

**Public Consultation and Disclosure Report
For the proposed Regional Emergency Solar Power
Intervention (RESPITE) project in Newton and Lungi**

**Electricity Distribution and Supply Authority (EDSA)
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ACRONYMS AND ABBREVIATIONS

RESPITE	Regional Emergency Solar Power Intervention
ADFD	Abu Dhabi Fund for Development
BESS	Battery Energy Storage Systems
DSI	Design, Supply and Installation
EDSA	Electricity Distribution and Supply Authority
	Environmental Protection Agency – Sierra Leone
EPA-SL	
ESF	Environmental and Social Framework
ESIA	Environmental, and Social Impact Assessment
ESS	Environmental and Social Standards
GoSL	Government of Sierra Leone
km	Kilometre
kV	Kilovolt
MoE	Ministry of Energy
MV	Medium voltage
MW	megawatt
MWac	Mega-Watt, Alternating Current
MWh	Megawatt-hour
MWp	Megawatt peak
O&M	Operation and Maintenance
PCDP	Public Consultation and Disclosure Programme
PIT	Project Implementation Team
PV	Photovoltaic
WB	World Bank

1.0 BACKGROUND TO THE PROJECT

The Regional Emergency Solar Power Intervention (RESPITE) project, led by the Government of Sierra Leone (GoSL) through the Ministry of Energy (MoE) and Electricity Distribution and Supply Authority (EDSA) with World Bank (WB) financing, addresses the fiscal and energy crises caused by high oil prices and power outages due to reliance on oil-based generation. It aims to (i) alleviate the fiscal burden of high oil prices, creating room to address food crises; (ii) increase affordable, clean energy supply to mitigate the power supply crisis and (iii) transition from heavy fuel oil and diesel generation, reducing greenhouse gas emissions.

The RESPITE Project will be implemented in accordance with the World Bank's Environmental and Social Framework (ESF), and the applicable Environmental and Social Standards (ESS). Eight of the ten ESS were considered relevant for the project:

- ESS1 - Assessment and Management of Environmental and Social Risks and Impacts
- ESS2 - Labor and Working Conditions
- ESS3 - Resource Efficiency and Pollution Prevention and Management
- ESS4 - Community Health and Safety
- ESS5 - Land Acquisition, Restrictions on Land Use and Involuntary Resettlement
- ESS6 -Biodiversity Conservation and Sustainable Management of Living Natural Resources
- ESS8 - Cultural Heritage
- ESS10 - Stakeholder Engagement and Information Disclosure

The Project Development Objective is to rapidly expand grid-connected renewable energy capacity and enhance regional integration among participating countries. Of its 4 components, the following apply to Sierra Leone:

Component 1: Construction of Solar Photovoltaic (PV), Battery Energy Storage Systems (BESS) and Grid Connections (US\$184 million equivalent IDA) will finance all costs associated with the Design, Supply and Installation (DSI) and Operation and

Maintenance (O&M) for the first three years of the solar PV power plants and any associated works for grid connection.

Sub-Component 1B: Solar PV and Battery storage at two locations in Sierra Leone (US\$63.5 million IDA equivalent) will finance all costs associated with (i) the expansion of an existing 5MWac/6MWp power plant at Newton to 35 MWac with associated substation, adding storage to it and undertaking works for power evacuation, and O&M for three years, and (ii) the addition of about 10 MWac ground mounted solar PV with battery storage, undertaking works for power evacuation, and O&M for one to three years at Lungi and Newton. Feasibility studies have been completed for both sites. Support for O&M will include training and capacity building at the utility to ensure that the utility staff have the technical know-how to operate and maintain the power plant.

- a. Development of 39 MWp (30 MWac) with 15MWh Battery storage and addition of 7MWh battery storage to the existing 6MWp/4.9MWac at Newton (US\$44 million): A 6MWp solar power plant has been developed in the Newton area through a grant to GoSL from Abu Dhabi Fund for Development (ADFD). This component will finance the DSI and O&M for additional storage capacity for the existing plant and adding 39MWp (30MWac) of ground-mounted solar PV. The proposed site is located at 8.322621°, -12.993666 with the government already having acquired 205 acres plot of land. The site will be linked to the proposed Waterloo substation through a 33kV line and further to the 161kV Bumbuna transmission line to Newton.
- b. Construction of 13 MWp (10 MWac) solar PV plant in Lungi Airport Area with 6MWh storage (US\$19.5 million): A 13 MWp (10 MWac) solar PV site is planned in the Lungi area that houses the Lungi International airport. The government has acquired 45 acres of land (8.663171, -13.187704) for this purpose. The proposal is for a 13MWp (10MWac) fix tilt PV power plant to be connected to the existing MV switching station at Lungi through 11kV lines. The sub-component will finance the DSI and O&M for the power plant and 5 MWh storage system as well as the construction of 11kV connection to the existing 11kV substation.

Component 3: Distribution Expansion and Transmission Optimization (US\$15.5 million equivalent IDA) will finance the expansion of distribution networks and optimization of

transmission in Sierra Leone and Togo to help the newly installed capacity to be connected to regional interconnectors and/or reach national populations.

- Sub-Component 3A: Supply and installation of voltage regulation equipment at 161/11kV Substation of Freetown to increase the evacuation capacity of the 161kV transmission line and Supply and installation of 33kV and 11kV distribution lines to optimize the integration of the Newton Solar Park (US\$6 million). This sub-component will finance the works associated with increasing the wheeling capacity of the existing 161kV transmission line from 70MW to 90MW. The 161kV line is around 205km long which results in a high impedance that induces voltage drop along this line, especially during peak demand operations; this significantly impacts both the power transfer and voltage profiles in Freetown. The planned solar PV plant at Newton will evacuate part of its generation to the 161kV transmission line and use 33kV sub-transmission line that is being built under WB financed Electricity Sector Utility Reform Project (P120304). This sub-component will cover the cost of design, procurement, and installation of devices for reactive power compensation (capacitor banks) and/or shunt reactors for voltage regulation support, and the 33kV and 11kV distribution lines needed to optimize the use of the solar plant. Increasing the 161kV line capacity will alleviate grid congestion and help in meeting the rapidly growing demand in Western Areas.

- Component 4: Regional Coordination, Institutional Strengthening, Implementation Support and Technical Assistance (US\$50.5million equivalent IDA)

2.0 PUBLIC CONSULTATION AND DISCLOSURE PROGRAMME OBJECTIVE

The Public Consultation and Disclosure Programme (PCDP) is a strategic framework designed to ensure continuous, transparent, and inclusive communication between MoE/EDSA and all relevant stakeholders throughout the lifespan of the project. The PCDP aims to facilitate collaboration, address concerns, and promote trust by fostering multi-directional communication.

Key objectives include:

i. **Validate Baseline Study Data:**

- Confirm and refine the information collected during the stakeholder meetings held, socio-economic and bio-physical surveys as part of the project baseline study conducted the ESIA study.
- Use stakeholder input to ensure the data accurately reflects local conditions, priorities, and concerns, forming a reliable foundation for project decision-making and planning.

ii. **Meet EPA-SL Regulatory Requirements:**

- Fulfil the Environmental Protection Agency – Sierra Leone (EPA-SL) mandate to engage communities in discussions of the Environmental, and Social Impact Assessment (ESIA) report after its submission.
- Provide stakeholders with clear, accessible information on the findings, impacts, and proposed mitigation measures outlined in the ESIA.
- Encourage feedback and participation from community members to address environmental and social concerns effectively and inclusively.

3.0 PUBLIC CONSULTATION AND DISCLOSURE METHODOLOGY

The PCDP was organised by EDSA-Project Implementation Team (PIT) and in collaboration with the lead consultant, the workshop was implemented. The following methods were used for the PCDP workshop

- **Public Announcement:** A public announcement about the disclosure was made from November 26 to December 3, 2024, inviting interested parties. The notice appeared in the widely read Exclusive and Satellite newspapers (see Annex i) and was broadcast in Krio and Temne on key local radio stations in the project areas, and in Krio and English in Freetown. Coverage included Radio Lungi (FM 106.1) in Lungi, Viacity Radio (FM 100.5) in Newton-Waterloo, and SLBC Radio (FM 100.1) for Freetown and the Waterloo-Newton area.
- **Invitation Letter:** Invitation letters were dispatched to project stakeholders, government institutions, and other interested parties ahead of the workshop.
- **Disclosure Consultations/Meetings:** As outlined in the public notice, disclosure meetings took place in Lungi on Thursday, December 5, 2024, and in Newton on Friday day, December 6, 2024. Section 4 of this report provides a detailed account of the discussions held during these consultative sessions.
- **Reporting:** The discussions from the meetings were documented, and a rapporteur prepared a draft report summarizing the deliberations.

