

Millennium Challenge Coordinating Unit Monitoring and Evaluation Plan June 2019 Version 4

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PREAMBLE

This Monitoring and Evaluation (M&E) Plan:

- is part of the Millennium Challenge Account Threshold Program Grant Agreement signed on November 17, 2015 between the United States of America, acting through the Millennium Challenge Corporation (MCC), a US funded agency, and Sierra Leone, acting through the Ministry of Finance and Economic Development;
- will support provisions described in section 4.2 of the Threshold agreement/program; and
- is governed by and follows the principles stipulated in the MCC *Policy for Monitoring and Evaluation of Compacts and Threshold Programs* (MCC M&E Policy).

This M&E Plan may be modified or amended in line with the MCC M&E Policy without requiring an amendment to the Agreement. The Plan will be made available to the public including progress reports during implementation of the program.

LIST OF ACRONYMS

CA Constraints Analysis
DMA District Metering Area
DQR Data Quality Review

EDSA Electricity Distribution and Supply Authority EGTC Electricity Generation and Transmission Company

ERR Economic Rate of Return

ESRP Electricity Sector Reform Project

EWRC Electricity and Water Regulatory Commission

GVWC Guma Valley Water Company
ITT Indicator Tracking Table
M&E Monitoring and Evaluation
MCA Millennium Challenge Account
MCC Millennium Challenge Corporation

MCCU Millennium Challenge Coordinating Unit

MIS Management Information System NCP National Commission for Privatisation

NPV Net Present Value NRW Non revenue water POC Point of Contact

PPP Public Private Partnership

PV Present Value

QDRP Quarterly Disbursement Request Package

QRR Quarterly Results and Reporting

RBF Results-Based Financing

RSP Regulatory Strengthening Project TCR Threshold Completion Report

TOR Terms of Reference

WSRP Water Sector Reform Project

THRESHOLD PROGRAM AND OBJECTIVE OVERVIEW

Introduction

This Monitoring and Evaluation Plan serves as a guide for program implementation and management and ensures that MCCU management staff, the MCCU Board of Directors, program implementers, Government partners, and other stakeholders understand the progress being made toward the achievement of program objectives and results.

This Monitoring and Evaluation Plan is a management tool that provides the following functions:

- Describes the program logic and expected results. Gives details about what the expected impacts the Threshold Program and each of its projects are expected to have on economic, social and gender matters and how these effects will be achieved.
- Sets out data and reporting requirements and quality control procedures. Defines indicators, identifies data sources, and establishes frequency of reporting in order to define how performance and results will be measured. Outlines the flow of data and information from the project sites through to the various stakeholders both for public consumption and to inform decision-making. It describes the mechanisms that seek to assure the quality, reliability, and accuracy of program performance information and data.
- Establishes a monitoring framework. Establishes a process to alert implementers, MCCU, stakeholders, and MCC to whether or not the program is achieving its major milestones during program implementation and provides a basis for making program adjustments.
- Describes the evaluation plan. Explains in detail how MCC and MCCU will evaluate whether or not the interventions achieve their intended results and expected impacts over time.
- *Includes roles and responsibilities*. Describes in detail tasks for which the M&E staff are responsible.

Threshold Program Background

Sierra Leone is a small West African country with a population of 6.45 million people (World Bank, 2015). The country has faced manmade and natural disasters in recent years. In 2002, Sierra Leone's civil war ended, leaving the country with tens of thousands dead, millions of displaced people, and destroying much of the infrastructure. Since the end of the war, the country has successfully completed a disarmament process, successfully transferred power from one major political party to the other, and made significant strides in economic growth and poverty reduction. Gains that had been made in economic growth were severely eroded by the outbreak of the Ebola Virus disease in 2014 and its ensuing consequences, as well as the fall in the price of iron ore in the world market, impacting the country's gains from its key export material.

On November 17, 2015, the United States of America through the Millennium Challenge Corporation signed a US\$44.4 million Threshold Agreement with Government of Sierra Leone. The Threshold entered into force February 16, 2016 and had an initial end date of February 15, 2020. At the time of this revision, the program is awaiting approval from MCC for an extension until January 31, 2021.

The Sierra Leone Threshold Program (THP) focuses on two binding constraints identified in Sierra Leone's Constraints Analysis (CA): (i) lack of access to reliable and affordable electricity and (ii) lack of access to clean water and sanitation. The CA revealed that Sierra Leone's limited and aging electrical grid imposes additional costs on the economy in the form of lost output due to electrical outages and higher energy costs paid by households and firms using generators, batteries, or household fuels. Similarly, weak water supply infrastructure and accompanying water-borne diseases impose a high shadow price on Sierra Leone's economy, as indicated by comparatively high out-of-pocket health expenditures for households and low labor productivity for firms. Importantly for the purposes of MCC's Threshold Program, the Constraints Analysis also highlighted that these constraints are exacerbated by weak sector governance and institutional capacity.

The Program seeks to build a foundation for the more effective and financially sustainable provision of essential urban services – water and electricity, with a focus on greater Freetown – in order to attract and sustain increased sector investment. To do so, the Program will strengthen key institutions to improve service delivery and will support reforms to increase transparency and accountability in the provision of these services in order to limit opportunities for corruption and petty bribery. Specifically, the Program seeks to:

- 1. Establish effective, independent regulation of the water and electricity sectors, including a framework for transparent tariff setting, and improve sector governance by better delineating institutional roles and responsibilities;
- 2. Improve commercial practices, operational independence, and planning capacity in water and electricity sector institutions through targeted technical assistance and capacity-building;
- 3. Enhance transparency, accountability, and customer service practices through stakeholder

- (community, consumer, and customer) engagement, outreach, and communication, and the establishment and utilization of new mechanisms to fight corruption and petty bribery; and
- 4. Test innovative approaches to achieve sustainable delivery of water and electricity that could serve as models of effectiveness with the potential to scale for systemic impact.

Threshold Program Logic

The Threshold Program consists of three projects: the Electricity Sector Reform Project (ESRP), the Water Sector Reform Project (WSRP) and the Regulatory Strengthening Project (RSP). These projects directly respond to the binding constraints to growth that were identified in the CA, particularly weak sector governance and institutional capacity.

The goal of this Agreement is to assist Sierra Leone to become eligible for a Millennium Challenge Compact by supporting the implementation of critical institutional and policy reforms that address the binding constraints to economic growth in Sierra Leone (the "Program Goal"). MCC's assistance will be provided in a manner that strengthens good governance, economic freedom and investments in the people of Sierra Leone. The objective of each Project is to support Government efforts to:

- Operationalize and build core capacities at the Electricity and Water Regulatory Commission (EWRC) in order to ensure transparency, support the long-term financial sustainability of the water and electricity sectors, and improve overarching sector governance and utility compliance with regulatory requirements (the "RSP Objective").
- Operationalize the emerging institutional framework and market structure in the electricity sector; improve integrated planning capacity; and strengthen operational efficiency and corporate governance at targeted electricity sector institutions, particularly the Electricity Generation and Transmission Company (the "ESRP Objective"); and
- Improve water sector coordination; strengthen commercial practices, operational independence, and planning capacity at the Guma Valley Water Company; and enhance transparency, accountability and customer service practices through improved community, consumer engagement, as well as the establishment and utilization of new accountability mechanisms (the "WSRP Objective").

Regulatory Strengthening Project (RSP)

This project aims to support the Government of Sierra Leone in its efforts to stand up and build the capacity of the newly established independent regulator – the Electricity and Water Regulatory Commission (EWRC) – through two activities:

- 1. The Institutional Strengthening Activity includes assistance in establishing core regulatory functions and capacities at EWRC. Thus, this activity will improve overarching sector governance and support development of regulatory performance monitoring standards and a transparent framework for regulated tariff setting to support the long-term financial sustainability of the water and electricity sectors.
- 2. The Performance -Based Regulation Activity (Results-Based Financing) aims to test knowledge transfer to the Electricity and Water Regulatory Commission (EWRC), Electricity Generation and Transmission Company (EGTC), Electricity Distribution and Supply Authority

(EDSA) and Guma Valley Water Company (GVWC) and incentivize the regulated utilities to improve performance. MCC funds under this activity will be conditional and only disbursed if utilities achieve targets on key performance indicators.

The Project Logic for the RSP is incorporated into the ESRP and WSRP diagrams and the table below summarizes the assumptions and risks concerning this Project.

Project Activities	Assumptions	Risks
ESRP/WSRP Regulatory Strengthening Project	 The regulator has the human and technical capacity to regulate the sector Regulatory frameworks established will be sustained The RBF framework identified the right indicators to propel performance improvements with the implementing entities Regulatory Strengthening Project activities and outcomes contribute to the objectives of the institutional strengthening and capacity building activities 	 Implementing entities will return to their prior state without the injection of incentives The monitoring systems will weaken after the THP ends Implementing entities non-compliant with reporting requirement of the regulator

Electricity Sector Reform Project (ESRP)

The Electricity Sector Reform Project will operationalize a new framework and market structure for the country's electricity sector, build capacity, and enhance transparency and accountability in governance.

The Roadmap and Coordination Activity is designed to clarify roles and responsibilities in the power sector and develop a stronger coordinated approach to sector development. This Activity aims to operationalize the electricity market restructuring that began in 2014 with the unbundling of the National Power Authority and the creation of the EWRC. The Electricity Sector Roadmap developed under this activity will set direction, policy goals and actions for the sector through 2030. To achieve improved sector coordination and planning, key sector stakeholders must have buy-in on the Roadmap goals and objectives and the GoSL must take ownership of moving the action items forward.

Under the Institutional Capacity Building Activity, the Threshold Program will provide targeted technical assistance to EGTC and EDSA in coordination with the Government and other development partners. The Threshold will support the development of a Planning Unit within the Ministry of Energy, which will lead efforts for sector planning and development of an Integrated Resource Plan.

The technical assistance to EGTC and EDSA will strengthen their ability to put the sector reforms into action through installing improved commercial practices and establishing improved operational management. This activity aims to strengthen the capacity of key electricity sector institutions to develop system plans and informational inputs (e.g., consumer census, geographic information system mapping, etc.) that can be used for data-driven decision making. The Threshold Program will conduct an assessment of EGTC's ability to meet current and future responsibilities in the reformed power sector, drawing on outcomes of the Roadmap and develop a business plan and utility transformation program to support EGTC's development. This transformation program for EGTC aims to put in place relevant organizational structures, policies and practices for improved financial and operational management of the utility. EGTC management and staff will receive training through a twinning program with the Volta River Authority in Ghana, established by the Threshold Program to increase EGTC's capacity to manage its hydro electrical plants and transmission lines. Currently, there is one hydro electrical plant (Bumbuna) that generates electricity to supply Freetown and another plant (Bumbuna II) is expected to come online within a few years. EGTC currently does not manage Bumbuna hydro electrical plant, but it is assumed that with its increased capacity, EGTC may take over management of that plant when the management contract ends as well as other hydro electrical plants that will come on line in the future. This is crucial for the future of EGTC as the thermal plants that serve Freetown currently only operate on an as needed basis.

This Activity also involves training of the Board of Directors of each utility to strengthen corporate governance practices. This training will increase each Boards' ability to provide oversight of EGTC and EDSA, and the management contractor recruited with the support of the World Bank to manage operations at EDSA.

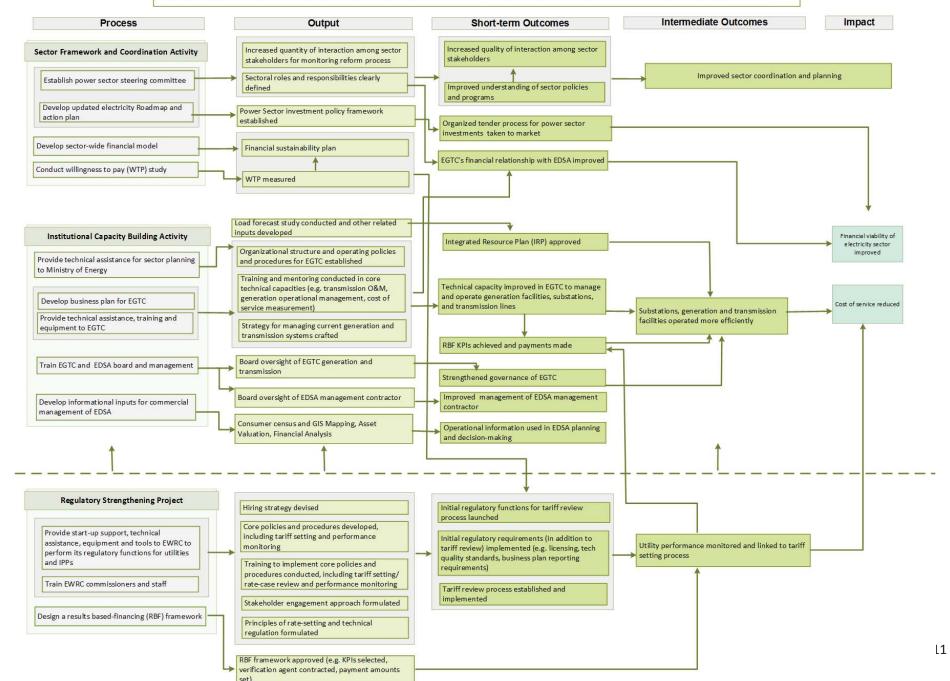
The key assumptions and risks that underlie the accomplishment of the theory of change for the ESRP are summarized in the table below

Project Activities	Assumptions	Risks
Roadmap and Coordination Activity	 There will be buy-in from sector stakeholders on the sector Roadmap Developing a sector roadmap will establish clear roles and responsibilities in the sector Once roles and responsibilities are clearly defined, stakeholders will act in line with those roles Sector Steering committee meetings take place as planned and interactions are facilitated 	 The roadmap does not reflect the interests of all key stakeholders, thus limiting coordination and planning in the sector and restricting roadmap implementation Political factors and lack of capacity and resources could influence stakeholders and limit their willingness and ability to coordinate on sector activities

	with best practices for meetings, communicating, reporting, accountability, etc.	Action items from the meetings are not implemented
Institutional Capacity Building Activity	 There will be a system in place to train new members of the Board EGTC will take over management of generation plants previously managed by management contracts Technical assistance will focus on the key areas of need for EGTC The relevant staff will be involved and receive high quality training in key areas of operations The staff have the support and resources to put their new knowledge into practice and the ongoing support when they experience challenges in doing this. Informational inputs are of high quality Development of informational inputs will lead to the use of these inputs for decision making Cost recovery tariff will be approved and implemented during the THP 	 New Board members are appointed and training does not continue Information gaps may still persist No change in organizational culture and behaviors The status quo will continue even with more capacity and tools for planning and decision making The expectation is for the tariff regime to be developed somewhat like a "pilot." There are no requirements for the government to approve and implement the tariff. Without a cost-reflective tariff at GVWWC will continue to be challenged financially.

The diagram below illustrates and describes the causal relationships among the program components and synthesizes expected outcomes intended to achieve the project objectives and the program goal.

Objective: To support GOSL efforts to operationalize the emerging institutional framework and market structure in Sierra Leone's electricity sector; improve integrated planning capacity; and strengthen operational efficiency and corporate governance at targeted electricity sector institutions, particularly the EGTC.



Water Sector Reform Project (WSRP)

The Water Sector Reform Project is comprised of three activities aimed at improving water sector coordination; strengthening commercial practices, operational independence, and planning capacity at the Guma Valley Water Company (GVWC); and enhancing transparency, accountability, customer service practices, and quality through improved community, consumer, and customer engagement, as well as the establishment and utilization of new accountability mechanisms.

- 1. The Water Sector Roadmap and Coordination Activity intends to support the GoSL's ongoing efforts to reform the institutional structure for the water, sanitation and hygiene (WASH) sector, including water resource management in greater Freetown. Specifically, this Activity will support technical assistance to develop an institutional roadmap for urban WASH to better delineate the roles and responsibilities of institutions in the sector, building on new and pending legislation and the GoSL's National Water and Sanitation Policy. The Activity will also support the establishment of a WASH sector steering committee to institutionalize urban WASH coordination and provide guidance on implementation of the broader WASH Sector Reform Project.
- 2. The GVWC Institutional Strengthening Activity aims to strengthen the water utility's capacity to perform core business functions and comply with emerging regulatory requirements developed under the Regulatory Strengthening Project. This Activity will support a: system-wide mapping, system condition assessments, customer mapping, and hydraulic modeling, all of which are needed to improve the GVWC's understanding of water system performance and enable proper planning. This Activity will also support the following:
 - Technical assistance to improve utility operations, including technical, financial, and commercial management, service quality, investment planning, procurement, contract management, corporate governance, and environmental sustainability;
 - Development of a strategy to reduce losses due to leaks, illegal or mischaracterized connections, theft, and other commercial losses (or non-revenue water), to be implemented and tested within the district metering area;
 - Establishment of the Guma Valley Water Company's Community Water Services Department (CWSD), and development of a strategy to improve, and build capacity for, service delivery to low-income consumers. This may include focus on institutionalizing a pro-poor and gender inclusive strategy and service delivery practices including (but not limited to) approaches in kiosk design and construction, tariff setting, business practices, investments and customer outreach and engagement.
 - Community and consumer outreach, including publication of service charters and consumer
 education on the need to pay for water; improvement of GVWC's ability to respond to
 reports of corruption and to incentivize improved staff performance. This may include
 investigations of allegations, audits of implicated accounts, establishment of reduction
 targets with associated recognition, and/or development of administrative sanctions. The
 activity also intends to leverage Sierra Leone's "Pay No Bribe" reporting platform to track

- reports of corruption related to the utility.
- The Guma Valley Water Company Act passed in 2017, The GVWC Act 2017, gave some powers to the National Commission for Privatization (NCP) to provide effective, efficient and coordinated management supervision and oversight through a performance contract with GVWC. The Threshold Program will provide technical assistance to assess/ review the urban water sector institutional structure and governance framework in relation to NCP, and recommend those actions that the NCP should undertake to address its role in the sector. With the new regime and its mandate, the Ministry of Water Resources will replace NCP to provide the management function of GVWC. This transition will be completed by the end of 2019. The TA support will continue with NCP until the end of the transition.
- 3. The District Metering Area and Kiosk Demonstration Activity intends to leverage the technical assistance provided under the GVWC Institutional Strengthening Activity by identifying and establishing two controlled district metering areas, within which the GVWC can implement and test its improved business practices and operationalize a non-revenue water strategy. The Guma Valley Water Company expects to measure water flows in and out of the district metering area, assess the scope of physical and commercial losses, and implement a plan to reduce non- revenue water including control of illegal or mischaracterized connections within the district metering area. This will enable Guma Valley Water Company to improve service reliability within the district metering area and collaborate closely with stakeholders to determine which strategies are most effective to reduce water losses. Under this Activity the Threshold Program will use a public-private partnership model for the management of public kiosks that will be constructed and will serve a large proportion of the households in the selected DMAs.

