the Agency for Rural Electrification Development (ADER) but are struggling to secure financing to reach FC; and developers who have existing mini-grids are expected to use the grant for infrastructure required to connect additional households to the grid.

In Manaratsandry village, HFF plans to build a solar mini-grid. Earlier this year, HFF began the Environmental Survey and expects to complete it by the end of March 2022. Also, they have begun the detailed installation design, which is expected to be completed by January 2022.

In Befandriana and Fortadrevo, Autarsys remains committed to continue the construction of Mini Grids. They have completed the construction of the Energy Storage Container (ESS) for Fortadrevo in Germany. It is expected that the ESS system will leave Germany at the end of January 2022 and reach Madagascar by the beginning of March 2022. The Befandriana mini grid is expected to be completed by May 2022, with the measuring instruments developed.

HIER has received equipment to extend the distribution network of the 560 kW hydro-powered mini-grid in Tsarazaza to Madagascar, but the equipment is currently being held at customs. Customs duty was imposed on this

equipment because of a change in legislation that excluded it from exemption. There have been efforts from USAID/Madagascar to move this forward. With effect from January 25, 2022, USAID/Madagascar is working to hold talks with the President's Office after the Minister of Finance and Minister of Energy agreed to have this equipment exempt from customs duties. The grant agreement is expected to be finalized in the next quarter, after which SAEP will work to disperse the first part of the grant to HIER for the imported equipment.

Due to delays experienced by the companies, the team is currently reviewing timelines and will be working to extend the end dates of grant agreements in the next quarter.

- **SHS Kick-Starter Program for Malawi**

A results-based grant of USD \$2 million was awarded to four SHS companies in Malawi in July 2019 to improve access to electricity. As part of the SHS Kick-Starter Program for Malawi, SolarWorks was awarded a grant. The three companies have connected 93,893 households as of the end of December 2021.

SAEP released USD \$36,276.00 for the current milestone (10), bringing total grant funding outlays to USD \$1,231,048.00. The M&E team, Grants Manager and relevant off-grid technical team members reviewed and approved the Milestone 10 reports before releasing payments.

Even though Yellow has performed well to exceed its sales goal, the other grantees have not made the same level of sales, primarily because of challenges imposed by the COVID-19 pandemic. With the issue of Modification 5, the team extended the grant agreements to June 2022 for the three remaining grantees. No other terms of the grant agreements were modified. SAEP expects this extension in the period of performance will give the remaining grantees the opportunity to reach their targets despite the COVID-19 pandemic impacts.

2.8 TRANSACTION AND ADVISORY SERVICES

2.8.1 STAKEHOLDER ENGAGEMENT

SAEP continued to engage IPP developers, utilities, regulators and investors in the energy sector on a variety of issues to remove barriers impeding their success. SAEP’s transaction advisory services included helping developers raise capital, conducting due diligence on behalf of investors, helping power project developers navigate often fragmented regulatory regimes, and preparing and negotiating PPAs; all work that is catalytic in helping power transactions reach fruition and translates to new generation capacity and connections. The full pipeline is outlined in further detail in Appendix A. Highlights from Q1 are:

- To advance Malawi’s Mpatamanga hydropower project, SAEP prepared the Government of Malawi’s negotiation committee for initial negotiations with the bidder. Following the receipt of a bid for project sponsor in September 2021, SAEP worked with the government to identify key issues in the bid and develop appropriate responses. SAEP presented these to a senior government delegation to prepare them for initial negotiations in early 2022
- Continued to work alongside developers and procurement entities, providing leading practices and tools to help remove barriers and enable projects to more rapidly reach FC
- Tracked developments on the TTP and Mozambique–Malawi transmission line projects, which have both commenced with construction
- Engaged with SALGA and the City of Cape Town in South Africa to enable municipalities to adopt project finance principles and approaches in their drive to develop new electricity infrastructure

Transactions Top Achievements and Results

- Supported the Government of Malawi to evaluate the bid for project sponsor for the 350 MW Mpatamanga hydropower project and prepared the negotiation committee for initial negotiations with the bidder to take place in Q2
- The SAEP-supported transmission projects, the Temane Transmission Project (TTP) and Mozambique–Malawi Regional Interconnector, are progressing well in their respective construction stages
- Completed power project finance training for municipal officials. A total of 125 officials from 47 municipalities participated in the training

2.8.2 TRANSACTION PORTFOLIO

The table below lists the current portfolio of transactions that SAEP is supporting. The table is organized by the project status, as follows:

- Completed TTS: Projects have already received SAEP advisory support and are reflected in the M&E metrics of the program
- Active Targeted Transaction Support (TTS): Projects are receiving comprehensive support from SAEP under a discrete SOW
- Transaction Advisory (TA): Projects are receiving light-touch advisory services
- Inactive: Projects were supported by SAEP, but required no support in this reporting period
- Tracking/Scoping: Projects to which SAEP did not provide advisory support during this period, but are included in the transaction pipeline as SAEP is in frequent contact with these projects and is exploring areas where support could be provided

Status	Project Name	Country	Project Type
Completed TTS	EGENCO asset expansion <ul style="list-style-type: none"> • Tedzani III station • Mapanga station • Lilongwe B station 	Malawi	5 MW – Hydro 28 MW – Diesel
	EOSOL (now ANKA) Madagascar Segment I	Madagascar	0.62 MW – Mini-grid
	Golomoti Solar PV	Malawi	18 MW – Solar PV
	Nkhotakota Solar	Malawi	26 MW – Solar PV

Status	Project Name	Country	Project Type
	Lilongwe Solar	Malawi	25 MW – Solar PV
	Naamacha Wind Farm	Mozambique	60 MW – Wind
	Redstone Solar Power project	South Africa	100 MW – Solar PV
	City of Cape Town Rooftop PV SSEG	South Africa	50 MW – Solar PV
	West Rand Urban Solar Farm	South Africa	10 MW – Solar PV
	GBA Swaziland Riverbank	Eswatini	10 MW – Solar PV
	EEC Lavumisa	Eswatini	10 MW – Solar PV
	Kanyama	Zambia	100 MW – Hybrid (96 MW)
	Malawi–Mozambique Interconnector	Malawi	1,000 MW – Transmission
	Temane Transmission Project	Mozambique	900 MW – Transmission
	GET FiT Hydro - Mini Hydro	Zambia	100 MW – Hydro
	BPC Solar PV	Botswana	100 MW (2x50) – Solar PV
Active TTS	ANKA (formerly EOSOL) Madagascar: Segment 2 (1.5MW), Segment 3 (0.85MW)	Madagascar	2.35 MW – Mini-grid
	Mpatamanga Hydro Electric Project	Malawi	350 MW – Hydro
	Nchalo (Illovo) Solar IPP Project	Malawi	10 MW – Solar PV
	Alten Energy Solar and BESS	Mozambique	40 MW – Solar & 40 MW BESS
	Oshakati Premier Electric	Namibia	5 MW
CENORED	Namibia	10 MW Solar PV + 10 MWh	
Transaction Advisory (TA)	Lubango Solar PV	Angola	35 MW – Solar PV
	Themis Sahofika	Madagascar	192 MW – Hydro
	Neo I – OnePower	Lesotho	20 MW – Solar PV
	Mandimba Solar	Mozambique	50 MW – Solar
	Lichinga Solar	Mozambique	23 MW – Solar
	RSSC Grid-Tied Solar PV Plants	Eswatini	10 MW – Solar
	City of Cape Town: Support: IRP and IPP	South Africa	>100 [TBC] MW Renewable
	SALGA: Local governments and municipalities	South Africa	[TBC] MW – Renewable Energy
	City Power, Johannesburg (SALGA Follow-on Support)	South Africa	[TBC] MW – Renewable Energy
	Ngonye Falls Hydro	Zambia	180 MW – Hydro
	GET FiT Zambia Round I	Zambia	120 MW – Solar
Unika Wind Mphepo Power	Zambia	100 MW – Wind	
Inactive	Rovuma Gas	Mozambique	250 MW – Natural Gas
	Gigawatt Park Phase 2	Mozambique	230 MW – Natural Gas
	Temane (Sumitomo)	Mozambique	100 MW – Natural Gas
	Shell Afungi GTL	Mozambique	50 MW – Natural Gas
	Yara Fertilizer	Mozambique	30 MW – Natural Gas
	Okahanja	Namibia	10 MW – Solar
	SA LNG	South Africa	3000 MW – Natural Gas
	EDF-Innowind: Scarlet Ibis	South Africa	15 MW – Solar
	Lazybend Renewables	South Africa	25 MW – Biomass
	Mondi - Biomass / Cogen Richards Bay	South Africa	48 MW – Biomass

Status	Project Name	Country	Project Type
	Plettenberg Bay Biomass	South Africa	25 MW – Biomass Generation
	ZTK Interconnector	Zambia	500 MW – Transmission
	Gigawatt Zambia Hybrid Project	Zambia	71 MW – Hybrid
	Mbongozi Power	Malawi	41 MW – Hydro
Tracking / Scoping	Akuo Energy	Madagascar	2.9 MW – Solar
	Lesedi CBM	Botswana	50 MW – Natural Gas
	Kalahari CBM	Botswana	97 MW – Natural Gas
	Tati Solar PV	Botswana	50 MW – Solar PV
	Mohale's Hoek	Lesotho	30 MW – Solar
	Mazenod	Lesotho	40 MW – Solar
	Luweya River Phase I	Malawi	15 MW – Hydro
	Kanengo Solar	Malawi	20 MW – Solar
	Salima Solar	Malawi	60 MW – Solar
	Dondo Solar	Mozambique	50 MW – Solar
	Arcelor Mittal South Africa (AMSA) Solar	South Africa	160 MW - Solar
	Sasol Renewable Energy Procurement	South Africa	600 MW – Multiple technology
	SunElex: Matjhabeng Solar	South Africa	66 MW – Solar
	Wonderkop Smelter	South Africa	40 MW – Energy Efficiency
	Kumi Kumi Zuba	Zambia	100 MW – Solar
	Kalahari GeoEnergy Geothermal Project	Zambia	10 MW – Geothermal
	Kabompo Hydro	Zambia	40 MW – Hydro
	Ngonye Solar	Zambia	88 MW – Solar
	Baynes Hydro Power Project	Namibia	600 MW – Hydro
	Asani Biogas	Mozambique	120 MW – Biogas
	Buroma Hydro	Angola	200 MW – Hydro
Lupata Hydro	Angola	600 MW – Hydro	
Kafue Gorge Regional Training Centre	Zambia	10 MW Hydro & 7.5 MW Wind	
AMEA Power Wind Zambia	Zambia	100 MW – Wind	

Full descriptions and the status of each project are given in Appendix A

2.8.3 COUNTRY AND REGIONAL HIGHLIGHTS

ANGOLA

▪ 35 MWp Lubango Solar PV Project

The French IPP, Total Eren, a subsidiary of the Total Group, is leading the development of a 35 MWp solar power plant in Lubango, in the province of Huila. The IPP is implementing this project in partnership with Greentech-Angola Environment Technology. The project has been in development for a couple of years. Progress achievements to date include securing of land for the project site. Concession agreements discussions and grid connection studies are well advanced. FC is targeted for December 2022.

Total Eren Project Manager, Olivier Francois-Martin, informed SAEP that the financing of the project is envisaged to be based on non-recourse project finance, with contributions of equity (33.3%) and debt via development financing institutions (66.7%). Total Eren will share potential project challenges with SAEP for review and

thereafter, the parties discuss potential target areas for assistance. SAEP has scheduled a broader meeting with Total Eren for 19 January 2022 to include SAEP team members with specific Angola experience.

BOTSWANA

▪ 97 MW Kalahari Coal Bed Methane (CBM) fueled IPP Project

The Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) awarded Kalahari Energy Botswana, through its wholly-owned subsidiary Sekaname (Pty) Ltd, preferred bidder status for the construction of a CBM-fueled, IPP-owned power plant in Botswana. Kalahari Energy Botswana appointed Prana Energy to lead the development of the project. Kalahari Energy will enter into a 30-year PPA with the BPC, with the Government of Botswana providing a credit-enhancement mechanism to make the project bankable. In March 2020, a grant ceremony was held in Botswana where the project received a USD \$980,000 grant from the United States Trade and Development Agency (USTDA).

In Q1, Kalahari Energy stated that the proposed PPA received from the MMGE is still targeting a capacity of 97 MW. Kalahari reviewed the draft PPA and provided comments and a marked-up PPA to the ministry in October 2021. They are awaiting a response from the ministry and intend involving SAEP in the next round of PPA mark-ups and discussions.

LESOTHO

▪ 20 MW Neo I Solar PV Project

In November 2021, Norwegian renewable power producer Scatec and OnePower Lesotho entered into an agreement with the Government of Lesotho and the LEC to build Lesotho's first public-private, utility-scale solar plant. The 20 MW Neo I solar project has a total estimated capital investment of \$26.5 million funded by Renewable Energy Performance Platform and equity co-sponsors including Scatec, Norfund, Lesotho Pension Fund, Izuba Energy and OnePower Lesotho. The electricity produced will be sold to the LEC through a 25-year PPA with financial close expected in early 2022.

In May 2019, OnePower received a \$600,000 grant from the United States Trade and Development Agency (USTDA) to support feasibility studies for the project. SAEP provided broad assistance to the LEC and the Government of Lesotho, including a review of Lesotho's generation planning and the impacts of renewable generation options on Lesotho's national grid. Further, SAEP reviewed the Neo I financial models and provided inputs to the LEC on how the project's tariffs, tariff escalations and competitiveness compared with other solar PV generation options that LEC was considering.

MALAWI

▪ 20 MW Golomoti Solar PV plus 5MW/10MWh Lithium-ion BESS

In Dedza, Malawi, approximately 100 kilometers southeast of the capital, Lilongwe, construction is nearly complete on what will be a revolutionary power project. Co-developed by Power Africa partners, JCM Power and the Private Infrastructure Development Group's InfraCo Africa, and with financial support from Innovate UK, the Golomoti Solar PV and Battery Energy Storage Project will generate 20 MW of clean, renewable electricity, and will be the first utility-scale plant in the region to include a BESS. Golomoti's BESS will employ lithium-ion batteries with a capacity of 5 MW/10 MWh, and will sit within the project's interconnection substation compound. SAEP previously provided transaction advisory services to integrate BESS functionality into the project's financial model. SAEP developed a bankable financial model and assisted with optimizing Golomoti's storage capacities and the revenue structure of storage versus direct sales. The integration included new BESS sizing, usage, and cost features to determine the best financial and technical solution. During the reporting period, SAEP followed up with the developers and was informed that the BESS was successfully commissioned in December 2021; full commercial operations for both BESS and solar is targeted for February 2022.

- **60 MW Salima Solar PV Project**

The 60 MW Salima solar PV plant in Malawi began operations during an official inauguration ceremony on 16 November 2021, attended by the President of Malawi, Dr. Lazarus Chakwera. Salima is the first solar PV in Malawi to connect to the grid. Project developer and Power Africa private sector partner, JCM Power, will sell the energy generated to ESCOM, under a 20-year PPA. The transaction reached FC on 31 January 2019. SAEP is supporting ESCOM with managing the integration of vRE to maintain grid stability.

- **350 MW Mpatamanga Hydropower Project**

SAEP is serving as the transaction advisor to the Government of Malawi's Mpatamanga Hydropower Project, which on 11 February 2020 launched the first competitive tender in Africa to identify a strategic sponsor to develop, finance and operate a large-scale hydropower project. SAEP's transaction advisory team guides the procurement process and the diverse set of advisors supporting the government in this effort. Mpatamanga will add 350 MW of renewable energy to the country's generation capacity, thereby diversifying Malawi's energy profile with renewable energy and ultimately reducing its reliance on fossil fuel sources. On 17 September 2021, a consortium comprising SN Power and Électricité de France – two of the strongest hydropower developers globally – submitted its bid for the appointment as project sponsor. The project sponsor is the key player in taking the project to FC. With technical support from SAEP, the Government of Malawi began evaluating the bid in Q1.

SAEP established several working groups to focus on specific portions of the bid and identify issues that would need to be discussed between the Government of Malawi and the bidder. SAEP worked with the working groups to complete the individual issues lists and then guided the government's advisors in developing the negotiation position for each of the identified issues. The Government of Malawi formed a Negotiation Committee consisting of several senior government officials who will engage in the negotiations with the bidder. On 22 December 2021, SAEP presented the issues lists and suggested responses to the Negotiations Committee during a full-day virtual workshop. The Government of Malawi has identified the week of 24 January 2022 as an opportune time to start negotiations.

- **Mozambique–Malawi Regional Interconnector**

On 23 November 2021, the presidents of Malawi and Mozambique launched the construction works for the Mozambique–Malawi Regional Interconnector Project at Phombeya in Balaka District, Malawi. The interconnector project reached financial close in July 2020. It consists of a 218 km long transmission line between Matambo (Mozambique) and Phombeya (Malawi). The new transmission line will connect the Malawian and Mozambican electricity grids. It will also, for the first time, connect Malawi to the SAPP. Power Africa partner, the World Bank, the KfW Development Bank and the Government of Malawi are contributing towards the cost of the project.

ESCOM has awarded key contracts for the construction of the transmission line and substations. The transmission line and expansion of the Phombeya substation will be built by Larsen & Toubro India, while SinoHydro from China will be responsible for the Matambo substation upgrade. Gopa Intec International from Germany will manage both projects. The project's completion date has moved from December 2022 to October 2023 due to Covid-19, which delayed work. A PIU made up of staff from EDM in Mozambique and ESCOM in Malawi, administers and implements the Mozambique–Malawi Interconnector Project.

SAEP has played an integral part in helping ESCOM to prepare to deploy the 1,000 MW regional interconnector project by training the utility's operational personnel to operate in an interconnected SAPP system once the Malawi–Mozambique 400 kV interconnector line is commissioned.

MOZAMBIQUE

- **Temane Transmission Project**

In Q1, SAEP continued to track the TTP's construction progress after it reached FC in December 2020:

- The tower foundation works have started. The actual towers are in transit to the sites, with the first containers arriving in mid-December 2021
- Factory acceptance tests are still ongoing
- The tower type tests are complete, and all tower type designs have been approved by the manufacturer
- Contract effectiveness for all Lots (transmission line and the substations) to be constructed has been reached and the contractors hired
- Detailed substation design work has kickstarted
- Detailed design of the resettlement houses is underway and construction is expected to start in January 2022

NAMIBIA

▪ 10 MW CENORED Hybrid Solar PV and BESS

To reduce cost exposure, CENORED is implementing a strategy to integrate embedded distributed generation capacity within its network and reduce dependence on NamPower supply. CENORED has identified six solar PV sites and intends to procure solar PV-generated electricity from IPPs for the installation of solar PV grid-connected systems. To manage the variability from these potential renewable energy plants, CENORED is also considering the use of BESS. The systems will be integrated into CENORED's network for which they intend to run a bidding process for the ultimate selection of IPPs, with all sites developed on an IPP basis. During the reporting period, CENORED publicly issued a request for EoI and prequalification for the procurement of alternative energy and is currently evaluating submissions received. Following the evaluation an RFP will be distributed to selected entities.

The 10 MW Okahandja solar PV and BESS project was excluded from the original EOI request. In October 2021, CENORED decided to issue a request for EoI for Okahandja. SAEP assisted CENORED with a review of the draft and developed an "EOI Submission Template" to be issued with the request for EOI.

SOUTH AFRICA

▪ City of Cape Town: Support to IPP Efforts

Given the ministerial determination that will potentially allow qualifying municipalities to purchase electricity directly from IPPs, the CoCT wants to move forward with some initiatives in this respect. During the quarter, SAEP assisted the CoCT to clarify some points in the draft PPA, with which the CoCT wishes to engage the market for IPP procurement. CoCT requested further assistance from SAEP in calculating potential savings/costs to the CoCT with the potential procurement of IPP projects similar to the risk mitigation IPP procurement programme (RMIPPPP). SAEP developed and provided a detailed long-term solar PV financial model to the CoCT on 30 November 2021 and provided high-level training on the model. The model includes specific CoCT requested items such as:

- The financial modeling of two project options, the 200 MWac solar PV and the 60 MWac Paardevlei solar PV
- Default termination payments: calculations in respect of the quantum of the potential termination liability if the CoCT defaults, hence a termination of the PPA by the IPP due to buyer/CoCT default. Termination payment calculations for each year are shown in the model as well as illustrations with graphs, e.g., year 1 up to year 20, end of PPA term
- Tariffs and potential savings by the CoCT: annual IPP electricity tariffs and potential savings by the CoCT on energy costs, as well as illustrations with graphs

APPENDIX A TRANSACTIONS TRACKER¹

In Q1 FY22, SAEP's Transaction Advisory team continued with the initiated conversations with different developers and supported the following projects towards achieving the Program goals. The listed transactions are separated by type (i.e., connections, transmission, and generation).

Connections

Project Name	Country	Technology	Est. Connections	Current Status
EDM	Mozambique	On-Grid	1,103,678 connections	<p>SAEP support to EDM continued in this quarter, through the following concurrent interventions:</p> <p><u>EDM HCD Customer Experience Implementation (HCD Phase -II)</u></p> <p>The pilots were completed, and the implementation of the solutions began with a meeting of the EDM Regional Directors. Following that, training for each of the solutions began with all EDM delegations' appointments.</p>
ENDE	Angola	On-Grid	756,351 connections	<p>SAEP support to ENDE continued, both for AfDB and the World Bank related programs, concurrently:</p> <p><u>Support to ENDE with AfDB's ESEEP</u></p> <p>Throughout Q1, there was progress on all ENDE procurement packages, as herewith summarized: 1) Systems Tender, currently at the Stage 1 of the 2-stage RFP procurement process: ENDE received three offers from the six shortlisted bidders. The ENDE evaluation team started with evaluating the proposals (Stage 1 – technical evaluations). 2) ENDE completed the pre-qualification stage of the Prepaid metering tender and submitted the Evaluation report to AfDB for approval (NO). 3) For the EPC Supervision Consulting Tender, ENDE submitted the Request for Expression of Interest (EoI) along with the Terms of Reference (TOR) to AfDB for approval (NO). Additionally, the AfDB approved the updated procurement plan following a meeting of the parties to ensure alignment.</p>

¹ The transactions presented here are transactions that we are currently designing transaction advisory scopes for or are currently providing TTS to.

Project Name	Country	Technology	Est. Connections	Current Status
				<p><u>Support to ENDE with the WB Electricity Sector Improvement and Access Project (ESIP), for the Revenue Protection Program (RPP)</u></p> <p>The Ministry of Energy and Water (MINEA) Project Coordination Unit (PCU) sent the ENDE-SAEP produced Request for Bids (RFB) document and related specifications to WB for comment, and the parties are awaiting confirmation of a meeting with the WB team.</p>
ANKA	Madagascar	Mini-grid	10,500 connections	<p>ANKA managed to commission their first API grid project towards the end of quarter one of FY21. Throughout the remainder of FY21, they progressively added new connections to the grid project. At the end of FY21, a total of 436 connections had been added to the grid.</p> <p>During FY21, ANKA also reached out to SAEP with a request for assistance in raising funds for the remainder of their AP2 projects as well as other expansion plans. This resulted in SAEP facilitating an introduction between ANKA and the Eastern and Southern African Trade and Development Bank who expressed an initial interest in considering ANKA for financing. At the end of the financial year, SAEP was still assisting ANKA with coming up with options for sourcing grant and debt financing for their projects.</p>
Baobab+	Madagascar	SHS	TBC	<p>During the financial year, SAEP completed training activities for Baobab+. The program delivered two rounds of sales force effectiveness (SFE) training for sales managers - the first delivered virtually and followed up with an in-person refresher. The package of training interventions also included the development of material for the Baobab+ training app which was handed over to the company for uploading to the app. By the end of FY21, Baobab+ had reported an annual sales total of 49,331.</p>
Madagascar Mini-Grid Grant	Madagascar	Mini-Grid	5,216 Connections	<p>Progress on the mini-grid grant program is hampered by procurement, regulatory, and technical challenges. SAEP continues to support the companies' efforts to overcome the difficulties. For all three companies, HIER, Henri Fraise and Autarsys Madagascar, a rescheduling of the timelines for delivery of connections will be necessary.</p>
Mozambique Off-Grid Companies	Mozambique	SHS	208,521 connections	<p>SAEP continues to check in on the status of the SHS companies' operations on a regular basis, including SolarWorks! and ENGIE Energy Access (formerly Fenix International).</p>

Project Name	Country	Technology	Est. Connections	Current Status
Malawi SHS Kick-Starter Grant	Malawi	Solar	253,636 connections	<p>The SAEP Team continued with regular check-ins with the four SHS Kick-Starter grantees: SolarWorks!, VITALITE, Yellow Solar Power, and Zuwa Energy, as well as other companies outside of the Kick-Starter grant, including SunnyMoney. It was decided to extend the Kick-Starter grant disbursements to the end of June 2022 in order to continue to provide grant support to SolarWorks!, VITALITE, and Zuwa Energy as they have not yet achieved their Kick-Starter goals. SAEP released the Off-Grid Company Training Package for sales managers and field agents to help improve the efficiency and effectiveness of off-grid companies' sales teams. The training package includes three sets of SFE Training – SFE training for managers, SFE train-the-trainer, and SFE training for agents – and the Project Management training module, for companies to utilize to improve sales force capabilities in the off-grid sector by equipping sales agents and supervisors with the organizational and sales execution ability to increase sales. Download it here: https://dec.usaid.gov/dec/content/Detail_Presto.aspx?vID=47&ctlID=ODVhZjk4NWQtM2YyMi00YjRmLTkxNjktZTcxMjM2NDBmY2Uy&rID=NTkwOTE2.</p> <p>SAEP continues to monitor all the grantees and provide ad-hoc technical assistance as required.</p>
Zambia Off-Grid Companies	Zambia	SHS	655,245 connections	<p>SAEP continued to interact with SHS companies on a regular basis about the status of their operations. These companies include VITALITE, Engie Energy Access, Standard Microgrid, and SunnyMoney. SAEP interacted with Little Sun this quarter, to provide technical assistance on their business plan to help them locate and position themselves appropriately for funding opportunities. SAEP continues to monitor each company's operations and offer ad-hoc technical assistance as requested.</p>