4.0 WORKSHOP PROCEEDINGS

The sessions featured presentations by the ESIA consultants and the RESPITE project team, followed by an interactive plenary session where participants raised concerns, asked questions, and provided valuable feedback on the project and its proposed implementation. This report summarizes outcomes of the respective events in Lungi and Newton

4.1 Lungi Workshop (5th December, 2024) -Day 1, Community Centre, Masoila, Main Ferry Road, Lungi

Chairman's Opening Remarks- Pa Alimamy S. Dumbuya (Chiefdom Speaker)

The Chairman welcomed attendees and conveyed greetings on behalf of the Paramount Chief of Kafu Bullom. He described the project as a significant milestone in achieving energy sufficiency in Sierra Leone and expressed gratitude to the government for leading the initiative and bringing it to Lungi. He thanked the World Bank for funding the project, calling it a smart solution to the energy crisis. He highlighted that Kafu Bullom felt privileged to host such a transformative project and pledged the chiefdom's support to ensure its success. The Chairman also commended EDSA for commissioning an ESIA, emphasizing the importance of addressing environmental and social concerns in implementing such a project. He acknowledged the efforts of the ESIA consultants, noting that the study was conducted in thorough consultations with the people in the area while attesting that he was part of some consultative meetings during the study period. He encouraged attendees to make meaningful contributions during the disclosure meeting to help shape the project for the benefit of all.

Statement by Mr. Edward Williams (Representative of the Member of Parliament)

He expressed satisfaction that Sierra Leone is benefiting from the RESPITE project, emphasizing that the public disclosure process underscores transparency and a people-centred approach. He noted that the project had been in progress for the past three years, during which updates were consistently provided. He commended the MPs' office for monitoring the project and ensuring its advancement, highlighting its potential to address the energy crisis in the area. He praised the landowners for their cooperation in providing land for the project and emphasized that RESPITE would significantly enhance electricity availability in Lungi, making it more affordable. He urged community members to support the project and ensure its success.

Statement by Mr. Sheku Tejan Saccoh (the Port Loko District Council Chairman)

The District Council Chairman described RESPITE as a welcome initiative, recognizing electricity as crucial for development. He appreciated the community's cooperation, particularly from landowners and those affected by the project, and appealed for their continued support. He highlighted the project's potential to create employment opportunities for the youth and encouraged them to engage diligently. He urged community members to address grievances through appropriate channels to ensure smooth implementation and pledged the Council's oversight and supervisory support for the project.

Statement by Pa Alimamy S Kamara (Section Chief, Gbanneh Bana)

On behalf of the Gbanneh community and landowners, the Section Chief pledged their unwavering support for the project, expressing commitment to its success so that everyone benefits from the electricity. He assured the project team of the community's protection of the project site and a welcoming attitude towards workers involved in the initiative.

Statement by Mr. Ansumana Dauda Sawanneh (the Project Area Councillor)

The Councillor thanked the government and all stakeholders for bringing such significant development to the area. He appealed to the project proponents to prioritize employment opportunities for local community members, especially the youth, to ensure smooth implementation. He also urged community members to support the project and take full advantage of the benefits from the project.

Statement by Reverend Sesay-Jones (a senior resident of Kufu Bullom /Former Deputy Minister of Lands)

Reverend Sesay-Jones acknowledged the importance of the public disclosure, highlighting that it demonstrates community ownership of the project. He emphasized the potential impact of RESPITE on various sectors, including education and healthcare. He appealed for additional development projects such as bridges and roads while expressing gratitude to the government, EDSA, and the World Bank for funding the project.

Statement by Mr. Alieu Alhaji Sesay (Chief Imam, Kaffu Bullom)

The Chief Imam expressed appreciation for the project and assured full community

support. He also called for other development projects including road construction in Kafu Bullom. He urged the project team to implement the project judiciously, emphasizing the need to create opportunities for residents to improve their economic conditions and foster cooperation.

Statement by Ya Alimamy M F Kamara (the Chiefdom Mammy Queen)

The Chiefdom Mammy Queen appealed to the Gbanneh community to support the project. She urged the project team to exercise caution in their interactions with women and young girls and advocated for women to be prioritized in employment opportunities. She expressed gratitude for the project, noting that women stand to benefit significantly, especially through increased business opportunities.

Statement by the Kafu Bullom Youth Chairman

The Youth Chairman highlighted the project as a massive opportunity for young people and urged them to take ownership of it while maintaining peace. On behalf of the youth, he pledged their full support and commitment to the project's swift implementation.

Statement by Ing. Ibrahim T Dumbuya (EDSA Station Engineer Lungi)

The EDSA Station Engineer described the project as crucial for expanding and rehabilitating Lungi's electricity infrastructure. He emphasized its potential benefits given the high energy demand in the area. He appealed to residents to avoid illegal electricity connections and property vandalism and encouraged best practices in preparation for the project's completion.

Statement by Mohamed B Kamara (One Salone Director)

The One Salone Director emphasized the need to act as ambassadors for the project, ensuring its protection, stability, and security. He noted that while the project could have been implemented elsewhere, Kafu Bullom was chosen, and its residents should maximize the opportunity to unlock further development in the area.

Statement by Major Osman Kamara (the Military Representative)

The Military Representative recognized the project's significance for Kafu Bullom's development and reiterated the importance of community ownership. He assured

attendees of the military's commitment to providing security to protect the facilities from theft and misuse.

Statement by Mr. Solomon George (the EPA-SL Representative)

The EPA-SL Representative provided a brief overview of the agency's role, emphasizing environmental protection and community involvement. He noted that EPA-SL acts as a mediator between the project proponents and the people, ensuring compliance with environmental and social standards. He assured attendees that the agency would monitor the project at every stage to maximize its benefits while safeguarding the environment and the community's well-being.

Presentations

1st presentation: Introduction and Project Description- Rashidu Sinnah (Social Risk Safeguard EDSA-PIT)

2nd presentation: Environmental Baseline and Impact Assessment and Mitigation Measures -James Moanah (Lead ESIA Consultant)

3rd Presentation: Socioeconomic Baseline, Impact Assessment and Mitigation Measures John S. Moanah (ESIA Consultant)

4th presentation: Stakeholder Engagement and Labour Management Plan - Keifala P. Koroma (GBV Specialist EDSA-PIT)

Plenary Session

The presentations concluded with an open discussion, where participants were invited to share their views, raise concerns, or ask questions about the project and its implementation.

Table 1: Question and Answer Session- Lungi

Name/Designation/Institution	Question/Concern/Comment	Response/Action Point
Pa Alimamy Kapen Kargbo (Section chief, Rotifunk)	When is the project starting, and when is it expected to be completed?	Rashidu Sinnah- EDSA-PIT: The project has been commissioned, and the construction timeline is 12 months. The contractor has committed to completing it within that timeline. However, construction will start once the ongoing RAP is completed, and affected persons are compensated for their disturbance and losses.
Councillor Ansumana Dauda Sawaneh	I want to flag that the ESIA consultant left out some villages, mentioning only 8 villages in the study. Villages like Sander, Gbomoya, Transmitter, Suctarr, and Makasa were excluded. Why	ESIA Consultant: The villages mentioned in the report are those directly impacted by the project, within a 5km radius of the site, where significant studies like air and water quality assessments were conducted. However, the villages you mentioned were considered under the

	are they not mentioned or involved in the study?	socioeconomic component, where household data was collected.
Alieu Alhaji Sesay -Chiefdom Imam	A major challenge is the high tariff and deductions we face when buying top-ups for our meters. Will this solar project have a different tariff that will be reasonable?	EDSA Station Manager, Lungi: Service charges and a 15% GST will be deducted monthly. If you don't purchase electricity for several months, the deductions will still apply for those months when you eventually purchase. Any tariff changes will be determined by the appropriate committee as required.
Member, Landowning Family	Are the funds and activities outlined in the CDAP going alongside the project?	Rashidu Sinnah- EDSA-PIT: The CDAP requires project proponents to allocate funds to support identified development needs. Its implementation will proceed alongside the project.
Chiefdom Youth Leader	How many community members, especially youths, will be employed in the project?	Rashidu Sinnah- EDSA-PIT: The exact number cannot be determined at this stage. It will depend on the project's scope and the contractor undertaking the construction.

Ya Alimamy M F Kamara (Chiefdom Chairlady)	<p>1. CDAP should cover additional needs such as schools and health facilities.</p> <p>2. Will the community have access to the boreholes on the project site for their water needs?</p>	<p>Rashidu Sinnah- EDSA-PIT: 1. CDAP funds will be available and overseen by a committee of stakeholders.</p> <p>2. Accessing the boreholes in the project site will be determined by the contractor if they deem it safe for community members to access and utilize.</p>
Pa Santigie Destiny Sesay (Airport Community Chief)	If someone has skills but no certification, will they still be employed?	<p>Rashidu Sinnah- EDSA-PIT: Skills will be the primary basis for employment, alongside qualifications where required. Job opportunities will be available for skilled individuals across various categories.</p>
Pa Alimamy S Dumbuya (Chiefdom speaker)	<p>1. Will women be given funds to start businesses?</p> <p>2. How many people are affected by the distribution line?</p>	<p>ESIA Consultant: 1. The CDAP does not currently include provisions for business startup funds for women or others.</p> <p>2. The RAP team is currently mapping and verifying affected persons; the exact numbers will be determined soon.</p>

Mohamed Davis Kanu (Vice Chair, Landowners)	The surrounding villages need transformers. Will this be considered?	EDSA Station Manager, Lungi: The existing network will be expanded to ensure electricity reaches surrounding areas. The RESPITE project's capacity will allow for sufficient electricity distribution in Lungi and the surrounding community.
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Closing statement by EPA-SL Representative

He thanked the people for their meaningful contributions while applauding the disclosure workshop. He maintained that the institution will consider granting an ESIA license to the project when the board members meet very soon. Before concluding, he asked a question to the attendees about their support for the project, to which the community responded with resounding approval, reflecting their eagerness for its implementation.