Project Activities	Assumptions	Risks
Roadmap and Coordination Activity	 Sector Steering committee meetings take place as planned and interactions are facilitated with best practices for meetings, communicating, reporting, accountability, etc. Developing a sector roadmap will establish clear roles and responsibilities in the sector and will leaded to improved quality of interaction – less time is wasted in deliberation of competing priorities. Once roles and responsibilities are clearly defined, stakeholders will act in line with those roles There will be buy-in from sector stakeholders on the sector 	 Action items from the meetings are not implemented The roadmap does not reflect the interests of all key stakeholders, thus limiting coordination and planning in the sector and restricting roadmap implementation Political factors and lack of capacity and resources could influence stakeholders and limit their willingness and ability to coordinate on sector activities

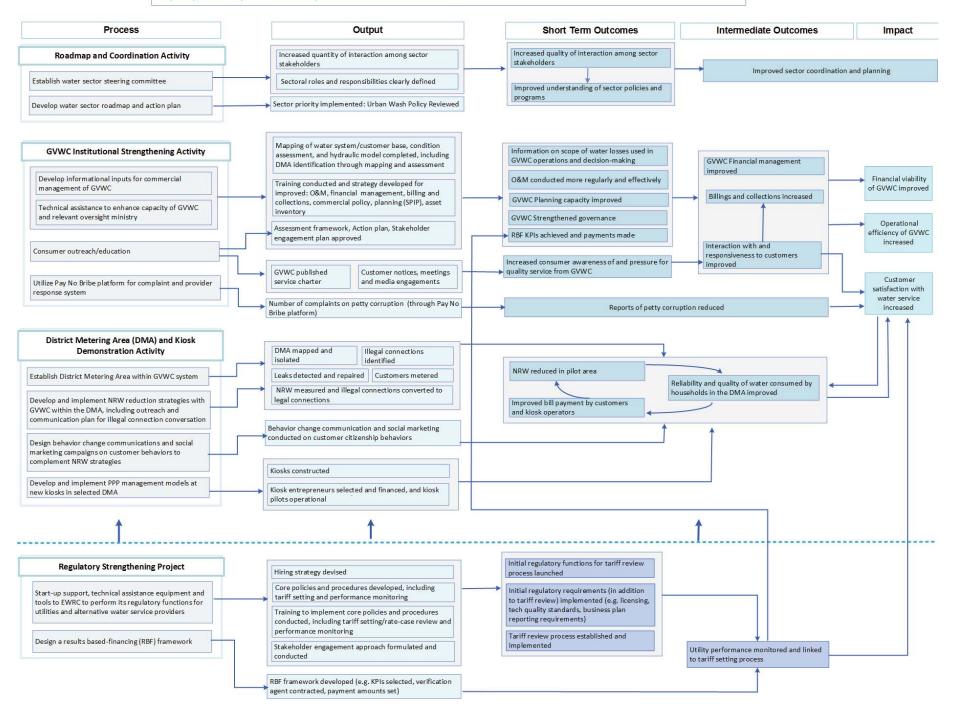
	Roadmap	
GVWC Institutional Strengthening Activity	 Informational inputs are of high quality Development of informational inputs will lead to the use of these inputs for decision making Technical assistance will focus on the key areas of need for GVWC The relevant staff will be involved and receive high quality training in key areas of operations The staff have the support and resources to put their new knowledge into practice and the ongoing support when they experience challenges in doing this. TA and training on O&M will lead to conduct and more effective O&M Cost recovery tariff will be approved and implemented during the THP Guma has an adequate system for fielding customer concerns and has the resources/capacity to respond to those concerns within a given window of time 	 Information gaps will persist No change in organizational culture and behaviors The status quo will continue even with more capacity and tools for planning and decision making The expectation is for the tariff regime to be developed somewhat like a "pilot." There are no requirements for the government to approve and implement the tariff. Without a cost-reflective tariff at GVWC will continue to be challenged financially.
DMA and Kiosk Demonstration Activity	 The appropriate NRW strategies are implemented in the DMA Sufficient numbers of illegal connections are converted to legal connections NRW measures increase service levels Customer connections are metered and billed based on consumption Customers' attitudes reflects increased willingness to pay for water (those with connections and those using kiosks) 	 Customers see no improvements in service levels Customer resistance to paying for water Maintenance of illegal connections Kiosk management does not lead to improved service

	 More customers pay for water Kiosks are managed effectively and earn profit DMA improvements and Kiosk management models are replicated across GVWC entire network 	
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The diagram below illustrates and describes the causal relationships among the project components and synthesizes expected outcomes intended to achieve the project objectives and the program goal.

WSRP Program Logic

Objective: To support GOSL efforts to improve water sector coordination; strengthen commercial practices, operational independence, and planning capacity at the GVWC; and enhance transparency, accountability and customer service practices



Program Beneficiaries

According to the MCC "Guidelines for Economic and Beneficiary Analysis", beneficiaries of projects are considered individuals that are expected to experience better standards of living due to MCC investments, either through increased real incomes or expenditure savings. The cost benefit analysis (CBA) for proposed projects quantifies the benefit streams through which beneficiaries should experience increased income, and the beneficiary analysis estimates the distribution of those benefits. However, Threshold Programs are not required to produce CBAs and therefore do not have an associated ERR. Without an ERR, there is no quantitative measure of the benefits of the program, so it is impossible to quantify the number of beneficiaries or distribution of those benefits. Instead, MCC obtained demographic data on Freetown's population from the 2011 Sierra Leone Integrated Household Survey and explored the characteristics of different categories of water and energy users.

The Threshold Program is expected to have direct impacts on the institutions that provide water and electricity to Freetown. These improvements are then likely to lead to improved service delivery. There are however many other factors that influence improved service delivery, and thus at the household level, for this Threshold Program, consumers are "beneficiaries" in the broader sense with non-monetary benefits and not expected to benefit from increased household incomes as a result of the project, as defined by MCC.

ESRP Beneficiary Analysis

The Electricity Sector Reform Project is likely to affect mainly households that already have connections to the electrical grid. About 58% of households have an electrical connection, and they are slightly less poor than population of Freetown as a whole. A higher percentage of customers are connected in the central and western parts of the city.

WSRP Beneficiary Analysis

The Water Sector Reform Project broadly is expected to affect households that obtain their water from GVWC sources, such as piped connections or public standpipes/kiosks connected to the GVWC network. Approximately 75% of households in Freetown receive their water from GVWC sources, according to the 2011 Sierra Leone Integrated Household Survey. GVWC connections and standpipes are more common in western and central Freetown than in the eastern part of the city, which is where many new migrants are settling. As might be expected, poverty rates are higher among households using public standpipes than among users with piped connection or who obtain or purchase water from other sources. The characteristics of the people affected by the DMA activities will largely depend on the location chosen for the DMA, but these statistics give a general idea of the profile of water users throughout Freetown.

MONITORING COMPONENT

Summary of Monitoring Strategy

The Threshold Program will be monitored systematically and progress reported regularly through the indicator tracking table (ITT). There are four levels of indicators that follow from the program logic framework: (i) process, (ii) output, (iii) outcome, and (iv) goal. The various indicator levels are mapped out of the program logic and thus allow Project developers and managers to understand to what extent planned activities are likely to achieve their intended objectives. Often, most outcome and goal indicators are not monitored during the life of the Threshold Program, but rather are reported through evaluations after the Threshold Program is complete. Those levels of results typically take longer to be achieved.

Monitoring data will be analyzed regularly to allow MCCU and MCC to make programmatic adjustments as necessary with a view towards improving the overall implementation and results of the Program.

Goal indicators measure the economic growth and poverty reduction that occur during or, most likely, after implementation of the program. For Threshold Programs, goal indicators will typically be a direct measure of local income and are typically measured through post threshold evaluations. Outcome indicators measure the intermediate effects of an Activity or set of Activities and are directly related through the Program Logic to the output indicators. Output indicators directly measure Project Activities. They describe and quantify the goods and services produced directly by the implementation of an Activity. Process indicators measure progress toward the completion of Project Activities. They are a precondition for the achievement of Output Indicators and a means to ascertain that the work plan is proceeding on time.¹

MCC has introduced common indicators for external reporting across all MCC Threshold. The common indicators relevant to the MCCU Threshold are included in this M&E Plan.

The Threshold outlines the initial indicators for the Program in Schedule A in Annex I. The M&E Plan builds on this information with additional indicators developed by MCC, MCCU, and implementing partners in the early stage of project implementation.

The Indicator Definition Table provides relevant details for each indicator by Project and can be found in Annex I. It provides descriptions for the indicator structure by specifying each indicator's: (i) name; (ii) definition; (iii) unit of measurement; (iv) level of disaggregation; (v) data source; (vi) responsible party; and (vii) frequency of reporting.

¹ The indicator levels are formally defined in MCC's *Policy for Monitoring and Evaluation of Compacts and Threshold Programs*.

To ensure that the Program is on track to meet its overall goals and objectives, the monitoring indicators will be measured against established baselines and targets other types of analysis, and project planning documents. The targets reflect the underlying assumptions made in program design about what each activity will likely achieve. Baselines and target levels for each indicator are defined in Annex II.

Modifications to the indicators have been made according to MCC M&E Policy. These modifications are documented in Annex III of this M&E Plan. Indicators may need additional modifications in future versions of the M&E Plan, and those changes should be duly document according to MCC M&E policy.

MCCU and MCC may establish baselines and end of Program results for those indicators that are not monitored by way of systematic data collection activities such as surveys and qualitative data collection.

The MCCU M&E Director shall consult and assist implementing entities in setting up their data collection plan and reporting templates.

Data Quality Reviews

Data quality is the primary responsibility of the MCCU-Sierra Leone staff, led by the M&E Director. The Director, other MCCU staff, as appropriate, and implementing entities should regularly check data quality. The M&E Director should verify that all reported data has appropriate source documentation and that calculations have been done correctly. The MCCU M&E Director will conduct field visits on a regular basis or whenever requested by MCC, to review the quality of the data gathered through this M&E Plan. MCCU may hire individual data quality monitors to monitor data collection and quality, as needed.

In addition to regular data quality checks by MCA staff, independent Data Quality Reviews (DQRs) will be conducted in accordance with the requirements of the MCC M&E Policy.

The objectives of DQRs are to assess the extent to which data meets the standards defined in the MCC M&E Policy in the areas of validity, reliability, timeliness, precision and integrity. DQRs will be used to verify the consistency and quality of data over time across implementing agencies and other reporting institutions. DQRs will also serve to identify where the highest level of data quality is not possible, given the realities of data collection.

The particular objectives for the DQRs will include identification of the following parameters: i) what proportion of the data has quality problems (completeness, conformity, consistency, accuracy, duplication, integrity); ii) which of the records in the dataset are of unacceptably low quality; iii) what are the most predominant data quality problems within each indicator; iv) what are the main reasons

behind low quality; and v) what steps can be taken to improve data quality.

MCCU-Sierra Leone will contract an independent data quality reviewer in compliance with MCC Program Procurement Guidelines. The entity responsible for data quality reviews should be hired in the first year of the Threshold Program.

Standard Reporting Requirements

Reporting to MCC: Quarterly Disbursement Request Package

Performance reports serve as a vehicle by which the MCCU Management informs MCC of implementation progress and on-going revisions to Project work plans. Currently, MCC requires that MCCU submit a Quarterly Disbursement Request Package (QDRP) each quarter. The QDRP must contain an updated Indicator Tracking Table (ITT) and a narrative report. A complete ITT presents the preceding quarters' indicator actuals and current quarter indicator progress against targets set forth in this M&E Plan. The ITT is the source for MCC's internal and external reporting on indicator progress.

Additional guidance on reporting is contained in MCC's <u>Guidance on Quarterly MCA Disbursement</u> <u>Request and Reporting Package</u>.

Reporting to MCA and Local Stakeholders

Even though the QDRP is required to be sent to MCC, MCCU should also use these reports and the data included in them to assess progress and performance internally. The M&E teams attempt to align MCC and MCCU reporting so that data is used to inform decision-making at both levels.

EVALUATION COMPONENT

Summary of Evaluation Strategy

While good program monitoring is necessary for program management, it is not sufficient for assessing ultimate results. Therefore, MCC and MCCU will use different types of evaluations as complementary tools to better understand the effectiveness of its programs. As defined in the MCC M&E Policy, evaluation is the objective, systematic assessment of a program's design, implementation and results. MCC and MCCU are committed to making the evaluations as rigorous as warranted in order to understand the causal impacts of the program on the expected outcomes and to assess cost effectiveness. This Evaluation Component contains three types of evaluation activities: (i) independent evaluations (impact and/or performance evaluations); (ii) self-evaluation; and (iii) special studies: each of which is further described below. The results of all evaluations will be made publicly available in accordance with the MCC M&E Policy.

Independent Evaluations

According to the MCC M&E Policy, every Project in a Threshold Program must undergo a comprehensive, independent evaluation (impact and/or performance). The next section on Specific Evaluation Plans will describe the purpose of each evaluation, methodology, timeline, and the process for collection and analysis of data for each evaluation. All independent evaluations must be designed and implemented by independent, third-party evaluators, which are hired by MCC. If the MCCU-Sierra Leone wishes to engage an evaluator, the engagement will be subject to the prior written approval of MCC. Contract terms must ensure non-biased results and the publication of results.

For each independent evaluation, MCCU and relevant stakeholders are expected to review and provide feedback to independent evaluators on the evaluation design reports, evaluation materials (including questionnaires), baseline report (if applicable), and any interim/final reports in order to ensure proposed evaluation activities are feasible, and final evaluation products are technically and factually accurate. MCC's evaluation review process will follow the guidelines outlined in the MCC M&E Policy.

Threshold Program Mid-Term Evaluation

MCCU plans to carry out a mid-term review of the Threshold Program. This mid-term review will assist MCCU MCC and the various program stakeholders to take stock of the first two years of the implementation of this program and assess the progress made in meeting the objectives of the Threshold. The results of this evaluation will help MCCU and the stakeholders to define the directions that will achieve the expected objectives of the Threshold.

Themes and questions that will be addressed as part of this evaluation include (but are not limited to) the following:

- Identifying potential issues related to project design (objectives, strategy, products and activities);
- Understanding whether the design and implementation of the Program achieved the stated objectives;
- Measuring progress to-date in achieving objectives, outputs and expected impacts;
- Identifying which activities pose a major risk to the achievement of results during the Threshold period;
- Identifying strengths and weaknesses in project implementation;
- Assess the extent to which the program's management and implementation procedures help to achieve the objectives of the Threshold Program by the end of the Threshold;
- Assess the sustainability of project results in view of project design and management; and
- Identify lessons learned to date and make recommendations on the design, management and implementation strategies for the remainder of the Program in order to maximize the impact of the Program both during the Threshold and post-Threshold.

Special Studies and Monitoring Activities

Either MCC or MCCU may request special studies or ad hoc evaluations of Projects, Activities, or the

Program as a whole prior to the expiration of the Threshold Program Term. These studies are designed to provide management and staff, project implementers, beneficiaries, and other stakeholders with performance information about Program implementation and results that will not be solely generated from performance monitoring or independent evaluations.

The MCCU intends to conduct a special study on the following topics:

- Follow up with beneficiary entities on the issues identified in the min-term review to assess
 how MCCU has worked with them to address implementation issues and to get implementing
 entities perspective about the value of benefit they have received from the THP intervention.
- A deep dive into the processes and effectiveness of the Twinning Program with Ghana Water Company Ltd for the WSRP and the Volta River Authority for the ESRP for building capacity within the utilities. This study will explore the similarities and differences in the approaches taken by each project, the perspectives of the participants and the challenges and lessons that can inform implementation of a similar efforts.
- For the WSRP, a special study is planned to assess factors related gender based violence in Freetown and specifically around fetching water in the targeted project area. This study will involve document reviews and reviews of extant data on incidence of GBV and attempt to understand the kinds of investments and interventions that are occurring at the sociopolitical level in terms of responding to GBV, and mapping out resources that GVWC can use in addressing GBV tied to water fetching at its kiosks. The first assessment will be conducted in 2018 and a follow-up at the end of the Threshold Program.

MCC would like to maximize its learning from the DMA Activity and intends to establish a partnership agreement with the University of Colorado to use innovative technologies to collect and use high frequency monitoring (HFM) data to understand a range of indicators related to the service levels of these kiosks and how they improve access to water in the project DMAs. Data from this effort will help MCCU and GVWC to monitor the kiosks, and serve as inputs for the independent evaluation.

Self-Evaluation

Upon completion of each Threshold program, MCCU-Sierra Leone will produce the Threshold Completion Report (TCR) to document and reflect on implementation and lessons learned. The MCCU-Sierra Leone staff will draft the TCR in the last year of program implementation. It should be noted that each department will be responsible for drafting its own section to the report for its own activities, subject to cross-departmental review.

Specific Evaluation Plans

Summary of Specific Evaluation Plans

A performance evaluation will contribute to understanding of the outcomes of the Threshold Program on the water and electricity sectors, including the implementing/beneficiary entities. While a quasi-experimental evaluation will help to assess the effectiveness of the activities implemented in the DMA.

The following table summarizes specific evaluation plans for the Threshold Program.

Evaluation Name	Evaluation Type	Evaluator	Primary/ Secondary Methodology	Final Report Date
Electricity Sector Reform Project	Performance	Social Impact	Mixed methods (Document review, KII, FGD, observations) Process mapping	2023
Water Sector Reform Project	Performance	Social Impact	Mixed methods (Document review, KII, FGD, observations) Process mapping	2023
District Metering Area and Kiosk Demonstration Activity	Performance	Social Impact	Time Series Comparative analysis	2023

MCC has contracted Social Impact to conduct an independent evaluation of the Threshold Program and is in the process of designing the evaluation. As a result not all details of the evaluation design are available at this time. The evaluators will conduct a performance evaluation of the Water Sector and Electricity Sector Reform Projects and the including the Regulatory reform project. The evaluation will assess the extent to which the Threshold has had an impact on the implementing entities' strategic planning and business operations. It will look at the financial viability of the utilities in each sector as well as the sustainability of transformations initiated and results. These outcomes will be evaluated interim and end line basis with interim data collection estimate to take place in late 2020 and end line data collection two years later in 2022.