Transmission

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Mozambique-Malawi	Cross-border	Transmission	1,000 (Tx)	<p>ESCOM has awarded key contracts for the construction of the 218-kilometre Malawi-Mozambique Interconnector Project and Matambo Substation as part of the Mozambique-Malawi Interconnection Project (MOMA). With regards to the completion date for Malawi-Mozambique Interconnector Project, ESCOM has indicated that the project would now be completed in October 2023 rather than December 2022 as scheduled due to Covid-19, which delayed work and organization.</p> <p>The MOMA initiative is supported by the World Bank, the European Union through KfW, and the Malawian government through ESCOM. It will cost you a total of USD127 million. Once completed, it will provide 50 Megawatts to the Malawi's electrical grid.</p> <p>Reminder: The World Bank advised on 14 July 2020 that the Project Implementation Manual (PIM) for the Malawi-Mozambique 400 kV interconnection project has been concluded and that the project has now reached financial close.</p> <p>The only activity currently being advanced in relation to the Malawi-Mozambique interconnector is the phase two of the training to prepare ESCOM to operate in an interconnected system. This next phase will be based on-site visits for the ESCOM trainees to the SAPP Coordination centre and two other SAPP utilities currently part of the SAPP interconnected system.</p>	<p>31-July-20 (FC Reached)</p> <p>Expected COD: 2023</p>

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				However, as a result of the travel impediments due to COVID-19, this activity is currently on hold and will only continue once the travel restrictions have been lifted, which we anticipate to be around the third quarter of Year 5.	
Temane Transmission Project (TTP)	Mozambique	Transmission	900 (Tx)	<p>Construction started during this quarter as the transmission line contractor started with Tower foundation works on 2 November 2021, and the first containers with towers arrived during the first week of December 2021.</p> <p>The Factory Acceptance Tests (FAT) and the Tower Type Tests were kickstarted, with all the tower type designs being approved by the manufacturer and cable drums being on-site already. The resettlement houses construction will start January 2022, as the contractor is still busy with the detailed designs.</p> <p>Reminder: TTP reached a major milestone with the World Bank (WB), Norwegian Trust Fund and AfDB issuing declaration of effectiveness letters confirming that all conditions for the effectiveness of the grant have been met. The Islamic Development Bank (IsDB) and OPEC Fund for International Development issued effectiveness on 25 November 2020, and the confirmation letter was received by TTP on 27 November 2020. OFID effectiveness was achieved on 7 December 2020. The WB then granted NO to the direct selection of Mr. Bruno Batista as the official project coordinator for the TTP project as of 1 November 2020 up till 21 December 2024, and during Q2 EDM issued out an FC Claim letter acknowledging SAPP's assistance and role in the project reaching FC.</p>	<p>10-Dec-20 (FC reached)</p> <p>Expected COD: 2024</p>

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Temane Transmission Project (TTP) – CCT Project	Mozambique	Generation	450 (Gx)	<p>The CTT power project reached FC on 8 December 2021. The 450 MW gas-fired power plant is located in Temane, in the Inhambane Province of Mozambique, and is expected to supply power to EDM under a 25-year tolling agreement. The power plant is also estimated to provide electricity to meet the demand of approximately 1.5 million households contributing to about 14% of the electricity supply capacity available to meet demand in Mozambique.</p> <p>Debt financing for the \$652.3-million project is being provided by development finance institution the International Finance Corporation (IFC), together with its B-loan participants FMO and Emerging Africa Infrastructure Fund, which together are providing \$253.5-million; the US International Development Finance Corporation (DFC), which is providing about \$191.5-million; and the OPEC Fund for International Development (OPEC Fund), which is providing \$50-million. Additionally, the Multilateral Investment Guarantee Agency will be providing \$251.3 million in political risk insurance to the private equity investors, Globeleq, Sasol and EDM.</p> <p>CTT links directly to the new 563 km high-voltage transmission line, the Temane Transmission Project (TTP), and secures the first phase of the interconnection of the southern grid to the central and northern grids of Mozambique.</p>	<p>8-Dec-21 (FC reached)</p> <p>Expected COD: 2024</p>
Angola Central-South	Angola	Transmission	1,000 (Tx)	<p>SAEP continues to support Angola’s transmission company, RNT, to manage the development of the AfDB-funded 343 km 400 kV transmission line that will interconnect central and southern Angola. The construction of this transmission line will allow for the evacuation of around 1,000 MW from North to South and is critical to the Angola–Namibia (ANNA) interconnection project, which will facilitate power trade between the two countries and enable Angola to join the</p>	<p>8-Sep-20 (FC reached)</p> <p>Expected COD: 2024</p>

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>Southern Africa Power Pool (SAPP) for the first time. Key components of support during this quarter have been:</p> <ul style="list-style-type: none"> Continuation with the facilitating the operationalization of the RNT PIU and overall project management Assistance with the preparation of the Owners Engineer (OE) handover documentation (preliminary designs for both substations and the overhead line), after the OE contract signed on 26 November 2021 with the successful company Assistance with the relaunch process for the Resettlement Action Plan (RAP) procurement under a new procurement method, Quality and Cost Based Selection (QCBS) Assistance with the development of the Gender Action Plan (GAP), which also included the GAP tools Assistance with the bid opening process of the procurement of IT equipment for the PIU offices Assistance with the finalization of the procurement documents for the Monitoring & Supervision Consultant Development of the Transition Plan, which will be a document which outlines the specific actions and transition of duties under the RNT-SAEP LOC 	
Gove Menongue	Angola	Transmission	600	<p>The Gove-Menongue 220-kV transmission line's main objectives of the projects are:</p> <ul style="list-style-type: none"> Expand the Angolan national grid to Menongue, Cuando Cubango province; Reduce diesel generation costs in Menongue; Allow electrification of the communities along the length of the transmission line; Promote the electrification of mining projects at Huila and Cuando Cubango areas; 	<p>Expected FC: 2024 Expected COD: 2026</p>

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<ul style="list-style-type: none"> – Allow the integration of renewable energy projects on the grid; and – Provide extension of the fiber network <p>The expansion of the grid to Menongue falls within the framework of increasing access to clean and cheap energy to remote locations of the country. There are two alternatives to be studied for the expansion of the grid to Menongue. The first alternative is to construct a long transmission line linking the existing Gove hydropower station in the central region (Huambo province) to a new substation located in Menongue, located in the southern region (Cuando Cubango province). The second alternative is to build a long transmission line linking the existing Matala hydropower station located in the southern region (Huila province) to a new substation located in Menongue.</p> <p>A complete feasibility study for the transmission project is going to be developed up to the bankable stage including techno-economic studies, an environmental and social impact assessment (ESIA), and a resettlement action plan (RAP).</p> <p>To date, SAEP assisted RNT to develop the TOR and REOI for the procurement of the Consultant to undertake this assignment. Both the TOR and REOI received No Objection (NO) from the AfDB on 5 August 2021. The REOI was published beginning of October 2021, with a deadline for submissions of EOs of 21 October 2021.</p> <p>The shortlist evaluation report was finalized and submitted to the AfDB for review and NO consideration on 26 November 2021, and RNT is now waiting for feedback from the AfDB.</p>	

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Angola – Namibia Transmission Interconnector	Angola - Namibia	Transmission	600 (Gx)	<p>SAPP contracted a consultant to conduct the transmission line's preliminary design and the Environmental and Social Impact Assessment. A detailed feasibility study was also conducted on the preferred option and the final report was finalized. Three ANNA Integration Options were developed as follow: Option 1 follows a route of Lubango – Cahama – Baynes - Kunene 400kV: with a total distance of 650 km. Option 2 follows a route of Lubango – Cahama – Kunene 400kV: with a total distance of 362 km. Option 3 follows a route of Lubango – Cahama – Omatando 400kV: with a total distance of 395 km. The option was selected as the best option and was used as the basis for the ESIA study.</p> <p>The project is being sponsored by RNT and Namibia Power Corporation (NamPower), and coordinated by SAPP CC, with funding from the European Union, Germany's KfW, the government of Norway and the Swedish International Development Cooperation Agency. The Angola-Namibia transmission interconnector is expected to link the electricity networks in north-western Namibia and southern Angola.</p> <p>Under this interconnector, the SAEP team will provide training and capacity building to RNT (Angola) on Commercial Agreements and operating in an interconnected system in the next quarter</p>	<p>Dec-22 (Target)</p> <p>Expected COD: 2025</p>

Generation

Projects that have reached FC; tracking to COD

Project name	Country	Technology	Project size [MW]	Current Status	Financial Close Date and Anticipated COD
Karusa Wind Farm	South Africa	Wind	139.8	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 31-Jul-18 COD: 31-Mar-2022
Soetwater Wind Farm	South Africa	Wind	139.4	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 31-Jul-18 COD: 31-Mar-2022
Greefspan PV Power Plant No.2 Solar Park	South Africa	Solar PV	55	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 31-Jul-18 COD: 31-Mar-2022
Roggeveld	South Africa	Wind	140	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 13-Apr-18 COD: 31-Mar-2022
Copperton Wind Farm	South Africa	Wind	102	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 20-Aug-18 COD: 31-Mar-2022
Ngodwana Energy Project	South Africa	Biomass	25	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 12-Apr-18 COD: 31-Mar-2022
Garob Wind Farm	South Africa	Wind	135.93	REIPPPP project. The transaction reached commercial operation on 4 December 2021.	FC Achieved: 31-Jul-2018 COD: 4-Dec-2021
Loeriesfontein Orange Solar	South Africa	Solar	75	REIPPPP project. The transaction is still currently under construction.	FC Achieved: 14-Dec-18 COD: 31-Mar-2022
Salima Solar PV	Malawi	Solar PV	60	The financial close for this transaction was reached on 31 January 2019. The 60 MWac Salima Solar power plant was inaugurated by Malawian president, Dr Lazarus McCarthy Chakwera,	FC Achieved: 31-Jan-19 COD: 15-Nov-21

Project name	Country	Technology	Project size [MW]	Current Status	Financial Close Date and Anticipated COD
				<p>on 18 November 2021. President of the Republic of Malawi Dr Lazarus McCarthy Chakwera presided over the inauguration ceremony to mark the addition of 60MWac of additional clean energy to Malawi's national grid which is the country's first utility-scale solar PV plant.</p> <p>It was originally developed by JCM Power Corporation (JCM Power) and InfraCo Africa, part of the Private Infrastructure Development Group (PIDG). Dutch development bank FMO subsequently invested in the project with JCM Power and InfraCo Africa. The entities will operate and maintain the plant under the terms of a 20-year PPA executed with the national utility, Electricity Supply Corporation of Malawi Limited (ESCOM).</p>	
EEC Lavumisa	eSwatini	Solar	10	<p>SAEP supported EEC when they were working to finalize the project and supported it with a vRE study. EEC analyzed sourcing finance for the project by two options: a corporate raise to include T&D investments or solar project finance raise for Lavumisa only. EEC decided to include the project in a corporate raise.</p> <p>In July 2019 it was announced that Eswatini has signed a USD \$16 million contract with South African based EPC company, CONCO, a subsidiary of Consolidated Infrastructure Group (CIG) Limited, for the construction of a 10 MW solar power plant. The project will be financed by the Eswatini Pension Fund and local banks. The land has been secured and an EIA has been completed.</p> <p>The 10 MW Lavumisa solar plant is nearing completion and when completed, will be the country's first utility-scale photovoltaic (PV) plant. The total cost of the project is SZL255-million (USD18.4-million / EUR15-million).</p>	<p>FC Achieved: 31-Aug-19</p> <p>COD: 30-Sep-2021</p>

Project name	Country	Technology	Project size [MW]	Current Status	Financial Close Date and Anticipated COD
Nkhotakota Solar IPP Project	Malawi	Solar	26	<p>Following further discussions between the SAEP Lead Transaction Advisor and Phanes's, Senior Communications & Marketing Manager, Mrs. Louise Carne during the reporting period, Mrs. Louise Carne stated that the construction team is onsite and progressing well, although delays are being experienced due to COVID-19.</p> <p>The commercial operations date (COD) was initially scheduled for 31 December 2021.</p> <p>SAEP has followed up with the developers and awaiting confirmation on the new COD date</p>	<p>FC Achieved: 31-Dec-19</p> <p>COD expected 30-Jun-22</p>
Golomoti Solar PV plus Storage	Malawi	Solar PV plus battery storage	20 MWac + 5MW/10 MWh BESS	<p>SAEP provided financial modeling to the project to include batteries in 2017/2018.</p> <p>The project was recognized as 'Battery Storage Project of the Year' by industry publication IJGlobal at its Virtual Awards Ceremony held on 29 June 2021</p> <p>Following further discussions between the SAEP Lead Transaction Advisor and Infraco Africa's Head of Asset Management, Mr. Connor Dawson, the project should reach COD in early 2022 after the battery has already been connected in December 2021.</p> <p>It was reported in the media that Sungrow has partnered with JCM Power, InfraCo Africa, RINA, and Innovate to build Malawi's first utility-scale solar-plus-storage project. Sungrow is a supplier of solar photovoltaic (PV) and battery energy storage systems (BESS) solutions.</p> <p>With support from Business Energy and Industrial Strategies International Climate Finance through Innovate UK's Energy Catalyst and RINA, Golomoti will be the first utility-scale solar grid-connected PV plant in sub-Saharan</p>	<p>FC was 31-Dec-20</p> <p>COD expected 31-Mar-22</p>

Project name	Country	Technology	Project size [MW]	Current Status	Financial Close Date and Anticipated COD
				Africa to include a BESS. The Salima 60 MW solar PV and the Golomoti 20 MW solar PV plus 5 MW / 10 MWh BESS projects will increase Malawi's installed power generation capacity by over 80 MW by early 2022.	
Redstone Concentrated Solar Power (CSP) Thermal project	South Africa	Solar CSP	100	<p>SAEP provided technical assistance to the IPP office.</p> <p>The DOE awarded the 100MW Redstone CSP project Preferred Bidder status in Round 3 of the REIPPPP. However, the project experienced delays and was recently still awaiting the resolution of the impasse with Eskom relating to the signing of the PPA.</p> <p>ACWA Power, the Saudi developer, investor, and operator of power generation and water desalination plants, announced the commencement of construction on the 100MW Redstone project following the achievement of financial close at the end of June 2021.</p> <p>At ZAR 11.6 billion (162.457 million) total investment, the Redstone project is the largest renewable energy investment in South Africa to date.</p> <p>The project is located in the Northern Cape Province of South Africa. The plant will be equipped with a 12-hour thermal storage system.</p> <p>Commencement of operations is scheduled for Q4 2023.</p>	<p>FC Achieved: 30-Jun-21</p> <p>COD: Q4 2023</p>

Projects that are ON HOLD

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Mazenod	Lesotho	Solar	40	During communication between SAEP Lead Transaction Advisor and Phanes's Managing Director – Origination, Mr. Malik Bencherchali, he reported that they have not made progress and have decided to put their Lesotho Mozambican projects project ON HOLD until the end of 2021. They are instead focusing their efforts on more responsive markets.	30-Sep-22
Eswatini Combined Cycle Gas Turbine (CCGT) Project	Eswatini	LNG (Liquefied Natural Gas)	310	The transaction is ON HOLD. The developer made no progress during the reporting period.	(No confirmation)
RSSC Grid-Tied Solar PV Plants	Eswatini	Solar PV	10	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Dec-22
Gigawatt Zambia Hybrid Project	Zambia	Hybrid RE/EE	71	The transaction is ON HOLD. The developer made no progress during the reporting period.	30-Dec-22
Mohale's Hoek	Lesotho	Solar	30	During communication between SAEP Lead Transaction Advisor and Phanes's Managing Director – Origination, Mr. Malik Bencherchali, he reported that they have not made progress and have decided to put their Lesotho Mozambican projects project ON HOLD until the end of 2021. They are instead focusing their efforts on more responsive markets.	30-Dec-22
Kanengo Solar	Malawi	Solar	20	The transaction is ON HOLD. The developer made no progress during the reporting period.	30-Sep-22
Kabompo Hydro	Zambia	Hydro	40	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Sep-23

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Lilongwe Solar	Malawi	Solar	25	The transaction is ON HOLD. The developer made no progress during the reporting period.	30-Sep-22
Luweya River Phase I	Malawi	Hydro	15	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Sep-23
Wonderkop Smelter	South Africa	EE	40	The transaction is ON HOLD. The developer made no progress during the reporting period.	30-Sep-22
IPP Global	South Africa	Gas-to-Power Project	200	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Dec-23
Arcelor Mittal South Africa (AMSA) Solar PV Energy Procurement	South Africa	Solar PV	160	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Dec-22
West Rand Urban Solar Farm	South Africa	Solar	10	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Dec-22
Themis Sahofika	Madagascar	Hydro	192	No updates for this reporting period. This project remains on hold. The previously anticipated financial close date of 31 December 2021 is not possible, however, there isn't a view yet of what an appropriate date would be.	31-Dec-22 (Updated date yet to be confirmed)
Mbongozi Power	Malawi	Hydro	41	During follow-up discussions between the SAEP Lead Transaction Advisor and Mr. Songhi in September 2021, Mr. Songhi stated that they have considered inputs and EGENCO decided that they would not partner with HE Power on the project. EGENCO also communicated the decision to HE Power. HE Power would remain involved but will need to seek other partnering possibilities.	31-Dec-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Buroma Hydro	Mozambique	Hydro	200	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Mar-23
Lupata Hydro	Mozambique	Hydro	600	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Mar-23
Baynes Hydro Power Project	Namibia	Hydro	600	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Mar-23
Mondi - Biomass / Cogen Richards Bay plant	South Africa	Biomass	48	The transaction is ON HOLD. The developer made no progress during the reporting period.	31-Dec-22
GET FIT Zambia Round 1 – Small Solar	Zambia	Solar	120	The transaction is ON HOLD The selected developers previously expressed concern and discomfort with the "bankability" and credit risk of the PPA's with ZESCO. This is because of ZESCO's financial situation and uncertainty around the support the government will provide and require comforting/supporting letters from the Govt of Zambia	30-Sep-22
GET FIT Zambia Round 2 - Mini Hydro	Zambia	Hydro	100	The transaction is ON HOLD This transaction is meant to follow once the GET FiT Round 1 project progresses.	31-Dec-22
Kafue Gorge Regional Training Centre	Zambia	Hydro & Wind	10 MW Hydro & 7.5 MW Wind	The transaction is ON HOLD. The developer made no progress during the reporting period.	N/A

Projects that are ACTIVE

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Lubango Solar PV	Angola	Solar PV	35	<p>The French independent power producer (IPP), Total Eren, a subsidiary of the Total Group, is leading the development of a 35 MWp solar power plant in Lubango, in the province of Huila. The project manager for Total Eren on this project is Mr. Olivier Francois-Martin. The IPP is implementing this project in partnership with Greentech-Angola Environment Technology</p> <p>Following further discussions between the SAEP and Mr. Francois-Martin during the reporting period, it was reported that the financing of the project is envisaged to be based on non-recourse project finance, with contributions of equity 1/3 (33.3%) and debt via development financing institutions (DFIs): 2/3 (66.7%).</p> <p>The project has been in development for a couple of years. Progress achievements to date include securing of land has been secured for the project site. Concession agreements discussions and grid connection studies are well advanced.</p> <p>Financial close is targeted for December 2022</p> <p>Way forward: SAEP IPP assistance</p> <ul style="list-style-type: none"> • Mr. Francois-Martin will share potential project challenges with SAEP, which SAEP will review and discuss potential target areas for assistance • SAEP is in the process of scheduling a meeting with Total Eren, where SAEP team members will share their insights and experience working on projects in Angola 	31-Dec-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<ul style="list-style-type: none"> SAEP scheduled a broader meeting with Total Eren for 19 January 2022 in order to include SAEP team members with Specific Angola experience. 	
BPC Solar PV	Botswana	Solar PV	100	<p>SAEP support to BPC has concluded but continues to track the development of the project.</p> <p>Updates on the project are currently difficult to obtain due to BPC's lack of response. Through rumor we learned that 1 of the 50MW projects has been awarded, but that the other 50MW project developer awarded asked for a sovereign guarantee which will not be granted and thus BPC has decided to go back out to the applicants to seek bids on the project. As such, the financial close date will probably move beyond March 2022.</p>	31-June-22
Kalahari Energy Coal Bed Methane (CBM)	Botswana	Coal Bed Methane (CBM)	97	<p>Following discussions between the SAEP Lead Transaction Advisor and Mr. Posthumus during the reporting period, it was stated that the proposed PPA under discussion as received from the Ministry of Energy is still targeting a capacity of 97 MW. Kalahari is comfortable that the Legal advisor to the ministry,</p> <p>Kalahari considered the draft PPA and provided comments and a marked-up PPA to the Ministry of Energy in October 2021.</p> <p>They are awaiting response from the Ministry and intend involving SAEP in the next round of PPA mark-ups and discussions.</p>	31-Dec-22
Neo I - OnePower	Lesotho	Solar PV	20	<p>Following further discussions between the SAEP Lead Transaction Advisor and Mr. Motzen during the reporting period, it was reported that on 25 November 2021, an official ceremony took place in Maseru, Lesotho, where Norway-based renewable power producer, Scatec entered into an agreement with the Lesotho Electricity</p>	31-Mar-22 (Confirmed by the developer)

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>Company and the Government of Lesotho to build the 20 MW Neo I Solar PV Project.</p> <p>The Power purchase agreement (PPA), connection agreement (CA) and implementation agreement (IA) were all signed at the official ceremony. Financial close is targeted for early 2022. The PPA is for a period of 25 years.</p> <p>The Renewable Energy Performance Platform is funding the project and equity co-sponsors include Scatec, Norfund, One Power Lesotho, Lesotho Pension Fund and Izuba Energy.</p>	
ANKA Segments 2 & 3: Madagascar	Madagascar	Mini-grid	2.35	<p>As part of AP2 Phase I project, the 400kW Mangily and the 220kW Anakao power generation plants achieved commercial operations to the great delight of the populations benefitting from renewable energy available 7 days a week, 24 hours a day.</p> <p>Income-generating activities are being created by ANKA and developed, households are improving their living environment, public services are providing their service, and the attractiveness of these two villages has greatly increased.</p> <p>The turnover for both clusters still shows a positive and regular trend. It should be noted that this trend is still upwards for the sale of kWh. In addition, with a view to increasing the volumes of consumption and popularising the use of household cooking appliances and utensils for households, ANKA has set up a project to popularise clean electrical cooking solutions with their partner ATMOSFAIR gGmbH.</p> <p>SAEP is currently awaiting more project updates from ANKA.</p>	<p>AP2 Phase 1: Completed 12/31/2020</p> <p>AP2 Phase I bis project: 3/31/2022</p> <p>Scale North: 6/30/2022</p> <p>AP2 Phases 2 & 3: 12/31/2023</p>

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
Mpatamanga Hydro Electric Project	Malawi	Hydro	350	<p>In Q1 of FY22, SAEP supported the Government of Malawi (GoM) in evaluating the bid. The Team established several working groups, each focusing on specific portions of the bid and identifying issues that would need to be discussed between GoM and the bidder. The Team continued with their facilitation of GoM's advisors funded by World Bank funding and were able to unlock the procurement stalemate between GoM, the World Bank, and Mott MacDonald.</p> <p>The following achievements were met during the current reporting period:</p> <ul style="list-style-type: none"> • There was continued engagement with GoM. The Team leverages two approaches to keep GoM engaged and focused on the Project: <ul style="list-style-type: none"> ○ The first is through a weekly call between the Ministry of Energy, the PPPC, other relevant GoM personnel, and GoM's advisor team to align on open items. This call is hosted by GoM's tender agent, K&M advisors, who works with the Team to prepare an agenda for each coming meeting and to identify the relevant GoM personnel whose attendance would be required. ○ The second is for daily, informal telephone calls between the Team and GoM delegates responsible for open workstreams. Specifically, the Team has calls with the procurement specialist on the newly formed Project Implementation Unit (PIU) and the Environmental and Social (E&S) Department's representatives. The E&S positions on the PIU are still in the process of being filled. 	30- June- 23

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<ul style="list-style-type: none"> Bid evaluation: the Team established four working groups to review their respective component of the bid and identify key issues that would need to be discussed with the wider GoM team and the bidder. These groups were for: Technical, Financial, Environmental and Social, and Legal. The Team oversaw GoM advisors' support in the Technical and Legal groups, but provided in person advisory for the financial group as well as project management and administration support to the Environmental and Social Team. The Working groups worked to identify areas for additional costs and/or risk reduction and areas where the bidder proposed a price different to what GoM and their advisors believe is adequate. The financial working group identified several financial options for reducing project (i.e. a waiver of certain taxes) and the team managed the financial model to estimate the effect that each cost reduction would have on the eventual implied tariff. The Team facilitated the conversations between GoM, the modelling, and GoM's technical advisors to ensure the model updates are made appropriately Preparation Presentation to GoM Negotiation Committee: The Team advised GoM to prepare to enter into negotiations with the bidder as soon as each working group's review of the bid is complete and each group provides an issues list to GoM. GoM identified the week of 24 January 2022 as an opportune time to start negotiations. The Team worked with the working groups to complete the individual issues lists and then worked with GoM advisors to propose what GoM's negotiation position should be for each of the identified issues. The Team then compiled a single presentation to provide GoM 	