Chairman's closing remarks

In his closing courtesy, the chairman further thanked everyone for their contribution to the disclosure. He thanked the people for showing overwhelming support for the project while encouraging them to use that energy to continuously support the project in every way possible. He noted that the ending of what he described as a successful disclosure marks a significant milestone in the transformation of the Kafu Bullom which he urged the people to prepare for and take full advantage of. He drew the curtains close to the workshop as he thanked the government and the World Bank for the project on behalf of the Paramount chief.

4.2 Newton Workshop (6th December 2024)- Day 2, Cashew Production Centre, Magbafti, Newton

Chairman person's opening remarks – Madam Aminata Mansaray

The Chairlady welcomed everyone to the disclosure workshop and expressed gratitude for their presence. She highlighted the significance of the RESPITE project, emphasizing its transformative potential for the residents of the project site communities. She noted that electricity drives development enhancing socioeconomic growth, and stated that this project offers an incredible opportunity for the local communities to benefit in various ways. She urged participants to ensure the project's success by supporting it wholeheartedly. She also encouraged attendees to listen attentively to the presentations, ask questions, and share their views during the plenary session.

Statement by Mr. Brima Kamara (Headman, Kattu Town)

The Headman welcomed participants and acknowledged the importance of the disclosure meeting. He expressed excitement about the RESPITE project and its anticipated benefits for the community. He cautioned against repeating past mistakes, referencing the 6MW project, where promises of community electrification went unfulfilled. He emphasized the community's hope for tangible benefits from this project and pledged their full support to ensure its success.

Statement by Madam Isata Koroma (Project Area Councillor)

The Councillor expressed excitement about the progress of the RESPITE project, noting its importance for community development. She shared his pride in having played a role in lobbying for electricity which has eventually landed such a significant project and stated that its realization would bring substantial benefits, especially to women and young people. She emphasized the project's potential to improve business opportunities by resolving longstanding electricity challenges. She commended the government and the World Bank for bringing such a timely and impactful initiative to the community and assured their support for its successful implementation.

Statement by Mr. Solomon George (EPA-SL Representative)

The EPA-SL Representative reiterated the agency's commitment to ensuring that the RESPITE project adheres to strict environmental and social standards. He emphasized the importance of protecting the environment and preserving community well-being throughout the project's lifecycle. He explained the EPA's role as a mediator between the project proponents and the community, ensuring that development is achieved responsibly. He added that the agency would closely monitor the project's implementation, ensuring that all environmental safeguards are followed. He urged the community to collaborate actively to maximize the project's benefits.

Presentations

1st presentation: Introduction and Project Description- Joseph Cole Jr. (Environmental Specialist EDSA-PIT)

2nd presentation: Environmental Baseline and Impact Assessment and Mitigation Measures -James Moanah (Lead ESIA Consultant)

3rd Presentation: Socioeconomic Baseline, Impact Assessment and Mitigation Measures John S. Moanah (ESIA Consultant)

4th presentation: Stakeholder Engagement and Labour Management Plan - Keifala P. Koroma (GBV Specialist EDSA-PIT)

Plenary Session

The presentations concluded with an open discussion, where participants were invited to share their views, raise concerns, or ask questions about the project and its implementation.

Table 2: Question and Answer Session- Newton

Name/Designation/Institution	Question/Concern/Comment	Response
Head man Kattu Town	We only saw that electricity will be provided to 3 communities. What about the other communities?	Rashidu Sinnah- EDSA-PIT: This project will serve 40 communities, and preparations have already begun with the erection of poles for the RESPITE electricity.
Councillor Isatu Koroma	Will the road leading to the project site be tarred or just graded?	Rashidu Sinnah- EDSA-PIT: Two budgets (one for a tarred road and the other for grading only) have been submitted by SLRSA to the government. The road will be rehabilitated, but the final decision is pending a review of the budgets.
Mohamed Jalloh (Headman, Magbafti)	Is the liaison officer for the project coming from the communities or the project team?	Rashidu Sinnah- EDSA-PIT: The project has a Grievance Redress Committee, and most employment will be facilitated through this committee and community stakeholders. The liaison officer will work closely with community representatives to ensure effective communication and employment facilitation.

Kadiatu Turay (Women's Leader, Kpoubu)	You noted in your presentation that manual jobs will not be given to women. Why not provide women with equal job opportunities?	Rashidu Sinnah- EDSA-PIT: Manual labour jobs are not assigned to women to protect their health and well-being. There are several other jobs that women can do in the project. They will have as equal job opportunities as men.
Alpha Mansaray (Youth Chairman, Magbafti)	Magbafti has grown significantly since the study was conducted. Will this new development be captured by the time electricity distribution starts?	ESIA Consultant: The study reflects the situation at the time of the assessment which is November 2022 to May 2023. However, updates and reviews will be made by EDSA as necessary during service provision to account for population and community changes.
Sorie Dumbuya (Chairman, Disability Group, Magbafti)	We advocate for persons with disabilities to be considered for employment.	Rashidu Sinnah- EDSA-PIT: Employment opportunities for persons with disabilities will be prioritized based on their skills and qualifications.

Lois Kamara (Female Disability Representative)	We plead that our safety on the road during the construction be considered to ensure we are protected from the heavy vehicles that will ply the route.	Rashidu Sinnah- EDSA-PIT: Safety measures, including traffic control and pedestrian protection, will be implemented during the construction phase to ensure the safety of community members.
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Closing Statement by EPA-SL Representative

The EPA-SL Representative thanked the participants for their active engagement and insightful contributions during the workshop. He emphasized the importance of the ESIA in ensuring that projects align with environmental standards and community needs. He reassured the gathering that the EPA-SL's board will review the ESIA report to issue a license to the project. Before concluding, he asked a question to the attendees about their support for the project, to which the community responded with resounding approval, reflecting their eagerness for its implementation.

Chairperson's closing remarks

The chairperson thanked everyone for attending the disclosure. She noted that the event is important as they have gained meaningful insights about the project and how effectively it will be implemented to maximize its benefits while complimenting environmental sustainability. She thanked members for their contributions and encouraged them to be ambassadors of the project as they should go back to their respective communities and positively inform everyone. She assured that the project will be embraced with the utmost significance and support by community members.

5.0 ANNEXES

Annex i: Newspaper Advert

FRIDAY 25TH NOVEMBER, 2024 THE SATELLITE, VOL. 48 NO. 33 PAGE 4

EDSA

Electricity Distribution and Supply Authority

Electricity Distribution and Supply Authority (EDSA) Electricity House, No. 36 Siaka Stevens Street, Freetown

NOTIFICATION FOR THE PUBLIC DISCLOSURE OF ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA) FOR THE REGIONAL EMERGENCY SOLAR POWER INTERVENTION (RESPITE) PROJECT

The Government of Sierra Leone (GOSL) secured financing from the World Bank (WB) towards the implementation of the Regional Emergency Solar Power Intervention (RESPITE) Project. The main objectives of the RESPITE project component in Sierra Leone are to improve electricity generation in Sierra Leone as part of a World Bank initiative by way of solar PV generation and battery energy storage; interconnection to the existing grid and further improve the technical and commercial performance of the Electricity Distribution and Supply Authority (EDSA).

The Regional Emergency Solar Power Intervention (RESPITE) Project is forming part of the Bank's response to the current energy crisis in the region. Liberia, Sierra Leone, Chad and Togo are facing significant electricity purchase bills due to the rising oil prices and the high share of liquid fuel generation in their energy mix. Part of the scope of the project involves the installation of a 30MW solar PV Power Plant + 15MWh BESS and a 10MW solar PV Power Plant + 5MWh BESS at Newton and Lungi respectively. The project achieved effectiveness putting Sierra Leone among three (3) countries approved by the World Bank to proceed with relevant arrangements for the implementation of the project. In compliance with the laws of Sierra Leone, the project needs to be carried out in a manner that minimizes the potential negative social and environmental impacts and maximizes the benefits. This can be achieved through the ESIA Process which the Electricity Distribution and Supply Authority has undertaken.

This ESIA is now at the stage where the results need to be presented to interested and/or affected persons/parties for discussion and finalization. The reports submitted to the Environment Protection Agency - Sierra Leone (EPA-SL) are to be presented to interested and affected persons at public consultation and disclosure workshops at:

- Water Women Cashew procession Hall, Agriculture Compound, Newton on Wednesday 4th December, 2024.
- Community Centre Masolia, Main Ferry Road, Lungi Thursday 5th December, 2024.

The Environmental and Social Impact Assessment Study was reported in two volumes titled:

- Volume 1 - The Executive Summary and Main Report
- Volume 2 - Environmental and Social Management Plan

The reports are now available for reference purposes at the following locations:

- The Environment Protection Agency - Sierra Leone (EPA-SL) office, 38 Freetown Road, Wilberforce, Freetown
- The World Bank Website at www.worldbank.org
- Electricity Distribution and Supply Authority, 36 Siaka Stevens Street

The General public and other key stakeholders are hereby invited to participate in the consultation process for this project. Your input and any issues or insights regarding the project will be valuable in the specialist investigations. We look forward to your participation in the consultation and disclosure process.

All enquiries should be forwarded to: The Environmental & Social Management Unit at EDSA (4th Floor Electricity House, 36 Siaka Stevens Street Freetown).