The WSRP is piloting a DMA and Kiosk Demonstration activity which consists of two discrete portions of the GVWC distribution system that can be physically isolated from the rest of the system, in which GVWC service and operations can be optimized. These are intended to be achieved through monitoring and reducing Non Revenue Water; reducing or eliminating informal, unmetered connections; understanding water use rates; piloting billing and collection approaches, among other operation and management strategies. The DMA will serve as an opportunity to test approaches to all aspects of service provision and will serve as a proving ground for innovation with the objective of replicating and institutionalizing lessons learned from the DMA.

In 2018, two DMAs (Aberdeen and Kingtom) were selected for project intervention, with a third DMA (Cockle Bay) selected as a potential comparison area. The DMAs were selected through a purposive multi-step process that considered several key criteria including the level of difficulty and costs of isolating the area, the level of water supply in the areas, the extent to which land acquisition or physical displacement could be minimized and how DFID's large scale rehabilitation of the network would impact an area.

The evaluation will of this activity will include a time series analysis of system level administrative, metering and customer billing data to determine whether the design and implementation of non-revenue water reduction strategies with GVWC within the DMA, including an outreach and communication plan for illegal connections, will lead to a commercially viable entity. A comparative study is also proposed to assess household level changes in the project DMAs related to reliability and quality of service.

The following list of evaluation questions is preliminary and subject to change.

Evaluation Questions for the Electricity and Water Reform Projects and the Regulatory Strengthening Project

- 1. Were the Activities/Sub-Activities implemented as designed? What were the challenges and successes in implementing the reform activities in the sectors?
- 2. To what extent did the Projects/Activities accomplish the desired outputs and outcomes outlined in the program logics? For the ESRP this should include but is not limited to: improved financial relationship between EGTC and EDSA, improved efficiency at targeted substations and generation facilities, etc.; and for the WSRP: operation and maintenance conducted more regularly and effectively, billings and collections increased, and improved responsiveness to customers.
- 3. To what extent has coordination and planning within the water and electricity sectors improved as a result of THP activities?
- 4. What evidence is there that EGTC, EDSA and GVWC are becoming financially viable as a result of the THP activities? To what extent do these entities operate on principles that allow for cost recovery? Has cost of service improved?
- 5. What are the impacts of the THP activities on business operations and strategic planning within EGTC, EDSA and GVWC? How well did EGTC, EDSA and GVWC institutionalize (into the organization's culture and behaviors) the transformations that took place under the THP?
- 6. How useful was the THP's "dry run" (tariff development process) for helping to establish the tariffs in the water and electricity sectors? What were the challenges and successes in this process? To what extent does the tariff structure adopted allow for cost recovery of the utilities in the sector?
- 7. What lessons can be learned from the implementation of the RSP? What is the impact of the results- based financing process on improving EWRC capacity to effectively monitor utilities in the water and electricity sectors? What is the impact of the results-based financing process on the operational and financial efficiency of the utilities? To what extent are the results achieved under this Sub-activity sustained beyond the THP?
- 8. How sustainable are the outcomes of the projects and activities and why (e.g. around sector coordination, utility financial, commercial and operational improvements, etc.)? How was sustainability planning done during implementation and what best practices and lessons learned can be drawn from that process?

District Metering Area and Kiosk Demonstration Activity

- 9. Were the activities in the DMA and Standpipe Demonstration Activity effective at reducing NRW, and if so, which activities were the most effective?
- 10. How did the activities piloted impact service reliability, cost of water, water quality, water collection times, consumer citizenship attitudes and behaviors and satisfaction with water service in the targeted DMA? What evidence is there that the technical assistance provided to GVWC resulted in increased capacity to affect outcomes related to gender and social equity in the DMA?
- 11. What is the impact of the DMA Activity on standpipe management, the levels of water service provided by the developed/rehabilitated standpipes under the THP and post-THP (e.g. hours of water, water quality, etc.)? How does the private sector approach to standpipe management (MCC-sponsored kiosks or networks) compare to other standpipe management approaches (e.g., community managed kiosks or networks) in terms of service reliability, maintenance, cost to households and revenues for GVWC?
- 12. Are there systems and results in the DMA around NRW and the standpipe pilot that can be sustainably replicated to other GVWC service areas? What factors/indicators are critical to ensure successful replication?

Evaluation Methodology Description

The evaluation methodology is to be determined and will be defined in consultation with the evaluator when contracted. The performance evaluation may include reviews of administrative and financial data and collection of qualitative data from the implementing entities and key stakeholders in the sector.

Data Sources

ESRP and RSP Primary Data Collection

Survey Name	Quantitative	Define	Sample	Number	Exposure	Expected Dates
	or	Sample	Size	of Rounds	Period	of Primary Data
	Qualitative				(months)	Collection
Secondary	Quantitative	MCCU &	TBD	2	TBD	
utility data		consultants				Interim: 2020
and project	Qualitative					End line: 2022
documentation						
Qualitative	Qualitative	MCCU &	TBD	2	TBD	Interim: 2020
data collection		consultants,				End line: 2022
and		EGTC,				
observations		EDSA,				
		EWRC,				
		Ministry of				
		Energy,				

Sector steering committee		
committee		

WSRP and RSP Primary Data Collection

Survey Name	Quantitative or	Define Sample	Sample Size	Number of Rounds	Exposure Period	Expected Dates of Primary Data
	Qualitative	Sample	Size	Rounds	(months)	Collection
Secondary data and project documentation Qualitative	Quantitative Qualitative Qualitative	MCCU & consultants MCCU &	TBD	2	TBD	Interim: 2020 End line: 2022 Interim: 2020
data collection	Quantative	consultants, GVWC, EWRC Ministry of Water Resources, Sector steering committee	TBD	2	ТЪД	End line: 2022

DMA & Kiosk Demonstration Primary Data Collection

Survey Name	Quantitative or	Define Sample	Sample Size	Number of Rounds	Exposure Period	Expected Dates of Primary Data
	Qualitative	Sample	Size	Rounds	(months)	Collection
DMA survey	Quantitative	DMA	670	2	TBD	Interim: 2020
		households				End line: 2022
Sensor/meter	Quantitative	DMA flow	TBD	2	TBD	Interim: 2020
data		meters				End line: 2022
		pressure				
		loggers				
Qualitative	Qualitative	Kiosk	TBD	2	TBD	Interim: 2020
data collection		operators				End line: 2022

IMPLEMENTATION AND MANAGEMENT OF M&E

Responsibilities

The MCCU M&E Unit will be composed of an M&E Director who will have the key responsibility

of leading and managing all M&E activities. Additionally, the M&E Unit will hire short-term support on an as needed basis. The M&E Unit will carry out, or hire contractors to complete the following and other related activities:

- Direct implementation of all activities laid out in the M&E Plan and ensure all requirements of the M&E Plan are met by MCCU;
- As the champion of results based management, the M&E Unit will take steps to foster a results oriented culture throughout MCCU and its implementing partners this includes making sure that M&E information is used by the MCCU management and project teams to improve Threshold performance (feedback loop).
- Ensure that the M&E Plan is modified and updated as improved information becomes available;
- Elaborate and document M&E Policies, Procedures and Processes in a guidance document to be used by all MCCU-Sierra Leone staff and project implementers;
- Communicate the M&E Plan and explain the M&E system to all key stakeholders involved in the Threshold, particularly project implementers, to ensure a common understanding by all. This could take the form of orientation and capacity building sessions and could focus on issues as:
 - O Explaining indicator definitions, data collection methods and timing/frequency of data collection and reporting,
 - O Data quality controls and verification procedures,
 - O Impact evaluation questions and methodology, etc.;
- Develop and use a documentation system to ensure that key M&E actions, processes and deliverables are systematically recorded. This may be accomplished either as part of the M&E information system or independently. The documentation may encompass the following elements:
 - O Indicators and material evidence for reported values
 - o M&E Plan versions
 - O Reporting manuals and templates
 - O Key M&E deliverables including TORs, contracts/agreements, data collection instruments, reports/analyses, etc.;
- Develop (with the Press and Communications Officer, Stakeholder Engagement and Resettlement) and implement a systematic results dissemination approach that draws on verified ITT data:
- Organize and oversee regular independent data quality reviews on a periodic basis to assess the quality of data reported to MCCU;
- Participate in project monitoring through site visits, review of project reports and analysis of performance monitoring and other data;
- Update the M&E work plan periodically;
- Manage the M&E budget efficiently;
- Contribute to the design of the evaluation strategy;
- Collaborate with the procurement team to prepare and conduct procurement of M&E contracts;
- Ensure that data collection mechanisms are designed to collect data disaggregated by gender and

- other dimensions, as applicable and practical, and that the findings are presented at the appropriate disaggregated level; and
- Ensure data collection, storage, and dissemination activities maximize protection of confidentiality of survey respondents' personally identifiable information. This may require:
 - o Facilitating local Institutional Review Board clearance for data collection
 - O Using lock and key cabinets for paper files,
 - O Using secure file transfer systems,
 - o Encrypting data files,
 - O Employing password protection on data systems and data encryption,
 - O Requiring signed acknowledgements of roles and responsibilities,
 - O Requiring relevant stakeholders to sign non-disclosure agreements, and
 - O Incorporating data protection standards into the organization's records management procedures, or if necessary, developing records management procedures that include such standards.

The M&E Director will be a part of MCCU's internal Management Unit, comprised of the MCCU CEO, COO and the Program Officers. Collaboration with the procurement team will be very important to prepare and conduct timely procurement of M&E related contracts as well as ensuring that other implementation contracts contain necessary data reporting provisions.

Seminars, workshops, elaboration and distribution and dissemination of M&E materials shall be conducted in close cooperation with the MCCU Communications Unit.

In order to prepare for post-Threshold monitoring by the Government, the MCCU M&E Unit should identify a post-Threshold point of contact (POC) for MCC early on in the program and work with that POC to build understanding of the MCC program and monitoring process. This POC should be part of the Government entity that will commit to continuing M&E of Threshold Program investments after the Threshold Program End Date. The M&E Unit should also identify the stakeholders that will be responsible for reviewing evaluation reports that are delivered post-Threshold to ensure that the relevant project stakeholders review and provide feedback prior to the publication of final reports.

MCA Management Information System for Monitoring and Evaluation

MCC does not require the Threshold Programs to report using the MCC MIS.

Review and Revision of the M&E Plan

The M&E Plan is designed to evolve over time, adjusting to changes in program activities and improvements in performance monitoring and measurement. In the fourth quarter of every year of the threshold, or as necessary, the M&E Director of MCCU and representatives of MCC M&E staff will review how well the M&E Plan has met its objectives. The review is intended to ensure that the M&E

Plan measures program performance accurately and provides crucial information on the need for changes in Program design. More specifically, the review:

- Ensures that the M&E Plan shows whether the logical sequence of intervention outputs and outcomes are occurring;
- Checks whether indicator definitions are precise and timely;
- Checks whether M&E indicators accurately reflect program performance;
- Updates indicator targets, as allowed by the MCC M&E Policy; and
- Adds indicators, as needed, to track hitherto unmeasured results.

The M&E Plan will be revised by MCCU in agreement with MCC M&E, when the need for change has been identified in the review. The revision and approval process will follow the guidelines outlined in the MCC M&E Policy.

M&E BUDGET

The budget for the implementation of the proposed M&E activities for the four-year term of the threshold program is US\$1,665,000 million. The M&E budget does not include the M&E staff in the MCCU Management Unit whose salaries and field trips are included in the administrative budget of the Threshold. The budget should not exceed the total amount over the period of the Threshold Program, but the distribution of funding between line items and years may be adjusted according to the results of the M&E Plan's reviews or quarterly if needed.

The independent evaluation design and analysis is to be funded directly by MCC resources for the carrying-out of evaluation surveys are allocated by MCCU from the Threshold funds.

Sierra Leone Electricity Sector Reform Project Annex I: Indicator Documentation Table

Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measurement	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
	Sector Road	lmap and Coo	rdination Activity			r	r				
Sectoral roles and responsibilities clearly defined; Develop updated electricity policy and action plan		Output	Sector Roadmap approved	Sector Roadmap approved by Sector Steering Committee members and sponsors	Date	Date	None	Minutes of Steering Committee meeting	ESRP Director	Once	
Sectoral roles and responsibilities clearly defined; Develop updated electricity policy and action plan		Output	Revised Sector Roadmap approved	Revised Sector Roadmap approved by the Government of Sierra Leone	Date	Date	None	Revised sector roadmap document	ESRP Director	Once	Ministry of Energy is using the revised Roadmap. Roadmap was revised to incorporate the new governments priorities.
increased quantity of interaction among sector stakeholders for monitoring reform process; Improved sector coordination and planning		Output	Number of Steering Committee meetings conducted	Number of Sector Steering Committee meetings held to assess sector reform process	Number	Cumulative	None	Minutes of Steering Committee meeting	ESRP Director	Quarterly	Steering Committee meetings are expected to occur monthly.
Oversight practices for generation, transmission, and distribution		Output	Training program conducted for board members of EGTC	Training done to enhance capacity of board members of EGTC	Date	Date	None	Training reports and manuals	ESRP Director	Once	EGTC and EDSA Board memebers were trained. As part of the sustainability plan for knowledge transfer, Company secretaries of the entities were trained so that they can roll out the trainings to new board members. Since the training board members have changed.
Oversight practices for generation, transmission, and districution; Board oversight of EDSA management contractor conducted efficiently		Output	Training program conducted for board members of EDSA	Training done to enhance capacity of board members of EDSA	Date	Date	None	Training reports and manuals	ESRP Director	Once	EGTC and EDSA Board memebers were trained. As part of the sustainability plan for knowledge transfer, Company secretaries of the entities were trained so that they can roll out the trainings to new board members. Since the training board members have changed.
WTP measured		Output	Willingness and Ability to Pay Study approved	Willingness and Ability to Pay Study approved by Sector Steering Committee	Date	Date	None	Minutes of Steering Committee meeting	ESRP Director	Once	This study is linked with the work that will be done under the Regulatory Strengthening Project on developing a tariff process. (This is done under the Contract for the Sector Roadmap and Coordination)
Organized tender process for power sector investments taken to market; Improved power sector investment solicitation process		Output	Power Sector Investment framework approved	Power Sector Investment framework approved by Sector Steering Committee	Date	Date	None	Minutes of Steering Committee meeting	ESRP Director	Once	
Financial sustainability plan		Output	Financial sustainability plan approved by Steering Committee	Financial sustainability plan for the sector, detailing current and future GoSL financial support to the sector, approved by Sector Steering Committee	Date	Date	None	Minutes of Steering Committee meeting	ESRP Director	Once	Should feed into the initial tariff review process and includes position on tariff levels and GoSL approach to phased reduction of support to the system.
	Activity 2 In	stitutional Ca	pacity Building Activity								
Organizational structure and operating policies and procedures for EGTC established; Training and mentoring conducted in core technical capacities; Strategy for		Output	EGTC business plan approved	EGTC business plan approved by EGTC Board and Sector Steering Committee	Date	Date	None	Minutes of Steering Committee/board meeting	EGTC- DG	Once	
Substations, generation and transmission facilities operated more efficiently	P-13	Outcome	Maintenance expenditure-asset value ratio	Actual maintenance expenditures / Total value of fixed assets	Percentage	Level	Power Plant (Kingtom, Blackhall, Bumbuna)	Annual Financial report	EGTC Financial Controller	Annually	Calculation will be conducted with inputs in Leones. The numerator is paid in Leones, and the denominator is paid in USD, but it is a one-time charge so converting the value to Leones will be simpler. Due to the volatility of the Leone exchange rate, the USD-Leone exchange rate must be reported in the Notes column each quarter. Data will come from financial statements. This will be aggregated by summing the inputs and calculating the total.
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Sierra Leone Electricity Sector Reform Project Annex I: Indicator Documentation Table

Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measurement	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Financial viability of electricity sector improved	P-24	Outcome	Operating cost-recovery ratio	Total revenue collected / Total operating cost. Total operating cost is defined as operating expenses plus depreciation.	Percentage	Level	None	Financial Report(EGTC)	EGTC Financial Controller	Annually	1. Due Diligence consultants will provide baseline. 2. EDSA (distribution utility) generates a budget, and the government will pay some of it. Government also pays on an ad hoc basis for emergencies. MCC investments are aiming to regularize this. (This was prior to the MOU between EGTC and EDSA, when EDSA payed EGTC using a pass-through method) 3. Policy reforms are needed to bring down costs and increase the tariffs. 4. There will be a new SO MW-generation facility reaching financial close at the end of this year, and should be running by 2019. 5. Revenue billed/collected is a bulk amount; disaggregate the revenue billed proportionately to the energy supplied from the power stations that service Freetown. 6. Disaggregation's were removed because Kingtom and Blackhall are now only used on an emergency basis.
Improved capacity to manage and operate substations, transmission, and generation facilities; Operational efficiency of EGTC improved	P-18	Outcome	Transmission system technical losses	1- [Total megawatt hours transmitted out from transmission substations / Total megawatt hours received from generation to transmission substations]	Percentage	Level	None	Generation Report	Head of Generation	Quarterly	There is only one transmission line from Bumbuma to Freetown substation, then to Kingtom. See the GoSL Energy Sector Strategy for maps of the transmission line as well as substations. Includes Bumbuna and Blackhall. Will eventually include Karr Power. This figure does not remove Addex, but we think it is a small amount.
Improved capacity to manage and operate substations, transmission, and generation facilities; Operational efficiency of EGTC improved	P-19	Outcome	Distribution system losses	1 – [Total megawatt hours billed / Total megawatt hours received from transmission].	Percentage	Level	None	EDSA Commercial Department Report	EDSA Distribution System Manager	Quarterly	The 11Kv substations are: Falcon Bridge, Kingtom, Congo Cross, Brookfields, Wilberforce, Goderich, Regent and Wellington (also on page 11 of the GoSL Energy Sector Strategy) Takes the entire network into consideration
Financial viability of electricity sector improved		Outcome	Collection ratio	Revenue collected/billed revenue	Ratio	Level	None	EGTC	EGTC Account Department	Quarterly	
Financial viability of electricity sector improved		Outcome	Total revenue earned by EDSA from customers	Total revenue collected by EDSA from sale of electricity to customers	US Dollars	Level	None	EDSA Commercial Department Report	EDSA	Quarterly	
Substations and generation facilities operated more efficiently		Outcome	Average kWh/liter of fuel at Kingtom Plant	Average kWh/liter of fuel used for operations at Kingtom Plant, measured as a quarterly average	Rate	Level	None	Generation Report	Head of Generation	Quarterly	Also known as heat rate. Based on heavy fuel oil (diesel only use to start the generator) Kingtom is now only running on an emergency basis so we will not have quarterly data on this.
Substations and generation facilities operated more efficiently		Outcome	Average kWh/liter of fuel at Blackhall Plant	Average kWh/liter of fuel used for operations at Blackhall Plant, measured as a quarterly average	Rate	Level	None	Generation Report	Head of Generation	Quarterly	Also known as heat rate. Based on heavy fuel oil (diesel only use to start the generator) Blackhall is now only running on an emergency basis so we will not have quarterly data on this.
Consumer census and asset valuation completed		Output	GIS-linked Consumer Census completed	GIS-linked Consumer Census completed by contractor and approved by the ESRP Director.	Date	Date	None	Consultant Report	ESRP Director	Once	
Organized tender process for generation taken to market		Outcome	Power Sector Investment solicitation process implemented	IPP solicitation process implemented by EWRC and PPP through the Roadmap process	Date	Date	None	Report of Sector Road map	EWRC and PPP	Once	Organizer of tender TBD based on Roadmap decisions

Sierra Leone Electricity Sector Reform Project Annex I: Indicator Documentation Table	

Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measurement	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Load forecast conducted		Output	Load Forecast Study approved	Load Forecast Study approved by appropriate sector actors	Date	Date	None	Consultant Report	ESRP Director	Once	
Integrated resource plan approved and implemented		Output	Integrated Resource Plan completed	Comprehensive plan that lays out a clear framework of generation, transmission and distribution with their associated cost/resources for effective implementation	Date	Date	None	Consultant Report	ESRP Director	Once	1. The Master Plan involves sector planning after the unbundling described in the roadmap. Previously, the utility was part of the government. As the government semi-privatizes the utility, they need to establish plans for coordinating the sector. The load forecast is typically handled by distribution utility, and the generation master plan is usually done by the generation/transmission utility. This is coordinated by coordination units established after the roadmap is completed.
Operational information used in EDSA planning and decision-making		Output	Financial Assessment Report of EDSA produced	Financial assessment report produced by an external firm (when EDSA management and Board approves the report)	Date	Date	None	Consultant Report	ESRP Director	Once	
Training and mentoring conducted in core technical capacities; Improved capacity to manage and operate substations, transmission, and generation facilities		Output	People trained in MCC supported capacity building activities	Number of people trained under the Sierra Leone Threshold program in core technical capacities	Number	Cumulative	(A) Female/Male (B) EGTC/EDSA/Other	Training Attendance sheets; Accounting Payment Receipts	ESRP Director; Accounting Department	Quarterly	This includes training done by external consultants.