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>with a comprehensive overview of all issues and the advisors' proposed responses. This presentation was then presented to the Task Force on 21 December 2021. The GoM Steering Committee then formed a Negotiation Committee out of several senior government officials who will engage in the negotiations with the bidder. On 22 December 2021, the Team presented the issues lists and suggested GoM responses to the Negotiations Committee during a full-day virtual workshop.</p> <ul style="list-style-type: none"> • Mott MacDonald Procurement Deadlock: A revised scope was agreed on in Q4 of 2021 and the consultant has issued a proposed variation for the remaining work. Additionally, GoM obtained internal funding to be used to compensate the consultant for the out-of-scope work already completed. SAEP supported GoM in evaluating the consultant's out-of-scope proposal and advised GoM on their negotiation with the consultant on which costs would be reimbursed during negotiations held on 18 November 2021. By end of December 2021, all negotiations were complete, and Mott issued an invoice to GoM for payment. GoM will pay this invoice in January 2022. 	
Nchalo Solar IPP Project	Malawi	Solar	10	<p>Illovo Sugar Malawi is an energy-intensive user and considering heat and electricity supply options for its use. The Nchalo Mill currently has 5 boilers and turbines producing 9 MW of power with the potential for the addition of 2 boilers and a turbine to produce 23 MW (>100 GWh/a), or even a larger turbine.</p> <p>SAEP previously tasked legal firm, Cliffe Dekker Hofmeyr for a legal review of the regulatory framework in Malawi that could be impacted by Illovo's contracting and electricity generation options.</p>	30-Sep-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>Depending on the technical configuration, Nchalo could supply a large portion of its own energy and electricity need and could even assist ESCOM with surplus electricity supply into the ESCOM grid.</p> <p>Nchalo is considering various commercial, contracting and financing options for the project.</p> <p>No progress made by Nchalo during the reporting period.</p>	
Alten Energias Renovables (ALTEN):	Mozambique	Solar PV and BESS	40 MW solar PV and 40MWH BESS	<p>SAEP is supporting Alten Energy with the development of a financial model for a solar PV and BESS project in Mozambique.</p> <p>In October Alten decided to proceed with approaching the market with the Solar PV and BESS project. SAEP assisted Alten Energy in the selection of the Cuamba site.</p> <p>SAEP continued during the reporting period with various discussions with Alten, as well as model reviews, additional model options, inputs and model updates.</p> <p>SAEP and Alten continued with various meetings to address Alten's remaining questions and assisted with providing regular updated models to Alten.</p>	31-Jan-2023
Dondo Solar	Mozambique	Solar	50	<p>Phanes Group was developing the 50 MW Dondo Solar PV project.</p> <p>During the reporting period, SAEP Lead Transaction advisor followed up with Phane's Managing Director – Origination, Malik Mr. Bencherchali. Mr. Bencherchali stated that they have shifted their focus away from Mozambique to other markets presently (no details were provided on the other markets).</p> <p>The European Commission, together with the French Development Agency (AFD) is supporting the country's</p>	31-Dec-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>Projeto de Promoção de Leilões para Energias Renováveis (PROLER) auction scheme for renewable energies.</p> <p>ARENE, the Mozambican energy regulator announced that five entities were shortlisted for the development of the 30 MWac (40MWp) Dondo Solar PV project in Mozambique under the PROLER Programme. Phanes was not included in the shortlist.</p> <p>The project has been included under the broader PROLER project.</p>	
Lichinga Solar	Mozambique	Solar	23	<p>The European Commission, together with the French Development Agency (AFD) is supporting the country's Projeto de Promoção de Leilões para Energias Renováveis (PROLER) auction scheme for renewable energies.</p> <p>For the PROLER scheme, the following three 40 MW solar plants, as well as one 40 MW wind project, are targeted.</p> <p>The project has been included under the broader PROLER project.</p>	30-Jun-22
Mandimba Solar	Mozambique	Solar	50	<p>During the reporting period, SAEP Lead Transaction advisor followed up with Phane's Managing Director – Origination, Malik Mr. Bencherchali. Mr. Bencherchali stated that they have shifted their focus away from Mozambique to other markets presently (no details were provided on the other markets).</p> <p>The project has been included under the broader PROLER project.</p>	30-Jun-22
Naamacha Wind Farm	Mozambique	Wind	60	<p>eleQtra is leading the development of the 120MW Namaacha Wind IPP, to be developed in two phases of 60 MW each, located in the Namaacha District in southern Mozambique. The project was awarded a USD \$2 million</p>	30-Sep-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>in USTDA grant and USD \$400,000 from AfDB for legal fees. This plant will be among Mozambique's first utility-scale wind power plants. EleQtra project leader, Mrs. Lauren Thomas is leading the development of the project.</p> <p>Following further discussions between SAEP Lead Transaction Advisor and Mrs. Thomas during the reporting period, it was reported that eleQtra continues to move forward with addressing outstanding land issues and required studies.</p>	
CENORED	Namibia	Solar PV and Battery storage	10 MW Solar + 10 MWh storage	<p>To reduce cost exposure, CENORED is implementing a strategy to integrate embedded distributed generation capacity within its network and thus reduce dependence on NamPower supply. CENORED has identified six solar PV sites for consideration and intends to procure solar PV-generated electricity from independent power producers (IPPs) for the installation of Solar PV grid-connected systems. To manage the variability from these potential renewable energy (RE) plants CENORED is also considering the use of battery energy storage (BESS). The systems will be integrated into CENORED's network for which they intend to run a bidding process for the ultimate selection of IPPs, with all sites developed on an IPP basis. CENORED's Executive Manager, Engineering & Systems Development, Mr. Silvester Wayiti is leading the project.</p> <p>CENORED publicly issued a "Request for Expression of Interest and Pre-qualification for the Procurement of Alternative Energy" during the reporting period.</p> <p>CENORED is currently evaluating submissions received in response to the request for EOI. Following the evaluation,</p>	30-Jun-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>a request for proposal (RFP) will be distributed to selected entities.</p> <p>The 10 MW Okahandja solar PV and BESS project was excluded from the original EOI request and hence no submissions were received for Okahandja. In October 2021 CENORED decided to proceed to issue a request for EOI in respect of Okahandja. SAEP again assisted CENORED with a review and comments of the draft. SAEP additionally drafted an "EOI Submission Template" to be issued with the request for EOI.</p>	
Oshakati Premier Electric (OPE)	Namibia	Solar PV	5	<p>Oshakati Premier Electric (OPE) Executive: Finance, Bennodictus Sheehama is leading the development of the project.</p> <p>In October 2021 Mr. Sheehama informed SAEP that the OPE board has finally resolved on which bidder should be awarded the Engineering, Procurement and Construction (EPC) tender. Communication has already been made by OPE to the selected bidder. In addition, the OPE board selected possible financiers for further discussions on their offerings.</p> <p>SAEP provided comments to OPE on i) the three financiers selected by OPE board as well as ii) detailed items for potential inclusion in financing terms sheets for a) debt to be provided to the special purpose vehicle (SPV) and b) equity financing to be provided to OPE for the funding of their required investment into the SPV.</p>	30-Sep-22
City of Cape Town: Support to IRP and IPP Efforts	South Africa	Solar	70	<p>Given the ministerial determination that will potentially allow qualifying municipalities to purchase electricity directly from IPPs, the CoCT wants to move forward with some initiatives in this respect.</p>	31-Dec-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>In May 2021, SAEP and the CoCT discussed ideas for collaboration with the CoCT, and potential items for collaboration were identified.</p> <p>During the reporting period, SAEP provided assistance to CoCT Manager: Generation Development and Municipal Energy Efficiency, Shane Prins.</p> <p>SAEP assisted the CoCT with clarification in respect of the draft PPA which the CoCT wishes to engage the market for IPP Procurement. Discussion items included:</p> <ul style="list-style-type: none"> • Credit Support: "Failure to make Payments" and the use of escrow accounts as credit support mechanism. • Buyer Default and calculation of termination costs related to buyer default. • Draft wording of the clauses pertaining to credit support and buyer default payments. <p>CoCT requested further assistance from SAEP with the calculation of potential savings/costs to the CoCT with the potential procurement of IPP projects similar to the risk mitigation IPP procurement programme (RMIPPPP). Such projects to be targeted at assisting the CoCT in a typical high (stage 4) load shedding scenario. SAEP assisted CoCT with a financial model providing for options, such as:</p> <ul style="list-style-type: none"> • 60MW Paardevlei Solar PV Financial model • 200MW Solar PV Financial model <p>On request of the CoCT, the SAEP financial model additionally provides for the calculation of:</p> <ul style="list-style-type: none"> • "Termination payment" quantum (ZAR) of "Buyer Default" 	

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<ul style="list-style-type: none"> • Calculation of CoCT termination payment obligation for every year (from year 1 to end of PPA) • Tariff Graphs: Include tariff graphs • Energy costs: Calculate and include graphs for: • Total IPP vs Eskom energy costs saving: ZAR/annum <p>Various meetings between SAEP and CoCT were held to assist CoCT with the additional financial model training, functions, calculations and results. SAEP assisted CoCT with further high-level training on the model and calculation of potential savings and termination costs obligation in respect of the to CoCT.</p> <p>CoCT will discuss internally and revert back to SAEP for further assistance. SAEP is currently still awaiting final project approvals by the CoCT.</p>	
City of Cape Town Rooftop PV SSEG Program	South Africa	Solar	50	<p>The City of Cape Town is currently reviewing the commercial options under which to pursue the project.</p> <p>No progress reported by CoCT during the reporting period.</p>	30-Sep-22
SunElex: Matjhabeng Solar	South Africa	Solar	450	<p>SAEP provided financial modeling assistance to SunElex. SunElex unfortunately did not provide a bid submission in the REIPPPP bid window 5 that was due on 16 August 2021. They have said they have plans to bid in Bid Window 6.</p> <p>No progress reported during the reporting period.</p>	31-Dec-22
City Power, Johannesburg	South Africa	Renewable Energy	[TBC]	<p>In easing generation license requirements for projects up to 100MW and the anticipated ministerial determinations that will allow municipalities to buy power from IPPs, various local government and municipal entities in South Africa intend to solicit power from IPPs and signing PPAs with IPPs. The South African Local Governments</p>	30 Jun 2023

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>Association (SALGA) has, amongst other support requirements, requested SAEP's assistance with improved understanding of project finance principles used by IPPs in the development of renewable energy generation (e.g., solar, wind) projects through facilitated workshops, dialogues and training sessions with selected municipalities. A total of six training sessions of two and a half hours each were completed on 28 September 2021.</p> <p>SALGA has identified eight (8) municipalities to receive the initial training/support, which includes CITY Power, in view of City Power's IPP initiatives to date.</p> <p>City Power intends soliciting power from IPPs and signing PPAs with IPPs. Discussions between SAEP and City Power commenced in December 2021. City Power intends agreeing internally on how to position themselves. They have various stakeholders and need to conduct stakeholder consultations to revert back and guide on what assistance is needed from SAEP.</p> <p>A LOC will then be drafted, discussed and entered into between SAEP and City Power.</p>	
Chipili & Mansa Power Projects: CGM Power Group	Zambia	Hydro	2 x 50 MW Solar PV plus 2 x 20 MW BESS	<p>CGM Power Group is developing the two 50 MW with 20 MW BESS Chipili and Mansa projects. Both projects will feed into the northern circuit of Zambia's energy network. During the first quarter of 2021, SAEP facilitated introductions between CGM and Climate Fund Managers (CFM) for potential cooperation and funding participation by CFM</p> <p>No progress reported by developers during the reporting period.</p>	30-Jun-22
Ngonye Falls Hydro	Zambia	Hydro	180	Wester Power Company's (WPC) Managing Director, Tom Younger is leading the development team. Following	30-Sep-22

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>further discussions between the SAEP Lead Transaction Advisor and Mr. Younger during the reporting period, it was reported that all technical survey, studies and analysis are completed and technical and economic feasibility is proven. A comprehensive Community Participation Agreement has been completed with the host community with the Environmental and Social Impact Assessment (ESIA) completed and approved by the regulator.</p> <p>A Power Purchase Agreement (PPA) is in the final stage of negotiation with the Zambian power utility, ZESCO.</p> <p>The Engineering Procurement and Construction (EPC) Contractor Procurement is underway and contractors shortlisted under the EU Procurement Regulations. The acquisition of land and water rights is close to completion.</p> <p>In December 2021 WPC stated that they are ready to recommence with project finance discussions with potential financiers. The project was one of the opportunities shared by SAEP with Africa Trade Insurance Agency (ATI) during the ATI - Power Africa 2021 Deep Dive Sessions in May 2021 refers. ATI is seeking projects to assist with their guarantees and insurance facilities in order for the projects to raise the required financing.</p> <p>WPC intends involving ATI in finance discussions. SAEP reached out to ATI for potential dates/times for an introductory call between ATI and WPC.</p>	
Unika Wind Mphepo Power	Zambia	Wind	100	<p>Mphepo Power's Managing Director, Mrs. Linda Thompson, is leading the development of the 90 MW Unika Wind Power Project in Zambia. In November 2019, Mphepo Power installed a 120-meter meteorological mast to measure the wind potential for the wind power project. The Implementation Agreement (IA) needs to be</p>	31-Mar-23

Project name	Country	Technology	Project size [MW]	Current Status	Estimated Financial Close Date
				<p>concluded whereafter unsolicited PPA negotiations with ZESCO can officially begin.</p> <p>Following discussions between the SAEP Lead Transaction Advisor and Mrs. Thompson during the reporting period, it was stated that negotiations are still progressing in respect of the government agreements.</p> <p>No progress reported by developers during the reporting period.</p>	

APPENDIX B TRANSACTIONS REACHED FINANCIAL CLOSE

The projects listed below reached FC during Q1FY22.

Code	Project Name	Country	Technology Used	MW	Project Sponsor	Financial Intermediary	Date of Financial Closing	Risk Mitigation Tools	Female Ownership
TR-MZ-	CTT Power Project	Mozambique	Generation	450	EDM	IFC, DFC, OPEC Fund	8-Dec-21	Sovereign Guarantee	No
TOTAL									

APPENDIX C TRANSACTIONS REACHED COMMERCIAL OPERATION

The projects listed below reached COD in Q1FY22.

Project Name	Country	Technology Used	MW	Date of Commercial Operation
EEC Lavumisa	eSwatini	Solar	10	30-Sep-2021
Salima Solar	Malawi	Solar	60	15-Nov-2021
Garob Wind Farm	South Africa	Wind	135.9	4-Dec-2021
TOTAL			205.9	

APPENDIX D SOUTHERN AFRICA PRIORITY TRANSMISSION PROJECTS

Project priority level

- Active intervention required
- Light support required
- Watchlist



Note: the lines represented are illustrative and do not reflect the actual delineations

Trade opportunity	Connected substations (line name)	Length (km)	Status	FC	COD	SAEP involvement	SAEP project name
Connecting Malawi to the power pool	A Phombeya, Matambo	218	Implementation	Jul 2020	2023	SAEP provide capacity building for ESCOM on: <ul style="list-style-type: none"> • 400 kV operations and maintenance • Operating in an interconnected power pool, which will include possible site tours to the SAPP Head Office and two utilities' (EDM and ZESCO) National Control Centre • Production optimization with a model which is being utilized by the ESCOM planning engineers The project reached FC in July 2020 and construction is underway.	Malawi–Mozambique Interconnector
	B Solwezi, Kolwezi	79	Feasibility	Dec 2021	2024	No direct SAEP involvement. The consultant who was hired to do the technical feasibility studies finalized the report in December 2020, and in October 2020 a consultant hired to do the EIA commenced work and has started engagements with the local community.	Kolwezi–Solwezi Interconnector
Bringing new power capacity to the regional market	C Triangle, Nzhelele (MoZiSa)	275	Feasibility	-	-	No direct SAEP involvement. SAEP is, however, considering assisting EDM with the internal expansion of their system from Temane to Inchope which will be the main feed to the interconnector.	Triangle, Nzhelele (Zimbabwe–South Africa portion on MoZiSa)
	D Bindura, Songo (MoZiSa)	400	Feasibility	-	-	No SAEP support. The current Songo–Bindura line is sufficient to evacuate the Cahora Bassa power.	-
	E Kafue Town - Livingstone	350	Feasibility	Dec 2020	-	No direct SAEP involvement but SAEP is looking to support ZESCO through the fielding of a project coordinator who will assist ZESCO to establish a PMO and portfolio management discipline.	ZESCO Internal Strengthening
	F Kasama, Mbeya (ZTK)	343	Construction	Dec 2022	-	No SAEP support or involvement. The Government of Zambia declined the World Bank's loan with the main reason being that the project was not a priority. Funding was intended for the second 330 kV transmission line from Pensulo through Mpika to Kasama and then to the Tanzanian border at Nakonde with its associated substations. There is currently no alternative financing being pursued.	Zambia–Tanzania portion of the ZTK Interconnector
	G Vilanculos, Maputo (STE)	560	Construction	Dec 2020	2023	SAEP supported EDM through the fielding of an embedded project coordinator who was managing and coordinating the TTP and its interface to the Temane 450 MW IPP project. On 1 November 2020, the project coordinator was appointed as a permanent staff member of the TPP. FC for TTP was reached on 10 December 2020, after all project funders confirmed grant effectiveness, and for CTT FC was reached on 8 December 2021. Construction is underway with factory acceptance tests ongoing and tower type tests completed. Construction of the resettlement houses will commence in the second quarter of Year 5.	Temane Transmission Project (TTP), the first phase of STE
Western corridor opportunity/ delivering power to Namibia	H Harib–Kenhardt	270	Development	-	-	No SAEP involvement. During Year 1, SAEP engaged NamPower on Namibian interconnectors – they indicated they would revert to request support.	-
	I Baynes Hydropower Plant, Ondjiva (ANNA)	362	Feasibility	-	2025	The feasibility studies for this interconnector are still underway – a joint activity between both NamPower and RNT. SAEP will be providing capacity building to RNT on commercial agreements and also operating in an interconnected system. AfDB and DBSA are some of the financiers who are looking into funding the construction of the line.	ANNA

APPENDIX E PERFORMANCE MONITORING & EVALUATION TABLES

The table below shows the FY22Q1 results of the Program indicators, attributable to SAEP's efforts.

Number of Transactions Reached Financial Closure [PA6]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to Date	Life of Project	Data Source: Activity counterpart (developer, government or donor) letter or email confirming financial close; written confirmation from Financial Mobilization Memo party; and/or public press release
Target	3	0	2	1	6	NA	37	Note: Mozambique <ul style="list-style-type: none"> • CTT Power Project with 450 MW reached FC
Actual	1				1	35	35	Deviation Narrative: SAEP has already reached the life of project target for MWs reached financial close.

(#AA) Capacity (MW) from Transactions Supported by SAEP that Achieved Financial Closure [1 / PAI] ²

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Activity counterpart (developer, government or donor) letter or email confirming financial close; written confirmation from Financial Mobilization Memo party; and/or public press release
Target	552.35	0	30	5	578.62	NA	4,000	Note: Mozambique <ul style="list-style-type: none"> CTT Power Project with 450 MW reached FC Deviation Narrative: SAEP has already reached the life of project target for MWs reached financial close.
Actual	450				450	5,771.38	5,771.38	

Utilization of Risk Mitigation Tools [PAI6]

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Activity counterpart (developer, government or donor) letter or email confirming financial close; written confirmation from Financial Mobilization Memo party; and/or public press release
Target	3	0	2	1	6	NA	37	Note: Mozambique <ul style="list-style-type: none"> CTT Power Project used Sovereign Guarantee Deviation Narrative: SAEP has already reached the life of project target for MWs reached financial close.
Actual	1				1	34	34	

² GCC indicator is “Clean energy generation capacity (MW) that has achieved financial closure (4.8.2-33)” This indicator includes both our target for 3,000 MWs generation and 1,000 MWs of new transmission capacity

Number of Transactions Pending Financial Closure [PA5]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Transaction Advisors verify the number of transactions from project proposals, draft deal agreements or negotiation documents and update the transaction data in PATT and the SAEP transaction list. Whenever possible, source documents should be uploaded into the PATT. Note: There are no quarterly targets for this indicator
Target	NA	NA	NA	NA	NA	NA	38	
Actual	2				2	86	86	

Generation and Transmission capacity (MW) pending financial closure [2 / PA2]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Transaction Advisors verify the MWs of transactions from project proposals, draft deal agreements or negotiation documents and update the transaction data in PATT and the SAEP transaction list. Whenever possible, source documents should be uploaded into the PATT. Note: SAEP has added two more transactions from South Africa to the pipeline, namely the Atlantis Solar PV (10 MW) and Paardevlei Solar PV (60 MW).
Target	NA	NA	NA	NA	NA	NA	4,100	
Actual	70				70	11,796	11,796	
Gx	70				70	8,896	8,896	
Tx	0				0	2,900	2,900	

Number of New Grid and Off-Grid Projected Direct Connections [5 \ PA5]

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project Progress Reports; M&E Tool; On-grid connections sourced from national and private utilities where possible. Off-grid connections sourced primarily from project sponsor documents and financial agreements.
Target	NA	NA	NA	NA	NA	NA	3,000,000	Note: The balance of the remaining 1,338,129 projections is made up of the below breakdown: On-grid <ul style="list-style-type: none"> • ENDE: 460,052 • EDM: 453,565 Off-grid <ul style="list-style-type: none"> • Madagascar: 14,125 • Malawi: 74,058 • Mozambique: 104,128 • Zambia: 232,201
Actual	1,338,129				1,338,129	1,338,129	1,338,129	

(#AB) Direct Electricity Access [4 / PA10]

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project Progress Reports; M&E Tool; On-grid connections sourced from national and private utilities where possible. Off-grid connections sourced primarily from project sponsor documents and financial agreements.
Target	168,459	175,142	227,302	224,190	795,093	NA	3,000,000	Note: The reported connections for Q1 are a result of SAEP's activities in Angola, Malawi, Mozambique and Zambia.
Actual	217,429				217,429	1,768,753	1,768,753	Off-grid: (107,357) <ul style="list-style-type: none"> • Malawi: 43,731 individual off-grid connections <ul style="list-style-type: none"> ○ Solar Home Systems sales: 35,978 ○ Lantern's sales: 7,753 • Mozambique: 14,342 individual off-grid connections <ul style="list-style-type: none"> ○ Solar Home Systems sales: 14342 ○ Lantern's sales: 0
Off-Grid	107,357				107,357	800,049	800,049	

(#AB) Direct Electricity Access [4 / PA10]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project Progress Reports; M&E Tool; On-grid connections sourced from national and private utilities where possible. Off-grid connections sourced primarily from project sponsor documents and financial agreements.
On-Grid	110,072				110,072	968,704	968,704	<ul style="list-style-type: none"> • Zambia: 45,144 individual off-grid connections <ul style="list-style-type: none"> ○ Solar Home Systems sales: 16,359 ○ Lantern's sales: 28,785 On-grid: (11,072) <ul style="list-style-type: none"> • Angola: 19,306 connections • Mozambique: 90,766 connections

Number of Transactions Commissioned [PA4]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: E-correspondence from USG Agency Partner, Development Partners, Private Sector Partners, Independent Power Producer/Developer/Consortium, Financier, and/or Host Government official; QTAT; Press release; News articles
Target	5	0	0	1	6	NA	27	Note: eSwatini <ul style="list-style-type: none"> • EEC Lavumisa with 10 MW reached COD Malawi <ul style="list-style-type: none"> • Salima Solar with 60 MW reached COD South Africa <ul style="list-style-type: none"> • Garob Wind Farm with 135.9 MW reached COD
Actual	3				3	24	24	

Generation Capacity (MW) Commissioned [3 / PA3]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: E-correspondence from USG Agency Partner, Development Partners, Private Sector Partners, Independent Power Producer/Developer/Consortium, Financier, and/or Host Government official; QTAT; Press release; News articles
Target	376.33	0	0	1,000	1,376.33	NA	2,393.88	Note: eSwatini <ul style="list-style-type: none"> • EEC Lavumisa with 10 MW reached COD Malawi <ul style="list-style-type: none"> • Salima Solar with 60 MW reached COD South Africa <ul style="list-style-type: none"> • Garob Wind Farm with 135.9 MW reached COD
Actual	205.9				205.9	1,690.4	1,690.4	

Electricity Loss Reduction (Aggregate Losses) / Aggregate Losses: Total technical and non-technical electricity losses [6 / PA12]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 4 Total	Total to date	Life of Project	Data Source: Utility records (Generation and sales records); utility loss calculator tools.
Target	0	0	0	2%	2%	NA	2%	Note: SAEP intervention will focus only on commercial losses, and will adopt the EDM set target (as prescribed by MIREME – Ministry of Energy) of reducing commercial losses by 2% per year over the next 4 years.
Actual	0					0	0	

Expected Lifetime Energy Savings from Energy Efficiency or Energy Conservation [7 / PA13]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project Progress Reports; M&E Tool; Program records for OC4.
Target	225	225	225	225	900	NA	5,724	Note:
Actual	0					46,718	46,718	

Amount Mobilized: Amount of investment mobilized for energy project (USD millions) [17 / PA18]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: E-correspondence from Developer; QTAT; Press release; News articles as well as from the grants tracking system.
Target	862,5	0	35,2	4,5	902,2	NA	7,232.6	Note: Mozambique <ul style="list-style-type: none"> CTT Power Project with 450 MW reached FC (US \$652.3M) Deviation Narrative: This indicator is linked to the transactions reached financial close indicator and SAEP has already reached the life of project target for MWs reached financial close.
Actual	652.3				652.3	6,778.8	6,778.8	

Number of Institutions with Improved Capacity [11]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Data collected using the Capacity Assessment Tool and or the Scope of Work tracker; Project Progress Reports; M&E Tool
Target	0	0	0	0	13	NA	61	Note: This is an annual indicator, there is no quarterly reporting required
Actual	0				0	58	58	

Number of Women in Energy Sector Leadership Roles (Custom) [12]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project documents, energy institution records, and interviews; Project Progress Reports; M&E Tool
Target	0	1	2	0	3	NA	12	Note:

Actual	0					9	9	SAEP did not have anything to report for this reporting quarter.
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(#Y) Number of Laws, Policies, Strategies, Plans, or Regulations Officially Proposed, Adopted, or Implemented [8 / PA15]

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Record of laws, policies, strategies, or regulations
Target	0	0	0	1	1	NA	31	Note: SAEP did not have anything to report for this reporting quarter.
Actual	0					33	33	

Number of Reports, Analysis, Reviews, Action Plans, Tools Developed and Campaigns and Trips Implemented (Custom) [9]

	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project Progress Reports; M&E Tool
Target	7	7	7	7	28	NA	205	Note: SAEP produced the following reports in Q1: <ul style="list-style-type: none"> • Zambia OSS Country Research Presentetion- Y5.01.04.01.ZMB • PML Single Buyer Compliance Register - Y5.02.02.01.MWI • Wildlife & Power Interaction Training Manual Mozambique - Y5.PMO.ENV.03 • Optimizing Utility Performance by Addressing Wildlife Interactions with Electrical Infrastructure: Field Assessment of the Status of Electrical Infrastructure Located in Protected Areas in South Africa - Y5.PMO.ENV.03 • Malawi SHS Kickstarter Reports: SolarWorks – Y5.04.06.04.MWI
Actual	8				8	222	222	