Email/Tel No., rashidu.sinnah@yahoo.com, or [+232 76708642/076641432](tel:+23276708642)

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**Public Disclosure of ESIA for the
Construction of a 13 MWp (10 MWac)
Solar PV Facility in Lungi, Port Loko
District, Northern Sierra Leone**

**ESIA Solar PV Facility in Lungi,
Port Loko District**

Presented by

James Moanah

Team Lead

Presentation Outline

- Background to the Project
- Purpose of the ESIA Study
- Policy, Legal, and Institutional Frameworks
- Environmental Baseline
- Environmental & Social Risks And Impacts
And Mitigation Measures
- Project Alternative

Project Background

- **GoSL**, via **EDSA** and **MoE**, initiated the **WB**-funded **RESPITE** project to address impacts of the Ukraine war and rising oil prices.
- The project includes a 13 MWp (**10MWh**) solar PV plant with **6 MWh** of storage in Lungi, aiming to **enhance** renewable energy, **mitigate** emissions, and promote **regional** integration.

Project Location



Purpose of the ESIA Study

- The overall objective of this assignment is to identify and assess the environmental and social **risks** and **impacts** of this proposed project, evaluate alternatives, and design appropriate mitigation, management, and monitoring measures.
- It also involves preparing an **ESIA** and corresponding **ESMP** for the Lungi location in accordance with the **SL-EPA**, World Bank's ESF, the project ESCP, EHS General Guidelines, and Energy/Electricity-specific recommendations.

Cont. ...Purpose of the ESIA Study

- Recommendations of this ESIA will be incorporated into the final project designs, investment decisions and project implementation processes to ensure the sustainable management of the environment during the pre-construction, construction, operation/ maintenance, and decommissioning phases

Policy, Legal, and Institutional Frameworks

The project will comply with national policies and regulations, including the :

- Environmental Protection Agency Act (**2022**): requiring an EIA for construction.
- National Electricity Act (**2011**): defining EDSA's role,
- Customary Land Rights Act (**2022**): protecting land rights,
- Gender Equality Act (**2022**): promoting workplace equality.
- Roads Authority Act (**2010**): setting road RoW

Cont.. Policy, Legal, and Institutional Frameworks

- Renewable Energy Policy (**2016**), and
- Climate Change Policy (**2021**).

Key institutions include:

- MoE,
- MECC,
- EPASL,
- SLRA, and
- Port Loko District Council for oversight

Cont.. Environmental Baseline

Water Quality

- All drinking water sources met **WHO guideline** for drinking.

Cont.. Environmental Baseline

Noise

- Noise assessments at **five** locations in the project area showed that noise levels exceeded **55** dB in all locations except the PV and BESS site.
- Major noise sources include ***intermittent traffic, and motorcycles.***

Cont. Environmental Baseline

Air Quality

- Air quality measurements were conducted at **five** sites, focusing on **PM2.5** and **PM10**, ***ozone*** (O3), ***nitrogen dioxide*** (NO2), and ***sulfur dioxide*** (SO2).
- **PM2.5** levels were within acceptable limits
- **PM10** exceeded thresholds at Lungi Government Hospital during heavy traffic but fluctuated throughout the day.

Cont.. Environmental Baseline

Cont.. Air Quality

- Ozone levels were well **below WHO's** recommended limits.
- NO2 **exceeded** recommended levels at **three** locations.
- SO2 concentrations were well **below** OSHA's permissible exposure limit.
- Motorbike transportation was **identified** as the primary source of **dust** emissions.

Cont.. Environmental Baseline

Traffic Monitoring

- A traffic assessment was conducted at the **project site** and the **Gbaneh Bana** junction.
- Motorcycles, known as "**Okadas**," are the most common mode of transport in the area.
- Traffic peaks between **9** a.m. and **7** p.m. daily.

Cont.. Environmental Baseline

Ecology

- A few **Flora** and **Fauna** were found
- No threatened species of mammals, birds or butterflies were recorded. Identifying any of these species during the survey is one of the key aspects of the study.

ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

The following are **impact-generating** activities during the design, planning, construction, operation and maintenance and decommissioning phases of the project:

- Land acquisition for the PV/BESS site
- Site preparation
- Minor excavation and levelling
- Hauling of earth materials and wastes
- Cutting and drilling

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

- Erection of concrete and steel structures
- Road upgrade (if necessary)
- Painting and finishing
- Clean up operations
- Landscaping and afforestation
- Erection of Poles and stringing of lines

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Positive E&S Impacts

- The **RESPITE** project is expected to significantly improve both *human well-being* and the environment.

Below are some of the suggested project activities' possible advantages:

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Cont.. Positive E&S Impacts

- Carbon Emissions Reduction
- Reduced Indoor Pollution
- Preservation of Ambient Environmental Conditions
- Improved Security
- Improved Delivery of Social Services, Health and Education
- Employment Generation
- Improved Livelihoods
- Incentives for Small-Scale Enterprises
- Improvement of Local Skills

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Negative Environmental and Social Risks and Impacts

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Preconstruction Phase					
Selecting an inappropriate or flawed design	The project/Humans	National	Permanent	Very Likely	Major
Loss of land, Assets and Livelihoods	Humans	Local	Permanent	Very Likely	Minor
SEA/SH Risk	Humans	Local	Long-term	Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Preconstruction Phase					
The lack of community consultations or limited stakeholder consultations	Humans	Local	Long-term	Unlikely	Major
Risks associated with site mobilization and the transportation of equipment and materials to the site	Humans /Biodiversity	Local	Short-term	Very Likely	Moderate
Inefficiency resulting from the sourcing of construction materials	The project/Humans	National	Long-term	Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Climate	Humans/Biodiversity	Local	Short-term	Unlikely	Negligible
Ambient Air Quality Deterioration	Humans	Local	Short-term	Very likely	Moderate
Noise Nuisance	Humans /Biodiversity	Local	Short-term	Very Likely	Moderate
Water Contamination	Humans /Biodiversity	Local	short-term	Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Soil contamination	Biodiversity	Local	Long - term	Very Likely	Moderate
Pressure on Water Resources	Humans	Local	Short-term	Likely	Minor
Impact on Local Ecology	Biodiversity	Local	Long-term	Very Likely	Moderate
Solid Waste/ Hazardous Generation and Management Issues	Humans/ Biodiversity	Local	Long term	Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Erosion and Loss of Soil Resources	Biodiversity	Local	Long - term	Very Likely	Moderate
Occupational Health and Safety Hazards for Workers	Humans	Local	Long - term	Likely	Moderate
Community Health and Safety	Humans	Local	Long-term	Very Likely	Moderate
Impact on Cultural/Archaeological Resources	Humans	Local	Short-term	unlikely	Negligible
Tension from unrealistic expectations from communities	The project	Local	Long term	Likely	Major

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Operational Phase					
Waste Generation and Management Issues	Humans/ Biodiversity	Local	Long term	Very Likely	Moderate
Pressure on Water Resources	Humans	Local	Long-term	Likely	Minor
Impact on Local Ecology	Biodiversity	Local	Short - term	Very Likely	Moderate
Nuisance noise	Humans/ Biodiversity	Local	Short-term	unlikely	Minor
Ambient Air Pollution	Humans	Local	Short-term	unlikely	Minor

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Operational Phase					
Change in Landscape and Visual Amenity	Humans	Local	Long-term	Very Likely	Minor
Occupational Health and Safety Issues	Humans	Local	Short-term	Very Likely	Minor
Community Health and Safety Issues	Humans	Local	Short-term	Very Likely	Minor
Emergency Situations	Humans	Local	Short-term	Very likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Decommissioning Phase					
Community Health and Safety Issues	Humans	Local	Short-term	Likely	Moderate
Ambient Air Quality Deterioration	Humans	Local	Short-term	Likely	Minor
Noise nuisance	Humans	Local	Short-term	Likely	Minor
Water Contamination	Humans/Bio diversity	Local	Long-term	Likely	Moderate
Waste Generation and Management Issues	Humans/Bio diversity	Local	Long - term	Very Likely	Moderate

Project Alternative

- The "**No Project Alternative**" is deemed **illogical** given Sierra Leone's electricity **demand** and the project's role in enhancing energy access.
- Renewable energy sources, particularly **solar PV** and **BESS**, were **chosen** over conventional methods for their sustainability.
- **Gbaneh Bana** was selected based on factors like **land suitability**, **terrain**, and **grid accessibility**.

Cont... Project Alternative

- **Mono-facial** crystalline silicon solar panels with a **fixed** tilt were chosen for cost **efficiency** and **reliability**.
- String inverters were preferred for their scalability and ease of maintenance.
- Concrete poles were recommended for power transmission due to durability and environmental suitability.

Cont... Project Alternative

- Transmission routes were **evaluated**, with the proposed line minimizing environmental impacts and resettlement issues.
- The PV/BESS plant will connect to the **11kV** network via overhead lines, utilizing long-rod insulators for efficiency.

Cont... Project Alternative

- The **BESS** design supports energy storage, offsets generator reliance, and ensures safety through advanced cooling and fire protection systems.
- Overall, the project design **focuses** on balancing cost, sustainability, and operational efficiency while addressing environmental and social considerations.

Thank You!

**Public Disclosure of ESIA for the
Construction of a 13 MWp (10 MWac)
Solar PV Facility in Lungi, Port Loko
District, Northern Sierra Leone**

**ESIA Solar PV Facility in Lungi,
Port Loko District**

Presented by

John Moanah

Social Baseline

- The socio-economic baseline study **highlights** the existing **social** and **economic** conditions in the project area, forming the basis for evaluating the proposed project's potential impacts.
- Key findings focus on **demographic**, **economic**, and community insights essential for **impact assessment**.