				.eone Water Sector Reform Project k I: Indicator Documentation Table							
Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
		Process	Value of signed water and sanitation technical assistance contracts	The value of all signed technical assistance contracts, including resettlement action plans, for water and sanitation investments using Threshold Program funds.	US Dollars	Cumulative	None	мсси	WSP Director	Quarterly	
		Process	Value disbursed of water and sanitation technical assistance contracts	The amount disbursed of all signed technical assistance contracts, including resettlement action plans, for water and sanitation investments using Threshold Program funds,	US Dollars	Cumulative	None	мсси	WSP Director	Quarterly	
		Process	Percent disbursed of water and sanitation technical assistance contracts	The total amount of all signed technical assistance contracts, including resettlement action plans, for water and sanitation investments disbursed divided by the total value of all signed contracts.	Percentage	Cumulative	None	мсси	WSP Director	Quarterly	
	Sector Road	lmap and Co	ordination Activity								
Develop water sector roadmap and action plan; Improved sector coordinaton and planning		Outcome	Urban Water Sector Roadmap approved	Urban Water Sector Roadmap approved by Sector Steering Committee members and sponsors	Date	Date	None	MCCU Minutes of Steering Committee meeting	WSP Director	Once	
Increased quantity of interaction among sector stakeholders		Outcome	Number of Steering Committee meetings conducted	Number of Sector Steering Committee meetings held to assess sector reform process	Number	Cumulative	None	MCCU Minutes of Steering Committee meeting	WSP Director	Quarterly	
Improved sector coordination and planning		Outcome	Annual Sector Review completed	Number of annual progress review of activities in the water sector.	Number	Level	None	мсси	WSP Director	Annual	
	GVWC Insti	tutional Stre	ngthening Activity								
Billings and collections increased		Outcome	Total number of registered customers	Total number of registered GVWC customers	Number	Level	Customer class (Residential, Government, Commercial, and Institutions)	GWVC Customer Register	GVWC	Quarterly	GVWC has four main categories of customers. Residential, Government, Commercial, and Institutions.
Billings and collections increased		Outcome	Collection Ratio	"Cash income" divided by "Billed revenue" expressed as a percentage. (IBNET indicator 23.2)	Ratio	Level	Customer class (Residential, Government, Commercial, and Institutions)	GVWC Management Report	GVWC	Annual	The effectiveness of the collections process is measured by the amount of outstanding revenues at year end compared to the total billed revenue for the year, in day equivalents, and by the total amount collected as a percentage of the billed amount.

Days

Level

None

Audited Financial

Statements

GVWC

Annual

"Year-end accounts receivable" divided by "Total annual operating

revenues", times 365. (IBNET indicator 23.1)

Billings and collections increased

Outcome

Collection Period

Sierra Leone Water Sector Reform Project Annex I: Indicator Documentation Table

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
O&M conducted more regularly and effectively		Outcome	Maintenance Expenditure-Asset Value Ratio	Actual maintenance expenditures / total value of fixed assets	Ratio	Level	(A) System point (Treatment plant/Network/Dam/ Reservoir)	Audited Financial Statements	GVWC	Annual	Maintenance is defined using the financial/accounting definition. (Above a certain amount maintenance expenditures are classified as capital investment.) We will be able to report on this indicator once the asset valuation has been completed.
Financial viability of GVWC improved	WS-10	Outcome		Total annual operational revenues divided by total annual operating costs.	Percentage	Level	None	Audited Financial Statements	GVWC		(IBNET Indicator 24.1) (Calculation: OPC = R/C where OPC = Operation Cost Coverage, R = Total Annual Operational Revenue and C = Total Annual Operational Cost (including maintenance).
Interaction with and responsiveness to customers improved		Outcome	Time taken to resolve problems	Average time elapsed between submission of a customer service complaint and resolution of the problem. (AquaRating Indicator SQ4.9)	Hours	Level	None	Report from GVWC Commercial Department	GVWC	Quarterly	1. Targeted in the intervention.
Increased consumer awareness of and pressure for quality service from GVWC		Outcome		(Quarterly number of complaints/quarterly number of customers)*100	Percentage	Level	None	Report from GVWC Commercial Department	GVWC	Quarterly	Aquarating indicators look at the number of customers on an annual basis; this indicator is based on number of customers on a quarterly basis. The quarterly number of customers is based on the number of customers in the last month in the quarter.
Reports of petty corruption reduced (through Pay No Bribe platform)		Outcome		Number of reports of corruption in water service submitted through the Pay No Bribe platform	Number	Level	None	PNB report	GVWC	Quarterly	
Training conducted and strategy developed for improved: O&M, financial management, billing & collections, commercial policy, planning, asset inventory		Output		Number of people trained under the Sierra Leone Threshold program in core technical capacities	Number	Cumulative	Institution (Guma, Other)	Training Attendance sheets; Accounting Payment Receipts	мсси	Quarterly	
Increased consumer awareness of and pressure for quality service from GVWC; Behavior change communication and social marketing conducted on customer citizenship behaviors		Output	Number of consumer education initiatives conducted	Number of consumer education and marketing campaigns conducted by GVWC	Number	Cumulative	None	GVWC Management Report	GVWC	Quarterly	This includes customer outreach initiatives in the DMA.
Mapping of water system/customer base, condition assessment, and hydraulic model completed, including DMA identification through mapping and assessment		Output		Mapping of water system completed by contractor and approved by the WSRP Director	Date	Date	None	Mapping contractor report	WSRP Director	Once	

Sierra Leone Water Sector Reform Project Annex I: Indicator Documentation Table

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Mapping of water system/customer base, condition assessment, and hydraulic model completed, including DMA identification through mapping and assessment		Output	Condition assessment of water distribution system completed	Condition assessment of water distribution system completed by contractor and approved by the WSRP Director	Date	Date	None	Mapping contractor report	WSRP Director	Once	
Mapping of water system/customer base, condition assessment, and hydraulic model completed, including DMA identification through mapping and assessment		Output	Condition assessment of treatment plant, transmission pipes, and dam completed	Condition assessment of treatment plan, transmission pipes, and dam completed by contractor and approved by the WSRP Director	Date	Date	None	Institutional Strengthening Report	WSRP Director	Once	
Mapping of water system/customer base, condition assessment, and hydraulic model completed, including DMA identification through mapping and assessment		Output	Hydraulic modeling completed	Hydraulic modeling completed by contractor and approved by the WSRP Director	Date	Date	None	мсси	WSRP Director	Once	
Increased consumer awareness of and pressure for quality service from GVWC; Interaction with and responsiveness to customers improved		Output	Community Water Services Department established	The Community Water Services Department has 1) a clearly defined function with objectives, roles, and responsibilities, and 2) organogram and charter are developed	Date	Date	None	Institutional Strengthening Report	WSRP Director	Once	CP for second disbursement.
Increased consumer awareness of and pressure for quality service from GVWC		Output	Community Water Services Department management plan developed	Community Water Services Department annual strategic action plan with budget approved by GVWC management.	Number	Level	None	Institutional Strengthening Report	WSRP Director	Annual	
	DMA and S	tandpipe De	emonstration Activity								
Reliability and quality of water consumed by households in the DMA improved	WS-12	Outcome	Access to improved water supply	The percentage of households in the MCC project area whose main source of drinking water is a private piped connection (into dwelling or yard), public tap/standpipe, tube-well, protected dug well, protected spring or rainwater. This will be assessed in the DMA (which will be in an urban area.)	Percentage	Level	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	DMA Survey	DMA Consultant	Baseline and Endline	DMA only. Improvements in the mangement and operation of standpipes may affect access to clean drinking water.
Reliability and quality of water consumed by households in the DMA improved		Outcome	Percentage of population using safely managed drinking water services	Population using an improved drinking water source which is located on premises, available when needed and free of fecal (and priority chemical) contamination	Percentage	Level	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	DMA Survey	DMA Consultant		See Sustainable Development Goal 6.1. Sources for defining components: o Improved drinking water source – will be captured in ITT o Located on premises – will be captured from water source question o Available when needed – will need to get this from survey o Compliant with fecal (and priority chemical) standards – Fecal is in the ITT, chemical is not an issue in this context - Our data will not include fecal matter testing.
Reliability and quality of water consumed by households in the DMA improved		Outcome	Percentage of the population using a basic water source	Percentage of population using an improved water source with a total collection time of no more than 30 minutes for a roundtrip including queuing	Percentage	Level	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	DMA Survey	DMA Consultant	Baseline and Endline	

Sierra Leone Water Sector Reform Project Annex I: Indicator Documentation Table

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
NRW reduced in pilot area	WS-8	Outcome	Non revenue water	The difference between water supplied and water sold (i.e. volume of water "lost") expressed as a percentage of water supplied.	Percentage	Level	(A) DMA (Aberdeen/King Tom) (A.1) Technical losses/Commercial losses	Institutional Strengthening Report	GVWC	Annual	Tracked only within the DMA.
NRW reduced in pilot area; Improved bill payment by customers & standpipe operators		Outcome	Registered customers in the project DMA	Total number of registered customers in the project DMA	Number	Level	(A) DMA (Aberdeen/King Tom) (A.1) New connections/Legalize d customers/Other	EDAMS	GVWC	Quarterly	Tracked only within the DMA.
Reliability and quality of water supplied to households in the DMA improved		Outcome	Continuity of service	Average hours of service per week for water supply.	Hours	Level	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced Public/GVWC-	Institutional Strengthening Report	GVWC	Quarterly	Tracked only within the DMA. The ration schedule changed after the baseline was conducted. Public means standpipe
Reliability and quality of water supplied to households in the DMA improved		Outcome	Days of service per week	Average number of days per week that customers receive water.	Days	Level	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced Public/GVWC-	Institutional Strengthening Report	GVWC	Quarterly	Tracked only within the DMA.
Reliability and quality of water supplied to households in the DMA improved	WS-14	Outcome	Residential water consumption	The average water consumption in liters per person per day.	Liters per capita per day	Level	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced	DMA Survey	DMA Consultant	Baseline and Endline	Tracked only within the DMA.
Reliability and quality of water supplied to households in the DMA improved		Outcome	Water quality samples achieving fecal coliform standards	Percentage of water quality samples achieving fecal coliform standards	Percentage	Level	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced	Water Quality Report	DMA Consultant	Baseline and Endline	Tracked only within the DMA.
Reliability and quality of water supplied to households in the DMA improved		Outcome	Percentage of GVWC distribution points that meet regulatory standards for residual chlorine	Percentage of GVWC distribution points that meet regulatory standards (0.2 mg per liter) for residual chlorine	Percentage	Level	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced Public/GVWC- sourced-Private)	Water Quality Report	DMA Consultant	Baseline and Endline	 Tracked only within the DMA. From a legal perspective, GVWC is responsible for all water, even if it is privately sold. Private distribution point: GVWC-sourced; connection directly into property. Public distribution point: GVWC-sourced; standpipes (in DMA, these would be the kiosks).
Reliability and quality of water supplied to households in the DMA improved		Outcome	Time spent fetching water from home in last week	Average time spent gathering water, based on household water gathering activities performed during a one week period (one day recall). Time spent gathering water includes time spent getting to the closest water point, time queuing to wait for one's turn, time queuing to wait for one's turn, time queuing to wait for water supply, time drawing/collecting water and	Hours/Week	Level	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	DMA Survey	DMA Consultant	Baseline and Endline	
Improved bill payment by customers and standpipe operators		Outcome	Payments made from standpipe entrepreneurs to GVWC	Average payment made by standpipe entrepreneurs to GVWC on a monthly basis	U.S. Dollars	Level	(A) DMA (Aberdeen/King Tom)	Institutional Strengthening Report	GWVC	Quarterly	The average payment is per standpipe entrepreneur/manager
Improved bill payment by customers and standpipe operators		Outcome	Timeliness of payments made from standpipe entrepreneurs to GVWC	Percent of monthly payments made on or before due date by standpipe entrepreneurs to GVWC	Percentage	Level	(A) DMA (Aberdeen/King Tom)	Institutional Strengthening Report	WSRP Director	Quarterly	Total amount of payments made before the due date (based monthly billing)/total amount of the volume of water billed monthly by Guma

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classification	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Financial viability of GVWC improved		Outcome	Profits for standpipe entrepreneurs	Total earnings minus expenses	U.S. Dollars	Level	(A) DMA (Aberdeen/King Tom)	Institutional Strengthening Report	WSRP Director	Quarterly	
Customer satisfaction with water service increased		Outcome	Customer satisfaction with supply reliability	Percent of households that are satisfied with water reliability (continuity of service).	Percentage	Level	(A) DMA (Aberdeen/King Tom)	DMA Survey	DMA Consultant	Baseline and	There will be a survey for this to collect a baseline. KAP is a statistically relevant baseline and endline survey. The KAP is in the TOR for the project. This is limited to customer's perception about the quality of water. Customer perception about water quality of water will will affect their willingness to pay. It does not require chemical test of quality.
Customer satisfaction with water service increased		Outcome	Customer satisfaction with water quality	Percent of households that are satisfied with water quality.	Percentage	Level	(A) DMA (Aberdeen/King Tom)	DMA Survey	DMA Consultant	Baseline and Endline	There will be a survey for this to collect a baseline. KAP is a statistically relevant baseline and endline survey. The KAP is in the TOR for the project.
Establish District Metering Area (DMA) within GVWC system		Output	District Metering Area (DMA) established	District Metering Area (DMA) established through a process of negotiation and consensus-building with relevant stakeholders	Date	Date	None	MCCU	WSRP Director	Once	Tracked only within the DMA.
Standpipe entrepreneurs selected and financed, and standpipe pilots operational		Output	Number of kiosks for which contracts have been signed	Number of kiosks for which contracts have been signed. Male/female disaggregation relates to the number of males or females who have signed a contract to operate a kiosk	Number	Level	(A) DMA (Aberdeen/King Tom) (A.1) Sex (Male/Female)	Institutional Strengthening Report	мсси	Annually	Disaggregation by sex of owner.
Improved bill payment by customers and standpipe operators; NRW reduced in pilot areas		Output	Customer meters installed	Number of customer meters installed in the DMA's	Number	Cumulative	(A) DMA (Aberdeen/King Tom)	Guma Customer Records	GVWC	Quarterly	
Leaks detected and repaired		Output	Length of water pipes constructed	Total length in kilometers of water network pipelines that are newly constructed expanding the water distribution network, replaced or rehabilitated. This indicator should include all pipes within the transmission and distribution network. The pipes are considered "constructed" after handover to the utility by the contractor and once operational.	Kilometers	Cumulative	(A) DMA (Aberdeen/King Tom)	Consultant Reports	DMA works consultant	Quarterly	
Kiosks constructed	W-7	Output	Water points constructed	The number of non-networked, stand-alone water supply systems constructed, such as: protected dug wells, tube-wells / boreholes, protected natural springs and rainwater harvesting / catchment systems.	Number	Cumulative	(A) DMA (Aberdeen/King Tom)	Consultant Reports	DMA works consultant	Quarterly	This indicator refers to kiosks constructed.