								<ul style="list-style-type: none"> Malawi SHS Kickstarter Reports: Vitalite - Y5.04.06.04.MWI Malawi SHS Kickstarter Reports: Zuwa - Y5.04.06.04.MWI Transaction Advisory services to GOM for Mpatamanga project – Y5.04.01.03.MWI*
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Number of People Receiving Training in Global Clean Energy [13a]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Data acquired from project records and training logs
Target	61	62	62	62	247	NA	1,313	Note: South Africa <ul style="list-style-type: none"> SALGA Revenue Management Training – Training 3: Credit & Debt Management (64 people trained at 4 Hours) SALGA Revenue Management Training – Training 4: Management of Non-Technical losses (39 people trained at 4 Hours) SALGA Revenue Management Training – Training 5: Customer Data Analytics and Technological Trends (40 people trained at 4 Hours) SALGA Electrification PMO Training - Day 1 and Day 2 (52 people trained at 8 Hours) Deviation Narrative: SAEP spent a significant amount of time conducting trainings with SALGA. These trainings were in Revenue Management and Electrification PMO. SAEP has already reached the Life of Project target.
Actual	195				195	1,533	1,533	
Male	115				115	1,173	1,173	
Female	80				80	360	360	

Number of Person-Hours of Training [13b]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Data acquired from project records and training logs
Target	516	516	516	516.5	2,064.5	NA	10,750	Note: South Africa <ul style="list-style-type: none"> SALGA Revenue Management Training – Training 3: Credit & Debt Management (64 people trained at 4 Hours) SALGA Revenue Management Training – Training 4: Management of Non-Technical losses (39 people trained at 4 Hours) SALGA Revenue Management Training – Training 5: Customer Data Analytics and Technological Trends (40 people trained at 4 Hours) SALGA Electrification PMO Training - Day 1 and Day 2 (52 people trained at 8 Hours) Deviation Narrative: SAEP spent a significant amount of time conducting trainings with SALGA. These trainings were in Revenue Management and Electrification PMO. SAEP has already reached the Life of Project target.
Actual	988				988	11,505.5	11,505.5	
Male	604				604	8,757	8,757	
Female	384				384	2,748.5	2,748.5	

(#X) Percentage of RFP Section F Deliverables Submitted in a Timely Manner (Custom) [10]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program records
Target	100%	100%	100%	100%	100%	NA	100%	Note:
Actual	100%					100%	100%	

Kilometers of Power Lines Reached Financial Close [PA8]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project records tracking SAPP power lines; E-correspondence from Developer, and/or Government; QTAT; Press release; News articles
Target	0	0	0	0	0	NA	1,166	Note: SAEP did not have anything to report for this reporting quarter.
Actual	0					1,121	1,121	

National Energy Mix Showing % of MWs from Clean Energy Technologies in Each Country [PA7]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Government ministry documents; World Bank data; RERA national data
Target	0	0	0	0	0	NA	0	Note: This is a tracking indicator. SAEP did not anticipate to report anything for this indicator for this reporting quarter.
Actual	0					0	0	

Kilometers of Power Lines Constructed or rehabilitated [PA9]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Project records tracking SAPP power lines; E-correspondence from Developer, and/or Government; QTAT; Press release; News articles
Target	0	0	0	0	0	NA	0	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					0	0	

Greenhouse Gas (GHG) Emissions Reduced, Sequestered, and/or Avoided (thousand tCO ₂ e) [PA14]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program records, using the USAID CLEER Tool
Target	1,001,526.3	0	0	0	1,001,526.3	NA	4,376,435	Note: This indicator was calculated by SAEP. Moving forward it will be calculated by the IFC CLEER team. eSwatini <ul style="list-style-type: none"> • EEC Lavumisa (10 MW Solar Transaction) - 10,624 tCO₂e Malawi <ul style="list-style-type: none"> • Salima Solar (60 MW Solar Transaction) - 65,080 tCO₂e South Africa <ul style="list-style-type: none"> • Garob Wind Farm (135.9 MW Wind Transaction) - 279,100 tCO₂e
Actual	354,803				354,803	2,991,487	2,991,487	

US Exports Supplied for Clean and Cleaner Energy Projects [PA17]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Press releases; E-correspondence from private sector partners; Company information
Target	0	0	0	0	0	NA	0	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					0	0	

Partner Commitment Tracking (\$ million USD) [PA19]								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program documents
Target	0	0	0	0	0	N/A	N/A	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					1,137	N/A	

Number of competitive procurement processes for new generation capacity implemented with USG Power Africa assistance								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program documents
Target	0	0	0	0	0	NA	2	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					2	2	

Number of host-government power sector strategic planning documents adopted, implemented, or revised, with U.S. Government (USG) Power Africa support								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program documents
Target	0	0	0	0	0	NA	0	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					0	0	

New electricity capacity committed for regional trade through bilateral agreements								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Bilateral agreements collected from one country or from the regional power pools
Target	0	0	0	0	0	NA	0	Note: SAEP has nothing to report for this indicator this reporting quarter.
Actual	0					0	0	

Number of U.S. companies that participate in Power Africa outreach events								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program attendance documents
Target	0	0	0	0	0	NA	1	Note:

Number of U.S. companies that participate in Power Africa outreach events								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Program attendance documents
Actual	0					1	1	SAEP has nothing to report for this indicator this reporting quarter.

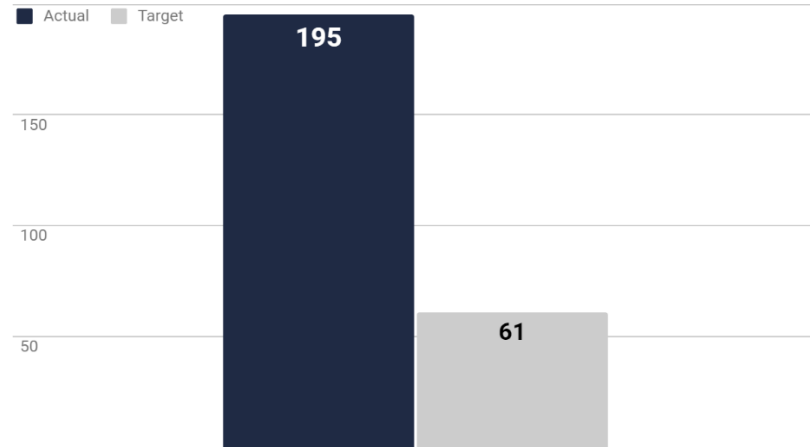
Number of U.S. companies participating in Power Africa Projects/Transactions								
	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	Year 5 Total	Total to date	Life of Project	Data Source: Transaction advisor notes from meetings with developers, ownership documents, or press releases about transactions.
Target	0	0	0	0	0	NA	2	Note: This indicator requires the number of US companies that are involved in transactions that have reached FC and COD. Quarter 1: SAEP had nothing to report for this indicator in this reporting quarter.
Actual	0					3	3	

APPENDIX F PARTICIPANT TRAINING REPORT

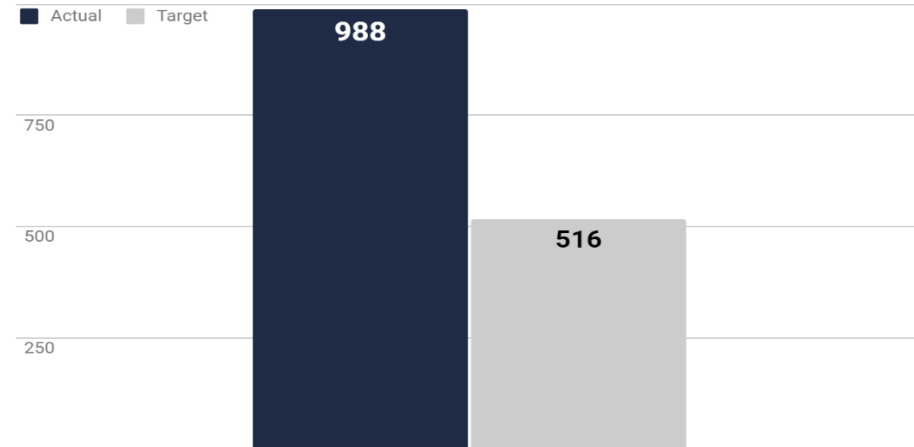
Country	Training & Capacity Building Activity	Date	Number of Males	Number of Females	Total Number of Participants	Hours of Training	Person-Hours of Training
South Africa	SALGA Revenue Management Training – Training 3: Credit & Debt Management	13-Oct-21	35	29	64	4	256
South Africa	SALGA Revenue Management Training – Training 4: Management of Non-Technical losses	27-Oct-21	23	16	39	4	156
South Africa	SALGA Revenue Management Training – Training 5: Customer Data Analytics and Technological Trends	3-Nov-21	21	19	40	4	160
South Africa	SALGA Electrification PMO Training - Day 1 and Day 2	1-Dec-21	36	16	52	8	416
			115	80	195	20	988

DASHBOARD FOR Q1 FY22 RESULTS OF SAEP ORGANIZED TRAININGS

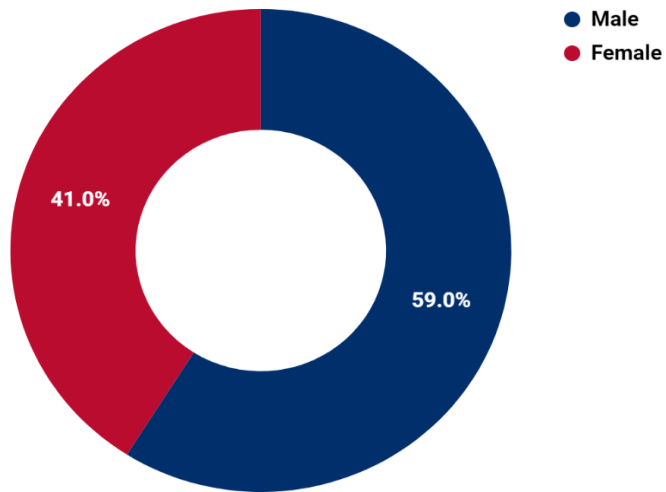
Number of People Receiving Training in Q1 FY22 (Actual vs. Target)



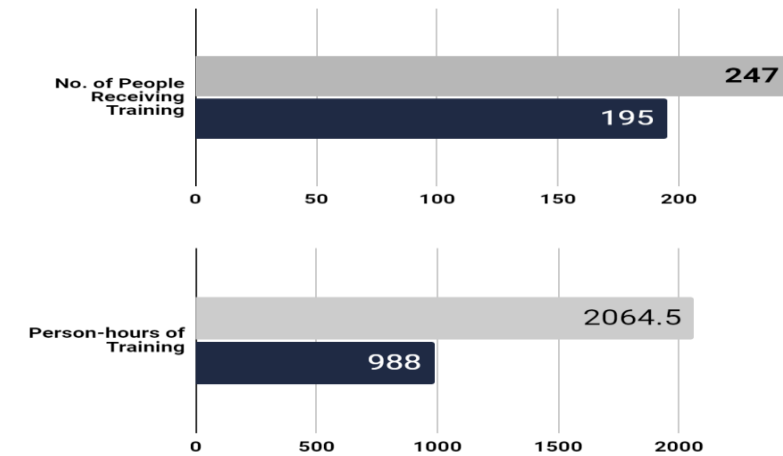
Person-Hours of Training in Q1 FY22 (Actual vs. Target)



Gender Disaggregation of Training Participants in Q1 FY22



Performance to Date for FY22 Trainings Against the Annual Target



APPENDIX G QUARTER I SUCCESS STORIES



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FROM THE AMERICAN PEOPLE



SUCCESS STORY

Advancing Angola's Central–South Transmission Line Project

Transmission infrastructure is a critical enabler to evacuate electricity from power stations, transport it to a point for distribution and bring power to those who need it. As a result, the USAID Southern Africa Energy Program (SAEP), a Power Africa initiative, focuses on strengthening utilities' capacities to manage transmission infrastructure projects. In Angola, SAEP provides technical advisory and training to the national electricity transmission company, *Empresa Rede Nacional de Transporte de Electricidade* (RNT), to carry out the Central–South transmission line project.

Currently, the Angolan Central and Southern power systems are disconnected. The construction of a transmission line from Huambo to Lubango, including a new substation and the expansion of another, will create an integrated national power grid – Northern, Central and Southern – and bring low-cost hydropower from the northern Kwanza River basin to southern provinces. The transmission line will have the capacity to evacuate around 1,000 megawatts to improve access to electricity, reduce the use of diesel generators and strengthen the financial viability of the power sector. It is also a precursor to connect Angola to regional electricity markets.

In March 2020, the African Development Bank (AfDB) announced a half-billion-dollar loan to Angola's power sector under the first phase of the Energy Sector Efficiency and Expansion Program (ESEEP). ESEEP consists of three components: constructing a 343-kilometer high-voltage transmission line to link Angola's Central and Southern grids, installing 1.2 million prepaid meters to improve revenue collection and program management for project design and implementation.

Building reliable and extensive transmission infrastructure is an intricate process. The involvement of international financing institution requirements in implementing international best standards and practices requires detailed planning and management. SAEP is supporting RNT to manage activities in moving the AfDB-funded project forward, including establishing and operationalizing a project implementation unit (PIU), while advancing key procurement processes related to the construction of the transmission line and associated substations. To successfully implement a project of this scale, RNT needs support from various contractors. Figure 1 below gives an overview of the main contractors involved in this power transmission project:



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SUCCESS STORY

Saving Cost and Energy for Eswatini's Water Utility

Energy and water are inherently linked. To provide consumers with clean water requires massive amounts of energy. Water utilities consume large amounts of energy to treat and distribute water – often running pumps and treatment plants around the clock. Incorporating cost-effective and energy-efficient practices into water and wastewater plants benefit both utilities and consumers, resulting in reduced consumer tariffs and better utility financial performance, decreased water losses, improved electricity efficiency and lower greenhouse gas emissions.

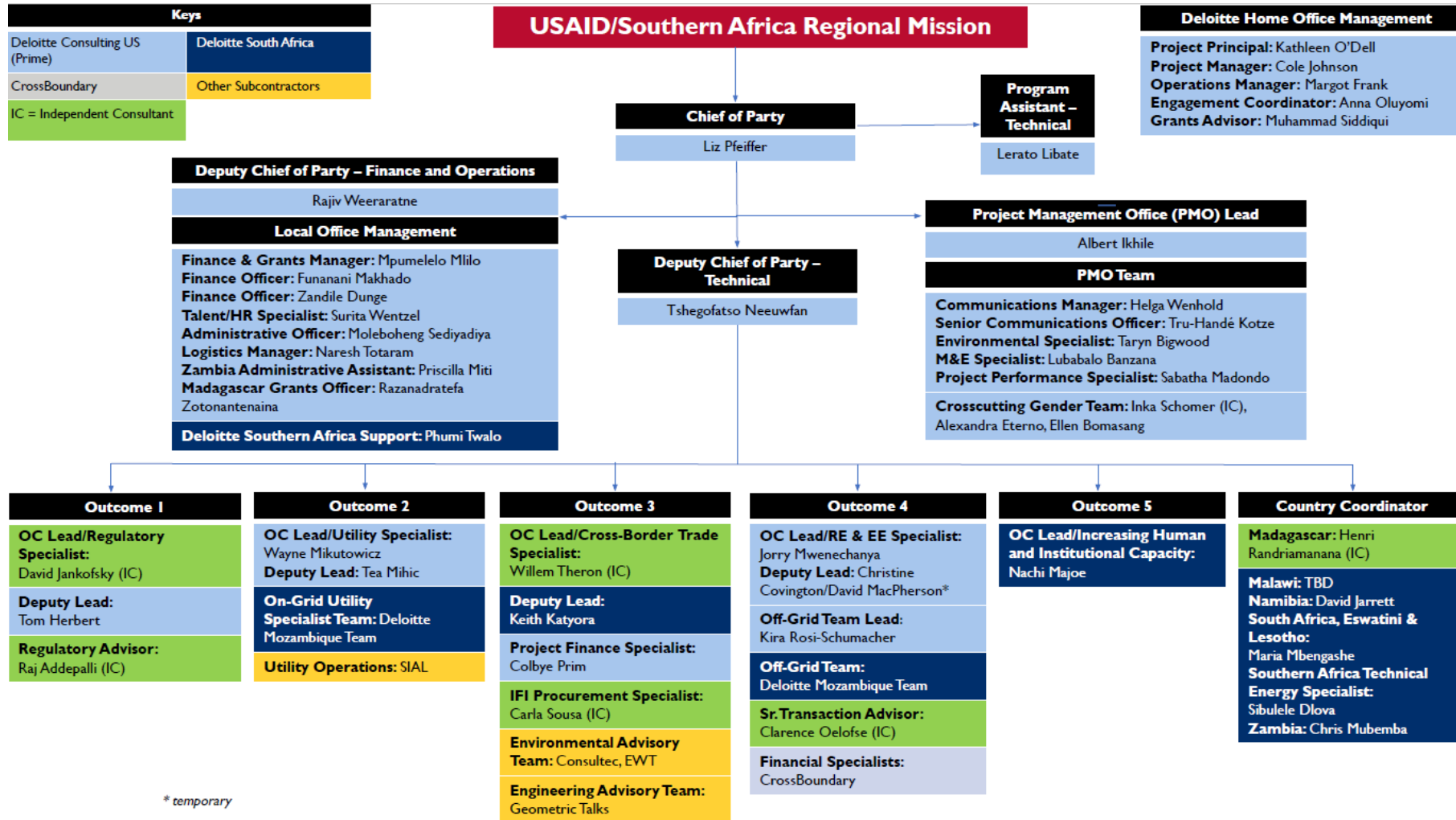
High energy costs constitute an essential barrier to Eswatini's goal of achieving universal water and sanitation access by 2030. At the Eswatini Water Services Corporation (EWSC), energy costs associated with pumping and treating water can be more than 40 percent of the total budget for operations and maintenance. Measures to reduce these costs would help make water more affordable for the poorer population segments. Increasing energy use efficiency also contributes to the country's broader social, economic and environmental goals by freeing up additional electricity for increased access and reducing carbon emissions. Energy-efficient measures include replacing inefficient pumps with smart pumps, implementing leak reduction and pressure management technology, shifting peak production hours to outside of peak energy hours and streamlining operations in an eco-friendly manner.

The USAID Southern Africa Energy Program

short-term recommendations, including the appointment of an energy management team that began to review operational practices aimed at reducing electricity costs, especially at pump stations.

EWSC installed energy and process meters at the primary water pumping and treatment facilities. This has enabled the utility to better monitor and continuously review its operational procedures to reduce energy consumption and operating costs. As a result, EWSC saved over 2.35 million kilowatt-hours (kWh) and USD \$200,000 from these measures in 2021 compared to 2019 benchmarks, while improving their efficiency (water output in m³/kWh) by 11 percent. The EWSC also implemented technology improvements directly targeting reductions in electricity costs. Key among these was installing power factor correction equipment for the control of pump motors. The savings enabled by

APPENDIX H ORGANIZATIONAL CHART & RESOURCES



SAEP Organizational Chart as at 31 December 2021

APPENDIX I SAEP TEAM TRAVEL DURING QUARTER I

During Q1, South Africa remained on an adjusted alert level 1, which allowed for travel. The Deloitte Home Office Risk Committee had to approve any travel based on the necessity for in-person meetings. The limited travel that took place is tabled below.

Travel Dates	Destination	No of Days	Traveler/ Purpose
13 – 23 November 2021	Lilongwe, Malawi	11	Sebastian Deschler and Jorge Rodriguez of the CrossBoundary team held meetings with the Government of Malawi) and the World Bank's International Development Association (IDA) on the Mpatamanga Hydropower Project
2 – 3 December 2021	Cape Town, South Africa	2	Sibulele Dlova attended the CoCT meeting.
8 – 10 December 2021	Kafue, Zambia	3	Chris Mubemba attended the One-Stop Shop workshop held at the Kafue Gorge Training Centre

APPENDIX J SAEP PARTNERS LIST FOR POWER AFRICA PARTNERS

Entity supported by SAEP /Power Africa (in alphabetical order)	Project	Country	Power Africa Sector Partner?
Access	130 MW Access Zambia One Pensulo Wind Project	Zambia	Yes
Afika Capital International		Zimbabwe	No
AKUO Energy	2.9 MW Solar PV Generation to replace HFO-LFO	Madagascar	No
AMEA Power	100 MW AMEA Power Wind	Zambia	<i>Intends to apply to PA partner</i>
ANKA (EOSOL)	Solar PV & Mini-grids	Madagascar	<i>Intends to become PA partner; Application submitted and in process</i>
Aurora Power Solutions	GET FiT solar: Globeleq & Aurora Power Solutions Aurora Sola One & Two – 20 MWac	Zambia	No
Baobab Plus	SHS	Madagascar	No <i>Also being supported by PAOP in West Africa. Should target to be a PA partner</i>
Botswana Power Corporation (BPC)	BPC Solar PV	Botswana	No; Govt utility
Building Energy	GET FiT solar: Bulemu East & West– 20 MWac	Zambia	No
CENORED	Solar PV & Battery Storage; 8-10 MW Okahanja Solar PV	Namibia	No
City of Cape Town	50 MW City of Cape Town Rooftop PV SSEG Program	South Africa	No; Govt
City of Windhoek (CoW)	Electrification Project	Namibia	No; Govt
Copperbelt Energy Corporation (CEC)	GET FiT solar: Garneton North & South Solar 20 MWac each	Zambia	No
Department of Energy of South Africa; REIPPPP	Various Round 3 & Round 4 IPP projects; Redstone 100 MW Solar CSP	South Africa	No; Govt
Development Consult	Wonderkop Smelter Energy Efficiency; Plettenburg Bay Waste-to-Power	South Africa	No
EDM	On-grid Connections	Mozambique	No; Govt
EGENCO	41 MW Mbongozi Hydro	Malawi	No; Govt
ENDE	On-grid Connection	Angola	No; Govt
EOSOL	SHS	Madagascar	No
Enel Green Power / Enel Group (Formerly ENEL of Italy, Enel Italy)	50 MW Ngonye Solar PV	Zambia	YES, PA Partner
Eleqtra	120 MW Namaacha wind	Mozambique	No <i>A partner that should probably be approached</i>
ESCOM	On-grid	Malawi	No; Govt

Entity supported by SAEP /Power Africa (in alphabetical order)	Project	Country	Power Africa Sector Partner?
ESKOM	EWT	South Africa	No; Govt
Fenix International	SHS Zambia, Mozambique	Zambia Mozambique	Yes
Gigawatt	230 MW Gas fired Gigawatt Park Phase 2	Mozambique	No
Gigawatt Global (GWG)	71 MW Gigawatt Zambia Hybrid Project	Zambia	YES, PA Partner
GLA Energy	250 MW Rovuma Gas	Mozambique	No
Globeleq	Temane Transmission Project (TTP)	Mozambique	YES, PA Partner
Government of Malawi	Mpatamanga Hydro	Malawi	No; Govt
Government of Eswatini	10 MW EEC Lavumisa Solar PV	Eswatini	No; Govt
Government of Zambia	50 MW GET FiT Zambia Round 1 – Solar PV; 100 MW GET FiT Zambia Round 2 - Mini Hydro	Zambia	No; Govt
Green Building Africa (GBA) Swaziland	10 MW Nsoko Solar PV; 20 MW Riverbend Solar PV	Eswatini	No
Kazang Solar	SHS	Zambia	No
Green Impact Technologies	SHS	Malawi	No
Kalahari Energy	97 MW Kalahari Energy CBM	Botswana	No
Kalahari GeoEnergy Limited, Zambia	10 MW Kalahari GeoEnergy Geothermal CBM	Zambia	No
Illovo Sugar	15 MW Nchalo Solar PV	Malawi	No
InnoVent	GET Fit solar: Garneton North & South Solar 20 MWac each	Zambia	No
Intelligent Energy Zambia Ltd (IEZL)	100 MW Kumi Kumi Zuba Solar PV	Zambia	No
JCM Capital (JCM)	60 MW Salima Solar PV; 18 MW Golomoti Solar PV (plus storage)	Malawi	YES, PA Partner
MicroPower	Transaction Advisory Services	Regional	No
Mondi	Mondi Richards Bay Electricity Export	South Africa	No
Mphepo Power Ltd (Western Power (Zambian), Buffalo Energy (English), OAK consulting CC (South African), Chewa Development Trust (Zambian))	Unika Wind Mphepo Power	Zambia	No; none of the consortium are partners
Neo Themis	192 MW Sahofika Hydro Power	Madagascar	No
NUMEN Pty Ltd		South Africa	No
One Power	20 MW NeoI Solar PV	Lesotho	No; but Gigawatt Global involved and is a PA Partner
Oshakati Premier Electric (OPE)	5 MW Solar PV	Namibia	No
Pele Green Energy	GET FiT solar: Bulemu East & West–20Mwac	Zambia	YES, PA Partner

Entity supported by SAEP /Power Africa (in alphabetical order)	Project	Country	Power Africa Sector Partner?
Phanes Group	30 MW Mohale's Hoek Solar PV 40 MW Mazenod Solar PV 21 MW Nkhotakota Solar PV	Lesotho Malawi Mozambique	YES, PA Partner
RDG Collective Limited	SHS	Zambia	No
Royal Swaziland Sugar Corporation (RSSC)	10 MW Solar PV	Eswatini	No
Solar Reserve (US based entity)	50 MW (5x10 MW) West Rand Solar PV (Solar Reserve Urban Solar Farm)	South Africa	No
SolarWorks!	SHS; Malawi SHS grantee	Malawi Mozambique	<i>No, but would be a good partner to approach</i>
Sumitomo & IHI	100 MW Temane Sumitomo CCGT	Mozambique	No
Sunelex	200 MW Sunelex: Matjhabeng Solar	South Africa	No
SunnyMoney	SHS	Malawi	No
SupaMoto	SHS	Zambia	No
Themis	192 MW Themis Sahofika T-Line	Madagascar	<i>No, but Yes through Denham Capital ownership</i>
Tlou Energy	Lesedi CBM	Botswana	No
Tora Holdings	210 MW Boroma & 600 MW Lupata Hydros	Mozambique	No
Upepo Energy Partners	100 MW Kanyama Hybrid (96 MW Wind & 4 MW Solar PV)	Zambia	YES, PA Partner
Vitalite SHS	SIAZ SHS Expansion Program Malawi Kick-Starter grantee	Zambia Malawi	<i>No, but they would be a good company to look at</i>
Voltalia	25 MW Lilongwe Solar PV	Malawi	<i>(Made application in July 2018)</i>
West Rand Municipality	West Rand Solar PV (Solar Reserve Urban Solar Farm)	South Africa	No; Govt
Western Power Company	180 MW Ngonya Falls Hydro	Zambia	No
WidEnergy Africa Ltd.	SHS	Zambia	No
Yellow Solar	SHS Malawi Kick-Starter grantee	Malawi	No
Zuwa Energy	SHS Malawi Kick-Starter grantee	Malawi	No

APPENDIX K DETAILED ACTIVITIES PROGRESS YEAR 4 WORK PLAN

OUTCOME-SPECIFIC ACTIVITIES

Below are the outcome-specific activities from the SAEP Year 5 Work Plan. This table is to track the activities' status and highlight any activity changes, timing changes, or other major items related to activities that the SAEP team would like to highlight for the period. All activities with an * next to them are priority activities outlined in the SAEP Work Plan.