Cont.. Social Baseline

Composition

- The project area consists of **eight** primary communities (Baimbaya, Youriya, Koimaya, Gbaneh Bana, Koboya, Baya, Kerefay, and Santigieya) with **standard** dwelling units made of **cement blocks** or **burnt bricks**.
- Each dwelling unit typically accommodates **one** household.

Cont.. Social Baseline

Livelihood and Economy

- Farming (**64.7%**) and trading (**18%**) are the primary **income** sources for the community, with **fishing** also vital for coastal areas.
- Agriculture is mainly **subsistence-based**, focusing on crops like rice, cassava, and vegetables sold in local markets.
- The "**Lumar**" trading system boosts the local economy and regional trade.

Cont.. Social Baseline

Land Tenure and Land Use

- Land in Gbaneh Bana/Koimaya follows a **customary ownership** system, held in trust by tribal authorities.
- The **William Sheka Koroma** family claims ownership of the proposed project site, primarily used for **crop cultivation** like cassava, rice, and palm trees.

Cont.. Social Baseline

Cont.. Land Tenure and Land Use

- The GoSL allocated **44.7583** acres in Lungi Port Loko District to the MoE via a **willing-buyer, willing-seller** arrangement with the family.
- The process included documented agreements, compensation payments, and a conveyance letter dated **4th July 2023**, transferring the land to MoE.

Cont.. Social Baseline

Literacy and Education

- Education levels are low, with **60.1**% lacking formal education.
- Limited **schools**, facilities, and **high** dropout rates affect access.

Cont.. Social Baseline

Medical Facility

- The project area has limited **hospitals** and **health centers** , leading to **overcrowding** and inadequate medical care.
- The local Community Health Post (**CHP**) in Gbaneh Bana, which serves over **fourteen** communities, including the **eight** communities in the project area, is the preferred treatment facility but faces challenges regarding facilities and equipment.

Cont.. Social Baseline

Cont.. Medical Facility

- The local health post has no **GBV** response mechanism and **tool** kit.
- Traditional **healers** and **herbal** medicine are sometimes relied upon due to **limited** access to healthcare.

Cont.. Social Baseline

Cont.. Drinking Water Facility

- Hand pump wells **serve** as the primary improved water source for drinking in the communities.
- Although **intermittent** shortages occur, especially during the **dry** season, the water from these sources is considered safe for consumption

Cont.. Social Baseline

Sanitation and Waste Management

- The primary disposal methods for household-generated waste are **burning** and **throwing** it in the bush.
- These methods are not **environmentally friendly**.
- A proper waste disposal method for the project is outlined in the **ESMP**.

Cont.. Social Baseline

Archaeological and Cultural Heritage

- No **archaeological** or **cultural** site of significance is found in the site for the proposed project area.
- However, the **ESMP** has captured measures to appropriately deal with chance findings during the project's **construction** phase.

Cont.. Social Baseline

Vulnerable Groups

- Vulnerable groups in the project area, including women, children, the elderly, and marginalized communities, face limited access to resources and opportunities.
- Addressing gender disparities, empowering women, and promoting social inclusion for people with disabilities are crucial for equitable socio-economic development and project planning.

Stakeholders' Participation and Consultation

- Stakeholder consultations for the ESIA were conducted between **November 2022** and **May 2023**, involving **240** participants (**140** men, **100** women).
- Government agencies, local leaders, residents, and vulnerable groups were **engaged** through formal letters, SMS, and calls.
- Meetings provided project details, gathered feedback, and addressed concerns.

Key issues and action points were identified:

Cont.. Stakeholders' Participation and Consultation

- The local community residents expressed their **support** for the project and their commitment to its success.
- The land-owning family involved in the consultation expressed willingness to provide the identified land through a **willing-seller-willing buyer** arrangement.

Cont.. Stakeholders' Participation and Consultation

- The **CHP** staff highlighted the need for additional facilities to handle the high number of patients due to the influx of migrant workers and requested support to address these deficiencies before the project commences.
- Women in the community showed enthusiasm for the project and requested employment opportunities while advocating against discrimination and abuse.

Cont.. Stakeholders' Participation and Consultation

- Local community leaders expressed dedication to promoting the project and increasing awareness and acceptance among residents.
- Youth representatives emphasized the importance of job creation and pledged to maintain peace while addressing any future grievances through the appropriate **GRM**.

Cont.. Stakeholders' Participation and Consultation

- The stakeholders also raised points, such as the need for training opportunities for community residents and the importance of respecting the area's laws, customs, and traditions.
- The local bike rider's union expressed concern about road safety during the construction phase due to dust generated by heavy vehicles but acknowledged the project's positive impact on their industry.

Thank You!

**Public Disclosure of ESIA for the
Construction of a 39 MWp (30 MWac)
Solar PV Facility in Newton, Western Area
Rural District of Sierra Leone**

**ESIA Solar PV Facility in Newton,
Western Area Rural District**

Presented by

James Moanah

Team Lead

Presentation Outline

- Background to the Project
- Purpose of the ESIA Study
- Policy, Legal, and Institutional Frameworks
- Environmental Baseline
- Environmental & Social Risks And Impacts
And Mitigation Measures
- Project Alternative

Project Background

- **GoSL**, via **EDSA** and **MoE**, initiated the **WB**-funded **RESPITE** project to address impacts of the Ukraine war and rising oil prices.
- The initiative includes a **39** MWp (**30** MWac) solar plant with **15MWh** battery storage and a **7MWh** battery expansion for Newton's **6MWp/5MWac** facility.

Cont.. Project Background

- Infrastructure connections involve a **10**-kilometer **33/11**kV line to the Waterloo substation and linking to the 161kV Bumbuna line. Aiming to **enhance** renewable energy, **mitigate** emissions, and promote **regional** integration.

Project Location



Purpose of the ESIA Study

- The overall objective of this assignment is to identify and assess the environmental and social **risks** and **impacts** of this proposed project, evaluate alternatives, and design appropriate mitigation, management, and monitoring measures.
- It also involves preparing an **ESIA** and corresponding **ESMP** for the Lungi location in accordance with the **SL-EPA**, World Bank's ESF, the project ESCP, EHS General Guidelines, and Energy/Electricity-specific recommendations.

Cont. ...Purpose of the ESIA Study

- Recommendations of this ESIA will be incorporated into the final project designs, investment decisions and project implementation processes to ensure the sustainable management of the environment during the pre-construction, construction, operation/ maintenance, and decommissioning phases

Policy, Legal, and Institutional Frameworks

The project will comply with national policies and regulations, including the :

- Environmental Protection Agency Act (**2022**): requiring an EIA for construction.
- National Electricity Act (**2011**): defining EDSA's role,
- Customary Land Rights Act (**2022**): protecting land rights,
- Gender Equality Act (**2022**): promoting workplace equality.
- Roads Authority Act (**2010**): setting road RoW

Cont.. Policy, Legal, and Institutional Frameworks

- Renewable Energy Policy (**2016**), and
- Climate Change Policy (**2021**).

Key institutions include:

- MoE,
- MECC,
- EPASL,
- SLRA, and
- Western Area Rural District Council for oversight

Cont.. Environmental Baseline

Water Quality

- All drinking water sources met **WHO guideline** for drinking.

Cont.. Environmental Baseline

Noise

- Noise levels were measured at five locations , averaging **69.88** dB, **exceeding** the IFC daytime guideline of **55** dB except at the proposed PV and BESS site.
- Sources included ***vehicle traffic***, **heavy equipment**, and ***bike riders***

Cont. Environmental Baseline

Air Quality

- Air quality measurements were conducted at **five** sites, focusing on **PM2.5** and **PM10**, **ozone** (O3), **nitrogen dioxide** (NO2), and **sulfur dioxide** (SO2).
- **PM2.5** & **PM10** readings remained **below** the daily average threshold of **25** µg/m³ .

Cont.. Environmental Baseline

Cont.. Air Quality

- Ozone levels were well **below** WHO's recommended limits.
- NO2 values are **below** maximum limits.
- SO2 concentrations were well **below** OSHA's permissible exposure limit.

Cont.. Environmental Baseline

Ecology & Biodiversity

- The solar PV project site **lies** in an agricultural landscape that is minimally used by local communities, adjacent to a **government** agricultural establishment in Newton
- The vegetation of the area includes the following:

Cont.. Environmental Baseline

Cont.. Ecology & Biodiversity

- Forest regrowth – a natural regeneration resulting from primary forest that was cleared a long time ago. Only small patches occur now on the southern section of the site.
- Swamps – soft and wet areas that are covered by water either seasonally or permanently and they occur along both the west to southwest edge and the east to southeastern edge of the site.

Cont.. Environmental Baseline

Cont.. Ecology & Biodiversity

- Farm bush – area that have been cultivated and harvested and temporarily abandoned to allow fallow (i.e. regeneration and nutrient replenishment). This is the most common feature of the vegetation of the site.
- Farmlands – these are areas where active farming is ongoing. The most common crop farmed in the area is groundnut followed by cassava and vegetables.