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classificatio n	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
			al Support and Capacity	Building Activity							
		ELECTRICITY IN	DICATORS	I		l		I	I		
Training and mentoring conducted in core technical capacities (e.g. transmission O&M, generation operational management, cost of service measurement)		Output	Training program conducted for board members of EWRC	Training done to enhance capacity of board members of EWRC	Date	Date	None	Training reports and manuals	EWRC	Once	
Training and mentoring conducted in core technical capacities (e.g. transmission O&M, generation operational management, cost of service measurement)		Output	Cost-of-service study completed	Cost-of-service study completed by contractor	Date	Date	None	Consultant Report	Economic Regulator		To inform updated PPA with EDSA ahead of initial tariff submission; EWRC is Economic Regulator
Develop updated electricity policy and action plan		Output	Sector-wide financial model developed	Sector-wide financial model developed by contractor	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator
Core policies and procedures developed, including tariff setting and performance monitoring		Output	EWRC 5-year budget developed	5-year budget developed for EWRC, including proposed sources of funding, with support from contractor	Date	Date	None	Consultant Report	ESRP Director	Once	To include revenue requirements with proposed sources of funding
Core policies and procedures developed, including tariff setting and performance monitoring		Output	Consumer Services Committee established	Consumer Service Committee (CSC) established by EWRC, as mandated in the EWRC Act	Date	Date	None	Minutes of CSC Board Meeting	Head of Electricity	Once	This indicator is meant to promote stakeholder consultation on decision-making around tariffs and sector regulation
Training and mentoring conducted in core technical capacities; Improved capacity to manage and operate substations, transmission, and generation facilities		Output	People trained in MCC supported capacity building activities	Number of people trained by the Sierra Leone Threshold Program in core technical capacities	Number	Cumulative	(A) Male/Female	Training Attendance sheets; Accounting Payment Receipts	ESRP Director; Accounting Department	Quarterly	
Stakeholder engagement approach formulated		Output	Outreach events held with power sector stakeholders	Number of outreach events organized and held by EWRC with power sector stakeholders, including consumers	Number	Cumulative	None	Management Report	EWRC Communications and Outreach Officer	Quarterly	1. Based on outreach plan developed by the EWRC support consultant. 2. Proxy for awareness of EWRC because actually measuring awareness would not be cost-effective. 3. Largely for consumers. Consumers should be submitting complaints not rectified by utility to regulatory (not ministry). When PPA (Power Purchase Agreements are under review). The idea is to get them established and to get the public on their side, as an advocate for holding utilities responsible.

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Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classificatio n	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	Existing utilities in the power sector formally licensed	Existing utilities licensed according to EWRC licensing requirements	Number	Level	None	Management Report	Head of Electricity	Annually	1. All gen needs to be licensed. In theory, only large generators need to be licensed. At some point, regulator should move to formal licensing requirements. Part of EWRC Support. EDSA = Distribution EGTC = Transmission Generation = Aggrecco. Emergency power generator. + Addex (biofuel). Small, operating some sort of licensing requirement. Existing as opposed to additional, because we don't know how many and when new generators come online.
Financial viability of electricity sector improved			Power Purchase Agreements (PPAs) approved by EWRC	Number of PPAs approved by EWRC prior to signature	Number	Cumulative	None	Minutes of CSC Board Meeting	Head of Electricity	Annually	
		WATER INDICAT	TORS								
Stakeholder engagement approach formulated		Output	Outreach events held with water sector stakeholders	Number of outreach events organized and held by EWRC with water sector stakeholders, including consumers	Number	Cumulative	None	Management Report	EWRC Communications and Outreach Officer	Quarterly	Based on outreach plan developed by the EWRC support consultant
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	Existing utilities in the water sector formally licensed	GVWC and SALWACO licensed according to EWRC licensing requirements	Number	Level	None	Licensing Document	EWRC Water Department	Annually	To be licensed by regulator who MCC/MCA is standing up. Target date TBD - will be defined once the regulator has the capacity to determine this.
		Tariff Proce	ess and Performance M	onitoring Activity							
		ELECTRICITY IN									
Tariff review process established implemented		Outcome	EDSA tariff application submitted	EDSA tariff application submitted to EWRC according to Roadmap timeline	Date	Date	None	Consultant Report	Economic Regulator	Once	Target should come from roadmap. EWRC is Economic Regulator
Principles of rate-setting and technical regulation formulated		Output	Rate-case requirements developed and issued to EDSA	Rate-case requirements for tariff application/review process developed by EWRC and issued to EDSA	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator
Tariff review process established and implemented		Output	Rate-case requirements developed and issued to EGTC	Rate-case requirements developed and issued to EGTC	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator

Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classificatio n	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Tariff review process established and implemented		Outcome	Updated tariff level approved	Updated tariff level approved by EWRC	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator
Tariff review process established and implemented		Outcome	Approved tariff level following initial round of tariff review	Average retail tariff approved for EDSA following initial round of tariff review	Date	Date	None	Consultant Report	Economic Regulator	Once	Tariff methodology will lay this out. EWRC is Economic Regulator
Principles of rate-setting and technical regulation formulated		Output	Cost-reflective tariff regime	Average tariff per kilowatt-hour / Long-run marginal cost per kilowatt-hour of electricity supplied to customers.	Percentage	Level	None	EWRC	ESRP Director	Once	
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Output	KPIs and reporting requirements for EDSA and EGTC established	KPIs and reporting requirements for EDSA and EGTC established by EWRC	Date	Date	None	Consultant Report	Head of Electricity	Once	
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	EDSA reporting submitted according to reporting requirements	EDSA reporting submitted to EWRC according to reporting requirements	Number	Level	None	Management Report	Head of Electricity		Binary indicator: 1 indicates that the reporting was submitted according to reporting requirements, and 0 indicates that it was not.
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	EGTC reporting submitted according to reporting requirements	EGTC reporting submitted according to reporting requirements	Number	Level	None	Management Report	Head of Electricity	Quarterly	Binary indicator: 1 indicates that the reporting was submitted according to reporting requirements, and 0 indicates that it was not.
Tariff review process established and implemented		Outcome	Lifeline tariff developed and approved	Lifeline tariff developed and approved by EWRC	Date	Date	None	Consultant Report	ESRP Director	Once	
		WATER INDICAT	I					l			
Core policies and procedures developed, including tariff setting and performance monitoring		Output	Rate-case requirements developed and issued to regulated water sector entities	Rate-case requirements for tariff application/review process developed by EWRC and issued to regulated entities (i.e. GVWC)	Date	Date	None	Consultant Report	Economic Regulator	Once	

Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classificatio n	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information
Tariff review process developed		Outcome	Updated tariff level for water approved	Updated tariff level approved by EWRC	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator
Tariff review process developed		Outcome	Approved tariff level following initial round of tariff review for water sector	Average retail tariff approved for GVWC following initial round of tariff review	Date	Date	Date None Consultant Report Economic On Regulator		Once	EWRC is Economic Regulator	
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	KPIs and reporting requirements for GVWC established	KPIs and reporting requirements for GVWC established by EWRC	Date	Date	None	Consultant Report	Economic Regulator	Once	EWRC is Economic Regulator
Initial regulatory requirements (in addition to tariff review) implemented (e.g. licensing, tech quality standards, business plan reporting requirements)		Outcome	GVWC reporting submitted according to reporting requirements	GVWC reporting submitted to EWRC according to reporting requirements	Date	Date	None	Consultant Report	Economic Regulator	Once	Reporting requirements as defined in the previous indicator. EWRC is Economic Regulator
Tariff review process established and implemented		Outcome	GVWC tariff application submitted	GVWC tariff application submitted to EWRC according to Roadmap timeline	Date	Date	None	Report from the Institutional Strengthening Consultant	Water Sector Director	Once	
		Results Bas	sed Financing Activity			1					
RBF mechanism developed		Output	Design of RBF framework approved by MCCU	Final design report identifies KPI's and the structure of the RBF for all 4 utilities.	Date	Date	None	RBF Design Report	мсси	Once	After MCC has reviewed and provided N/O
RBF mechanism developed		Output	Verification agent contracted by MCCU	Date the verification agent contract is signed by MCCU	Date	Date	None	Verification Agent Contract	мсси	Once	Contract signed date
RBF KPIs achieved and payments made		Output	KPI's for which a payment has been disbursed per the Independent Verification Report	Number of KPI's for which a payment has been disbursed per the Independent Verification Report	Number	Level	IE (Guma, EDSA, EGTC, EWRC)	MCCU Fiscal Payment Voucher	MCCU Finance Department	Quarterly	8 - EWRC, 9 - Guma, 5 - EDSA, TBD- EGTC Baseline is not 2015 Quarterly amount includes completed KPI's from previous quarters.

	Sierra Leone Regulatory Strengthening Project Annex I: Indicator Documentation Table													
Results Statement	Common Indicator	Indicator Level	Indicator Name	Definition	Unit of Measure	Indicator Classificatio n	Disaggregation	Primary Data Source	Responsible Party	Frequency of Reporting	Additional Information			
RBF KPIs achieved and payments made			RBF incentive payment disbursed	Amount of RBF incentive payment disbursed	US dollars	Cumulative	IE (Guma, EDSA, EGTC, EWRC)	MCCU Fiscal Payment Voucher	MCCU Finance Department	Quarterly				
RBF KPIs achieved and payments made		Output	RBF disputes resolved	Number of disputes submitted and resolved through the established RBF dispute mechanism/Total number of submitted disputes submitted to EWRC	Ratio	Level	IE (Guma, EDSA, EGTC, EWRC)	EWRC Dispute Tracker	EWRC	Quarterly				

Common	Indicator	Indicator Name	Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Yea (Pen appr	ding	End of Threshold	Comment
Indicator	Level		Measure	Classification	(2015)	2016	2017	2018	2019	20	20	Target	
	Sector Roadi	map and Coordination Activity											
	Output	Sector Roadmap approved	Date	Date			31-Dec-17					31-Dec-17	
	Output	Revised Sector Roadmap approved	Date	Date				31-Dec-18				31-Dec-18	
		Number of Steering Committee meetings conducted	Number	Cumulative	0	9	21	33	45			45	
	Output	Training program conducted for board members of EGTC	Date	Date			31-Dec-17					31-Dec-17	
	Output	Training program conducted for board members of EDSA	Date	Date			31-Dec-17					31-Dec-17	
	Output	Willingness and Ability to Pay Study approved	Date	Date			31-Dec-17						This study is linked with the work that will be done under the Regulatory Strengthening Project on developing a tariff process.
	Output	Power Sector Investment framework approved	Date	Date			31-Dec-17					31-Dec-17	
		Financial sustainability plan approved by Steering Committee	Date	Date			31-Dec-17					31-Dec-17	Should feed into the initial tariff review process and includes position on tariff levels and GoSL approach to phased reduction of support to the system.
	Institutional	Capacity Building Activity			,	***************************************		***************************************					

Common	Indicator Level	Indicator Name	Unit of Measure	Indicator Classification	Baseline (2015)	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
illulcator	Level		ivieasure	Classification	(2015)	2016	2017	2018	2019	2020	Target	
	Output	EGTC business plan approved	Date	Date			31-Dec-17				31-Dec-17	
P-13	Outcome	Maintenance expenditure-asset value ratio	Percentage	Level	2.21	2.43	2.95	3.64	4.23		4.23	This takes in to account total expenditure for Kingtom, Blackhall and Bumbuna hydro plant over the sum of depreciated value of assets of these plants. Formula for depreciated value is from EWRC Head of Electricity Section. The total maintenance expenditure for the year 2015: Kingtom-3,075,852,571 Blackhall-907,804,030 Bumbuna-26,712,000,000. Using mid exchange rate for 2015 as provided by Bank of Sierra Leone (DQR report) 5,203.75 the expenditures were converted to Usd. The depreciated value of assets are Kingtom-\$13,453650, Blackhall-\$20,351,702 and Bumbuna-\$233,261,821. An assumption of a 10% increase in maintenance expenditure is anticipated over the years.
	Outcome	Maintenance expenditure-asset value ratio (Bumbuna)	Percentage	Level	2.2							This indicator is included in the values of Bumbuna hydro plant. Maintenance expenditure for this includes cost on maintenance of transmission line. Similarly the \$ 298M includes value of the transmission line. A depreciated value of \$233261821.33 was used in the calculation
	Outcome	Maintenance expenditure-asset value ratio (Kingtom)	Percentage	Level	4.39							A depreciated value of \$13453649.51 was used in this calculation
	Outcome	Maintenance expenditure-asset value ratio (Blackhall)	Percentage	Level	0.86							A depreciated value of \$20351702.53 was used in this calculation
P-24	Outcome	Operating cost-recovery ratio	Percentage	Level	79.6 (2015)	100	110	115	120		120	1. EDSA (distribution utility) generates a budget, and the government will pay some of it. Government also pays on an ad hoc basis for emergencies. MCC investments are aiming to regularize this. 2. Policy reforms are needed to bring down costs and increase the tariffs. 3. There will be a new 50 MW-generation facility reaching financial close at the end of this year, and should be running by 2019. 4 The baseline value was calculated based on the total amount received by EGTC from energy sales over annual total operating cost. If EDSA had paid EGTC all they due, it would have been 110 because of the billing system then.

Common	Indicator Level	Indicator Name	Unit of Measure	Indicator Classification	Baseline (2015)	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
ilidicatoi	Level		Wiedsuie	Classification	(2013)	2016	2017	2018	2019	2020	Target	
P-18	Outcome	Transmission system technical losses	Percentage	Level	3.02	1.75	1.38	1.09	0.86		0.86	Baseline for Transmission Technical Losses is 3.02 (FY2015) 1.75(FY 2016) based on Economic Forum DQR Report. This gives a percentage decrease of 42. Used a decreasing target of 21% to calculate the targets (half the difference between 2015 and 2016).
P-20	Outcome	Distribution system losses	Percentage	Level	38.9	38.9	36.9	28.9	26		26	This value was provided by EDSA Distribution and Commercial departments. The targets were based on anticipated reforms and technical installation and rehabilitation of distribution lines.
	Outcome	Collection ratio	Ratio	Level		Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only		Monitoring Only	
	Outcome	Revenue earned by EDSA from customers	US Dollars	Level	29,342,157	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only		Monitoring Only	The dollar value at baseline is calculated with the mid year exchange rate of 2015, \$5203075 The data is extracted from EDSA Commercial and Finance Departments.
	Outcome	Average kWh/liter of fuel at Kingtom Plant	Rate	Level	3.9832	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Also known as heat rate. Based on heavy fuel oil (diesel only used to start the generator)
	Outcome	Average kWh/liter of fuel at Blackhall Plant	Rate	Level	3.91151	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Also known as heat rate. Based on heavy fuel oil (diesel only used to start the generator)
	Output	GIS-linked Consumer Census completed	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	Power sector investment solicitation process implemented	Date	Date			31-Dec-17				31-Dec-17	Organizer of tender TBD based on Roadmap decisions
	Output	Load Forecast Study approved	Date	Date			31-Dec-17				31-Dec-17	

Common Indicator	Indicator Level	Indicator Name	Unit of Measure	Indicator Classification	Baseline (2015)	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
						2016	2017	2018	2019	2020	Target	
	Output	Integrated Resource Plan completed	Date	Date				31-Dec-18			31-Dec-18	1. The Master Plan involves sector planning after the unbundling described in the roadmap. Previously, the utility was part of the government. As the government semi-privatizes the utility, they need to establish plans for coordinating the sector. The load forecast is typically handled by distribution utility, and the generation master plan is usually done by the generation/transmission utility. This is coordinated by coordination units established after the roadmap is completed.
	Outcome	Financial Assessment Report of EDSA produced	Date	Date				31-Dec-18			31-Dec-18	
	Output	People trained in MCC supported capacity building activities	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Female)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Male)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (EGTC)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (EDSA)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Other)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	

							one Water Sect					
Common	Indicator	Ladicate Name	Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	6
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Process	Value of signed water and sanitation technical assistance contracts	US Dollars	Cumulative	0	0.00	14,900,000.00	16,000,000.00	16,000,000.00	16,000,000.00	16,000,000.00	
	Process	Value disbursed of water and sanitation technical assistance contracts	US Dollars	Cumulative	0	0.00	4,148,218.00	9,978,218.00	12,558,218.20	16,000,000.00	16,000,000.00	
	Process	Percent disbursed of water and sanitation technical assistance contracts	Percentage	Cumulative	0	0.00	27.84	62.36	78.49	100.00	100.00	
	Sector Road	map and Coordination Activity				i Karanakanan		*************				
	Output	Urban Water Sector Roadmap approved	Date	Date			31-Dec-17				31-Dec-17	
	Output	Number of Steering Committee meetings conducted	Number	Cumulative	0	4	8	12	16		16	
	Output	Annual Sector Review completed	Number	Level			1	1	1		1	
	GVWC Instit	utional Strengthening Activity										
	Outcome	Total number of registered customers	Number	Level	18,004	19,804	21,784	23,963	26,359		26,359	GVWC has four main categories of customers. Residential, Government, Commercial, and Institutions.
	Outcome	Total number of registered customers (Residential)	Number	Level	13,503							
	Outcome	Total number of registered customers (Commercial)	Number	Level	2,701							This basline currently includes institutions. Working with GVWC to extract this information.
	Outcome	Total number of registered customers, by customer type (Government)	Number	Level	1,800							
	Outcome	Total number of registered customers, by customer type (Institutions)	Number	Level	TBD							
	Outcome	Collection Ratio	Ratio	Level	0.70	0.78	0.85	0.95	1		1	Data on cash income and bill revenue were extracted from the master sheet in the Account Department of GVWC. The assumptions for these target were based on historical data over the past years and the current reforms that are taking place in GVWC

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Collection Ratio (Government)	Ratio	Level	0.85							
	Outcome	Collection Ratio (Commercial)	Ratio	Level	0.76							
	Outcome	Collection Ratio (Residential)	Ratio	Level	0.58							
	Outcome	Collection Ratio (Institutions)	Ratio	Level	0.62							
	Outcome	Collection Period	Days	Level	483	434	369	332	299		299	Data on account receivable and operating revenue were extracted from the master sheet in the Account Department of GVWC. The assumptions for these target were based on historical data over the past years and the current reforms that are taking place in GVWC
	Outcome	Maintenance Expenditure-Asset Value Ratio	Ratio	Level	0.33					1	1	1. Target comes from the SPIP
	Outcome	Maintenance Expenditure -Asset Value ratio (Treatment Plant)	Ratio	Level	0.04							
	Outcome	Maintenance Expenditure -Asset Value Ratio (Network)	Ratio	Level	1.13							
	Outcome	Maintenance Expenditure-Asset Value Ratio (Dam)	Ratio	Level	0							There is no maintenance expenditure on the dam for the baseline year 2015
	Outcome	Maintenance Expenditure-Asset Value Ratio (Reservoir)	Ratio	Level	0							There is no maintenance expenditure on the reservoir for the baseline year 2015
WS-10	Outcome	Operating cost coverage	Percentage	Level	96	100	110	115	109	121	121	(IBNET Indicator 24.1) (Calculation: OPC = R/C where OPC = Operation Cost Coverage, R = Total Annual Operational Revenue and C = Total Annual Operational Cost (including maintenance). 2. 2019 and 2020 targets come from the SPIP.
	Outcome	Time taken to resolve problems	Hours	Level	72	48	36	24	12		12	1. Targeted in the intervention.
	Outcome	Rate of customer service complaints	Percentage	Level	41	70	55	41	40		40	