Outcome I

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Intervention I.01							
ANGOLA							
Y5.01.01.01.ANG	Support IRSEA with the development of a mini-grid regulatory framework	David Jankofsky	02/01/2022-09/30/2022	IRSEA Request	Y3.01.01.01.ANG - Angola Roadmap for regulator enhancement	<ul style="list-style-type: none"> A report that contains an assessment of the current status of mini-grids, as well as a review of the current regulatory enabling environment and recommendations on the way forward 	Not Yet Started
Y5.01.01.02.ANG	Support IRSEA in analysis of and hearings on utility Annual Reports	David Jankofsky	01/01/2022–09/30/2021	SAEP Initiative	Y4.01.01.02.ANG*	<ul style="list-style-type: none"> Written comments on IRSEA's analysis of the Annual Reports Preparation of questions on Annual Reports to be used at hearing 	Not Yet Started
Y5.01.01.11.ANG	IRSEA: Cross-Subsidy Reduction	David Jankofsky	10/01/2021–04/22/2022	IRSEA Request/ Continuation of Year 4 Activity	Y4.01.01.02.ANG*	<ul style="list-style-type: none"> Memorandum on the current tariff methodology and current tariff change process, together with recommended changes as required Evaluation of utilities financial statements, together with recommendations for IRSEA in the subsidy reduction process 	In progress: This is a Year-4 activity that started in Y4 Q4 and has carried over into Year-5. SAEP has requested a World Bank study that will be an input to this activity. The study was requested through various channels including IRSEA and the US Mission in Angola. At the end of the quarter the study had not yet been received. SAEP continues to follow up

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> Development and delivery of training program on tariff application evaluation and rate design Support IRSEA in development of ToRs, consultant selection and supervision for a Cost Allocation Study (if required) 	
MALAWI							
Y5.01.01.03.MWI	Support MERA with rate case	David Jankofsky, Raj Addepalli	01/01/2022–09/30/2021	SAEP Initiative	N/A	<ul style="list-style-type: none"> Rate case recommendations – Malawi (including both fees and charges) 	Not yet started
Y5.01.01.04.MWI	Amend existing MERA mini-grid regulatory framework	David Jankofsky	01/03/2022-03/31/2022	SAEP Initiative	Power Africa Rockefeller SPX	<ul style="list-style-type: none"> Review of an amendment to the existing mini-grid regulatory framework and recommendations for enhancements 	Not yet started
MOZAMBIQUE							
Y5.01.01.05.MOZ	Support ARENE to develop an off-grid regulatory framework	David Jankofsky	10/01/2022-03/29/2022	SAEP Initiative	Y3.01.05.01.MOZ	<ul style="list-style-type: none"> Report containing an assessment of the current status of mini-grids, as well as a review of the current regulatory enabling environment and recommendations on the way forward 	In progress: This is a Year-4 activity, which started in FY21 Q4 and has carried over into FY22/Year-5. The quarter saw progress made on developing a guideline document, prioritizing a focus on evaluating PPAs, rather than the overall procurement process, and developing a template PPA as the first step in providing guidance. Engagement with ARENE has been limited throughout the quarter as a result of the counterparts' lack of availability/full schedule. SAEP will renew efforts to make contact with ARENE in the new calendar year, following which a final

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							deliverable for ARENE could be completed in FY22/Y5 Q2
Y5.01.01.08.MOZ	Develop a PPA and infrastructure investment evaluation mechanism for ARENE	David Jankofsky	01/01/2022–12/31/2021	Continuation of SPEED+ TA/ Continuation of Year 4 Activity	Y4.01.01.11.MOZ*	<ul style="list-style-type: none"> Report and recommendations outlining an evaluation mechanism for PPAs for ARENE Report and recommendations outlining an evaluation mechanism to be used by ARENE for evaluating energy infrastructure investments 	Not yet started
ESWATINI							
Y5.01.01.09.SWA	Support to ESERA with the review of work by consultants on the development of a Mini/Off-grid Regulatory Framework	David Jankofsky	10/01/2021–01/31/2022	ESERA Request/ Continuation of Year 4 Activity	Y4.01.01.14.SWA	<ul style="list-style-type: none"> Reviews (reports and recommendations) on deliverables of ESERA-hired consultants, as required 	In progress: Engagement with the counterpart over the course of the quarter was very limited. A November 2021 SAEP status-request yielded a response indicating that the regulator and their appointed consultants have yet to conclude the market and industry assessment (the second of four tasks in terms of the TORs). The task is to do an assessment of the potential for mini-grids in Eswatini. The non-completion of this task has been due to difficulties in obtaining data on the local markets from local sources. SAEP continues to stand by in support of ESERA.
REGIONAL							
Y5.01.01.06.REG	Develop regional White Paper discussing ways to structure fees for new grid connections	David Jankofsky	03/01/2022-09/28/2022	SAEP Initiative	Y4.01.01.13.SWA	<ul style="list-style-type: none"> White Paper outlining the approach and recommending opportunities for its use in the region. Will expand 	Not yet started

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						on Year-4 connections charges work with ESERA	
Y5.01.01.07.REG	Support to RERA Annual Conference	David Jankofsky	10/01/2021–03/11/2022	RERA Request	N/A	<ul style="list-style-type: none"> Generate the conference program in conjunction with RERA Present at plenary and breakout sessions pursuant to the conference program 	In progress: The event, which was originally planned as a virtual event from 8 - 12 November 2021, did not take place. At the end of the quarter, it was unclear when it would take place and in what format. SAEP continues to follow up with the RERA secretariat. Leading up to the original date, SAEP assisted RERA with the conference program and lining up speakers
SOUTH AFRICA							
Y5.01.01.10.RSA*	Provide SALGA with training on PPP approaches for infrastructure project development training	David Jankofsky	10/01/2021–02/15/2022	SALGA Request/ Continuation of Year 4 Activity	Y4.01.01.15.RSA*	<ul style="list-style-type: none"> Training material and report 	<p>In progress: This is a Year-4 activity that started in FY21 Q4 and has carried over into FY22/Year-5. Throughout the quarter, various engagements within SAEP, as well as with potential and subsequently appointed training consultants and SALGA, resulted in the following:</p> <ul style="list-style-type: none"> Finalization of an SOW; General agreement on a broad set of topics/modules. The drafting and distribution of invitation letters for the training, as sent to municipalities on 12 November 2021 and, Agreement on when the training will be held (5 x 3-hour sessions from 24-31 January and 1 February 2022). <p>At the conclusion of the quarter, the two consultants were well advanced in</p>

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							developing the training materials
Intervention 1.02							
ESWATINI							
Y5.01.02.01.SWA	Eswatini National Energy Master Plan and Legal Review	Jorry Mwenechanya	01/31/2022 – 05/05/2022	MNRE Request	N/A	<ul style="list-style-type: none"> Inception Report Draft and Final Review of Electricity Master Plan Draft and Final Report of Electricity Laws 	Not yet started
Intervention 1.04							
ZAMBIA							
Y5.01.04.01.ZMB	Zambia One-Stop-Shop	Chris Mubemba	10/01/2021 – 09/30/2022	Continuation of Year 4 Activity	Y4.01.04.02.ZMB*	<ul style="list-style-type: none"> Support to the European Union's Increased Access to Electricity and Renewable Energy Production (EU/IAEREP) Team and Lead Consultant. Specific focus on facilitating the Rwandan Development Board and the South African InvestSA's One-stop Shop's support to the program 	In progress: A workshop and virtual country tour of the WG was held from 8 to 10 December 2021, the purpose of which was to present an overview of how OSS's work in other jurisdictions. SAEP made a presentation on country research into a variety of OSS's from around the world (originally made to a previous working group in 2020) The event concluded on Friday 10 December with a focus on the Draft Road Map of the program (currently set to run far beyond SAEP's life, into 2023). SAEP continues to stand by to support as required in 2022.

Outcome 2

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Intervention 2.01							
ZAMBIA							

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.02.01.01.ZMB	Review and draw up a new energy sector roadmap updating from 2017	Chris Mubemba	03/01/2022 – 09/30/2022	GRZ request	2.01	<ul style="list-style-type: none"> Notes on previous roadmap Recommendations for items to be included in new roadmap 	Not yet started
Y5.02.01.02.ZMB	Support Ministry to manage the road map implementation	Chris Mubemba	03/01/2022 – 09/30/2022	GRZ request	2.01	<ul style="list-style-type: none"> Adopted roadmap by GRZ Regular advisor status reports MOF/MOE plan to financially back ZESCO PPAs bankability 	Not yet started
MALAWI							
Y5.02.02.01.MWI	Support PML on Single Buyer Operational Planning	Wayne Mikutowicz Tea Mihic Garth Broome	10/01/2021-02/25/2022	PML request	Y4.02.03.06.MWI	<ul style="list-style-type: none"> Compliance register: document compiling the timing and output of all PML's obligations as SB under the grid code and market rules International review report: Report summarizing approaches to comparable SB activities in at least three countries Operating plan: Process flow diagram setting out all operational processes required to comply with SB obligations Process review: Report identifying gaps in PML's current approach to processes identified in the operating plan flow diagram Workshops with PML to present the: compliance register, international review, operating plan, process review 	On Hold: SAEP drafted an Operating Plan Guideline document, for the Single Buyer (PML) activities of PML. A review of international approaches to single buyer activities to provide guidance to Power Market Limited (PML) as Malawi Single Buyer was completed and reviewed with PML. The activity was placed on hold.
Y5.02.02.02.MWI	Support PML on Single Buyer Resource Planning	Wayne Mikutowicz Tea Mihic	12/01/2021-03/31/2022	PML request	Y4.02.03.07.MWI	<ul style="list-style-type: none"> Assumptions review report: Report on 	On hold

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
		Garth Broome				<p>applicability of IRP input assumptions for SB year-ahead plan and a briefing to present the findings</p> <ul style="list-style-type: none"> Assessment of SB requirements: Report on the preparation of the annual generation plan (document recommending an approach to prepare year-ahead plans that can be harmonized with the IRP and the System Market Operator's generation planning process) and a briefing to discuss the findings Workshop to discuss all the findings 	
SOUTH AFRICA							
Y5.02.02.03.RSA*	DPE Capacity Building for Eskom's Unbundling	Wayne Mikutowicz, Tea Mihić	03/01/2022–9/30/2022	DPE request	OC5	<ul style="list-style-type: none"> Workshops on TBD topics relevant to Eskom's unbundling Post workshop reports 	Not yet started
Intervention 2.03							
SOUTH AFRICA							
Y5.02.03.01.RSA*	DPE Review of KPIs to oversee Eskom performance	Wayne Mikutowicz Tea Mihić	03/01/2022–07/29/2022	DPE request	N/A	<ul style="list-style-type: none"> Stakeholder mapping and recommended stakeholder engagement process for KPI review Review of KPIs with comments on gaps in current KPIs and opportunities to improve Recommendations for new KPIs to reflect unbundling and new priorities 	Not yet started
Intervention 2.05							

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
MOZAMBIQUE							
Y5.02.05.01.MOZ*	EDM Commercial Loss Reduction Phase II – Assessment and Mitigation	Wayne Mikutowicz Tea Mihic Jose Cavaretti	10/01/2021– 07/29/2022	EDM request	Y4.02.05.01.MOZ	<ul style="list-style-type: none"> A functional specification for the EDM losses data extract Report required by the EDM analytics team obtained from the commercial and prepaid vending systems. This specification must be provided to EDMs system vendor to configure Principles and guidelines for developing the yearly loss reduction plan that guides all the loss reduction and loss analytics team's actions for the year Workshop with EDM team SAEP final report on the activity (internal) 	In progress: SAEP held kick off meeting with EDM team and an initial workshop with the EDM Analytics team, aimed to develop functional specs for Commercial Management System
NAMIBIA							
Y5.02.05.02.NAM	Financial Modelling Support to the City of Windhoek to Convert Customers to Prepaid Meters	Wayne Mikutowicz	01/01/2022– 07/29/2022	City of Windhoek Request	N/A	<ul style="list-style-type: none"> Financial model to support conversion of electricity and water customers to prepaid meters, thereby reducing operating losses 	In progress: Meeting held with CoW financial and technical specialist to review SOW. SAEP prepared the data request and shared with COW for their perusal. Additional preparatory meeting was held with the financial specialist to review CoW model.
Intervention 2.08							
REGIONAL							
Y5.02.08.01.REG*	Disseminate of the Credit Rating White Paper (CRWP)	Wayne Mikutowicz Tea Mihic Izak du Plessis	01/17/2022 – 03/31/2022	Requested by USAID	OC5	<ul style="list-style-type: none"> Report released Webinar to engage utilities and regulators to present and discuss the credit rating whitepaper 	In progress: CRWP draft internally approved. Additional case studies are being prepared. The webinar is scheduled for 2 February 2022 and SAEP issued a save-the-

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							date to Southern Africa utilities' CEOs and Financial Directors.
Intervention 2.09							
MOZAMBIQUE							
Y5.02.09.01.MOZ	EDM EMU program implementation support continued	Wayne Mikutowicz Tea Mihic Rui Alves	03/01/2022 05/17/2022	EDM request	Y4.02.09.04.MOZ	<ul style="list-style-type: none"> Report on the status of electrification-related management and operational procedures in place and aligned with the EMU governance and management model designed/approved A business intelligence model and dashboards for electrification-related KPIs Procedures implemented to periodically report electrification-related KPIs to the key internal and external electrification stakeholders SAEP final report on the activity (internal) 	Not yet started
Y5.02.09.02.MOZ*	EDM HCD Customer Experience Implementation	Wayne Mikutowicz Tea Mihic Rui Alves	01/03/2022- 04/29/2022	SAEP initiative	Y4.02.09.05.MOZ	<ul style="list-style-type: none"> Report outlining the needs and challenges of the communities targeted for electrification and evaluations of solutions adopted by EDM to successfully implement them Workshop/capacity building on the central community engagement with commercial directorates Communication and training program designed to promote connections 	In progress: Pilots were completed and the solutions' implementation commenced with a meeting of the EDM Regional Directors. Subsequent training commenced with all EDM delegations' appointees for each of the solutions.

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> and use of energy by the targeted communities SAEP final report on the activity (internal) 	
ANGOLA							
Y5.02.09.03.ANG*	ENDE bid evaluation support for AfDB ESEEP-I program	Wayne Mikutowicz Tea Milić Rui Alves	10/01/2021 – 06/30/2022	ENDE request	Y4.02.09.01.ANG	<ul style="list-style-type: none"> Report communicating the activities where SAEP provided support to ENDE to enable and guide timely execution of all procurement-related activities and compliance to the AfDB requirements Technical support: end-state metering and revenue protection solutions designed (ICT, processes) Workshops with PIU teams to prepare the distribution and commercial local areas to provide the subcontractors the required detailed electrification and connection data/plans SAEP final report on the activity (internal) 	In progress: SAEP continued supporting ENDE with the three procurement packages under AfDB program: 1) Systems Tender - 2-stage RFP procurement: On 28 December 2021, ENDE received three proposals from the six shortlisted bidders. ENDE evaluation team commenced with the proposals' evaluations (Stage 1 – technical evaluations). 2) ENDE completed the pre-qualification stage of the Prepaid metering tender and submitted the Evaluation report to AfDB for No Objection (NO), 3) On EPC Supervision Consulting tender ENDE submitted the Request for Expression of Interest (Eoi) with the TOR to AfDB for NO. Furthermore, AfDB approved the revised procurement plan after an alignment meeting between the parties.
Y5.02.09.04.ANG*	Support to ENDE for the World Bank Program	Wayne Mikutowicz Tea Milić Rui Alves	10/01/2021 – 03/31/2022	ENDE request	Y4.02.09.03.ANG	<ul style="list-style-type: none"> Report communicating the activities where SAEP provided support to ENDE to enable and guide timely execution of all procurement related activities and compliance to the World Bank requirements Technical support - end-state metering and 	In progress: The Ministry of Energy and Water (MINEA) Project Coordination Unit (PCU) submitted the ENDE prepared Request for Bids (RFB) document and the accompanying specifications to WB for comment, and the parties are awaiting a meeting confirmation with the WB team. SAEP supported ENDE

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> revenue protection solutions designed (ICT, processes) Workshops with PIU teams to prepare the distribution and commercial local areas to provide the subcontractors the required detailed electrification and connection data/plans for the HV, MV and high-consumption LV customers SAEP final report on the activity (internal) 	with the preparation of the RFB.
Y5.02.09.05.ANG	Assist ENDE to develop and implement data management and reporting capability to the key internal and external electrification stakeholders (focused only on electrification programs)	Wayne Mikutowicz Tea Mihalj Rui Alves	01/17/2022 – 09/30/2022	ENDE request	N/A	<ul style="list-style-type: none"> A business database and dashboards for electrification-related KPIs Procedures implemented to periodically report electrification-related KPIs to the key internal and external electrification SAEP final report on the activity (internal) 	Not yet started
MADAGASCAR							
Y5.02.09.06.MDG	Support to JIRAMA with Electrification Project Management	Wayne Mikutowicz Tea Mihalj Henri Randriamanana	03/01/2022 – 07/29/2022	JIRAMA request	N/A	<ul style="list-style-type: none"> Inception report Develop JIRAMA-specific workshop material and conduct project management capacity building workshop (Application Toolkit in the PowerPoint format, supported by tools (e.g., templates, which may be in other formats, e.g., MS Word, Excel, etc.) Workshop 	Not yet started

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> • Identification of the direct support requirements to JIRAMA, based on the identified gaps • PMU established and operational • Final Report (SAEP internal) detailing the support provided, lessons learned and level of sustainability of the provided support 	
Y5.02.09.07.MDG	Support to JIRAMA with Electrification Procurement Planning	Wayne Mikutowicz Tea Mihić, Henri Randriamanana	11/15/2021 – 03/31/2022	JIRAMA request	N/A	<ul style="list-style-type: none"> • Inception report (diagnostic) indicating the current situation and challenges that JIRAMA is facing, recommended to-be state, gaps and related impacts/risks • Procedure manuals • Procurement & logistics planning process (Description of the procurement and logistics planning process, flowcharts, identification and mapping of standards and support tools (process systems, documents or templates), and defining responsibilities associated with each process) • Procurement and logistics execution monitoring and risk assessment procedures (definition of the KPIs and metrics, critical process control, draft M&E and reporting procedures) • Monitoring and risk assessment protocols related to project 	On hold

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						contract execution (Definition of the activity flow for regular control, based on contract metrics) <ul style="list-style-type: none"> • Management structure and decision processes • Draft a short version of the procedure manual, including the documented procedures from previous tasks • SAEP final report on the activity (internal) 	
SOUTH AFRICA							
Y5.02.09.08.RSA*	SALGA Electrification PMO Capacity Building	Wayne Mikutowicz, Nachi Majoe	10/01/2021 – 3/31/2022	SALGA request	OC5	<ul style="list-style-type: none"> • Facilitated training and training materials • Close-out Report • A list of 3 municipalities and the key challenges that SAEP will give follow-on assistance to resolve 	In progress: SAEP and SALGA conducted high-level "as-is" assessments with selected municipalities, which were used as a basis to prepare the training material. The training took place on 1, and 2 December 2021, with approximately 51 participants from 21 municipalities attending the sessions. Task 3 also commenced, which will focus on three municipalities and SAEP working directly with them to address their key challenges.
Y5.02.09.09.RSA*	SALGA Revenue Management Capacity Building	Wayne Mikutowicz Tea Mihić	10/01/2021 03/31/2022	SALGA request	OC5	<ul style="list-style-type: none"> • Pre-workshop reading pack • Training materials and handouts • Documented workshop outcomes • Revenue management guidance document (An updated high-level guidance document on revenue management and the reduction of non- 	In progress: SAEP concluded five training sessions on revenue management between September and November 2021. On average, 57 participants from 23 municipalities attended each session.

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						technical losses that incorporates local context) <ul style="list-style-type: none"> • SAEP final report on the activity (internal) 	
Y5.02.09.10.RSA*	Assistance to SALGA selected Municipalities with Electrification Project Management	Wayne Mikutowicz, Nachi Majoe	03/01/2022 – 9/30/2022	SALGA request	OC5	<ul style="list-style-type: none"> • Tailored recommendations to improve municipality PMO effectiveness 	Not yet started: (this activity will be a follow-on activity to "SALGA Electrification PMO Capacity Building", Y5.02.09.08.RSA*), and will kick in once its predecessor activity concludes.
ZAMBIA							
Y5.02.09.11.ZMB	Connections program on ZESCO backlogged connections	Wayne Mikutowicz	4/01/2022 – 9/30/2022	If ZESCO requests and has capital	N/A	<ul style="list-style-type: none"> • Develop sources and uses of funds plan to clear the backlog • Prioritize customer base to facilitate connections • Execution plan to deliver the connections • Backlog reduced in line with funding available 	Not yet started

Outcome 3

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Intervention 3.01							
REGIONAL							
Y5.03.01.01.REG	Prepare SAEP report for SADC ETG meetings	Willem Theron, Keith Katyora	10/01/2021 – 09/30/2022	USAID request	OC1, OC2, OC5	<ul style="list-style-type: none"> • SAEP presentation to ETG 	In progress: SAEP attended the ETG meeting that was held on 25 October 2021, during which the program presented status updates on all activities focusing primarily on the activities with significant regional impact
Y5.03.01.02.REG	Support SADC to advance Protocol on Energy (if requested)	Willem Theron, Keith Katyora	03/01/2022 – 09/30/2022	SADC request	NA	<ul style="list-style-type: none"> • Updated protocol 	Not yet started

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> SAEP summary report detailing support 	
SOUTH AFRICA							
Y5.03.01.03.RSA*	Assist the National Energy Regulator of South Africa (NERSA) to develop regulations for South African IPPs	Willem Theron, Keith Katyora	04/01/2022 - 09/30/2022	SAEP initiative	OCI	<ul style="list-style-type: none"> Desktop review of relevant legislation and regulations Draft regulatory framework 	Not yet started: SAEP had a meeting with NERSA on Thursday, 18 November 2021. The team will now be reviewing the LOC they had sent to NERSA and to restart the engagements on the cross-border trading
Intervention 3.02							
REGIONAL							
Y5.03.02.01.REG	Maintain and enhance a generic system optimization model that can be used by SAPP to train its members	Michael Barry	02/01/2022 – 09/30/2022	SAEP Initiative	Building on utility specific production optimization in Malawi Y2.03.05.02.MWI and Y3.03.05.02.MWI	<ul style="list-style-type: none"> Activity final report on all assistance provided to SAPP and its members 	Not yet started
Intervention 3.03							
MALAWI							
Y5.03.03.01.MWI	ESCOM personnel operating in an interconnected system field visit to SAPP control center	Mark Sims, Willem Theron, Keith Katyora	04/01/2022 – 09/30/2022	ESCOM LOC	Follow on from Year 4, OC5	<ul style="list-style-type: none"> Field visit plan Trip report Training/Close-out report 	Not yet started
ANGOLA							
Y5.03.03.02.ANG	Prepare RNT personnel for operating in an interconnected system	Willem Theron, Keith Katyora, ICA	03/31/2022 – 09/30/2022	USAID, RNT and AfDB request	OC5	<ul style="list-style-type: none"> Inception report interconnected system operations Meeting notes Training materials Training/Close-out report 	Not yet started: The OC3 team developed the SOW for this activity during this quarter
Intervention 3.04							
ANGOLA							
Y5.03.04.01.ANG*	RNT PIU Procurement Support for the Central-South 400 kV transmission Project	Carla Sousa	10/01/2021 – 09/30/2022	USAID, RNT and AfDB request	OCI, OC3 and OC4	<ul style="list-style-type: none"> Appointed OE consultant Appointed consultant to do the feasibility studies 	In progress: During this quarter, the following was advanced under procurement: finalization of the procurement

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						<ul style="list-style-type: none"> for the Gove-Menongue transmission line • Appointed M&S Consultant • Appointed RAP Consultant • Appointed External Financial Auditor • Appointed External Auditor for ESMS and ESMP • Approved procedure to procure IT equipment • Procurement of office space and furniture • Procurement of Software • Procurement of official translator • Procurement of the Senior Engineering Specialist • Procurement of the five Individual Specialists (Environmental, Social, Project Management, Procurement and Financial Management) • Bidding documents for the EPC procurement 	process for the OE consultant; procurement of the individual consultants (Project Management, Financial Management, Environment, Social Safeguards, Procurement, Senior Engineering and Gender Specialists); update of the new version of the Procurement Plan; procurement of the Monitoring & Supervision consultant, translations services, IT equipment, office rental, external auditor and Gove Menongue feasibility studies report
Y5.03.04.02.ANG*	RNT PIU Project Coordinator's Office Support for the Central-South 400 kV transmission Project	Willem Theron, Carla Sousa	10/01/2021 – 03/31/2022	SAEP Initiative	OC1, OC3 and OC4	<ul style="list-style-type: none"> • Skills and knowledge transfer workshops • Ongoing support through participation in the weekly project coordinator office meetings and monthly all RNT PIU team meetings • Monthly report on assistance provided to the RNT PIU • Management of activities and support to the RNT PIU coordinator 	In progress: The main activities advanced during this quarter include the following: update and monitoring of the risk and issues register; development of the RNT Transition Plan; coordination of the monthly team meetings; and assisting RNT with the coordination of the AfDB-RNT Monthly meetings