Cont.. Environmental Baseline

Cont.. Ecology & Biodiversity

- The assessment identified five **mammal** species in the project area through **visual evidence**, **footprints**, or **faecal matter**, with **local farmers** confirming their presence.
- A **sixth** species, the vulnerable **Tree Pangolin** (IUCN Red List), has rarely been observed recently.

Cont.. Environmental Baseline

Cont.. Ecology & Biodiversity

- The survey documented **74 bird species** across **27 avian families** in the project area, including forest-dependent and migratory birds.
- No **threatened** bird species were identified.
- The local **swamps** provide suitable **habitats** for migratory waterbirds.

ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

The following are **impact-generating** activities during the design, planning, construction, operation and maintenance and decommissioning phases of the project:

- Land acquisition for the PV/BESS site
- Site preparation
- Minor excavation and levelling
- Hauling of earth materials and wastes
- Cutting and drilling

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

- Erection of concrete and steel structures
- Road upgrade (if necessary)
- Painting and finishing
- Clean up operations
- Landscaping and afforestation
- Erection of Poles and stringing of lines

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Positive E&S Impacts

- The **RESPITE** project is expected to significantly improve both *human well-being* and the environment.

Below are some of the suggested project activities' possible advantages:

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Cont.. Positive E&S Impacts

- Carbon Emissions Reduction
- Reduced Indoor Pollution
- Preservation of Ambient Environmental Conditions
- Improved Security
- Improved Delivery of Social Services, Health and Education
- Employment Generation
- Improved Livelihoods
- Incentives for Small-Scale Enterprises
- Improvement of Local Skills

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Preconstruction Phase					
Selecting an inappropriate or flawed design	The project/Humans	National	Permanent	Very Likely	Major
Loss of land, Assets and Livelihoods	Humans	Local	Permanent	Very Likely	Minor
SEA/SH Risk	Humans	Local	Long-term	Very Likely	Moderate
The lack of community consultations or limited stakeholder consultations	Humans	Local	Long-term	Unlikely	Major

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Preconstruction Phase					
Risks associated with site mobilization and the transportation of equipment and materials to the site	Humans /Biodiversity	Local	Short-term	Very Likely	Moderate
Inefficiency resulting from the sourcing of construction materials	The project/Humans	National	Long-term	Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Climate	Humans/ Biodiversity	Local	Short term	- Unlikely	Negligible
Ambient Air Quality Deterioration	Humans	Local	Short term	- Very likely	Moderate
Noise Nuisance	Humans /Biodiversity	Local	Short-term	Very Likely	Moderate
Water Contamination	Humans /Biodiversity	Local	short-term	Very Likely	Moderate
Soil contamination	Biodiversity	Local	Long term	- Very Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Pressure on Water Resources	Humans	Local	Short-term	Likely	Minor
Impact on Local Ecology	Biodiversity	Local	Long-term	Very Likely	Moderate
Solid Waste/ Hazardous Generation and Management Issues	Humans/ Biodiversity	Local	Long term	Very Likely	Moderate
Erosion and Loss of Soil Resources	Biodiversity	Local	Long -term	Very Likely	Moderate
Health and Safety Hazards for Workers	Humans	Local	Long -term	Likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Construction Phase					
Community Health and Safety	Humans	Local	Long-term	Very Likely	Moderate
Impact on Cultural/Archaeological Resources	Humans	Local	Short-term	unlikely	Negligible
Tension from unrealistic expectations from communities	The project	Local	Long term	Likely	Major

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Operational Phase					
Waste Generation and Management Issues	Humans/ Biodiversity	Local	Long term	Very Likely	Moderate
Pressure on Water Resources	Humans	Local	Long-term	Likely	Minor
Impact on Local Ecology	Biodiversity	Local	Short term	Very Likely	Moderate
Nuisance noise	Humans/ Biodiversity	Local	Short-term	unlikely	Minor

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Operational Phase					
Ambient Air Pollution	Humans	Local	Short-term	unlikely	Minor
Change in Landscape and Visual Amenity	Humans	Local	Long-term	Likely	Minor
Occupational Health and Safety Issues	Humans	Local	Short-term	Very Likely	Minor
Community Health and Safety Issues	Humans	Local	Short-term	Very Likely	Minor
Emergency Situations	Humans	Local	Short-term	Very likely	Moderate

Cont.. ENVIRONMENTAL & SOCIAL RISKS AND IMPACTS AND MITIGATION MEASURES

Risk & Impact	Receptor	Extent	Duration	Likelihood	Magnitude
Decommissioning Phase					
Occupational Health and Safety Issues	Humans	Local	Short-term	Very Likely	Moderate
Community Health and Safety Issues	Humans	Local	Short-term	Likely	Moderate
Ambient Air Quality Deterioration	Humans	Local	Short-term	Likely	Minor
Noise nuisance	Humans	Local	Short-term	Likely	Minor
Water Contamination	Humans/Biodiversity	Local	Long-term	Likely	Moderate
Waste Generation and Management Issues	Humans/Biodiversity	Local	Long-term	Very Likely	Moderate

Project Alternative

- The "**No Project Alternative**" is deemed **illogical** given Sierra Leone's electricity **demand** and the project's role in enhancing energy access.
- Renewable energy sources, particularly **solar PV** and **BESS**, were **chosen** over conventional methods for their sustainability.
- The solar PV design at Newton focuses on meeting demand with a 30 MW output using modular components for efficiency.

Cont... Project Alternative

- **Mono-facial** crystalline silicon solar panels with a **fixed** tilt were chosen for cost **efficiency** and **reliability**.
- String inverters were preferred for their scalability and ease of maintenance, while the 10° tilt angle optimizes irradiation.
- **Concrete poles were recommended for power transmission due to durability and environmental suitability.**

Cont... Project Alternative

- Transmission routes were **evaluated**, with the proposed line minimizing environmental impacts and resettlement issues.
- Grid integration includes **161kV** switch bays, step-up transformers, and 11kV connections with no adverse impact on energy systems.

Cont... Project Alternative

- The **BESS** design supports energy storage, offsets generator reliance, and ensures safety through advanced cooling and fire protection systems.
- Overall, the project design **focuses** on balancing cost, sustainability, and operational efficiency while addressing environmental and social considerations.

Cont... Project Alternative

- Wood poles present EHS risks like decay and chemical leaching.
- The MV substation and BESS (15 MWh/15 MVA) enhance efficiency and reliability, storing excess solar energy and reducing generator reliance during peaks.
- Safety measures, including fire protection and hazardous gas controls, ensure operational security.

Community Development Action Plan (CDAP)

CDAP Implementation Arrangement

Proposed Membership of the Community Development

Management Committee include:

- The Western Area Rural District Council
- Community Headmen
- Councillors
- Religious leaders (Christian/Muslim)
- Leaders of the youth groups
- Women's leader
- A representative of the tribal groups

Community Development Action Plan (CDAP)

CDAP Budget

PROJECT	RESOURCES/DESCRIPTION					BUDGET (USD)	RESPONSIBILITY	TIMELINE
Support to Community electrification	Provision of transformers		Provision of Poles accessories		Provision of Conductors	(Estimated cost for supply of Poles, Transformers, and accessories)		Estimated timeline
Kattu Town	2 X 250 KVA Transformer	50 X 11kV Poles	125 X 11kV Poles	3km 5km		\$112,294.56	EDSA/MoE	5-8 months
Kpoubu	2 X 250 KVA Transformer	50 X 11kV Poles	125 X 11kV Poles	3km 5km		\$112,294.56	EDSA/MoE	5-8 months
Magbafti	2 X 250 KVA Transformer	50 X 11kV Poles	125 X 11kV Poles	3km 5km		\$112,294.56	EDSA/MoE	5-8 months
Subtotal Cost						\$336,883.68		

Community Development Action Plan (CDAP)

CDAP Budget

PROJECT	RESOURCES/DESCRIPTION			BUDGET (USD)	RESPONSIBILITY	TIMELINE
Access Road Rehabilitation	Rehabilitation of Culverts X 3 and other materials	Hiring of 3 Excavator machinery	Provision of Fuel for the Road upgrade	\$20,543.24	EDSA/MoE	1-3 Month
Sub total				\$20,543.24		
Support for Newton Magbafti Health Center	GBV (SEA/SH) response support will be given to survivors/victims in the Project communities			\$20,000.00	EDSA/MoH	1-2 Months
Subtotal Cost				\$20,000.00		

Community Development Action Plan (CDAP)

CDAP Budget

PROJECT	RESOURCES/DESCRIPTION			BUDGET (USD)	RESPONSIBILITY	TIMELINE
Support to GBV Response in project communities in Newton (Kattu Town, Magbafti and Kpoubu)	GBV Campaigns and awareness raising.			Detailed budget to be worked out in the GBV/SEA/SH Prevention and Response Action Plan.	EDSA/MoE/GoSL	Through out the Project Life Cycle.
	Multi Sectorial GBV Response (Health, Psychosocial, Safety /security and Legal)					
Subtotal cost (USD)						
GRAND TOTAL				\$377,426.92		



Thank You!

**Public Disclosure of ESIA for the
Construction of a 39 MWp (30 MWac)
Solar PV Facility in Newton, Western
Area Rural District of Sierra Leone**

**ESIA Solar PV Facility in Lungi,
Port Loko District**

Presented by

John Moanah

Social Baseline

- The socio-economic baseline study **highlights** the existing **social** and **economic** conditions in the project area, forming the basis for evaluating the proposed project's potential impacts.
- Key findings focus on **demographic**, **economic**, and community insights essential for **impact assessment**.