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Reports of corruption through Pay No Bribe platform	Number	Level		Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Female)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Male)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	Number of consumer education initiatives conducted	Number	Cumulative	0	12	24	36	48		48	
	Output	Mapping of water system completed	Date	Date			31-Dec-17				31-Dec-17	
	Output	Condition assessment of water distribution system completed	Date	Date				31-Dec-18			31-Dec-18	
	Output	Condition assessment of treatment plan, transmission pipes, and dam completed	Date	Date				31-Dec-18			31-Dec-18	
	Output	Hydraulic modeling completed	Date	Date				31-Dec-18			31-Dec-18	
	Output	Community Water Services Department established	Date	Date				31-Dec-18			31-Dec-18	
	Output	Community Water Services Department management plan developed	Number	Level				1	1	1	1	
DMA and Sta	DMA and St	andpipe Demonstration Activity										
WS-12	Outcome	Access to improved water supply	Percentage	Level	77						Monitoring Only	DMA only. During the rainy season more people get their water from the stream. Baseline comes from the KAP.
	Outcome	Access to improved water supply (Aberdeen)	Percentage	Level	82						Monitoring Only	

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Common	Indicator	Indicator Name	Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
Indicator	Level		Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Guinion
	Outcome	Access to improved water supply (Aberdeen -Rainy season)	Percentage	Level	64						Monitoring Only	
	Outcome	Access to improved water supply (Aberdeen -Dry season)	Percentage	Level	100						Monitoring Only	
	Outcome	Access to improved water supply (King Tom)	Percentage	Level	71						Monitoring Only	
	Outcome	Access to improved water supply (King Tom -Rainy season)	Percentage	Level	44						Monitoring Only	
	Outcome	Access to improved water supply (King Tom -Dry season)	Percentage	Level	98						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services	Percentage	Level	TBD						Monitoring Only	Baseline will be based on the customer mapping survey.
	Outcome	Percentage of population using safely managed drinking water services (Aberdeen)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services (Aberdeen -Rainy season)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services (Aberdeen -Dry season)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services (King Tom)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services (King Tom -Rainy season)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of population using safely managed drinking water services (King Tom -Dry season)	Percentage	Level	TBD						Monitoring Only	
	Outcome	Percentage of the population using a basic water source	Percentage	Level	87				88.6	89.2	89.2	Baseline comes from the KAP survey. Targets were calculated using the trend in the data source as a basis. Targets were calculated based on this source: http://sierraleone.opendataforafrica.org/SLSDG2016/sustainable-development-goals-of-sierra-leone

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Percentage of the population using a basic water source (Aberdeen)	Percentage	Level	85							
	Outcome	Percentage of the population using a basic water source (Aberdeen - Rainy season)	Percentage	Level	82							
	Outcome	Percentage of the population using a basic water source (Aberdeen - Dry Season)	Percentage	Level	87							
	Outcome	Percentage of the population using a basic water source (King Tom)	Percentage	Level	89							
	Outcome	Percentage of the population using a basic water source (King Tom - Rainy season)	Percentage	Level	90							
	Outcome	Percentage of the population using a basic water source (King Tom - Dry Season)	Percentage	Level	88							
WS-8	Outcome	Non revenue water	Percentage	Level	TBD					TBD	TBD	Tracked only within the DMA. Data will not be available until the works start.
	Outcome	Non revenue water (Aberdeen)	Percentage	Level	TBD						TBD	
	Outcome	Non revenue water (Aberdeen - Technical Losses)	Percentage	Level	TBD						TBD	
	Outcome	Non revenue water (Aberdeen - Commercial Losses)	Percentage	Level	TBD						TBD	
	Outcome	Non revenue water (King Tom)	Percentage	Level	TBD						TBD	
	Outcome	Non revenue water (King Tom - Technical Losses)	Percentage	Level	TBD						TBD	
	Outcome	Non revenue water (King Tom - Commercial Losses)	Percentage	Level	TBD						TBD	

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Registered customers in the project DMA	Number	Level	TBD						Monitoring Only	Tracked only within the DMA. Baseline will be available once customer mapping is complete.
	Outcome	Registered customers in the project DMA (Aberdeen)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (Aberdeen - New connections)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (Aberdeen - Legalized)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (Aberdeen - Other)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (King Tom)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (King Tom - New connections)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (King Tom - Legalized)	Number	Level	TBD						Monitoring Only	
	Outcome	Registered customers in the project DMA (King Tom - Other)	Number	Level	TBD						Monitoring Only	
	Outcome	Continuity of service	Hours	Level	70.4						TBD	Tracked only within the DMA.
	Outcome	Continuity of service (Aberdeen)	Hours	Level	76						TBD	
	Outcome	Continuity of service (Aberdeen - GVWC sourced- Public)	Hours	Level	73.5						TBD	
	Outcome	Continuity of service (Aberdeen - GVWC sourced - Public - Rainy season)	Hours	Level	97						TBD	

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Continuity of service (Aberdeen - GVWC sourced - Public - Dry season)	Hours	Level	50						TBD	
	Outcome	Continuity of service (Aberdeen - GVWC sourced - Private)	Hours	Level	78.5						TBD	
	Outcome	Continuity of service (Aberdeen - GVWC sourced - Private - Rainy season)	Hours	Level	85						TBD	
	Outcome	Continuity of service (Aberdeen - GVWC sourced - Private - Dry season)	Hours	Level	72						TBD	This one doesn't match DMA spreadsheet. 50
	Outcome	Continuity of service (King Tom)	Hours	Level	64.8						TBD	
	Outcome	Continuity of service (King Tom - GVWC sourced- Public)	Hours	Level	65.5						TBD	
	Outcome	Continuity of service (King Tom - GVWC sourced - Public - Rainy season)	Hours	Level	92						TBD	
	Outcome	Continuity of service - King Tom (GVWC sourced - Public - Dry season)	Hours	Level	39						TBD	
	Outcome	Continuity of service (King Tom - GVWC sourced - Private)	Hours	Level	64						TBD	
	Outcome	Continuity of service (King Tom - GVWC sourced - Private - Rainy season)	Hours	Level	73						TBD	
	Outcome	Continuity of service (King Tom - GVWC sourced - Private - Dry season)	Hours	Level	55						TBD	
	Outcome	Days of service per week	Days	Level	4.6						TBD	Tracked only within the DMA.
	Outcome	Days of service per week (Aberdeen)	Days	Level	4.8						TBD	

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Days per week of service (Aberdeen - GVWC sourced- Public)	Days	Level	5						TBD	
	Outcome	Days per week of service (Aberdeen - GVWC sourced - Public - Rainy season)	Days	Level	5						TBD	
	Outcome	Days per week of service (Aberdeen - GVWC sourced - Public - Dry season)	Days	Level	5						TBD	
	Outcome	Days per week of service (Aberdeen - GVWC sourced- Private)	Days	Level	4.5						TBD	
	Outcome	Days per week of service (Aberdeen -GVWC sourced- Private - Rainy season)	Days	Level	5						TBD	
	Outcome	Days per week of service)Aberdeen - GVWC sourced-Private - Dry Season)	Days	Level	4						TBD	
	Outcome	Days of service per week (King Tom)	Days	Level	4.5						TBD	
	Outcome	Days per week of service (King Tom - GVWC sourced- Public)	Days	Level	4.5						TBD	
	Outcome	Days per week of service (King Tom -GVWC sourced - Public - Rainy season)	Days	Level	5						TBD	
	Outcome	Days per week of service (King Tom - GVWC sourced - Public - Dry season)	Days	Level	4						TBD	
	Outcome	Days per week of service (King Tom - GVWC sourced- Private)	Days	Level	4.5						TBD	
	Outcome	Days per week of service (King Tom - GVWC sourced-Private - Rainy season)	Days	Level	4						TBD	
	Outcome	Days per week of service (King Tom - GVWC sourced-Private - Dry Season)	Days	Level	5						TBD	

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					5 "	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)		
Common Indicator	Indicator Level	Indicator Name	Unit of Measure	Indicator Classification	Baseline (2015)	2016	2017	2018	2019	2020	End of Threshold Target	Comment
WS-13	Outcome	Residential water consumption	Liters per capita per day	Level	TBD						TBD	Tracked only within the DMA. Baseline data for this indicator will be captured by the survey for the meter installation planned for 2019.
	Outcome	Residential water consumption (Aberdeen)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Residential water consumption (Aberdeen -GVWC sourced-Public)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Residential water consumption (Aberdeen -GVWC sourced-Private)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Residential water consumption (King Tom)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Residential water consumption (King Tom -GVWC sourced-Public)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Residential water consumption (King Tom -GVWC sourced-Private)	Liters per capita per day	Level	TBD						TBD	
	Outcome	Water quality samples achieving fecal coliform standards	Percentage	Level	TBD						50	Tracked only within the DMA. Target comes from the SPIP - KRA 1.3
	Outcome	Water quality samples achieving fecal coliform standards (Aberdeen)	Percentage	Level	TBD							
	Outcome	Water quality samples achieving fecal coliform standards (Aberdeen -GVWC sourced-Public)	Percentage	Level	TBD							
	Outcome	Water quality samples achieving fecal coliform standards (Aberdeen -GVWC sourced-Private)	Percentage	Level	TBD							
	Outcome	Water quality samples achieving fecal coliform standards (King Tom)	Percentage	Level	TBD							1. Tracked only within the DMA. 2. Target comes from the SPIP - KRA 1.4
	Outcome	Water quality samples achieving fecal coliform standards (King Tom -GVWC sourced-Public)	Percentage	Level	TBD							

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Water quality samples achieving fecal coliform standards (King Tom -GVWC sourced-Private)	Percentage	Level	TBD							
	Outcome	Percentage of GVWC distribution points that meet regulatory standards for residual chlorine	Percentage	Level	TBD						50	Tracked only within the DMA. From a legal perspective, GVWC is responsible for all water, even if it is privately sold. Private distribution point: GVWC-sourced; connection directly into
	Outcome	Percentage of GVWC distribution points that meet regulatory standards for residual chlorine (Aberdeen)	Percentage	Level	TBD							
	Outcome	Percentage of water samples that meet standards for residual chlorine (Aberdeen -GVWC sourced-Public)	Percentage	Level	TBD							
	Outcome	Percentage of water samples that meet standards for residual chlorine (Aberdeen -GVWC sourced-Private)	Percentage	Level	TBD							
	Outcome	Percentage of GVWC distribution points that meet regulatory standards for residual chlorine (King Tom)	Percentage	Level	TBD							Tracked only within the DMA. From a legal perspective, GVWC is responsible for all water, even if it is privately sold. Private distribution point: GVWC-sourced; connection directly into property.
	Outcome	Percentage of water samples that meet standards for residual chlorine (King Tom -GVWC sourced-Public)	Percentage	Level	TBD							
	Outcome	Percentage of water samples that meet standards for residual chlorine (King Tom -GVWC sourced-Private)	Percentage	Level	TBD							
	Outcome	Time spent fetching water from home in last week	Hours/Week	Level	2.4					1	1	Baseline comes from the KAP survey.
	Outcome	Time spent fetching water from home in last week (Aberdeen)	Hours/Week	Level	2.8					1	1	
	Outcome	Time spent fetching water from home in last week (Aberdeen - Rainy season)	Hours/Week	Level	2					1	1	
	Outcome	Time spent fetching water from home in last week (Aberdeen - Dry season)	Hours/Week	Level	3.5					1	1	
	Outcome	Time spent fetching water from home in last week (King Tom)	Hours/Week	Level	2					1	1	

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Time spent fetching water from home in last week (King Tom - Rainy season)	Hours/Week	Level	1					1	1	
	Outcome	Time spent fetching water from home in last week (King Tom - Dry season)	Hours/Week	Level	3					1	1	This did not match Thekeka's spreadsheet
	Outcome	Payments made from standpipe entrepreneurs to GVWC	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Payments made from standpipe entrepreneurs to GVWC (Aberdeen)	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Payments made from standpipe entrepreneurs to GVWC (King Tom)	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Timeliness of payments made from standpipe entrepreneurs to GVWC	Percentage	Level	N/A						Monitoring Only	Total amount of payments made before the due date (based monthly billing)/total amount of the volume of water billed monthly by Guma
	Outcome	Timeliness of payments made from standpipe entrepreneurs to GVWC (Aberdeen)	Percentage	Level							Monitoring Only	
	Outcome	Timeliness of payments made from standpipe entrepreneurs to GVWC (King Tom)	Percentage	Level							Monitoring Only	
	Outcome	Profits for standpipe entrepreneurs	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Profits for standpipe entrepreneurs (Aberdeen)	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Profits for standpipe entrepreneurs (King Tom)	U.S. Dollars	Level	0						Monitoring Only	
	Outcome	Customer satisfaction with supply reliability	Percentage	Level	19.8					35	35	1. SPIP KAR 1.14
	Outcome	Customer satisfaction with supply reliability (Aberdeen)	Percentage	Level	20.7							

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Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Outcome	Customer satisfaction with supply reliability (King Tom)	Percentage	Level	18.8							
	Outcome	Customer satisfaction with water quality	Percentage	Level	25					35	35	There will be a survey for this to collect a baseline. KAP is a statistically relevant baseline and endline survey. The KAP is in the TOR for the project.
	Outcome	Customer satisfaction with water quality (Aberdeen)	Percentage	Level	24							
	Outcome	Customer satisfaction with water quality (King Tom)	Percentage	Level	26							
	Output	District Metering Area (DMA) established	Date	Date			31-Dec-17				31-Dec-17	Tracked only within the DMA.
	Output	Number of kiosks for which contracts have been signed	Number	Cumulative	0					11	11	4 in Aberdeen, 7 in King Tom (based on the detailed drawings from the bidding documents) Tender drawings page 2 and 3
	Output	Number of kiosks for which contracts have been signed (Aberdeen)	Number	Cumulative	0					4	4	
	Output	Number of kiosks for which contracts have been signed (Aberdeen - Female)	Number	Cumulative	0							
	Output	Number of kiosks for which contracts have been signed (Aberdeen - Male)	Number	Cumulative	0							
	Output	Number of kiosks for which contracts have been signed (King Tom)	Number	Cumulative	0					7	7	
	Output	Number of kiosks for which contracts have been signed (King Tom - Female)	Number	Cumulative	0							
	Output	Number of kiosks for which contracts have been signed (King Tom - Male)	Number	Cumulative	0							
	Output	Customer meters installed	Number	Cumulative	0						TBD	Target will come from the metering survey.

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								elines and Targe		Year 5		
Common	Indicator		Unit of	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	(Pending approval)	End of Threshold	
Indicator	Level	Indicator Name	Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Output	Customer meters installed (Aberdeen)	Number	Cumulative	0						TBD	Target will come from the metering survey.
	Output	Customer meters installed (King Tom)	Number	Cumulative	0						TBD	Target will come from the metering survey.
	Output	Length of water pipes constructed	Number	Cumulative	0						2.87	
	Output	Length of water pipes constructed (Aberdeen)	Number	Cumulative	0						1.99	
	Output	Length of water pipes constructed (King Tom)	Number	Cumulative	0						0.89	
W-7	Output	Water points constructed	Number	Cumulative	0					11		4 in Aberdeen, 7 in King Tom (based on the detailed drawings from the bidding documents) Tender drawings page 2 and 3
	Output	Water points constructed (Aberdeen)	Number	Cumulative	0					4	4	
	Output	Water points constructed (King Tom)	Number	Cumulative	0					7	7	

					<u>.</u>		Regulatory St Indicator Base					
Common	Indicator Level	Indicator Name	Unit of Measure	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
Indicator	indicator Level	indicator Name	Onit of Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
		Support and Capacity Building Activity										
	ELECTRICITY INDIC	ATORS I										
	Output	Training program conducted for board members of EWRC	Date	Date			31-Dec-17				31-Dec-17	
	Output	Cost-of-service study completed	Date	Date			31-Dec-17				31-Dec-17	To inform updated PPA with EDSA ahead of initial tariff submission; accounts for all sources
	Output	Sector-wide financial model developed	Date	Date			31-Oct-17				31-Oct-17	
	Output	EWRC 5-year budget developed	Date	Date			31-Dec-17				31-Dec-17	To include revenue requirements with proposed sources of funding
	Output	Consumer Services Committee established	Date	Date			31-Dec-17					This indicator is meant to promote stakeholder consultation on decision- making around tariffs and sector regulation
	Output	People trained in MCC supported capacity building activities	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Female)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	
	Output	People trained in MCC supported capacity building activities (Male)	Number	Cumulative	0	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	Monitoring Only	

					S	ierra Leone	Regulatory St	trengthening	Project			
						Annex II:	Indicator Base	elines and Ta	rgets			
Common	Indicator Level	Indicator Name	Unit of Measure	Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	Comment
Indicator				Classification	(2015)	2016	2017	2018	2019	2020	Target	
												Based on outreach plan developed by the EWRC support consultant. Proxy for awareness of EWRC because actually measuring awareness would not be cost-effective. Largely for consumers. Consumers should be submitting complaints not rectified by utility to regulatory (not ministry). When PPA (Power Purchase
	Output	Outreach events held with power sector stakeholders	Number	Cumulative	4	12	24	48	60		60	Agreements are under review). The idea is to get them established and to get the public on their side, as an advocate for holding utilities responsible. 4. These targets were revised to reflect cumulative reporting and with expectations of effective community and customer engagement in the DMA's
	Outcome	Existing utilities in the power sector formally licensed	Number	Level	3	3	3	3	3		3	1. All gen needs to be licensed. In theory, only large generators need to be licensed. At some point, regulator should move to formal licensing requirements. Part of EWRC Support. EDSA = Distribution EGTC = Transmission Generation = Aggrecco. Emergency power generator. + Addex (biofuel). Small, operating some sort of licensing requirement. Existing as opposed to additional, because we don't know how many and when new generators come online.
	Outcome	Power Purchase Agreements (PPAs) approved by EWRC	Number	Cumulative	0	3	4	5	6		6	
	WATER INDICATO	RS										
	Output	Outreach events held with water sector stakeholders	Number	Cumulative	4	16	28	32	36		36	Based on outreach plan developed by the EWRC support consultant
	Outcome	Existing utilities in the water sector formally licensed	Number	Level	0			2			2	To be licensed by regulator who MCC/MCA is standing up. Target date TBD - will be defined once the regulator has the capacity to determine this.
		s and Performance Monitoring Activity										
	ELECTRICITY INDIC	ATORS										Togget should some from readmen
	Outcome	EDSA tariff application submitted	Date	Date				31-Dec-18			31-Dec-18	Target should come from roadmap.
	Output	Rate-case requirements developed and issued to EDSA	Date	Date			31-Dec-17				31-Dec-17	