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.03.04.03.ANG*	RNT PIU Environmental Advisory and Assistance for the Central-South 400 kV transmission Project	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice and compliance with International Financial institutes operational safeguards		<ul style="list-style-type: none"> Assistance in developing the project manual, ESMS, AfDB quarterly compliance reports and documents needed to recruit the EPC contractor, M&S consultant, the RAP implementation consultant, the E&S budget and capacity building plan Advise on the evaluation process in the recruitment of the OE, the EPC contractor, the RAP implementation consultant and the M&S consultants Assist with review of all the specific management plans developed by the OE and the gender mitigation framework Assist RNT with the first environmental and social project audit Assist RNT with the recruitment of the environmental auditor and the environmental and social safeguards specialists Provide high-level training and workshops on the ESMP conditions and any specific items that may require engagement and capacity building 	In progress: Advised RNT to develop a complaints register and stakeholder tracker, review of the terms of reference for the procurement of the Resettlement Action Plan (RAP) Implementation Consultant, updated the RNT monthly action trackers and developed the terms of reference for the Environmental Auditor; assisted in updating the RNT PIU master work plan and contributed to several internal trackers to advance and track environmental and social aspects of the PIU work; held weekly progress meetings with the RNT PIU Environmental and Social team to keep the team on track ;supported the SAEP gender team in developing the gender mitigation framework.
Y5.03.04.04.ANG*	RNT PIU Engineering Support for the Central-South 400kV transmission Project	Keith Katyora, Rui Morgado, Pedro Machado	10/01/2021 – 09/30/2022	USAID, RNT and AfDB request	OC1, OC3 and OC4	<ul style="list-style-type: none"> Input to Enterprise Management System Software procurement Report of the single line diagrams for the 	In progress: During this reporting period, the main activities were the finalization of the reviews of the preliminary designs for the transmission line and the

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						overhead lines and substations (basic, conceptual, and preliminary designs) <ul style="list-style-type: none"> • Report on all comments provided to procurement documents • Monthly summary report of all engineering related activities • Engineering work plan to track all deliverables and actions before the commencement of work by the OE consultant 	substations; this has also included the preparation of all other handover documents for the OE assignment SAEP engineering team assisted RNT with coordination the official OE kickoff meeting which was held on 30 December 2021. Part of this assistance also included providing project related technical clarifications which the OE Consultant had, and further discussing the status of all preliminary designs that were available
Y5.03.04.05.REG	Assistance on the Angola-Namibia interconnector	Willem Theron, Keith Katyora	03/01/2022 – 09/30/2022	SAEP initiative	Y3.03.05.01.ANG, RTIFF	<ul style="list-style-type: none"> • Status and continuous updates to SAEP internal team and RNT • Training and workshop materials • Final Report 	Not yet started: The OC3 team developed the SOW for this exercise during this reporting period. The activity will commence in the next reporting quarter
Intervention 3.05							
REGIONAL							
Y5.03.05.01.REG*	Assistance to SAPP on the Regional Transmission Infrastructure Financing Facility (RTIFF) Phase 2	Willem Theron, Keith Katyora, Jason Alvarado, Colbye Prim	10/01/2021 – 09/30/2022	SAPP and World Bank request	N/A	<ul style="list-style-type: none"> • Stakeholder engagement plan • Written feedback on SAPP consultant's work 	In progress: During this reporting period, Phase 2 was kick-started, with the primary objectives including: modifications to the financial model on a project-by-project basis; the development of the final list of priority projects; and the finalization of the first version of the RTIFF Institutional Blueprint. SAEP was inducted into the RTIFF Oversight Committee, a special technical group that aims to review all work being done by the consultants and provide advisory guidance to SAPP.
Intervention 3.06							

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
SOUTH AFRICA							
Y5.03.06.01.RSA*	Assist Eskom in reducing load lost due to wildlife interactions and improving reliability	Taryn Bigwood, Endangered Wildlife Trust (EWT)	04/01/2022 – 09/30/2022	SAEP Initiative	Y4.PMO.ENV.03	<ul style="list-style-type: none"> Final activity report Training plan and material for Eskom Standard operating procedures for Eskom in using UAVs to reduce load loss due to wildlife 	Not yet started

Outcome 4

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Intervention 4.01							
REGIONAL							
Y5.04.01.01.REG	Transaction Advisory services for SAEP transaction pipeline	Clarence Oelofse	10/01/2021-09/30/2022	SAEP Initiative		<ul style="list-style-type: none"> Power Africa Transaction Tracker (PATT) monthly updates 	In progress: See transactions section for details
MADAGASCAR							
Y5.04.01.02.MDG	Ad-hoc TTS for Energy Companies in Madagascar	Henri Randriamanana	10/01/2021-09/30/2022	SAEP Initiative	Y4.04.01.03.MDG	<ul style="list-style-type: none"> PATT monthly updates 	In progress: No activity in quarter 1
MALAWI							
Y5.04.01.03.MWI*	Transaction advisory services to GOM for Mpatamanga project	Jorry Mwenechanya	10/01/2021 – 06/30/2022	GoM and IFC Request	Y4.04.01.04.MWI	<ul style="list-style-type: none"> Finalized PPA and IA Appointment of a project sponsor PATT monthly update Quarterly reports 	In Progress: Assisted the Government of Malawi to prepare its position in negotiations with the preferred bidder of the strategic sponsor
NAMIBIA							
Y5.04.01.04.NAM	TA to CENORED for procurement of energy from new solar plants	Clarence Oelofse	10/01/2021 – 06/30/2022	CENORED Request	Y4.04.01.02.NAM	<ul style="list-style-type: none"> Review and comments to procurement documents for final procurement round 	In Progress: SAEP tracked results of EoI plans to support development of draft RFP for CENORED
SOUTH AFRICA							

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.04.01.05.RSA*	City of Cape Town (CoCT) tariff design for the IPP program	Clarence Oelofse	01/15/2022 – 6/30/2022	CoCT Request	Y4.04.01.12.RSA	<ul style="list-style-type: none"> Reviewed tariff financial model In-model comments Supplementary written comments on the model 	On hold: Awaiting finalization of LOC
Y5.04.01.06.RSA*	CoCT risk and commercial review of draft final PPA	Clarence Oelofse	01/01/2022 – 6/30/2022	CoCT Request	Y4.04.01.10.RSA	<ul style="list-style-type: none"> In-line comments of PPA document Supplementary written comments on the PPA Close-out Report 	On hold: Awaiting project approvals by CoCT. On request of the CoCT, SAEP is assisting the CoCT with PPA aspects such as clarification and calculations in respect to the amount of the potential termination liability if the CoCT defaults. SAEP developed and provided a financial model to the CoCT that included termination payment calculations for each year to the end of PPA Term
Y5.04.01.07.RSA*	Follow-on project finance support to SALGA municipalities	Clarence Oelofse	11/15/2021 – 3/31/2022	SALGA request	N/A	<ul style="list-style-type: none"> Customized financial modelling and / or support for tariff calculations Customized technical advisory support to build on initial assistance 	In Progress: Discussions between SAEP and City Power Johannesburg commenced in December 2021 as one of the first eight entities identified by SALGA. City Power needs to agree internally on how to position themselves prior to progression. They are conducting stakeholder consultations to identify what assistance they need from SAEP.
Y5.04.01.08.RSA*	CoCT High level pre-feasibility of a 60MWac Solar PV Facility at the Paardevlei site, Somerset-West	Clarence Oelofse	01/01/2022 – 6/30/2022	CoCT Request		<ul style="list-style-type: none"> In-line comments of PPA document Supplementary written comments on the PPA Close-out Report 	On hold: Awaiting project approvals by CoCT. However, on request of the CoCT, SAEP developed and provided a detailed long-term solar PV financial model to the CoCT on 30 November 2021. The model includes specific CoCT requested items in that it provides for the financial modeling of two project options, the 200 MWac solar

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							PV and the 60 MWac Paardevlei solar PV project
Intervention 4.03							
NAMIBIA							
Y5.04.03.01.NAM	Follow-up support to CENORED with battery storage	David Jarrett	10/01/2021 – 06/30/2022	CENORED Request	Y4.04.03.01.NAM	<ul style="list-style-type: none"> • Reports on support for (1) the RFP rounds; (2) negotiation of implementation agreements; (3) ad hoc engineering and transaction matters. • Comments on procurement documents for Eol procurement round 	<p>In Progress: xxx CENORED is currently evaluating submissions received in response to the request for EOI. Following the evaluation, CENORED will distribute a request for proposal (RFP) to selected entities.</p> <p>The 10 MW Okahandja project was excluded from the original EOI request and thus, no submissions were received for Okahandja. In October 2021 CENORED decided to proceed to issue a request for EOI for Okahandja. SAEP again assisted CENORED with a review and comments of the draft. SAEP additionally drafted an "EOI Submission Template" to be issued with the request for EOI.</p>
SOUTH AFRICA							
Y5.04.03.02.RSA*	SALGA: Assist municipalities to assess the viability of deploying battery storage and other new technologies in their systems	David MacPherson	10/01/2021 – 01/31/2022	SALGA Request	Y4.04.03.03.RSA	<ul style="list-style-type: none"> • A report on the viability of integrating battery storage technologies into municipal grids; example, techno-economic assessment model for assessing battery storage viability • Assessment of legal and regulatory environment for BESS in SA • Workshop for municipalities 	<p>In progress: Awaiting project kickoff date with SALGA, while awaiting kickoff SAEP has started development of the first report</p>

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
MALAWI							
Y5.04.03.03.MWI	Monitoring and Evaluation, and supplementary support for ESCOM vRE integration	Jorry Mwenechanya	11/01/2021 – 05/15/2022	ESCOM Request	Y4.04.03.02.MWI	<ul style="list-style-type: none"> Inception Report Training plan Revised network model Training report 	In progress: Kicked off coordination with ESCOM in Q1
Intervention 4.05							
ESWATINI							
Y5.04.05.01.SWA	Ministry (MNRE) Energy Efficiency light-touch Action Plan Support	Jorry Mwenechanya	10/01/2021 – 09/30/2022	Ministry Request	Y4.04.05.02.SWA	<ul style="list-style-type: none"> Final recommendation and progress report on adoption and implementation Ad-hoc advisory memos to MNRE Light-touch support as MNRE implements the new institution 	In progress: Supporting ministry to appoint an interim board for the Eswatini Agency for Sustainable Energy (EASE)
ZAMBIA							
Y5.04.05.02.ZMB	LWSC light-touch monitoring of implementation	Jorry Mwenechanya	11/01/2021 – 09/30/2022	LWSC request	Y4.04.05.06.ZMB	<ul style="list-style-type: none"> Reports on the progress of implementation of (1) an improved energy management system; (2) revised standard operating procedures Reports on financing and implementation of solar PV plants at the three main pumping sites. Quarterly report updates 	In progress: Final closeout workshop completed in Q1. SAEP plans to submit final report plans in Q2
Y5.04.05.03.SWA	EWSC light-touch monitoring of implementation	Jorry Mwenechanya	11/01/2021 – 09/30/2022	EWSC request	Y4.04.05.01.SWA	<ul style="list-style-type: none"> Quarterly report updates to track and monitor the implementation of recommendations from Years 3 and 4 	In Progress: Final closeout workshop completed in Q1. SAEP plans to submit final report plans in Q2.
Y5.04.05.04.MGD	Assistance to the Madagascar industry association (SIM) with Industrial Energy Efficiency Program Phase 2	Henri Randriamanana	10/01/2021 – 12/31/2021	SIM Request	Y4.04.05.05.MDG	<ul style="list-style-type: none"> Walk-through energy assessment reports Project proposals for funding 	In progress: SAEP conducted energy audit with Technopet in Q1 and plans to conduct energy audit with

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							Codal in Q2. Following energy audits review, SAEP will assist in developing project proposals in Q2 and Q3.
Intervention 4.06							
ZAMBIA							
Y5.04.06.01.ZMB	Program Management Support to SIAZ and OGTF	Chris Mubemba	10/01/2021 – 09/30/2022	SIAZ Request	Y4.04.06.13.ZMB	<ul style="list-style-type: none"> Quarterly reports OGTF Subcommittee Action Plan Affordability initiatives and tools summary report 	In progress: SAEP supported the Solar Industry Association of Zambia (SIAZ), in coordination with GIZ's Green People's Energy (GPE) Program in Zambia, in the promotion of an updated constitution and election process that would enable a staggered Executive Committee (ExCo) transition for greater continuity of SIAZ operations. These changes will be formalized in Q2. SAEP also provided support to the Off-Grid Taskforce (OGTF) as Chair of the Consumer Affordability (CA) Subcommittee, hosting the first Subcommittee meeting in October 2021 to present the results from the Consumer Affordability Fact-base, completed in Y4. In December, SAEP also met the two new senior advisors, Professor Francis Yamba and Professor Lloyd Chingambo, both of whom will replace Ms. Sabera Khan, to lead the OGTF in 2022; SAEP will continue to stay in touch as OGTF meetings are scheduled in the new year
Y5.04.06.02.ZMB	Zambia Operational support to SHS companies and mini-grid developers	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.14.ZMB	<ul style="list-style-type: none"> Quarterly progress reports 	In progress: SAEP continues to check in on the status of SHS companies' operations on

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							a regular basis. SAEP provided support to Little Sun to assist in their preparation for funding opportunities available in Zambia.
Y5.04.06.03.ZMB*	Alternative energy solutions for health facilities in Zambia	Chris Mubemba	10/01/2021 – 09/30/2022	Avencion Request	Y4.04.06.11.ZMB	<ul style="list-style-type: none"> Report on assistance provided by SAEP Quarterly progress reports 	On-Hold: SAEP supported Avencion on site visits in FY21 Q4. Avencion developed reports on site visits in Q1, since then Avencion has been unresponsive to all contact from SAEP.
MALAWI							
Y5.04.06.04.MWI	Malawi: Operational support for SHS Kick-Starter grant awardees and other SHS companies	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.06.MWI	<ul style="list-style-type: none"> Quarterly progress reports Final Impact Report 	In progress: SAEP continues to check in on the status of the companies' operations. The grant has been extended to June 2022 to support the remaining three companies that have not achieved their Kick-Starter targets – SolarWorks!, VITALITE, and Zuwa Energy.
Y5.04.06.05.MWI	REIAMA technical assistance	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	REIAMA Request	N/A	<ul style="list-style-type: none"> 2 SFE training completed; Training materials handover REIAMA Strategic Plan Document VAT/Import Duty Sensitization Training Materials; two VAT/Import Duty Sensitization Trainings completed 	In progress: The SAEP Team provided assistance to REIAMA, including supporting the kick-off of the VAT and Import Duty taskforce, hosting the first call with the taskforce members, and leading a discussion with REIAMA members on the challenges they face when importing renewable energy products. SAEP also collaborated with GIZ EnDev to prepare a concept note to co-host a series of webinars for REIAMA members to share lessons learned and interesting sector insights. Finally, the SAEP team collaborated with MAEVE, a local implementation partner

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							in Malawi, to host business development training through REIAMA in January 2022.
Y5.04.06.06.MWI	Productive Use Mapping (Rockefeller SPX)	Kira Rosi-Schumacher	03/01/2022–06/15/2022	RF SPX	N/A	<ul style="list-style-type: none"> Agriculture value chain productive use mapping report 	Not yet started: SAEP Team is in continued discussions with the Rockefeller team to align on areas of support and collaboration in the Malawian market. However, there have been some challenges in aligning on the specific areas of support/needs with the Rockefeller team in recent calls and, therefore, we do not yet have a clear picture of the specific areas in which we will be playing. As of 17 November, during our last call, the Rockefeller team announced that they would be receiving some new funding and additional programmatic focus areas for their Malawi Program. They, therefore, concluded that they needed to first have an internal discussion on their program to align on the best areas of support where SAEP could plug in going forward.
Y5.04.06.07.MWI	Rockefeller SPX Task Force Design and Implementation Support	Jorry Mwenechenya	03/01/2022 – 09/30/2022	RF SPX	N/A	<ul style="list-style-type: none"> Progress reports and meeting notes from stakeholder engagements with Rockefeller and SPX 	Not yet started: SAEP Team is in continued discussions with the Rockefeller team to align on areas of support and collaboration in the Malawian market. However, there have been some challenges in aligning on the specific areas of support/needs with the Rockefeller team in recent calls and, therefore, we do not yet have a clear picture of the specific areas in which we will be playing. As of 17 November, during our last call,

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							the Rockefeller team announced that they would be receiving some new funding and additional programmatic focus areas for their Malawi Program. They, therefore, concluded that they needed to first have an internal discussion on their program to align on the best areas of support where SAEP could plug in going forward.
MADAGASCAR							
Y5.04.06.08.MDG	Donor coordination forum support	Henri Randriamanana	10/01/2021 – 09/30/2022	Ministry Request	Y4.04.06.03.MDG	<ul style="list-style-type: none"> Donor coordination meeting notes 	On Hold: The Forum has not yet been formed that the Minister wanted to establish. Ministry is not responsive and hasn't taken steps needed
Y5.04.06.09.MDG	JIRAMA Green City project (hybridization of grids)	Henri Randriamanana	12/01/2021 – 09/30/2022	JIRAMA Request	N/A	<ul style="list-style-type: none"> Design reviews of complementary generation to reduce/displace diesel generation Quarterly progress reports of progress against agreed milestones Close-out Report 	On-Hold: SAEP has had prolonged discussions with JIRAMA in agreeing on conditions within the LOC. SAEP plans to finalize LOC and start SOW in Q2.
Y5.04.06.10.MDG*	Madagascar mini-grid catalytic grant program	Henri Randriamanana	10/01/2021 – 06/30/2022	SAEP Initiative	Y4.04.06.04.MDG	<ul style="list-style-type: none"> Status updates Ad-hoc technical assistance Periodic reports from grant awardees 	In progress: HIER is confronting a substantial and unforeseen demand for customs and import duties on equipment procured to build its mini-grid. SAEP supported the company's efforts to mount an appeal for a waiver of the taxes. At the close of the quarter, the Malagasy government was yet to convey its decision on the matter. Autarsys currently has one concession agreement in execution and two other concessions in development.

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							Autarsys reports that they expect the solar PV panels for the two concessions in agreement to arrive in March after a six-month delay. Henri Fraise Fills and Cie (HFF) has begun conducting an environmental and social study on the village in which they have a contract with. HFF plans to complete the study in Q2 before they begin construction.
Y5.04.06.11.MDG	Baobab+ Technical Assistance	Henri Randriamanana	10/01/2021 – 09/30/2022	Baobab+ Request	Y4.04.06.02.MDG	<ul style="list-style-type: none"> • Reports on support towards sustainable capacity building for sales force effectiveness. • Reports on ad hoc business development needs. • Quarterly progress reports 	In progress: SAEP continued to support the second phase of the sales force effectiveness (SFE) training program with Baobab+ focused on adapting the sales agent training to their mobile platform. SAEP translated the training materials into French and shared with Baobab+ in Q2. Progress on this phase of work was delayed as a result of a change with Baobab+'s POC. SAEP met with the new Baobab+ POCs on 5 January 2022 and is awaiting their feedback on the training materials.
Y5.04.06.12.MDG	Collaboration with the World Bank on the LEAD Project (HFE and SHS)	Henri Randriamanana	02/28/2022 – 09/30/2022	SAEP Initiative and WB Request	N/A	<ul style="list-style-type: none"> • Reports on support to characterize healthcare centers' and recommend appropriate electricity systems • Training reports and material for SFE companies funded by the World Bank to scale sales 	Not yet started: Activity is delayed to due WB's review of funding to Government of Madagascar

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
NAMIBIA							
Y5.04.06.13.NAM	Provide follow-up assistance to the City of Windhoek - implementation of recommendations	David Jarrett	10/01/2021 – 09/30/2022	COW Request	Y4.04.06.01.NAM	<ul style="list-style-type: none"> Biweekly and quarterly reports 	<p>In progress: CoW is seeking SAEP support with a planned revenue management program to assess replacing credit meters with prepaid meters that will be funded through a “revolving” fund.</p> <p>Due to a change in leadership for the City Chief Executive and Chief Executive of the Electricity Department during most of Q1, the CoW is reviewing their approach to the funding needs for both the electrification activity and the revenue management activity. The AfDB has been a part of the funding discussions and is still reviewing whether they will finance parts or all of this activity.</p>
MOZAMBIQUE							
Y5.04.06.14.MOZ	Mozambique: Operational support to SHS companies, and mini- and micro-grid developers	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SAEP Initiative	Y4.04.06.08.MOZ	<ul style="list-style-type: none"> Quarterly progress reports 	<p>In progress: SAEP continues to check in on the status of SHS companies' operations on a regular basis, including SolarWorks! and ENGIE Energy Access (formerly Fenix International). During Q1, SAEP provided support to SolarWorks! on financing productive use equipment and building a facility for these systems.</p>
Y5.04.06.15.MOZ	Support implementation of fiscal incentives for solar products to improve affordability	Kira Rosi-Schumacher	10/01/2021 – 09/30/2022	SHS company request/ Continuation of previous USAID Program	Y4.04.06.09.MOZ	<ul style="list-style-type: none"> Quarterly progress reports on support provided Support to the government to operationalize the fiscal incentives 	<p>In progress: SAEP Team engaged with the Ministry of Mineral Resources and Energy (MIREME), ARENE, and FUNAE in a review of the econometric study developed with BRILHO in Y4 and worked closely with</p>

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
						implementation roadmap from Year 4 <ul style="list-style-type: none"> Support to the government during deliberations on incentives and roadmap expected to be finalized during the second quarter of Year 5 	USAID/Mozambique to enhance the level of engagement from the government to advance the implementation of key policy reforms. In Q2, SAEP will continue to work with stakeholders in the country, including SHS companies, to enable authorities to use the updated econometric study to effect policy change – particularly, the application of the fiscal exemption to improve SHS affordability.
Y5.04.06.16.MOZ	Support FUNAE to enhance effectiveness as resource for private sector	Kira Rosi-Schumacher	11/1/2021 – 09/30/2022	FUNAE request, connections attribution		<ul style="list-style-type: none"> Biweekly and quarterly report updates Reference guides for proposed support services 	Not yet started: SAEP Team, including Deloitte Mozambique, is in continued discussions with FUNAE to align on areas of support and collaboration. This SOW Part B is expected in Y5Q2.
Y5.04.06.17.MOZ	BGFA Evaluation Support Mozambique Round 2	Jorry Mwenechanya, Kira Rosi-Schumacher	07/02/2022 - 29/07/2022	BGFA Request	Y4.04.06.16.MOZ	<ul style="list-style-type: none"> Completed evaluations for Mozambique round 2 	Not yet started: The BGFA program is still under development, and therefore, there has not yet been a scoping of this work and no update for Q1.
SOUTH AFRICA							
Y5.04.06.18.RSA*	DMRE INEP Program Technical Assistance	OC4 Deputy, Sibulo Dlova	01/17/2022 - 09/30/2022	DMRE Request	N/A	<ul style="list-style-type: none"> Case studies outlining success factors from peer market electrification programs Project management plans for individual municipality electrification master plans Customized assistance to support individual municipal electrification efforts, including 	Not yet started: Project start delayed due to challenges getting support from leadership to ensure leadership engagement.

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Y5.04.06.19.RSA*	SALGA Municipality Off-grid Electrification	OC4 Deputy, Sibuy Dlova	03/01/2022 – 06/30/2022	SALGA Request	Y4.04.06.10.RSA	<ul style="list-style-type: none"> A report identifying the off-grid opportunities for accelerating electrification in remote areas 	Not yet started: : Delays in recruitment for resource leading to delayed start

Outcome 5

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
Intervention 5.01							
REGIONAL							
Y5.05.01.01.REG	vRE Webinar	Nachi Majoe, Tshegofatso Neeuwfan, David Jarrett	03/01/2022-03/25/2022	SAEP proposal building on previous SADC battery event	OC4	<ul style="list-style-type: none"> Concept note and project event plan Dialogue presentation 	Not yet started
Y5.05.01.02.REG	Dissemination of Year 4 Learning Guides	Nachi Majoe	10/01/2021-08/31/2022	SAEP initiative	N/A	<ul style="list-style-type: none"> Upload of LGs onto regional institution websites Document releases 	In progress: SAEP developed a training package for off-grid companies to guide their workforce through SFE training, coaching sessions and project management training. On 16 November 2021, SAEP shared the material with off-grid companies through a document release note and Power Africa published the package on social media platforms.
Y5.05.01.03.REG	Quarterly Lessons Learned Webinars	Nachi Majoe	10/01/2021-09/30/2022	SAEP initiative	All Outcomes	<ul style="list-style-type: none"> Presentation materials for 4 events to disseminate lessons learned from SAEP 	In progress: OC5 worked with Outcomes in developing relevant topics and planning the implementation of webinars. The first webinar will be held on 18 January 2022 on the topic of Engaging Women as Solar Home System Agents and

Activity No	Activity Title	SAEP Activity Manager(s)	Start-End Date	Reasoning / Buy-in	Linkages / Dependencies	Deliverable(s)	Activity Status
							Customers: Insights for Off-Grid Energy Companies.
Y5.05.01.04.REG	SAEP impact video	Nachi Majoe	01/15/2022 – 07/30/2022	SAEP initiative	All Outcomes	<ul style="list-style-type: none"> One video summarizing SAEP results 	Not yet started
Intervention 5.02							
REGIONAL							
Y5.05.02.01.REG	Refresh and review of RERA training curriculum	Nachi Majoe	10/30/2021 - 08/31/2022	RERA Request	OC1	<ul style="list-style-type: none"> Review report and analysis for path forward 	In progress: SAEP coordinated engagements between RERA and four learning institutions and developed an evaluation criterion for RERA to guide the selection of its preferred partner.
Y5.05.02.02.REG	SADC electricity markets and power trading training	Nachi Majoe, Willem Theron	10/06/2022 - 06/30/2022	SADC Request	OC 3	<ul style="list-style-type: none"> Training materials Capacity building report 	Not yet started
SOUTH AFRICA							
Y5.05.02.03.RSA*	Support municipalities with approaches and required activities for entering into long-term PPAs with IPPs	Nachi Majoe	10/01/2021 – 09/30/2022	SALGA Request	Y4.04.01.08.RSA	<ul style="list-style-type: none"> Training materials: Learning Guide 	In progress: In December SAEP engaged with the CFO, Legal and Technical teams of City Power on the requirements for entering into long-term PPAs with IPPs.
Intervention 5.04							
Y5.05.04.01.RSA*	DPE Provide support for the Just Energy Transition	Nachi Majoe	02/28/2022 - 08/31/2022	DPE request	OC1, OC2, OC4	<ul style="list-style-type: none"> Review of job retraining program/plan Review of international leading practices for economic equity programs 	Not yet started

PMO- AND CROSS CUTTING- SPECIFIC ACTIVITIES

Below are the PMO- and Cross-Cutting-specific activities from the SAEP Year 5 Work Plan. Any activities that are direct replications of the above Outcome-specific activities have been excluded from the below table. This table is to track the activities' status and highlight any activity changes, timing changes, or other major items related to activities that the SAEP team would like to highlight for the period.