Cont... Social Baseline

The project area comprises **three** communities:

- Kattu Town (population **3,100**),
- Kpoubu (**2,200**), and
- Magbafti (**800**).

Homes are constructed with **cement** blocks or **burnt** bricks, corrugated **metal** or **aluminium** roofs, and **mud** or **concrete** floors, with each unit housing a **single** household.

Cont... Social Baseline

Livelihood

- Agriculture **plays** a vital role in Newton's economy, involving a large segment of the population and supporting diverse **crop cultivation** through traditional methods.
- Additionally, small-scale businesses, micro-enterprises, and trading activities provide employment and contribute to the local economy

Cont... Social Baseline

Healthcare

- Newton faces healthcare challenges, particularly with the **CHP** struggling to meet the community's needs due to limited resources.
- While serving as a primary healthcare facility, the CHP lacks **essential medical equipment**, supplies, and adequate bed capacity.
- This leads those who can afford it to rely on more **costly** private clinics, creating accessibility challenges for most of the population.

Cont... Social Baseline

Drinking water

- Access to safe drinking water primarily comes from **improved** sources like **hand pump** wells.
- significant number of households still rely on **unimproved** sources like **streams** and **rivers**, which pose a higher risk of contamination and waterborne diseases

Cont... Social Baseline

Waste

- **Household-generated** waste is primarily disposed of through **burning** and **composting**.
- However, burning, while common, is not **environmentally** friendly.
- The **ESMP** outlines a proper waste **disposal** method for the project.

Cont... Social Baseline

Archaeological or cultural sites

- No significant **archaeological or cultural** sites were found at the proposed project site,.
- **ESMP** includes measures to appropriately handle any chance discoveries during the construction phase.

Cont... Social Baseline

Vulnerability

- Special attention and support are **crucial** for vulnerable groups in the project area, **including women, children**, the **elderly**, people with **disabilities**, and **marginalized** communities.
- Gender-related disparities impact women, making empowerment and equal opportunities vital for socio-economic development.
- Addressing disparities, ensuring access to education and healthcare, promoting social inclusion for those with disabilities, and empowering marginalized communities are essential considerations in project planning and implementation.

Stakeholders' Participation and Consultation

- Stakeholders for the project were **notified** through **letters**, **SMS**, or **calls**, with brief project details and consultant contact information for further inquiries.
- Consultations occurred between **November 2022** and **May 2023**, with stakeholders coordinating meeting venues.

Cont.. Stakeholders' Participation and Consultation

- Meetings followed a **structured agenda**, introducing the project, discussing **environmental** and **social impacts**, presenting mitigation measures, and explaining the grievance mechanism while allowing stakeholders to provide feedback and raise concerns.

These are a summary of the general concerns and actions points from the consultations:

Cont.. Stakeholders' Participation and Consultation

- Local community residents in the proposed project area are **excited** about the project and **committed** to support it while expressing the **urgent** need for electricity from the existing **6MW** solar plant. They lamented that while the RESPITE project is significant and timely, the existing 6MW plant should be commissioned and start distributing electricity to their homes. They expressed a dire need for electricity in their communities.

Cont.. Stakeholders' Participation and Consultation

- Women are **happy** about the proposed project. They are **resolute** to be part of the project, express their views in decision-making. They expressed **firm** desire to be given **employment opportunities** by the project. They strongly **opposed** to gender discrimination in terms of employment and other forms of abuse.

Cont.. Stakeholders' Participation and Consultation

- Local community leaders **committed** to popularizing the project to residents in their respective communities for better **understanding** of same.
- All aimed at raising **awareness**, increase **acceptance**, and **promote peace** and **stability**.

Cont.. Stakeholders' Participation and Consultation

- Youth representatives **requested** for employment opportunities for **local** community residents especially for youth. They committed to ensuring a safe space for the project and its migrant workers and to channel future grievances using the right channels.
- That community residents should be **trained** and employed

Cont.. Stakeholders' Participation and Consultation

- That the **laws**, **customs**, and **traditions** of the area should be **respected** by the project team and workers.
- The Newton Health Post faces **challenges** including **limited electricity**, **inadequate beds**, and **supplies**, appealing for project support and **free** electricity

Cont.. Stakeholders' Participation and Consultation

- The Motor Bike Riders Union urged road **rehabilitation** before construction, praised **previous** safety efforts, and committed to road safety adherence.
- Local schools **highlighted** road safety importance, **praised** police traffic control, and noted **zero** child accidents during the previous 6MW project.



Thank You!

Annex iii: Attendance List: Lungi

EDSA
Electricity Distribution and Supply Authority

HEAD OFFICE
P.O. Box 10000
Nairobi, Kenya
Republic of Kenya, East Africa

Electricity Distribution and Supply Authority













THE WORLD BANK
ATTENDANCE














Date: 18.5.13-24

Activity: Public Disclosure Workshop on the ESIA - Lungi














18.5.13-24














NO	NAME	GENDER	DESIGNATION	INSTITUTION/COMMUNITY	TELEPHONE NUMBER	SIGNATURE
1	Chief Mwangi Peter Topa	M	Chief	Rong'u A	076 681023	AK
2	Mthanyu M. Kuma	F	Nanny Queen	Orkney Bona	072169546	Kuma
3	M. Kompassa Kuma	F	Chief	11	088444830	Kuma
4	M. Healele Lontela	M	Town Clerk	11	080206490	M. Healele
5	M. Kumbalei Lontela	M	Town Clerk	Sahigieya	079227259	M. Kumbalei
6	M. Today Bai Kuma	M	Woodman	Koyinaya	099754584	M. Today
7	M. Samuel Mwangi Kuma	M	Spots leader	Koininga	076572966	M. Samuel

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
8	Melend Silah	F	Mayor Pres	Quonel Bana	088 1215 46	
9	Melamed Cantel	M	Yacht leader	Quangier	030 852 78	Mel
10	Morai Komara	M	Shareholder	Torion Village	030 246 6109	
11	Malimongul Komara	F	Land holder	Quana Bana	030 0707 79	
12	Peter Y. Komara	M	Shareholder	Torion Village	088 216 751	
13	Pattapattil Komara	M	Chief	Korapay	099 710 720	
14	Matefu Komara	M	Elder	Kolayya	U —	
15	Councilor Bana Bana	M	Councilor	Banodina	078 884 802	
16	Fathma H. Dampina	F	Womens leader	Branch Irawo	088-306 948	
17	Krawia van Tokang	M	Longi Govi. Head	Longi Govi. Head. Hasep. 2nd.	079 798 325	
18	Kainday Sasay	M	Environmental Officer	EPA-SL	099 055 857	
19	Huma Suma	F	Womens leader	Kolayya Village	030 355 761	
20	Mr. M H Komara	M	Land holding	Masorla town	088 12 44 74	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
21	Maligie T. Hammer	M	Paul & family Economic family	Interrel Rama	088 521012 028 203853	
22	Philip T. Sarath	M	Councillor	Polifun K	030894522	
23	Sane Sillala	M	Head Man	Banga Village	088794305	
24	Shebura-Y. Murie	M	Health leader	Masogila	0772684443	
25	Mipada Kongura	F	Women's leader	Banga Village	—	
26	Paul Alice Qumbura	M	Metal works	Sidic / Lungi	030-72044	
27	Major Osmat Kintu	M	Operations officer	RSLAF	05410554	
28	Corporal Mollard Boga	M	Clarks	RSLAF	077 620830	
29	Mohamed Shauhan	M	Youth leader	Kobingya	077246771	
30	Mohamed Toravalle	M	Team Chief	Kobingya Village	030189995	
31	Kau Kavana	M	Team Chief	—	079082695	
32	Y Bora Borsel W. Kama	F	Women leader	Koimaya Village	099945661	
33	Ahmed Kavana	M	Headman	Karapay	030398363	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
34	Koyei Conteh	F	klowers leader	Karegay	—	—
35	Laminu Karama-Jalloh	M	GRC member	Gbrahah Kama	030719769	Wassu
36	Mohamed Davis Kany	M	Chairman Land owner	Karsoifhen	077-419-770	Wassu
37	David Yansack	M	Youth leader	Baye Village	077-445118	Wassu
38	Aruna Ghandi	M	Technician	E.D.S.A	077-765220	Wassu
39	Joseph A. Kone	M	Technician	E.D.S.A	088704675	Wassu
40	Debra Abdelai Kama	M	GRM	GRM member	076 915023	Wassu
41	Pa Alimamy S. Kama	M	Section chief	Section Chief	072 451416	Wassu
42	Pa Alimamy S. Dumbay	M	Chief	Chief	076529819	Wassu
43	Hon. Rai. Abraham Day Jone	M	Chairman	Family Legal Minister	076-265364	Wassu
44	Jag. Ibrahim T. Dumbay	M	Station Engineer	E.D.S.A	075734736	Wassu
45	Edward L. Williams	M	Station Chief	Kajm Sultan Ghan	078697024	Wassu
46	Solga Komara	M	Port Hubs off	Journalist GSO quest	076 985363	Wassu