	Sierra Leone Regulatory Strengthening Project											
						Annex II:	Indicator Base	elines and Ta	argets			
Common				Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Indicator Level	Indicator Name	Unit of Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Output	Rate-case requirements developed and issued to EGTC	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	Updated tariff level approved	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	Approved tariff level following initial round of tariff review	Date	Date				31-Dec-18			31-Dec-18	Tariff methodology will lay this out.
	Output	Cost-reflective tariff regime	Percentage	Level					100	100	100	
	Output	KPIs and reporting requirements for EDSA and EGTC established	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	EDSA reporting submitted according to reporting requirements	Number	Level				1	1	1	1	
	Outcome	EGTC reporting submitted according to reporting requirements	Number	Level				1	1	1	1	EWRC is to set compliance standards which the entities are required to follow to maintain service delivery performance. The reports will be based on those requirements.
	Outcome	Tariff design efficiency that includes a lifeline tariff developed	Date	Date				31-Mar-18			31-Mar-18	
	Output	Rate-case requirements developed and issued to regulated water sector entities	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	Updated tariff level for water approved	Date	Date			31-Dec-17				31-Dec-17	

					S		Regulatory St Indicator Base					
						Year 1	Year 2	Year 3	Year 4	Year 5 (Pending		
Common Indicator	Indicator Level	Indicator Name	Unit of Measure	Indicator Classification	Baseline (2015)	2016	2017	2018	2019	approval) 2020	End of Threshold Target	Comment
						2016	2017	2018	2019	2020		
		Approved tariff level following initial round of tariff										
	Outcome	review for water sector	Date	Date				31-Dec-18			31-Dec-18	
								\$				
	Outcome	KPIs and reporting requirements for GVWC established	Date	Date			31-Dec-17				31-Dec-17	
		CVAVC vanauting authorithed according to vanauting										Reporting requirements as defined in the previous indicator.
	Outcome	GVWC reporting submitted according to reporting requirements	Date	Date			31-Dec-17				31-Dec-17	
	Outcome	GVWC tariff application submitted	Date	Date			31-Dec-17				31-Dec-17	
	Tariff Proces	s and Performance Monitoring Activity						ı				
			Date Date									
	Output	Design of RBF framework approved by MCCU		Date				30-Dec-18			30-Dec-18	
	Output	Verification agent contracted by MCCU	Date	Date					31-May-19		31-May-19	
		WDU for which a grown at head head dish was dish										
	Output	KPI's for which a payment has been disbursed per the Independent Verification Report	Number	Level							TBD	
	Output	KPI's for which a payment has been disbursed per the Independent Verification Report (Guma)	Number	Level							9	
	Output KPI's for which a payment has been disbursed per the Independent Verification Report (EDSA)											
		Number	Level							5		
		KPI's for which a payment has been disbursed per the Independent Verification Report (EGTC)	Number	Level							TBD	
		macpendent vermention report (Earle)										
	1	ı						}		[1

	Sierra Leone Regulatory Strengthening Project											
						Annex II:	Indicator Base	elines and	l Targets			
Common				Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Indicator Level	Indicator Name	Unit of Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Output	KPI's for which a payment has been disbursed per the Independent Verification Report (EWRC)	Number	Level							8	
	Output	RBF incentive payment disbursed	US Dollars	Cumulative						5,000,000	5,000,000	
	Output	RBF incentive payment disbursed (Guma)	US Dollars	Cumulative							TBD	
	Output	RBF incentive payment disbursed (EDSA)	US Dollars	Cumulative							TBD	
	Output	RBF incentive payment disbursed (EGTC)	US Dollars	Cumulative							TBD	
	Output	RBF incentive payment disbursed (EWRC)	US Dollars	Cumulative							TBD	
	Output	RBF disputes resolved	Ratio	Level							1	
	Output	RBF disputes resolved (Guma)	Ratio	Level							1	
	Output	RBF disputes resolved (EDSA)	Ratio	Level							1	
	Output	RBF disputes resolved (EGTC)	Ratio	Level							1	

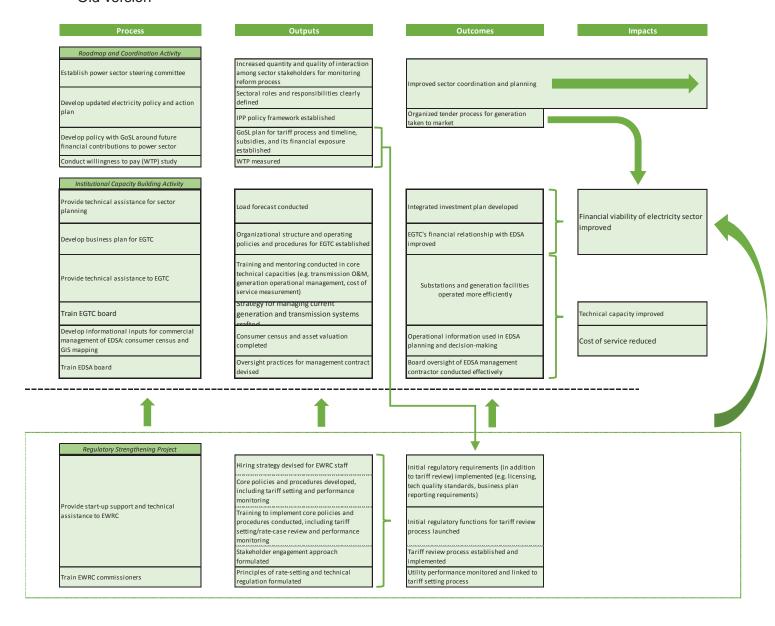
	Sierra Leone Regulatory Strengthening Project Annex II: Indicator Baselines and Targets											
Common				Indicator	Baseline	Year 1	Year 2	Year 3	Year 4	Year 5 (Pending approval)	End of Threshold	
Indicator	Indicator Level	Indicator Name	Unit of Measure	Classification	(2015)	2016	2017	2018	2019	2020	Target	Comment
	Output	RBF disputes resolved (EWRC)	Ratio	Level							1	

ANNEX III: MODIFICATIONS TO INDICATORS, BASELINES, AND TARGETS

June 2019

Updated Program Logic (ESRP):

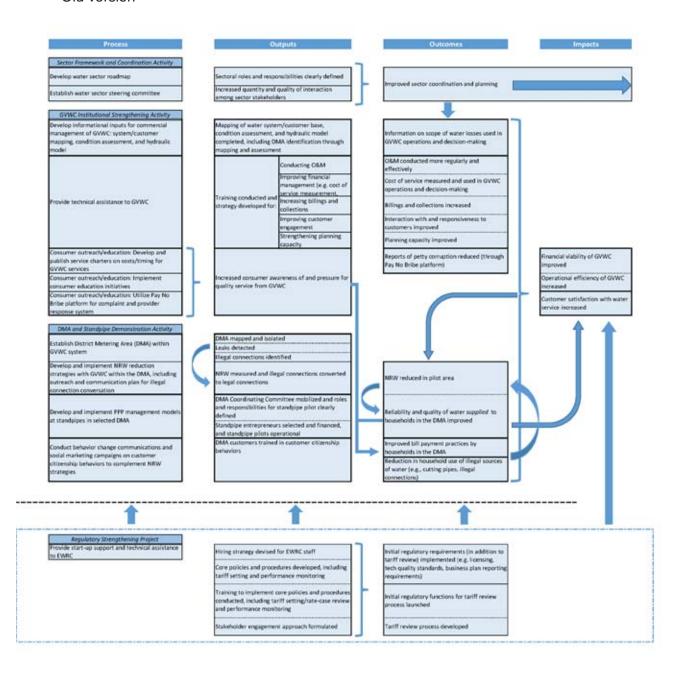
Revised version – pg. 11 Old version -



Program Logic (WSRP):

Revised version – pg. 16

Old version -



Note on Year 5 targets in Annex II: These targets are pending based on the approval of the Threshold extension. These targets will not be included in the ITT until there is formal approval of the extension.

ELECTRICITY SECTOR REFORM PROJECT INDICATORS

Revised Secto	Revised Sector Roadmap approved					
Project:	Electricity Sector Reform					
Activity:	Sector Roadmap and 0	Sector Roadmap and Coordination Activity				
Sub-Activity:	N/A	N/A				
	Change Description:	New indicator				
	Justification:					
June-19	Justification Description:	Roadmap was revised based on the new government's priorities, so a new indicator was necessary as the original and revised Roadmaps are different.				

Training progi	Training program conducted for board members EWRC					
Project:	Electricity Sector Reform					
Activity:	Sector Roadmap and O	Sector Roadmap and Coordination Activity				
Sub-Activity:	N/A					
	Change Description:	Move to Regulatory Strengthening Project				
June-19	Justification:					
June-19	Justification	EWRC is a regulator.				
	Description:	EVVIC IS a regulator.				

IPP framewor	k approved						
Project:	Electricity Sector Reform						
Activity:	Sector Roadmap and Coordination Activity						
Sub-Activity:	N/A						
	Change Description:	Name Modification					
		Previous	Revised				
June-19	Change:	IPP framework approved	Power Sector Investment framework approved				
	Justification Description:	Clarification					
	Change Description:	Definition Modification					
		Previous	Revised				
June-19	Change:	IPP framework approved by Sector Steering Committee	Power Sector Investment framework approved by Sector Steering Committee				
	Justification Description:	Clarification					

Operating cost-recovery ratio						
Project:	Electricity Sector Refo	rm				
Activity:	Institutional Capacity	Building Activity				
Sub-Activity:	N/A					
	Change Description:	Disaggregation Modification	١			
June-19	Changa	Previous	Revised			
	Change:	Kingtom, Blackhall, Bumbuna	None			
	Justification Description:	It is not possible to disaggre	gate this indicator.			

Operating cos	t-billed ratio	
Project:	Electricity Sector Refo	rm
Activity:	Institutional Capacity	Building Activity
Sub-Activity:	N/A	
	Change Description:	Retire Indicator
	Justification:	Indicator quality is determined poorer than initially
June-19	Justinication.	thought when included in plan
Julie-19	Justification	Collection ratio is being included as a replacement –
	Description:	which is a better measurement of what is billed and
	Description.	collected.

Total revenue	Total revenue from energy sales					
Project:	Electricity Sector Refo	rm				
Activity:	Institutional Capacity	Building Activity				
Sub-Activity:	N/A	N/A				
	Change Description:	Retire Indicator				
	Justification:	Indicator has been added which is superior in measuring				
June-19	Justilication.	same variable				
Julie-19	Justification	We think it is more useful to have collection ratio as an				
	Description:	indicator than this indicator.				

Average kWh/liter of fuel at Kingtom Plant		
Project:	Electricity Sector Reform	
Activity:	Institutional Capacity Building Activity	
Sub-Activity:	o-Activity: N/A	

	Change Description:	Target Modification			
June-19		Year 1	Year 2	Year 3	End of Threshold
	Revised Targets	4.1	4.2	4.3	4.3
	Previous Targets	Monitoring Only	Monitori ng Only	Monitoring Only	Monitoring Only
	Justification Description:	These plants are now only being used on an emergency basis so a target is irrelevant.			

Average kWh/liter of fuel at Blackhall Plant					
Project:	Electricity Sector Reform				
Activity:	Institutional Capacity Building Activity				
Sub-Activity:	N/A				
	Change Description:	Target Modification			
		Year 1 Year 2	Voor 2	Year 3	End of
			Teal 2		Threshold
June-19	Revised Targets	4.1	4.2	4.3	4.3
	Previous Targets	Monitoring	Monitori	Monitoring	Monitoring
		Only	ng Only	Only	Only
	Justification	These plants are now only being used on an emergency			
	Description:	basis so a target is irrelevant.			

Maintenance plan developed			
Project:	Electricity Sector Reform		
Activity:	Sector Roadmap and Coordination Activity		
Sub-Activity:	N/A		
June-19	Change Description:	Retire Indicator	
	Justification:	Irrelevant due to change in Program, Project or Activity scope	
	Justification	EGTC already has a maintenance plan they are following	
	Description:	and no need to develop another.	

IPP solicitation process implemented		
Project:	Electricity Sector Reform	
Activity:	Institutional Capacity Building Activity	
Sub-Activity: N/A		

	Change Description:	Definition Modification		
June-19		Previous	Revised	
	Change:	IPP solicitation process implemented by an entity TBD through Roadmap process and approved by the ESRP Director.	IPP solicitation process implemented by EWRC and PPP through the Roadmap process.	
	Justification Description:	EWRC and PPP are responsible for this, not the ESRP Director.		
	Change Description:	Responsible Party Modification		
June-19	Change:	Previous	Revised	
Julie-19		ESRP Director	EWRC and PPP	
	Justification	EWRC and PPP are responsible for this, not the ESRP		
	Description:	Director.		
	Change Description:	Name Modification		
	Change:	Previous	Revised	
June-19		IPP solicitation process implemented	Power Sector Investment	
			solicitation process	
			implemented	
	Justification	EWRC and PPP are responsible for this, not the ESRP		
	Description:	Director.		

Network expansion plan completed			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity Building Activity		
Sub-Activity:	N/A		
	Change Description:	Retire Indicator	
June-19	Justification:		
	Justification	This indicator is covered under the Integrated Resource	
	Description:	Plan.	

Least-cost generation plan completed			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity Building Activity		
Sub-Activity:	N/A		
June-19	Change Description:	Retire Indicator	

Justification:	
Justification	This indicator is covered under the Integrated Resource
Description:	Plan.

Integrated Resource Plan completed			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity	Building Activity	
Sub-Activity:	N/A		
	Change Description:	Definition Modification	
		Previous	Revised
June-19	Change: Integrated Resource P completed and approx	Integrated Resource Plan completed and approved by the ESRP Director	Comprehensive plan that lays out a clear framework of generation, transmission and distribution with their associated cost/resources for effective implementation
	Justification Description:	Clarifying what is included in the completion of the Integrated Resource Plan.	

Annual Financial Audit Report of EDSA produced			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity	Building Activity	
Sub-Activity:	N/A		
	Change Description:	Definition Modification	
		Previous	Revised
June-19	Change: Justification	Financial audit report produced by an external audit firm (when EDSA management and Board approves the report)	Financial assessment report produced by an external firm (when EDSA management and Board approves the report)
	Description: Change Description:	It is an assessment rather than an audit. Name Modification	
	Change Description.	Previous Revised	
luna 10	Change		
June-19	Change:	Annual Financial Audit Financial Assessme Report of EDSA produced Report of EDSA produce	

Justification	It is an assessment rather than an audit. It is also not an
	annual process, rather a onetime report.
·	

Collection Ratio			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity Building Activity		
Sub-Activity:	N/A		
	Change Description:	New Indicator	
IIne-19 Iistification		Existing indicators do not sufficiently meet adequacy criteria. Replacing Total revenue from energy sales indicator.	

People trained in MCC supported capacity building activities			
Project:	Electricity Sector Reform		
Activity:	Institutional Capacity Building Activity		
Sub-Activity:	N/A		
	Change Description:	Change Description: New Indicator	
June-19	Justification Existing indicators do not sufficiently meet adequate		
Description: criteria.			

WATER SECTOR REFORM PROJECT INDICATORS

Total number	of registered customers			
Project:	Water Sector Reform			
Activity:	GVWC Institutiona	al Strengthening Activity		
Sub-Activity:	N/A			
	Change Description:	Classification Modification		
	Changa	Previous	Revised	
June-19	Change:	Cumulative	Level	
Julie-19	Justification	The value of this indicator will fluctuate.		
	Description:	The value of this indicator will i	uctuate.	
	Change	Disaggregation Modification		
	Description:	Disaggregation Modification		
		Previous	Revised	
June-19	Change:	Customer class (Domestic,	Customer Class	
		Commercial, Government)	(Residential, Government,	

,	
	Commercial, ar
	Institutions)
Justification	Updating customer classes to match how GVWC classific
Description:	them.

Collection Ratio			
Project:	Water Sector Reform		
Activity:	GVWC Institution	al Strengthening Activity	
Sub-Activity:	N/A		
	Change Description:	Disaggregation Modification	
		Previous	Revised
June-19	Change:	Customer class (Domestic, Commercial, Government)	Customer Class (Residential, Government, Commercial, and Institutions)
	Justification	Updating customer classes to r	match how GVWC classifies
	Description:	them.	
	Change Description:	Baseline Modification	
	Chango	Previous	Revised
June-19	Change:	.73	.70
Julie-19	Justification	Updated customer classes	which requires updated
	Description:	baselines.	

Cost-of-service study completed			
Project:	Water Sector Reform		
Activity:	GVWC Institutional Strengthening Activity		
Sub-Activity:	N/A		
Change Description: Retire In		Retire Indicator	
June-19	Justification	No longer doing this Unable to get the necessary data	
	Description:	No longer doing this. Unable to get the necessary data	

Number of consumer education initiatives conducted				
Project:	Water Sector Reform			
Activity:	GVWC Institutional Strengthening Activity			
Sub-Activity:	N/A			
	Change Description: Baseline Modification			
June-19	Change: Previous Revised			

		2	0
	Justification	We want to know the number done under the Th	
Description: program, so the bassline should be		ould be 0.	

Community Water Services Department operational				
Project:	Water Sector Reform			
Activity:	GVWC Institutional Strengthening Activity			
Sub-Activity:	N/A			
	Change Description: Name Modification			
	Change:	Previous	Revised	
		Community Water Services	Community Water Services	
June-19		Department operational	Department established	
Julie-13	Justification Description:	Difficult to define operational so we are changing to established.		

Community Water Services Department management plan developed				
Project:	Water Sector Reform			
Activity:	GVWC Institutional Str	engthening Activity		
Sub-Activity:	N/A			
	Change Description:	Definition modification		
		Previous	Revised	
		Community Water Services	Community Water Services	
	Change:	Department strategic	Department annual	
	Change:	action plan with budget	strategic action plan with	
June-19		approved by GVWC	budget approved by GVWC	
		management.	management.	
	Justification Description:	Clarifying that this is an annual action plan and budget.		
	Change Description:	Frequency of Reporting Mod	dification	
	Change	Previous	Revised	
	Change:	Once	Annual	
June-19	Justification Description:	This is an annual process, not a onetime thing.		
	Change Description:	n: Classification Modification		
June-19	Change:	Previous	Revised	
Julie-13	Change:	Date	Level	

	Justification Description:	This is an annual process, not a onetime thing.	
	Change Description:	Unit Modification	
June-19	Change:	Previous	Revised
		Date	Level
	Justification Description:	This is an annual process, not a onetime thing.	