Activity No	Activity Title	SAEP Activity Lead(s)	Start and End Dates	Reasoning / Buy-In	Deliverable(s)	Status
MONITORING AND EVALUATION						
Y5.PMO.MEL.01	M&E data updates for Annual Report	Lubabalo Banzana	10/01/2021 – 09/30/202	Contract requirement	<ul style="list-style-type: none"> Transaction table and tracker updates Performance monitoring and Evaluation table Participant training report 	Not yet started
Y5.PMO.MEL.02	Conduct M&E data verification on Madagascar Mini-Grid grant	Lubabalo Banzana	10/01/2021 – 09/30/202	Contract requirement	<ul style="list-style-type: none"> Approved connections data submission for grantees 	Not yet started
Y5.PMO.MEL.03	Support SAEP team to design, collect and analyze data through SurveyMonkey as requested	Lubabalo Banzana	Ongoing	Leading practice	<ul style="list-style-type: none"> Ad-hoc data requests from SAEP staff 	In progress: Through SurveyMonkey, the M&E team was able to assist some of the technical teams to develop and analyze the following surveys: 1) PPP Approaches for Power Generation Development Training 2) SAEP Annual Off-Site Survey
Y5.PMO.MEL.04	Review Performance Management and Evaluation Plan (PMEP), and update as necessary	Albert Ikhile, Lubabalo Banzana	Quarterly	Contractual requirement	<ul style="list-style-type: none"> Updated PMEP 	In progress: No update for Q1
Y5.PMO.MEL.05	M&E data updates for Quarterly Progress Reports (Transactions and M&E Tables)	Lubabalo Banzana	Quarterly	Contractual requirement	<ul style="list-style-type: none"> Submission of required reports (as part of the quarterly reporting process) Transaction table and tracker updates Performance monitoring and Evaluation table Participant training report 	In progress: Updates to the M&E Performance tables and Transaction sections have been made for Q1
Y5.PMO.MEL.06	Conduct data quality assessments (DQAs) in Malawi, Zambia, Mozambique, Angola and Madagascar	Lubabalo Banzana	Quarterly	Leading practice	<ul style="list-style-type: none"> 1 x DQA report per country assessed 	In progress: A DQA exercise was done on EDM on 28 October 2022. The M&E team conducted the exercise on EDMs connections data from October 2020-September 2021. The DQA was completed successfully, and all the necessary adjustments to the data were made.

Y5.PMO.MEL.07	Complete transactions update on Power Africa Transaction Tracker (PATT)	Lubabalo Banzana	Monthly	Contractual requirement quarterly and request by PA for monthly	<ul style="list-style-type: none"> Data entry into PATT 	In progress: This is an ongoing monthly activity. PATT was updated for all three months from October, November and December 2021.
Y5.PMO.MEL.08	Manage transaction status updates via Wrike	Lubabalo Banzana	Quarterly	Leading practice	<ul style="list-style-type: none"> An up-to-date record of status update on SAEP's transactions 	In progress: Quarterly updates have been made on WRIKE. This is an ongoing activity.
Y5.PMO.MEL.09	Conduct M&E data verification of Malawi Kickstarter Milestone data and share data report	Lubabalo Banzana	Monthly	Leading practice	<ul style="list-style-type: none"> Approved Milestone data - Quarterly Milestone data report 	In progress: The verification of the Milestone 10 data for the Kickstarter grantees has been completed and approval, via Flux, has been given. The data report has been shared with the Comms team for the Kickstarter Newsletter. progress:
Y5.PMO.MEL.10	Complete quarterly updates on TEAMS	Lubabalo Banzana	Quarterly	Contractual requirement	<ul style="list-style-type: none"> Data entry into TEAMS at the end of each quarter of performance 	In progress: Quarterly updates have been made on TEAMS
Y5.PMO.MEL.11	Complete quarterly updates on PAIS	Lubabalo Banzana	Quarterly	Contractual requirement	<ul style="list-style-type: none"> Data entry into PAIS at the end of each quarter of performance 	In progress: Quarterly updates have been made on PAIS
Y5.PMO.MEL.12	Complete quarterly updates on DIS	Lubabalo Banzana	Quarterly	Contractual requirement	<ul style="list-style-type: none"> Data entry into DIS at the end of each quarter of performance 	In progress: Quarterly updates have been done on DIS.
Y5.PMO.MEL.13	Ad-Hoc Requests	Lubabalo Banzana	10/01/2021 – 09/30/2022	Leading practice	<ul style="list-style-type: none"> To attend to any ad-hoc requests from the technical team or USAID 	In progress
Y5.PMO.MEL.14	PATT CRM Update	Lubabalo Banzana	Ad Hoc	PACO request	<ul style="list-style-type: none"> Updates to document meetings with PACO development partners and private sector partners 	In progress: This is an ongoing activity. Weekly updates on the partner engagements are ongoing.

KNOWLEDGE MANAGEMENT

Y5.PMO.PPM.01	Archive various SAEP reports that have been submitted to and approved by USAID on the Google Drive	Sabatha Madondo	Ongoing	Contract requirement	<ul style="list-style-type: none"> Archived Documents include: Biweekly reports Quarterly reports Annual Work Plan PMEP All deliverables 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.02	Track and archive deliverables for the Year 5 Work Plan activities and submit the tracker to USAID on a quarterly basis	Sabatha Madondo	Ongoing	USAID request	<ul style="list-style-type: none"> An up-to-date Year 5 Master File with links to activity deliverable folders, shared with USAID 	In progress: ongoing activity, all Q1 tasks completed

Y5.PMO.PPM.03	Track and archive Trip Reports submitted by the team and submit the tracker to USAID on a quarterly basis	Sabatha Madondo	Ongoing	Contract requirement	<ul style="list-style-type: none"> An up-to-date trip report tracker with links to various trip reports 	Not yet started
Y5.PMO.PPM.04	Submissions of datasets/documents to the Development Data Library (DDL)	Sabatha Madondo	Ongoing	Contract requirement	<ul style="list-style-type: none"> Ongoing submissions of datasets/documents to the DDL 	Not yet started
Y5.PMO.PPM.05	Upload SAEP deliverables onto the USAID Development Experience Clearinghouse (DEC)	Sabatha Madondo	Ongoing	Contract requirement	<ul style="list-style-type: none"> Ongoing submissions of deliverables to the DEC³ 	In progress: all approved deliverables labelled TIER 5: Public were uploaded on USAID DEC
Y5.PMO.PPM.06	Provision of ongoing Wrike training and support to SAEP member staffs	Sabatha Madondo	Ongoing	Leading practice	<ul style="list-style-type: none"> Continuous onboarding of SAEP staff to Wrike for program management 	In progress: ongoing
Y5.PMO.PPM.07	Generation of a quarterly activity status from Wrike	Sabatha Madondo	Quarterly	Leading practice	<ul style="list-style-type: none"> Year 5 Activity Table for Quarterly Reports 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.08	Follow-up on technical teams on activity updates and document uploads on Wrike	Sabatha Madondo	Ongoing	Quality control of management systems	<ul style="list-style-type: none"> Up-to-date Y5 work plan activities on Wrike 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.09	Manage project performance update and feedback to the outcomes leads and the management	Sabatha Madondo	Quarterly	Leading practice	<ul style="list-style-type: none"> SAEP project performance dashboard for internal monitoring of activities 	Not yet started
Y5.PMO.PPM.10	Update SAEP Activity Master file and Deliverable Tracker on a Monthly Bases	Sabatha Madondo	Ongoing	Leading practice	<ul style="list-style-type: none"> Up to date Master file and Deliverable tracker 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.11	Update Year 5 Work Plan (working work plan) with approved changes	Sabatha Madondo	Quarterly	Contract requirement	<ul style="list-style-type: none"> Updated work plan with approved changes 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.12	Create activity tables and appendices for the Quarterly Progress Reports	Sabatha Madondo	Ongoing	Leading practice	<ul style="list-style-type: none"> Year 5 Activity Tables for Quarterly Reports 	In progress: ongoing activity, all Q1 tasks completed
Y5.PMO.PPM.13	Manage SAEP G-Drive and ensuring easy location of documents	Sabatha Madondo	Ongoing	Leading practice	<ul style="list-style-type: none"> SAEP G-Drive is user friendly 	In progress: ongoing

Activity No	Activity Title	SAEP Activity Lead(s)	Start and End Dates	Reasoning / Buy-In	Deliverable(s)	Status
COMMUNICATION AND OUTREACH						

³ USAID's Development Experience Clearinghouse (DEC) is an online resource for USAID-funded technical and program documentation

Y5.PMO.COM.01	Branding and Marketing Plan updates as required	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> Revisions to Branding and Marketing Plan as necessary 	Not yet started
Y5.PMO.COM.02	Communications Strategy updates as required	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> Revisions to the Communications Strategy as necessary 	Not yet started
Y5.PMO.COM.03	Draft and Submit Biweekly Progress Reports	Albert Ikhile; Helga Wenhold	Biweekly	Contract requirement	<ul style="list-style-type: none"> Biweekly report (every two weeks) 	In progress: This is an ongoing activity. All Q1 tasks were completed
Y5.PMO.COM.04	Draft and Submit Quarterly Progress Reports	Albert Ikhile; Helga Wenhold	Quarterly	Contract requirement	<ul style="list-style-type: none"> Quarterly Progress Reports (within 30 days after the end of each quarter of performance) 	Not yet started
Y5.PMO.COM.05	Draft and Submit Year 5 Annual Report	Albert Ikhile; Helga Wenhold	10/30/2020	Contract requirement	<ul style="list-style-type: none"> Annual report (packaged as success stories) 	Not yet started
Y5.PMO.COM.06	Draft success stories	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> Publish at least 2 success stories per quarter 	Not yet started
Y5.PMO.COM.07	Utilize/convert success stories for publication on online platforms	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> SAEP successes to be published on external communication platforms like Power Africa's Medium, newsletters, USAID website etc. 	<p>In progress: Drafted the following two articles for Power Africa's online publishing platform, Medium:</p> <ul style="list-style-type: none"> o Yellow, a grantee under the SHS Kick-Starter Program for Malawi, achieving its sales target under the grant program. The blog was shared with USAID for review and approval on 26 November 2021 o the 20 MW Golomoti Solar PV and Battery Energy Storage System (BESS) project nearing completion. A final version of this blog was shared with Power Africa for review and approval on 8 December 2021
Y5.PMO.COM.08	Update fact sheets for all SAEP focus countries	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> Update the SAEP fact sheets as necessary 	<p>In progress: Updated all SAEP country fact sheets and shared them with USAID for final review and approval on 29 November 2021</p>
Y5.PMO.COM.09	Publish press releases through PA and USAID channels	Helga Wenhold	Ongoing	Leading practice	<ul style="list-style-type: none"> Publish press releases based on high-level activities and events 	In progress: No update

Y5.PMO.COM.10	Maintain SAEP LinkedIn page	Tru-handé Kotze	Ongoing	Leading practice	<ul style="list-style-type: none"> Continuously update LinkedIn with relevant and interesting content 	<p>In progress: Updated the SAEP LinkedIn page on a regular basis by creating content for new posts and reposting or amplifying news. The LinkedIn page reached 4,400 followers by 30 December 2021. -Content is frequently liked, celebrated and shared by followers</p>
Y5.PMO.COM.11	Regular output of social media content for USAID and Power Africa platforms	Tru-handé Kotze	Ongoing	Leading practice	<ul style="list-style-type: none"> Social media write-ups for Facebook, Twitter and Instagram 	<p>In progress: Developed around 18 social media posts</p>
Y5.PMO.COM.12	Creation of visual/digital Public Relations (PR) material	Helga Wenhold	10/01/2021–09/30/2022	Leading practice	<ul style="list-style-type: none"> Develop one three-minute success story video (topic TBD) Publish/disseminate SAEP knowledge products and LGs Quarterly SHS Kick-Starters for Malawi newsletter Quarterly newsletters on the progress of the Madagascar mini-grid grant Expand SAEP photo database to include professional, high-quality, impactful photos Develop SAEP case studies 	<p>In progress: Knowledge Products Off-Grid/Sales Force Effectiveness (SFE) Training Package Other PR Materials: Success stories for Power Africa’s Annual Report</p>
Y5.PMO.COM.13	Plan and implement high-level events in Year 5 as per planned activities	Helga Wenhold	Ongoing as needed	Leading practice	<ul style="list-style-type: none"> High-level events implemented in SAEP focus countries that lead to USAID visibility Preparation of materials including scene setters, PR material like banners etc. 	<p>In progress: Credit Rating White Paper (CRWP) Webinar</p> <ul style="list-style-type: none"> Supported OC2 in planning a webinar about the importance of credit ratings for utilities. The webinar is scheduled for 2 February 2021. The Communications team developed and distributed a Save the Date to utility CEOs and CFOs in SAEP’s focus countries on 13 December 2021, and an official invitation will follow in January 2022 <p>Engaging Women as SHS Agents and Customers Webinar</p> <ul style="list-style-type: none"> Participated in a planning call with the off-grid team and OC5 to discuss hosting a webinar for off-grid companies about engaging women as SHS agents and customers. The Communications developed and distributed a Save

the Date on 13 December 2021 to off-grid energy companies in SAEP's focus countries. This webinar, planned for 18 January 2022, will be part of SAEP's quarterly lessons learned webinar series

Y5.PMO.COM.14 Provide copy editing and brand review to project staff Helga Wenhold Ongoing as needed Leading practice

- Quality, client-ready materials and documents

In progress: This is an ongoing activity. All Q1 tasks were completed

Activity No	Activity Title	SAEP Activity Lead(s)	Start and End Dates	Reasoning / Buy-In	Deliverable(s)	Status
ENVIRONMENTAL COMPLIANCE AND CLIMATE RESILIENCE						

Y5.PMO.ENV.01	Quarterly review of Environmental Compliance	Taryn Bigwood	Quarterly	Contractual requirement	<ul style="list-style-type: none"> EMMP quarterly update as required 	In progress: ongoing
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Y5.PMO.ENV.02	TA on project development documents as required by transactions	Taryn Bigwood	As required	Leading practice	<ul style="list-style-type: none"> ERFs developed from reviewing each project and transaction Review EIAs and EMMP and advise according to international standard, environmental compliance (with the country's legislation) and practical perspective Review of environmental licenses, environmental authorizations and other project documents as required 	In progress: all up to date
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Y5.PMO.ENV.03 Y5.03.06.01.RSA	Impact on Energy from Wildlife	Taryn Bigwood	As required	Leading practice	<ul style="list-style-type: none"> Developing a Wildlife and Energy Handbook for Southern Africa Assist EDM to integrate the management of wildlife incidents into the business, which includes project planning and development of wildlife incident management system, training and awareness and train-the-trainer, equipping EDM to continue the training on their own Provide Eskom with a protected areas evaluation report 	In progress
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Y5.PMO.ENV.04	Assistance with environmental reviews and project assistance	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice	<ul style="list-style-type: none"> Review of policies and advise on environmental shortfalls so that all policies can meet international environmental standards and the country's environmental policies and legislation Contribute to all assessments Assist with environmental planning needed for the energy regulators 	In progress: Q1 task completed
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Y5.PMO.ENV.05	Assist the Department of Mineral Resources and Energy (DMRE) develop an Electrification Master Plan	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice	<ul style="list-style-type: none"> Evaluate the grantees for environmental compliance 	Not yet started
Y5.PMO.ENV.06 Y5.01.01.10.RSA Y5.02.09.10.RSA Y5.04.03.02.RSA	Assist SALGA with environmental considerations in their capacity building activities	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice	<ul style="list-style-type: none"> Advise on environmental matters in the development of an Electrification Master Plan Review consultants and specialists work that will be used in the Electrification Master Plan Assist in legal capacity-building workshops Contribute to environmental project management for the Master Plan Assist with capacity building on battery storage to highlight the environmental legal requirements and processes for battery storage Assist with capacity building and material development specifically addressing the Environmental Social Management Systems Assist with capacity building on the environmental legal process for electricity PPPs 	In progress: assisted OC2 with capacity building and completed all tasks, currently assisting OCI
Y5.PMO.ENV.07 Y5.03.04.03.ANG	RNT PIU Environmental Advisory and Assistance for the Central–South 400 kV transmission Project	Taryn Bigwood	10/01/2021 – 09/30/2022	Leading practice and compliance with International Financial institutes operational safeguards	<ul style="list-style-type: none"> Assistance in developing the project manual, ESMS, AfDB quarterly compliance reports and documents needed to recruit the EPC contractor, M&S consultant, the RAP implementation consultant, the E&S budget and capacity building plan Advise on the evaluation process in the recruitment of the OE, the EPC contractor, the RAP implementation consultant and the M&S consultants Assist with review of all the specific management plans developed by the OE and the gender mitigation framework Assist RNT with the first environmental and social project audit Assist RNT with the recruitment of the environmental auditor and the environmental and social safeguards specialists Provide high-level training and workshops on the ESMP conditions 	In progress: all Q1 tasks completed

and any specific items that may require engagement and capacity building

GENDER

Y5.PMO.GEN.01	Utility gender mainstreaming toolkit	Gender Team	10/01/2021-09/30/2022	For long term sustainability EGENCO request	<ul style="list-style-type: none"> • Packaged as a toolkit: • Gender self-assessment guidelines (completed in Year 3 for EGENCO) • Gender mainstreaming in utilities and regulators training manual • Training reports 	In progress – on 9 November 2021, an initial meeting was held with EGENCO Gender Mainstreaming Manager to discuss the support.
Y5.PMO.GEN.02	Support women entrepreneurs in procurement tender process	Gender Team	10/01/2022 – 09/30/2022	Leading Practice	<ul style="list-style-type: none"> • Packaged as a toolkit: • Gender self-assessment guidelines (completed in Year 3 for EGENCO) • Gender mainstreaming in utilities and regulators training manual • Training reports 	Not yet started
Y5.PMO.GEN.03	Support SADC Secretariat to implement findings of the SADC Gender Baseline Survey	Ellen Bomasang, Alexandra Eterno	10/01/2021-09/30/2022	SADC request	<ul style="list-style-type: none"> • Training on rollout of gender specific indicators to SADC Energy Institutions with a focus on SACREEE, RERA, SAPP and SADC overall • Advisory support to SADC Energy Thematic Group and SADC Energy Ministers on Gender Specific Indicator collection 	In progress: The Gender action plan was approved by the SADC Energy Ministers. SAEP is in the process to support the SADC secretariat in the development and dissemination of the implementation plan.
Y5.PMO.GEN.04	Zambia SHS Gender Mainstreaming ⁴	Gender Team	10/01/2021-09/30/2022	Request from SHS companies	<ul style="list-style-type: none"> • Gender specific training for sales agents and managers as part of SFE • Recommendations for gender hiring practices within SHS companies • Initial impact report on gender focus within SHS companies (similar to PAOP report) 	Not yet started
Y5.PMO.GEN.06	Madagascar Mini-grid Gender Mainstreaming	Gender Team	10/01/2021-09/30/2022	Leading Practice	<ul style="list-style-type: none"> • Discussions with grantees on their incorporation of gender mainstreaming into their mini-grids (this will be remotely delivered) • Share power points and training materials on leading practices to incorporate gender and social inclusion into their mini-grid operations 	Not yet started

Y5.PMO.GEN.07	Gender mainstreaming for EGENCO board	Gender Team	10/01/2021 - 09/30/2022	EGENCO Board Request	<ul style="list-style-type: none"> Utility board gender mainstreaming leadership development program manual/guidelines (general document that could be shared with all utility boards) Presentation for the training to EGENCO Training impact report Quarterly progress reports of the impact of the training 	In progress – on 9 November 2021, an initial meeting was held with EGENCO Gender Mainstreaming Manager to discuss the support.
Y5.PMO.GEN.08	Dissemination of Gender Analysis Report for SHS impact in Malawi, Zambia and Mozambique	Gender Team	10/01/2021 - 06/30/2022	Leading Practice	<ul style="list-style-type: none"> Webinar and outreach series to share the report Engagement sessions with SHS companies so they understand the findings 	In progress
Y5.PMO.GEN.09	EGENCO Gender Mainstreaming Program: Implementation of train the trainer	Gender Team	10/01/2021 - 09/30/2022	EGENCO request	<ul style="list-style-type: none"> Gender and social inclusion training manual Gender and social inclusion training reports for four to five stations Quarterly progress reports on implementation status 	Not yet started
Y5.PMO.GEN.10	Support RNT PIU in developing a Gender Action Plan	Ellen Bomasang Inka Schomer	3/1/2021 - 12/30/2021	RNT request	<ul style="list-style-type: none"> Gender Workshop Brief Report Gender Action Plan Gender Action Plan Communications Materials Gender Action Plan Learning Guide 	In progress
Y5.PMO.GEN.11	Training on gender sensitization	Alexandra Eterno	10/01/2021 - 09/30/2022	RDG Request	<ul style="list-style-type: none"> SAEP to tailor existing gender sensitization training materials and prep RDG to deliver training to all employees 	In progress
Y5.PMO.GEN.12	Training on HR / gender policies	Alexandra Eterno	10/01/2021 - 09/30/2022	RDG Request	<ul style="list-style-type: none"> SAEP to work with RDG to develop training on HR / gender policies and prep to deliver training to all employees 	In progress
Y5.PMO.GEN.13	Support for female agent recruitment / retention	Alexandra Eterno	10/01/2021 - 09/30/2022	RDG Request	<ul style="list-style-type: none"> Develop and / or refine strategy for recruitment and retention of female agents 	In progress

Activity No	Activity Title	SAEP Activity Lead(s)	Start and End Dates	Reasoning / Buy-In	Deliverable(s)	Status
ADMINISTRATION AND OPERATIONS						
Y5.F&O.CLF.01	Continuous monitoring of Malawi SHS Kick-Starter program	Mpumelelo Mlilo	10/01/2021 – 03/30/2022	Contractual Requirement	<ul style="list-style-type: none"> • Biweekly updates • Quarterly approvals of reports submitted by grantees • Continuous monitoring and briefing materials as required 	<p>In progress: The Malawi Kickstarter program continues to operate and the Grantees signed Modification 5 which extends the period of performance to June 2022</p>
Y5.F&O.CLF.02	Implementation and continuous monitoring of the Madagascar mini-grid grant	Mpumelelo Mlilo	10/01/2021 – 03/30/2022	Contractual Requirement	<ul style="list-style-type: none"> • Biweekly updates • Grant contracts with grantees • Quarterly approvals of reports submitted by mini-grid grantees • Set up of grantees in Fluxx • Continuous monitoring and briefing materials as required 	<p>In progress: SAEP followed up often with HFF regarding the status of land allocation amid concerns that the company was not making sufficient progress and might not meet grant milestones. On 29 June 2021, HFF shared a letter with SAEP from the Manaratsandry council confirming that they have been allocated the land to construct the mini-grid. HFF is now awaiting the Rural Electrification Agency's (ADER) authorization to sell power and a mini-grid construction permit. HFF made no progress in the quarter in resolving the matter and it is expected that it would be finalized in the next quarter.</p> <p>HIER received equipment to extend the distribution network of the 560-kW hydro powered mini-grid in Tsarazaza and are facing challenges in relation to Customs Clearance. This is expected to be resolved in the next quarter</p>
Y5.F&O.FIN.01	Imprest Submission	Mpumelelo Mlilo	10/1/2021 - 9/30/2022	Required to maintain cash flow for local operations	<ul style="list-style-type: none"> • Cash Disbursement Report (Imprest) submitted to the Home Office 	<p>.In progress: All Imprest reports have been submitted and reviewed on time according to the reporting timelines.</p>
Y5.F&O.FIN.02		Funanani Makhado	10/1/2021 - 9/30/2022	Ensure that accurate and complete accounting records are kept	<ul style="list-style-type: none"> • Monthly Audit file • Payroll to General Ledger Reconciliation 	<p>In progress: The Finance team is finalising the annual year end . This would enable that the External</p>