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
49	Musire Amukya	M.	Youth leader	Glover - Bona	033356003	
48	Emmanuel Smart	M.	Electrician	EDSA	078131058	
47	Mamad S. Sekey	M.	Electrician	EDSA	03042664	
50	Emmanuel Sekey	F	Electrician	EDSA	078461240	
51	Solomon George	M	D/Director	EPA - SC	075986027	
52	Mohamed S. Karam	M	Sec. Gen.	C.S.O. Bus Salome	088-041903	
53	Aliu Aliu Sekey	M	Chief Imam	Kasongha Town	076-879376	
54	Cecilia - F. Sekey	F	Community & Social Officer	PLD C	0761755249	
55	Sister Teyn Sacedi	M	Chairman	Port Loko District Council	09504468	
56	Pa Santigie Doffing Sekey	M.	Chief (from chief)	Kambia Airport	090-429415	
57	James Moadi	M	ESIA Consultant	MONTAGNA Co. LTD	076641545	
58	John Nomica	M	ESIA Consultant	MONTAGNA Co. LTD	078876260	
59	Maurice D. Kanyo	F	Reader Officer	EDSA	079635385	














NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
60	Rashidu S. inah	M	Social Riser ^{Sebagu}	ESDA	076 825 8642	
61	Kigala P. Koma	M	GB Specialist	ESDA/RESPIRE	076 644432	
62	Joseph Cole	M	Env. Specialist	RESPIRE /ESDA	076-825 909	
63	EDWARDS ANETH	M	VEHICLE DRIVER	ESDA	031494000	
64	Georgiana Sebay	F	Asst PGO	ESDA	079780913	
65	Torahim-M. Komara	M	Dis. R. Officer	Respiratory	030 661821	
66	Mariama Davies Komara	F	Land Officer	"	—	
67	Fahma Sankoh	F	Shoe Maker	Respiratory	—	
68	Malama Sausanah	F	Chairman	Respiratory	030 600561	
69	Fredrick Musa	M	PRD	lungi Airport	088 925 883	
70	Muhammad T. Komara	M	Manager	SLGS lungi	076 821045	
71	Alimammy Sebay	M	Chairman	Respiratory	076 412884	
72	Ala Harethe S. Condeh	M	Chief	Respiratory	088 174332	














NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
73	Thabalin Tuvay	M	Yacht leader	Joera Village	016601888	IT
74	Mamadu M. Kamara	M	Shareholder	Kolounga	0808224163	24
75	Yehampesseli Karama	F	Chief	Karoufary	0846123496	EB
76	Lamin Sesay	M	Shareholder	Kuyinaura	09905744	2809
77	Kajia Maruana Kure	F	Shareholder	Mastoula	04668809	7709
78	Hauca Tawadire	F	Shareholder	Kuboya Village	099881015	Hou
79	Ya Bon Roseli T. Karama	F	Chief	Sahigreja	04658339	EB
80	Pa Huiemmy S. Sesay	M	Chief	Cheauk Bana	08810512	1409
81	Sahr D. Nefer	M	Comm.	ED878	—	87













Annex iv: Attendance List – Newton

NO	NAME	GENDER	DESIGNATION	INSTITUTION/COMMUNITY	TELEPHONE NUMBER	SIGNATURE
1	Alpha D. Kamara	M	Head Master	Magbaghi	07905009	Alpha
2	Alpha Mansaray	M	Sec. Gen	11	088960784	Alpha
3	Amiraka Mansaray	F	Quartermaster	Kahru Town	080908678	Amir
4	Yashu Seay	F	Quartermaster 2	Kahru Town	—	Yashu
5	Hyges Kromma	F	Maternity	Kepoken	—	Hyges
6	Mipael Coker	M	Society Man	Kahru Town	08863866	Mipael
7	Sahrir Johnson	M	Senior Manager	Waterloo	099449419	Sahrir














THE WORLD BANK
ATTENDANCE
Activity: Public Disclosure Workshop On the ESIA - Newton
Date: 6th/12/24

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
8	Alimamy Tallata	M	Sedon Chief	Kpouba	09137135	
9	Mohamed Isah	M	Chief Imam	Kalpa Town	09868534	
10	Sheik Ibrahim Bala	M	Chief Imam	Magbafu	—	
11	Ahmed S. Fomah.	M	Sec'l Dispute Committee	Magbafu	088 593608	
12	Sone Rumbuya	M	Disale	—	094031502	
13	Musa Kamara	M	Youth leader	Kpouba	030 922268	
14	Fachuda Bangura	F	Women's leader	Magbafu	032 258113	
15	Hawa Kamara	F	Civil society	—	09952863	
16	Kaalluel Bangura	F	CFRM member	Kalpa Town	08012480	
17	Isatu Barleya	F	Disale	Koti town	074028443	
18	Samuel Hinga	M	Script M	Kpouba	016153358	
19	Mamuna Kamara	F	Disale	Makelno	—	
20	Fetena Coufeli	F	CFRM	Kpouba	095183694	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
21	Kadiaka Turay	F	Measas leader	Kapokobu	030062180	
22	Isatu Turay	F	YOUTH	SIAG	08268699	
23	Emmanuel Mboya	M	Reverend	Kotaku Town	079149855	
24	Elu Alieu A. Levan	M	Dea	Magbafi	077-012355	
25	Ch. Sek. Molewal Kanne	M	Principal	Five Mile	077936001	
26	Pe. Mani Kai	M	Police	Waterloo Division	080258685	
27	Mstamed S. Koneh	M	Forunt	Magbafi. Brand	084425783	
28	Jusu Leblie	M	Teacher	Katu Town	039065798	
29	Abuut H. Jones	M	Business	Katu Town	088958171	
30	Prima Kamara	M	19 - M	Katu Town	032821721	
31	Alpha Mansaray	M	YOUTH LEADER	Magbafi	079860852	
32	Muamed Tallola	M	H M	Magbafi	086482844	
33	Hadiatu Kamara	F	Mama Queen	Magbafi	0578393614	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
34	Mossam Benda	M	Town Clerk	Kiprulu	07382146	
35	Joseph Campbell	M	Headman pastor	Kiprulu	488559890	JK
36	Mysterious Sopora	M	Farmer	Kipulu	030200747	
37	Muhammad K. Karama	M	Disablc	Kipulu	088748852	
38	Habib Sessay	M	Stakeholder	Fomile	076496500	
*39	Retty Gaudker	F	CHD	Fogbo CHD	076643041	
*40	SP. Arslan S. Gamba	M	Stakeholder	Kipulu	0873069090	
41	Fahradal Bourgu	F	DAB	M/LA	0300235569	
42	Kais Karama	F	Secretary Woman	Mogorahi	—	
43	Yaba Karama	F	Young Woman	Kipulu	—	
44	Fahradal Bourgu	F	Woman's leader	Kipulu Town	030229644	
45	Momela K. Coustela	M	Chairman	Kipulu town	0304337152	
46	Muhammad Sessay	M	Youth leader	Kipulu Town	—	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
X	Isaka Korema	F	Chairman	555 Centre	077847474	
X	Hassan E. Conteh	M	Headman	Kproun	078327226	
X	John S. Morad	M	Consultant	Mokapeur and Co	88896266	
X	Solomon George	M	Director	EPK-SC	095386023	
X	Kainday	M	EPK Office	EPK-SC		
	James Njorah	M	ESIA Consultant	Mokapeur Co. Ltd	076641546	
	Mohamed Elka	M	Chairman	Kproun	---	
	Baba Sesay	M	Chairman	Mogofifi	07734568	
	Alpha-D. Naurora	M	Secretary	Mogofifi	080884022	
	Gerajona Sesay	F	ASST PEO	ESIA	079780913	
	Foday Siuwa	M	Chairman	Mogofifi	077291172	
	SAMM M. JAMES	M	Field Enumerator	MAF	680483827	
	Deidra Elba	F	Elder	Kproun	---	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
60	John L. Sessay	M	YOUTH leader	Four Mile	099621885	
61	Rashida Simba	M	Safeguard specialist	EDSIA	076768642	
62	Patrick Z. Koukai	M	Chairman	LMAD C	080322746	
63	Paul Jusu	M	ZUC	SLP Matoroda	079695885	
64	Augustine M. Douro	M	Environment Officer	LMAD C	079806714	
65	Josephine Changa	M	MP rep	Nelson	098825606	
66	Josephine Karama	M	Section Chief	Mogofhi	033428169	
67	Kupala P. Karama	M	GBL Specialist	EDSIA/RESPIRE	076641482	
68	Nancyi. Karama	F	Mummy Buren	Four Mile	-	
69	John L. Carfela	M	Youth leader 2	Four Mile	030600182	
70	Lamin Sessay	M	Gravelolder	Mogofhi	-	
71	Mkaji Karama	M	Elder	Kipandu	-	
72	Bandige Karama	M	Chairman	Moderato	077725881	

NO	NAME	GENDER	DESIGNATION	INSTITUTION	TELEPHONE NUMBER	SIGNATURE
73	Mariam Y. Karama	F	Assistant	Mohelso	—	Mar
74	Musne Turay	M	Spokesholder	Four Mile	8648213	Mar
75	Mariah Sogay	F	Charitable Mktg	Four Mile	—	Mar
76	Yael A. Karama	F	Home Leader	Mogloah	—	Mar
77	Mohamed Sam	M	Elder	Kproun	—	Mar
78	Sahr D. Neper	M	Comm. Mktg	ESDA	—	Mar
79	Joseph Cole	M	Env. Specialist	RESPIRE/ESDA	—	Mar

Annex v: Photo Gallery





