People trained in MCC supported capacity building activities				
Project:	Water Sector Reform			
Activity:	GVWC Institutional Strengthening Activity			
Sub-Activity:	N/A			
	Change Description:	New Indicator		
June-19	Justification	Existing indicators do not sufficiently meet adequacy		
	Description:	criteria		

Access to improved water supply				
Project:	Water Sector Reform			
Activity:	DMA and Standpi	pe Demonstration Activity		
Sub-Activity:	N/A			
	Change Description:	Disaggregation Modification		
		Previous	Revised	
June-19	Change:	None	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	
	Justification Description:	Adding relevant disaggregation's		
	Change Description:	Baseline Modification		
		Previous	Revised	
June-19	Change:	TBD	77	
	Justification Description:	Updated from TBD		
	Change Description:	Target Modification		
June-19	Change:	Previous	Revised	

	TBD	Monitoring Only
Justification Description:	Updated from TBD	

Darrantana	of nonulation using safety managed drinking water convices				
	f population using safely managed drinking water services				
Project:	Water Sector Reform				
Activity:	DMA and Standpi	pe Demonstration Activity			
Sub-Activity:	N/A				
	Change Description:	Disaggregation Modification			
		Previous	Revised		
June-19	Change:	(A) Season (Rainy/dry)	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)		
	Justification Description:	Disaggregating by DMA			
	Change Target Modification				
June-19		Previous	Revised		
	Change:	TBD	Monitoring Only		
	Justification Description:	Updated from TBD			

Percentage of the population using a basic water source				
Project:	Water Sector Reform			
Activity:	DMA and Standpipe Demonstration Activity			
Sub-Activity:	N/A			
	Change Description:	Disaggregation Modification		
		Previous	Revised	
June-19	Change:	(A) Season (Rainy/dry)	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)	
	Justification Description:	Disaggregating by DMA		

	Change Description:	Baseline	Baseline Modification						
		Previous				Revised			
June-19	Change:	TBD			87				
	Justification Description:	Updated	Updated from TBD						
	Change Description: Target Modification								
		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshold		
	Revised Targets				88.6	89.2	89.2		
June-19	Previous Targets						TBD		
	Justification:	TBD replaced with target							
	Justification Description:	Targets were calculated using the trend in the data source as a basis. Targets were calculated based on this source: http://sierraleone.opendataforafrica.org/SLSDG2016/sustai				this source:			
		nable-de	evelopmer	nt-goals-of-	sierra-leo	ne	nable-development-goals-of-sierra-leone		

Non-revenue water					
Project:	Water Sector Reform				
Activity:	DMA and Standpi	DMA and Standpipe Demonstration Activity			
Sub-Activity:	N/A				
	Change Description:	Disaggregation Modification			
		Previous	Revised		
June-19	Change:	(A) Technical losses/Commercial losses	(A) DMA (Aberdeen/King Tom) (A.1) Technical losses/Commercial losses		
	Justification Description:	Disaggregating by DMA			

Number of connections regularized				
Project:	Water Sector Reform			
Activity:	DMA and Standpipe Demonstration Activity			
Sub-Activity:	N/A			
	Change Description:	Retire Indicator		
June-19	Justification:	Indicator has been added which is superior in measuring		
	Justinication:	same variable		

Justification Description:	Replacing with Registered customers in the project DMA. We want to know about the total number of customers, not just those regularized.
----------------------------	------------------------------------------------------------------------------------------------------------------------------------------

Registered customers in the project DMA							
Project:	Water Sector Reform						
Activity:	DMA and Standpipe D	emonstratio	n Acti	ivity			
Sub-Activity:	N/A						
	Change Description:	New Indicat	tor				
	Justification:	Replacing	the	indicator	Number	of	connections
June-19	Justinication.	regularized					
	Justification						
	Description:						

Continuity of service							
Project:	Water Sector Reform						
Activity:	DMA and Standpi	pe Demonstration Activity					
Sub-Activity:	N/A						
	Change Description:	I Disaggregation Modification					
		Previous	Revised				
June-19	Change: Justification	(A) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private/Non-GVWC) (B) Season (Rainy/Dry) Disaggregating by DMA and upd to match how it was done in th					
	Description:	non-GVWC as a disaggregation a	as it is not relevant.				
	Change Description:	Baseline Modification					
	Change:	Previous	Revised				
June-19	Citalige.	TBD	70.4				
Justification Description: Updated from TBD							

Days of service per week				
Project:	Water Sector Reform			
Activity:	DMA and Standpipe Demonstration Activity			

Sub-Activity:	N/A					
	Change Description:	Disaggregation Modification				
		Previous	Revised			
June-19	Change:	(A) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private/Non-GVWC) (B) Season (Rainy/Dry)	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private) (A.2) Season (Rainy/Dry)			
	Justification Description:	Disaggregating by DMA and updating nested disaggregation's to match how it was done in the KAP survey. Also removing non-GVWC as a disaggregation as it is not relevant.				
	Change Description:	Baseline Modification				
	Changa	Previous	Revised			
June-19	Change:	TBD	4.6			
Julie-19	Justification Description:	Updated from TBD				

Residential water consumption							
Project:	Water Sector Reform						
Activity:	DMA and Standpi	pe Demonstration Activity					
Sub-Activity:	N/A						
	Change Description:	Disaggregation Modification					
		Previous	Revised				
Change: June-19		(A) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private/Non-GVWC) (B) Season (Rainy/Dry) (A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC-sourced-Public/GVWC-sourced-Private)					
	Justification Description:	Disaggregating by DMA and updating nested disaggregation's to match how it was done in the KAP survey. Also removing non-GVWC as a disaggregation as it is not relevant.					

Percentage of	water samples with no fecal coliforms
Project:	Water Sector Reform

Activity:	DMA and Standpipe Demonstration Activity						
Sub-Activity:	N/A						
	Change Description:	Disaggregation Modification					
		Previous	Revised				
June-19	Change:	(A) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private/Non-GVWC) (A) DMA (Aberdeen/ K Tom) (A.1) Wa distribution point (GVV sourced-Public/GVWC-sourced-Private)					
	Justification Description:	Disaggregating by DMA and updating nested disaggregation to match how it was done in the KAP survey. Also remove non-GVWC as a disaggregation as it is not relevant.					
	Change Description:	Name Modification	1				
		Previous	Revised				
June-19	Change:	Percentage of water samples with no fecal coliforms	Water quality samples achieving fecal coliform standards				
	Justification Description:	Updating to match the indicator name in the SPIP.					
	Change Description:	Definition Modification					
		Previous	Revised				
June-19	Change:	Percentage of water samples with no fecal coliforms	Percentage of water quality samples achieving fecal coliform standards				
	Justification Description:	Updating to match the indicator name in the SPIP.					

Percentage of GVWC distribution points that meet regulatory standards for residual chlorine					
Project:	Water Sector Refo	orm			
Activity:	DMA and Standpi	oe Demonstration Activity			
Sub-Activity:	N/A				
	Change Description:	Disaggregation Modification			
June-19	Change:	Previous	Revised		

		(A) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private/Non-GVWC) (A.1) (Nested) Source/Point-of-consumption	(A) DMA (Aberdeen/ King Tom) (A.1) Water distribution point (GVWC sourced-Public/GVWC-sourced-Private)		
	ustification	Disaggregating by DMA and updating nested disaggregation match how it was done in the KAP survey. Also rem			
			,		
[Description:	non-GVWC and the S	ource/Point-of-consumption		
		disaggregation's as they are not relevant.			

Time spent fetching water from home in last week								
Project:	Water Sector Refo	Water Sector Reform						
Activity:	DMA and Standpip	oe Demor	stration A	ctivity				
Sub-Activity:	N/A							
	Change Description:	Disaggregation Modification						
			Previou	IS		Revis	ed	
June-19	Change:	None			Tom)	(A) DMA (Aberdeen/King Tom) (A.1) Season (Rainy/dry)		
	Justification Description:	Adding r	Adding relevant disaggregation's					
	Change Description:	Baseline Modification						
			Previous			Revised		
June-19	Change:	TBD				2.4		
	Justification Description:	Updated from TBD						
	Change Description:	Target N	/lodificatio	n				
		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshold	
Revised Targets						1	1	
June-19	Previous Targets						TBD	
	Justification:	TBD rep	laced with	target				
	Justification Description:	Updatin	g from TBI)				

Payments made from standpipe entrepreneurs to GVWC						
Project:	Water Sector Reform					
Activity:	DMA and Standpi	oe Demonstration Activity				
Sub-Activity:	N/A					
	Change Description:	Disaggregation Modification				
		Previous	Revised			
June-19	Change:	None	(A) DMA (Aberdeen/King Tom)			
	Justification Description:	Disaggregating by DMA				
	Change Description:	Baseline Modification				
		Previous	Revised			
June-19	Change:	TBD	0			
	Justification Description:	Updated from TBD				

Timeliness of payments made from standpipe entrepreneurs to GVWC						
Project:	Water Sector Refo	orm				
Activity:	DMA and Standpi	pe Demonstration Activity				
Sub-Activity:	N/A					
	Change Description:	Disaggregation Modification				
		Previous	Revised			
June-19	Change:	None	(A) DMA (Aberdeen/King Tom)			
	Justification Description:	Disaggregating by DMA				

Profits for standpipe entrepreneurs				
Project:	Water Sector Reform			
Activity:	DMA and Standpipe Demonstration Activity			
Sub-Activity: N/A				

	Change Description:	Disaggregation Modification				
		Previous	Revised			
June-19	Change:	None	(A) DMA (Aberdeen/King Tom)			
	Justification Description:	Disaggregating by DMA				
	Change Description:	Baseline Modification				
		Previous	Revised			
June-19	Change:	TBD	0			
	Justification Description:	Updated from TBD				

Customer sat	isfaction with supply	y reliabilit	У					
Project:	Water Sector Refo	Water Sector Reform						
Activity:	DMA and Standpip	DMA and Standpipe Demonstration Activity						
Sub-Activity:	N/A							
	Change Description:	Disaggregation Modification						
			Previou	IS		Revis	sed	
June-19	Change:	None			(A) [Tom)	, ,		
	Justification Description:	Disaggregating by DMA						
	Change Description:	Baseline Modification						
		Previous			Revised			
June-19	Change:		TBD			19.8		
	Justification Description:	Updated	d from TBD)				
	Change Description:	Target Modification						
June-19		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshold	
	Revised Targets					35	35	
1	Previous Targets	-				-	TBD	

Justification:	TBD replaced with target
Justification Description:	Comes from the SPIP

Customer satisfaction with water quality								
Project:	Water Sector Reform							
Activity:	DMA and Standpi	oe Demor	stration A	ctivity				
Sub-Activity:	N/A							
	Change Description:	Disaggre	Disaggregation Modification					
			Previou	IS		Revis	ed	
June-19	Change:	None			(A) [Tom)	(A) DMA (Aberdeen/King Tom)		
	Justification Description:	Disaggre	Disaggregating by DMA					
	Change Description:	Baseline Modification						
		Previous				Revised		
June-19	Change:	TBD				25		
	Justification Description:	Updated from TBD						
	Change Description:	Target N	/lodificatio	n				
		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshold	
luna 10	Revised Targets					35	35	
June-19	Previous Targets						TBD	
	Justification:	TBD rep	laced with	target				
	Justification Description:	Updating	g from TBI)				

Number of kiosks for which contracts have been signed			
Project:	Water Sector Reform		
Activity:	DMA and Standpipe Demonstration Activity		
Sub-Activity:			

	Change Description:	Classification Modification					
			Previo	JS		Revised	
June-19	Change:	Level			Cum	ulative	
June 13	Justification Description:	We want to know the cumulative total.					
	Change Description:	Disaggregation Modification					
			Previo	JS		Revi	sed
June-19	Change:	Sex (Male/Female)			Tom	(A) DMA (Aberdeen/King Tom) (A.1) Sex (Male/Female)	
	Justification Description:	Disaggregating by DMA					
	Change Description:	Target Modification					
		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshold
June-19	Revised Targets					11	11
	Previous Targets						10
	Justification Description:	Updated docume		n the det	ailed dra	wings in	the bidding

Customer me	Customer meters installed					
Project:	Water Sector Reform					
Activity:	DMA and Standpipe D	emonstration Activity				
Sub-Activity:	N/A					
	Change Description:	New Indicator				
	Justification:	Existing indicators do not sufficiently meet adequacy				
June-19	Justification:	criteria				
	Justification					
	Description:					

Water points constructed				
Project:	Water Sector Reform			
Activity:	DMA and Standpipe Demonstration Activity			
Sub-Activity:	N/A			

	Change Description:	New Indicator
	Justification:	Existing indicators do not sufficiently meet adequacy
June-19		criteria
	Justification	
	Description:	

Length of wat	er pipes constructed			
Project:	Water Sector Reform			
Activity:	DMA and Standpipe D	emonstration Activity		
Sub-Activity:	N/A			
	Change Description:	New Indicator		
	Justification:	Existing indicators do not sufficiently meet adequacy		
June-19	Justinication.	criteria		
	Justification			
	Description:			

REGULATORY STRENGTHENING PROJECT INDICATORS

Cost-of-service study completed					
Project:	Regulatory Strengthening				
Activity:	Operational Support a	nd Capacity Building Activity			
Sub-Activity:	N/A				
	Change Description:	Responsible Party Modification			
		Previous	Revised		
luno 10	Change:	Economic Regulator	EWRC		
June-19	Justification Description:	Clarification of who the eco	nomic regulator is.		

Existing utilities in the power sector formally licensed			
Project:	Regulatory Strengthening		
Activity:	Operational Support and Capacity Building Activity		
Sub-Activity:	N/A		
June-19	Change Description:	Target Modification	

		Year 1	Year 2	Year 3	,	Year 4	End of Threshol d
	Revised Targets	3	3		3	3	3
	Previous Targets	3	5		8	11	14
	Justification:						
	Change Description:	Classific	cation Mod	ification			
		Previous				Revised	
June-19	Change:	Cumula	tive		Lev	el	
Julie-19	Justification Description:	Error o	correction ation.	– Numb	er i	s not an	indicator

EDSA reportin	EDSA reporting submitted according to reporting requirements						
Project:	Regulatory Strengthening						
Activity:	Tariff Process and	Performa	nce Monit	toring Activ	rity		
Sub-Activity:	N/A						
	Change Description:	Classific	ation Mod	ification			
	Changa		Previou	JS		Revis	ed
	Change:	Date			Leve	l	
June-19	Justification Description:	Switching to a binary indicator. This will happen more than one time.					
	Change Description:	Unit Modification					
	Change:	Previous				Revis	ed
	Change.	Date Number					
June-19	Justification Description:	Switching to a binary indicator. This will happen more than one time.					
	Change Description:	Target Modification					
June-19		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshol d
	Revised Targets			31-Dec-			31-Dec-
				18			18
	Previous Targets			1	1	1	1
	Justification:	TBD rep	laced with	target			

	Switching to a binary indicator. This will happen more than
Justification	one time. 1 indicates that the reporting was submitted
Description:	according to reporting requirements, and 0 indicates that it
	was not.

EGTC reportin	orting submitted according to reporting requirements						
Project:	Regulatory Strengthening						
Activity:	Tariff Process and	Performa	ance Moni	toring Activ	ity		
Sub-Activity:	N/A						
	Change Description:	Classific	ation Mod	ification			
	Change:		Previo	us		Revis	ed
	Change.	Date			Leve	l	
June-19	Justification Description:	Switchir one time	_	ary indicato	r. This wi	ll happen	more than
	Change Description:	Unit Modification					
	Change:		Previo	us		Revis	ed
	Change.	Date Number					
June-19	Justification Description:	Switching to a binary indicator. This will happen more than one time.					
	Change Description:	Target Modification					
		Year 1	Year 2	Year 3	Year 4	Year 5	End of Threshol d
	Davisad Targets			31-Dec-			31-Dec-
June-19	Revised Targets			18			18
	Previous Targets			1	1	1	1
	Justification:	TBD rep	laced with	target			
	_		_	•			more than
	Justification					_	submitted
	Description:			ting require	ements, a	nd 0 indic	ates that it
		was not					

Tariff design efficiency that includes a lifeline tariff developed			
Project:	: Regulatory Strengthening Project		
Activity:	Tariff Process and Performance Monitoring Activity		
Sub-Activity:	N/A		

	Change Description:		
		Previous	Revised
June-19	Change:	Tariff design efficiency that includes a lifeline tariff developed	Lifeline tariff developed and approved
	Justification Description:	Clarification of what we accomplished.	are expecting will be
	Change Description:	Definition Modification	
		Previous	Revised
June-19	Change:	Tariff design efficiency that includes a lifeline tariff approved by EWRC	Lifeline tariff developed approved by EWRC
	Justification Description:	Clarification of what we accomplished.	are expecting will be

Cost-reflective	Cost-reflective tariff regime approved				
Project:	Regulatory Strengthening				
Activity:	Tariff Process and Per	formance Monitoring Activity			
Sub-Activity:	N/A				
	Change Description:	Retire Indicator			
June-19	Justification:	Indicator has been added which is superior in measuring same variable			
	Justification Description:	Adding common indicator.			

Cost-reflective	Cost-reflective tariff regime				
Project:	Regulatory Strengther	ning			
Activity:	Tariff Process and Per	formance Monitoring Activity			
Sub-Activity:	N/A				
	Change Description:	New Indicator			
June-19	Justification:	Existing indicators do not sufficiently meet adequacy criteria			
	Justification Description:	Adding common indicator.			

People trained in MCC supported capacity building activities

Project:	Regulatory Strengthening				
Activity:	Operational Support a	Operational Support and Capacity Building Activity			
Sub-Activity:	N/A				
	Change Description:	New Indicator			
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria			

Design of RBF	Design of RBF framework approved by MCCU			
Project:	Regulatory Strengthening			
Activity:	Results Based Financir	ng Activity		
Sub-Activity:	N/A			
	Change Description:	New Indicator		
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria		

Verification a	Verification agent contracted by MCCU				
Project:	Regulatory Strengthening				
Activity:	Results Based Financir	ng Activity			
Sub-Activity:	N/A				
	Change Description:	New Indicator			
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria			

KPI's for which a payment has been disbursed per the Independent Verification Report				
Project:	Regulatory Strengthening			
Activity:	Results Based Financing Activity			
Sub-Activity:	N/A			
	Change Description:	New Indicator		
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria		

RBF incentive payment disbursed		
Project:	Regulatory Strengthening	
Activity:	Results Based Financing Activity	

Sub-Activity:	N/A		
	Change Description:	New Indicator	
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria	

RBF disputes resolved			
Project:	Regulatory Strengthening		
Activity:	Results Based Financing Activity		
Sub-Activity:	N/A		
	Change Description:	New Indicator	
June-19	Justification Description:	Existing indicators do not sufficiently meet adequacy criteria	