	Processing Transactions on Pastel Accounting System					<ul style="list-style-type: none"> • Trial Balance and Balance sheet used preparation of Annual Financial Statements. 	Audit in January 2022 is finalised promptly
Y5.F&O.FIN.03	Processing of Payments	Zandile Dunge & Funanani Makhado	10/1/2021 - 9/30/2022	Ensure that all payments are processed		<ul style="list-style-type: none"> • Disbursement Forms • Payments to Vendors, ICAs, Staff reimbursements from both local and FCA Account. • Funding Zambia Office Operations. • Payroll Payments 	In progress: Payments to all vendors and staff members have been done as per established routines
Y5.F&O.FIN.04	Contract Administration	Mpumelelo Mlilo	10/1/2021 - 9/30/2022	Ensure that all Procurement, Sub Agreements, Time and Materials (PSM) Contracts adhere to agreed terms and conditions during the life of a contract and monitored Realtime.		<ul style="list-style-type: none"> • ICA Trackers • Rental Trackers • Sub Agreements Trackers' • Vendors Trackers for PSM 	In progress: Contracts Management for ICAs and Contractors has been ongoing in this quarter and adjustments have been made in line with no cost extension as needed.
Y5.F&O.FIN.05	Client Invoicing	Rajiv Weeraratne	10/1/2021 - 9/30/2022	Contractual Requirement		<ul style="list-style-type: none"> • Client invoice reviewed and submitted each period to USAID (thirteen periods in a twelve-month cycle in accordance with Deloitte yearly financial cycle) 	In progress: The Client invoicing process continues in line with Deloitte invoice policies.
Y5.F&O.FIN.06	Accrual Reports and Submission	Rajiv Weeraratne	10/1/2021 - 9/30/2022	Contractual Requirement		<ul style="list-style-type: none"> • Accruals submitted 30 days prior to the end of the quarter to USAID 	In progress: The last Accruals report was submitted in 30 December 2021 as per schedule.
Y5.F&O.FIN.07	Quarterly Financial Reporting and Submission	Mpumelelo Mlilo	10/1/2021 - 9/30/2022	Contractual Requirement		<ul style="list-style-type: none"> • Quarterly Financial Report submitted 30 days after the end of the quarter to USAID 	In progress: The quarterly report will be submitted as per the reporting timelines
Y5.F&O.STA.01	Meeting Statutory Requirements (SARS)	Mpumelelo Mlilo	10/01/2022 – 09/30/2022	Required submission to SARS based on annual tax calendar		<ul style="list-style-type: none"> • Submit PAYE, VAT, IRP6, EMP501, IRP5 Certificates and IT34C to SARS 	In progress: All PAYE and VAT returns have been submitted to SARS for Q1. The audit of VAT submissions from August 2021 is yet to be concluded by SARS and refunded accordingly
Y5.F&O.STA.02	Meeting Statutory Requirements (CIPC)	Mpumelelo Mlilo	10/01/2022 – 09/30/2022	Required submission of annual returns 30 days after the date of incorporation (October of each year)		<ul style="list-style-type: none"> • Submission of annual returns or any changes to registration details through Disclosure forms 	In progress: The annual submission of the annual returns has been concluded in October 2021 in line with the CIPC regulations
Y5.F&O.STA.03	Meeting Statutory Requirements (SARB)	Mpumelelo Mlilo Rajiv Weeraratne	10/01/2022 – 09/30/2022	Required by South African regulation in accordance with the exchange control act to enable cross border payments		<ul style="list-style-type: none"> • Obtain exchange control approval • Obtain exemption from Regulation 3 (I) (c) of the Exchange Control Act 	In progress: The annual renewal of the Exchange Approval has been granted for another year ending in October 2022

Y5.F&O.STA.04	Meeting Statutory Requirements (DOL)	Surita Wentzel Mpumelelo Mlilo	10/01/2022 – 09/30/2022	Required by the Department of Labor to disclose annual payroll turnover, so that an assessment can be made on the amount payable towards workman's compensation	<ul style="list-style-type: none"> Obtain a letter of good standing 	Not yet started: There has been no requirement for submission to DOL this quarter.
Y5.F&O.STA.05	Conduct annual external audit	Rajiv Weeraratne Mpumelelo Mlilo	10/01/2022 – 09/30/2022	Required by South African regulation in accordance with the Companies Act	<ul style="list-style-type: none"> Management Report and Audited Financial Statements Submit ITR14 SARS and submit annual return CIPC 	In progress: The Finance Team is in the process of concluding compilation of the Annual Financial Statements in preparation of the annual External Audit in 2022
Y5.F&O.HUR.01	Payroll processing	Surita Wentzel	10/1/2021 - 9/30/2022	Required by South African regulation	<ul style="list-style-type: none"> Calculate all statutory withholdings and fringe benefits and process monthly staff payroll 	In progress: Payroll with calculations were done on a monthly basis during this quarter.
Y5.F&O.HUR.02	Onboard new resources and submit required approvals to USAID	Surita Wentzel	10/1/2021 - 9/30/2022	Based on project requirements	<ul style="list-style-type: none"> Resource hiring conducted in line with project policies and procedures 	In progress: In this quarter SAEP recruited for the position Malawi Country Manager and he is expected to join the SAEP on 10 January 2022. Mrs. Tea Mihic, SAEP's Outcome 2 Deputy moved in to the Outcome 2 Lead position. We are looking to fill the following roles in F22Q2 Renewable Energy System Engineer, Madagascar Technical Expert and Off-Grid Electrification Specialist.
Y5.F&O.HUR.03	Annual staff compliance trainings or verification	Surita Wentzel	10/1/2021 - 9/30/2022	Required based on Deloitte policy	<ul style="list-style-type: none"> Confirmation from staff of annual compliance updates 	In progress: Staff is required to redo the FCPA and Anti-Human Trafficking training on an annual basis. Supporting documents like the CCN self-clearance form, CCN self-clearance evaluation form, and proof of training are uploaded to SharePoint on a continuous basis.
Y5.F&O.HUR.04	Annual staff performance management evaluation	Surita Wentzel	10/1/2021 - 9/30/2022	Required based on Deloitte policy	<ul style="list-style-type: none"> Conduct staff performance evaluations and document all performance evaluations in personnel files 	In progress: Performance evaluations will be used accordingly to appraise both DCOP and DTSA staff in 2022
Y5.F&O.OPS.01	Coordinate office administration and operations support - Pretoria office	Moleboheng Sedyadiya	10/1/2021 - 9/30/2022	Required to maintain office operations	<ul style="list-style-type: none"> Program administration and operations support for the Pretoria Office 	Not yet started
Y5.F&O.OPS.02	Coordinate office administration and operations support - Lusaka office	Pricilla Miti	10/1/2021 - 9/30/2022	Required to maintain office operations	<ul style="list-style-type: none"> Program administration and operations support for the Lusaka Office 	Not yet started

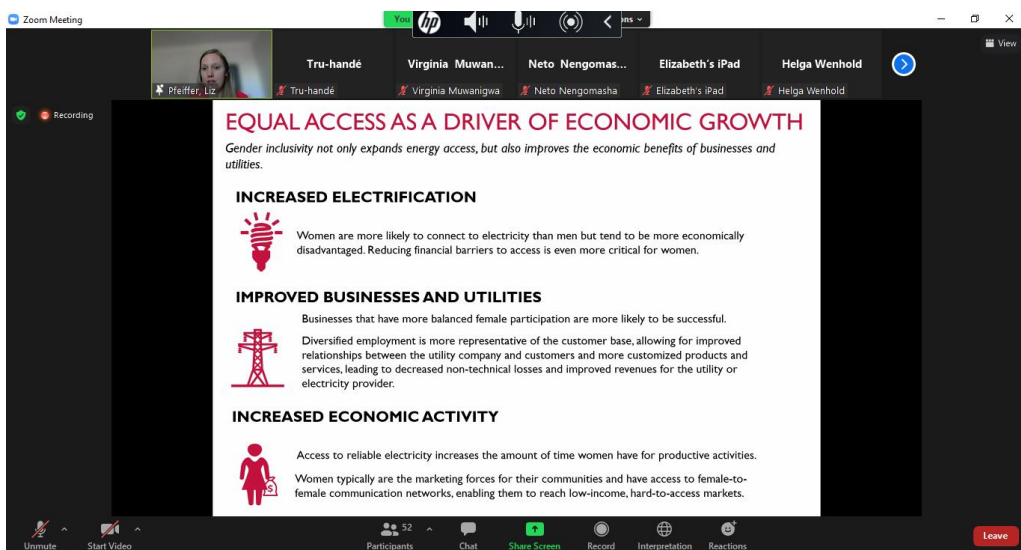
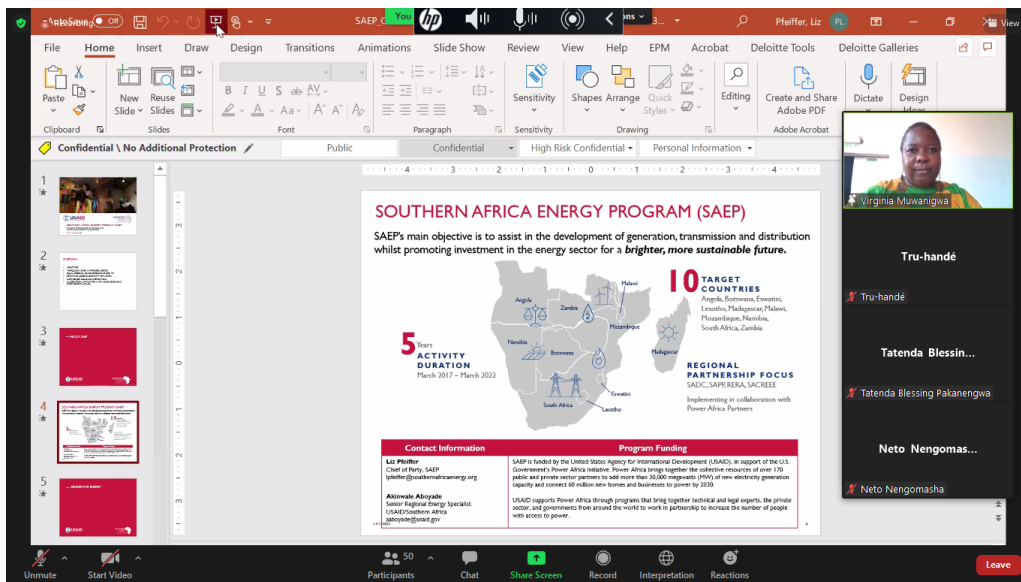
Y5.F&O.PRO.01	Procurement support for personnel and office materials	Naresh Totaram	10/1/2021 - 9/30/2022	Based on project requirements	<ul style="list-style-type: none"> All required materials and services procured in line with project procurement guidelines 	Not yet started
Y5.F&O.TRA.01	Develop Travel Authorization Requests and submit for approval	Naresh Totaram	10/1/2021 - 9/30/2022	Contractual Requirement	<ul style="list-style-type: none"> TARs developed in line monthly travel schedule and submitted to USAID for approval 	In progress: Travel Approvals submitted to USAID for approval.
Y5.F&O.TRA.02	Coordinate project regional travel	Naresh Totaram	10/1/2021 - 9/30/2022	Based on project requirements	<ul style="list-style-type: none"> Coordinate with project travel agent, hotels, vehicle rental companies to secure bookings and coordinate regional travel after TARs are approved 	In progress: Regional Travel has been coordinated as per TAR approvals. Supported project staff as per logistical requirements.

APPENDIX L PHOTOS FROM QUARTER 1

During Q1, SAEP continued their support to the Endangered Wildlife Trust (EWT) on the energy and wildlife activity - helping utilities better manage wildlife and electricity interactions and reduce the risk of revenue loss of as a result of these interactions. SAEP also hosted and attended numerous virtual workshops, meetings and conferences during this quarter. Due to COVID-19 and current travel restrictions, in-person events and workshops with counterparts in the region are not yet possible.

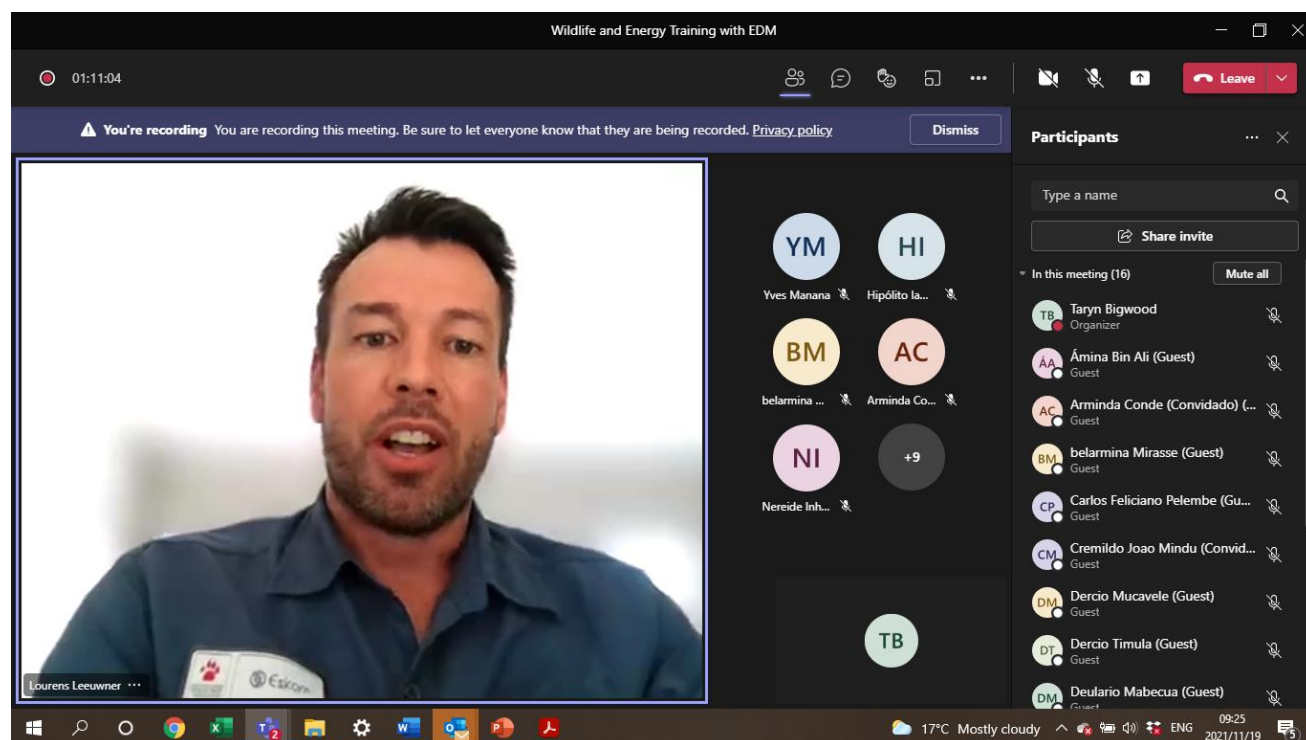
SARDC Virtual Conference on Sharing Experiences of Gender and Renewable Energy Innovations on 11 November 2021

On 11 November 2021, SAEP’s COP delivered a presentation titled: “Lighting the Way to Women’s Economic Empowerment in Zambia” at the Southern African Research and Documentation Centre’s (SARDC) renewable energy conference. Over 50 people participated in this virtual conference.



EWT Wildlife System Management Training for EDM Staff from 18 to 19 November 2021

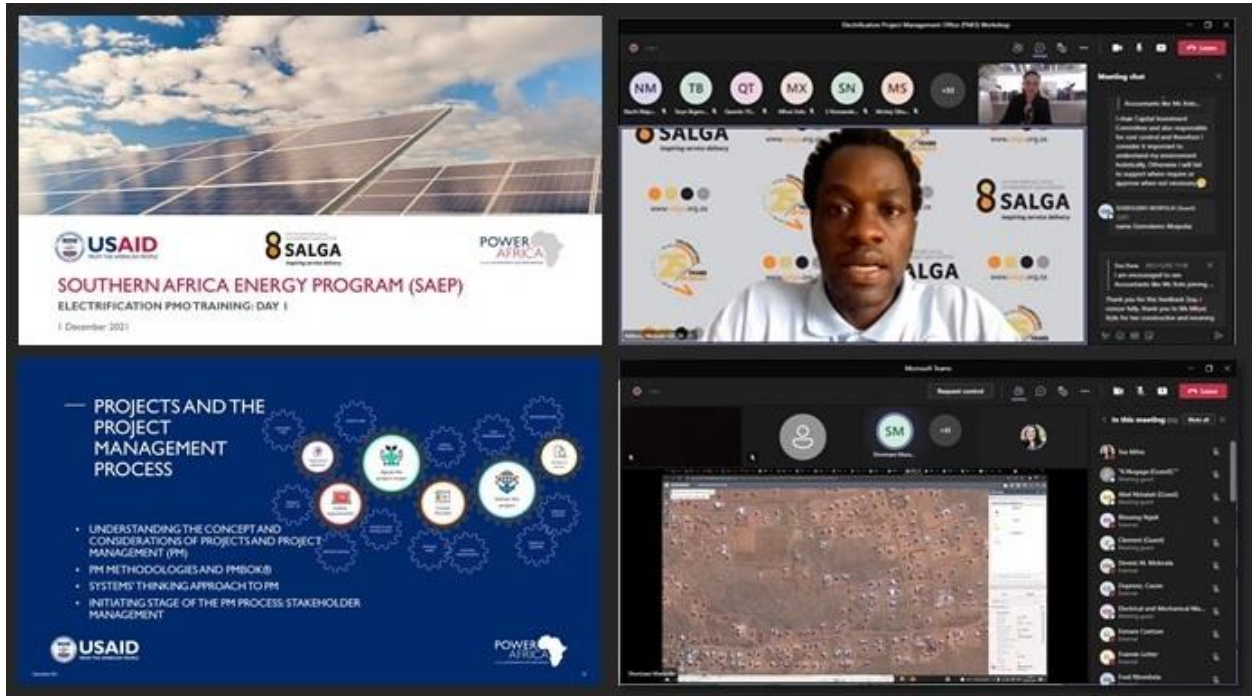
SAEP, in partnership with EWT, completed a two-day energy and wildlife system management training for EDM on 18 and 19 November 2021. Around 56 EDM staff members, including management, generation, transmission and distribution teams from 25 regions participated. SAEP and the EWT are helping EDM to reduce the impact of energy infrastructure on wildlife.



EWT Wildlife and Energy Program Manager, Lourens Leeuwner conducting the energy and wildlife system management training for EDM staff

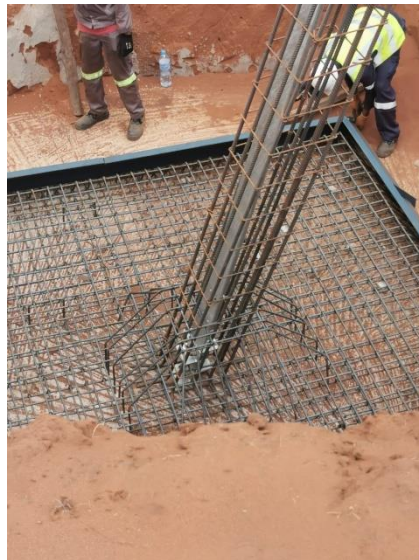
SAEP Electrification PMO Training for South African Municipalities from 1 to 2 December 2021

SAEP facilitated an Electrification PMO Training for South African municipalities from 1 to 2 December 2021. The training focused on the key challenges in the project management cycle that municipalities currently face with their electrification projects. SAEP and SALGA identified the specific challenges during discussions with selected municipalities before the workshop. On average, around 50 municipal officials from 20 municipalities attended the sessions. This capacity building initiative resulted from SAEP's collaboration with SALGA and is one of a series of training topics being offered to improve municipalities' abilities to manage customer connections and enhance the skills of the energy professionals within these municipalities.



TTP Line Contractor Starts with Tower Foundation Works on 2 November 2021

SAEP continues to track the TTP’s construction progress after it reached FC in December 2020. In Q1, the TTP made good progress. This includes the conclusion of factory acceptance tests, tower type tests and the arrival of construction material shipments such as transmission line conductors. The transmission line contractor started with the tower foundation works on 2 November 2021. The construction of the resettlement houses is expected to start in January 2022 as detailed designs for these were initiated in early November 2021.



Zambia One-Stop Shop Workshop and Virtual Country Tour of the Working Group from 8 to 10 December 2021

A workshop and virtual country tour of the Working Group (WG) took place from 8 to 10 December 2021. The purpose of which was to present the Zambia WG (which is made up of a variety of representatives from Ministry of Energy, Commerce, Trade and Industry, Finance, Justice and Lands and Natural Resources, the Bank of Zambia, the Energy Regulation Board, the Rural Electrification Authority, the Zambia Development Agency and others) with an overview of how One-Stop Shops (OSSs) work in other jurisdictions.

Colleagues were invited from the Southern African region to present on the inception, purpose and processes of their programs, while also being available to answer any questions the WG had. SAEP was asked to make a presentation on country research into a variety of OSSs from around the world (originally made to a previous WG in 2020). This was a presentation based on desktop study research, providing insight into the diversity of approaches and applications for OSSs, together with the possibilities of developing an OSS mechanism unique to and appropriate for Zambia. Countries covered in the presentation included Belgium, USA, Singapore, Denmark and Costa Rica.



The Zambia Working Group

20 MW Golomoti Solar PV plus 5MW/10MWh Lithium-ion BESS

In Dedza, Malawi, approximately 100 kilometers southeast of the capital, Lilongwe, construction is nearly complete on what will be a revolutionary power project. Co-developed by Power Africa partners, JCM Power and the Private Infrastructure Development Group's InfraCo Africa, and with financial support from Innovate UK, the Golomoti Solar PV and Battery Energy Storage Project will generate 20 MW of clean, renewable electricity, and will be the first utility-scale plant in the region to include a BESS. Golomoti's BESS will employ lithium-ion batteries with a capacity of 5 MW/10 MWh, and will sit within the project's interconnection substation compound. SAEP previously provided transaction advisory services to integrate BESS functionality into the project's financial model. SAEP developed a bankable financial model and assisted with optimizing Golomoti's storage capacities and the revenue structure of storage versus direct sales. The integration included new BESS sizing, usage, and cost features to determine the best financial and technical solution. During the reporting period,

SAEP followed up with the developers and was informed that the BESS was successfully commissioned in December 2021; full commercial operations for both BESS and solar is targeted for February 2022.



The 20 MW Golomoti Solar PV and Battery Energy Storage Project will pioneer utility-scale battery energy storage. Photo credit: JCM Power



The 20 MW Golomoti Solar PV and Battery Energy Storage Project site is located in Dedza, about 100 kilometers southeast of Lilongwe. Photo credit: JCM Power

ASSUMPTIONS FOR CALCULATION AND INVOICING OF FEE

Pursuant to section B.3 (f) of the SAEP contract, Deloitte will include earned fee on the periodic invoice immediately following the COR’s final acceptance of the SAEP Quarterly Progress Report. Each quarter’s earned fees will not exceed one-twentieth (5%) of the total fixed fee amount, or USD \$242,427 per quarter. This includes a maximum of USD \$151,517 for timely submission of all required deliverables during the quarter (Output Indicator #X), and USD \$90,910 for meeting quarterly targets for four Impact Indicators (#Y, #Z, #AA, and #AB).

COR acceptance of the Quarterly Progress Reports will constitute acceptance of the performance indicator values included in the Performance Monitoring and Evaluation Tables presented as an Appendix to that report. With the exception of the first Quarterly Progress Report, which covered the period from program award to 30 June 2017, SAEP Quarterly Progress Reports will follow the US Government fiscal year.

RECONCILIATION OF DISPARATE PROJECT CALENDARS

At the request of USAID/Southern Africa, Deloitte prepared the SAEP Year 1 Work Plan that covers the period from program award on 15 March 2017 through the end of US Government Fiscal Year 2018. While this simplifies planning and reporting by aligning project years to the US Government fiscal calendar, it also has the effect of extending Project Year 1 to more than six fiscal quarters.

From Project Year 2 onward, the calendars for Quarterly Progress Reporting, invoicing of fee, and the Government fiscal year will all coincide. In Year 5, this will result in an abbreviated performance year, with only two quarters for program reporting and invoicing of fee.

TREATMENT OF QUARTERLY AND ANNUAL PERFORMANCE TARGETS

As indicated in SAEP’s approved PMEP, target values for the four *Impact Indicators* are set on an annual basis. For purposes of quarterly reporting and calculation of fee, incremental performance targets for Quarters 1, 2 and 3 of each Program year are set at zero, and with Quarter 4 of the Program year carrying the full annual performance target. In the event Deloitte does not meet the annual performance target, fee may not be invoiced in subsequent quarters until that target is met. That is, Deloitte may not begin invoicing fee in Q1 of Year 4 if the annual performance target for Year 3 has not been met, even though the incremental performance target for the quarter is zero. Figure 1 below summarizes the quarterly impact indicator targets for SAEP’s Year 5.

Figure 1: Quarterly Impact Indicator Targets, Program Year 5

Indicator	Disaggregation						Baseline & Rationale
		FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	FY 22 Total	
#AA: Capacity (MW) from transactions supported by SAEP that achieved financial closure	<ul style="list-style-type: none"> • <i>Country</i> • <i>Technology (separating transmission from generation)</i> <p><i>*note when female</i></p>	552.35	0	30	5	578.62	0; targets based on transaction pipeline and experience with financial closure timelines and probabilities (includes transmission and generation capacity)

Indicator	Disaggregation						Baseline & Rationale
		FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4	FY 22 Total	
	<i>ownership in developer consortium</i>						
#AB: Direct Electricity Access: Number of new grid and off-grid actual direct connections	<ul style="list-style-type: none"> • <i>Type of connection</i> • <i>Type of enterprise</i> • <i>Country</i> 	168,459	175,142	227,302	224,190	795,093	0; number of new grid connections of off-grid access directly enabled based on OC4 technical work plan with implementation priority countries
#Y: Number of laws, policies, strategies, plans, or regulations, officially proposed, adopted, or implemented	<ul style="list-style-type: none"> • <i>Country</i> • <i>Measure (Clean Energy standard)⁵</i> 	0	0	0	1	1	0; targets set based on anticipated need for relevant laws, policies, strategies, plans or regulations in the region
#X: Submission of required deliverables as per Section F of the Contract	<ul style="list-style-type: none"> • <i>Type and # of reports</i> • <i>Submitted or not submitted timely</i> 	100%	100%	100%	100%	100%	0; For all Section F deliverables not including the trip reports and other reports which will be estimated later
#Z: Generation and Transmission capacity (MW) pending financial closure	<ul style="list-style-type: none"> • <i>Country</i> • <i>Technology/ energy source</i> • <i>Transaction Stage</i> • <i>*Note female ownership</i> 	NA	NA	NA	NA	NA	Indicator measures new transactions added to the pipeline to equate to the total amount in the pipeline.

SETTING OF ANNUAL TARGETS IN SUBSEQUENT PROJECT YEARS

Recognizing the importance of balancing accountability with changing conditions over the extended period of performance, Deloitte and USAID/Southern Africa have agreed to set performance targets for select indicators annually. To enable that flexibility while maintaining accountability and intended incentives, Deloitte will submit proposed annual targets for the coming year in the Year 4 Work Plan. USAID/Southern Africa acceptance of the FY21Q4 Quarterly Progress Report will constitute acceptance of proposed performance targets.

RECOVERING FEE IN THE EVENT OF UNDERPERFORMANCE IN A REPORTING PERIOD

Pursuant to B.3 (f) (5), fee amounts unbilled in a given period due to underperformance against targets are not permanently forfeited. With COR approval, these fees maybe recovered in subsequent periods, when Deloitte returns to meeting or exceedingly quarterly or year-to-date performance targets.

⁵ Disaggregation: Drafted, Presented, Regional, National, Private Sector Participation, Clean and Cleaner Energy, Small-Scale and Off-Grid Investments, Gender Equity and Country