Webinar

Developing Mini-grids to IFC Environmental & Social Performance Standards

Session 1

3 December 2018





Agenda

- 1 Welcome and introduction to AMDA
- 2 Introduction to REPP
- **3** Overview of IFC Performance Standards
- 4 Key Impacts of Minigrids
- 5 Establishing E&S Management systems
- 6 Questions & Answers

African Mini-Grid Developers Association



REPP Renewable Energy Performance Platform

Objectives

Mobilise private sector investment in renewable energy in Sub-Saharan Africa.

Addressing early-stage barriers to project development.

Focus on small to medium-sized renewable energy projects (on and off grid).

REPP Products

Development assistance funding, technical and financial advisory.

Facilitating access to risk mitigation instruments and finance provided by REPP partners.

Gap financing (e.g. bridge construction finance).

REPP is managed by Camco Clean Energy





For more information visit: https://repp.energy



Overview of IFC Performance Standards

Laura Lahti Impact Manager Camco Clean Energy

Why IFC is Required?

The IFC Performance Standards (PS) helps to improve the environmental and social performance of a project through an outcomes-based approach.

It also provides a solid foundation from which project developers may increase the sustainability and productivity of their operation.

IFC Performance Standards provide international benchmark for identifying and managing environmental and social risk.

REPP, among other Development Financing Institutions and investors, require IFC PS compliance from project developers receiving funding to guarantee environmental and social integrity of the projects.



Overview of the IFC Standards



Overview of the supporting materials

Guidance Notes



International Finance Corporation's Guidance Notes: **Performance Standards on Environmental** and Social Sustainability

EHS Guidelines

Environmental, Health, and Safety (EHS) Guidelines GENERAL EHS GUIDELINES: INTRODUCTION

Environmental, Health, and Safety **General Guidelines**

Introduction

The Environmental, Health, and Safety (EHS) Guidelines are technical reference documents with general and industry-specific examples of Good International Industry Practice (GIIP)1. When one or more members of the World Bank Group are involved in a project, these EHS Guidelines are applied as required by their respective policies and standards. These General EHS Guidelines are designed to be used together with the relevant Industry Sector EHS Guidelines which provide guidance to users on EHS issues in specific industry sectors. For complex projects, use of multiple industry-sector guidelines may be necessary. A complete list of industry-sector guidelines can be found at: www.ifc.org/ifcext/enviro.nsf/Content/EnvironmentalGuidelines

The EHS Guidelines contain the performance levels and measures that are generally considered to be achievable in new facilities by existing technology at reasonable costs. Application of the EHS Guidelines to existing facilities may involve the establishment of site-specific targets, with an appropriate timetable for achieving them. The applicability of the EHS Guidelines should be tailored to the hazards and risks established for each project on the basis of the results of an environmental assessment² in which site-specific variables, such as host country context, assimilative capacity of the environment, and other project factors, are taken into account. The applicability of specific technical recommendations should be

1 Defined as the exercise of professional skill, diligence, prudence and foresight that would be reasonably expected from skilled and experienced professionals engaged in the same type of undertaking under the same or similar droumstances globally. The droumstances that skilled and experienced professionals may find when evaluating the range of pollution prevention and control techniques available to a project may include, but are not limited to vanying levels of environmental degradution and environmental assimilative capacity as well as vanying levels of financia and befinical feasibility. mand a and redmical leasonly. 3 ExcIEC, such as assessed is carded out consistent with Dedom soon Standard 3 and for the World Bank, with Operational Policy 4.01.

APRIL 30. 2007



based on the professional opinion of qualified and experienced

measures than those provided in these EHS Guidelines are

appropriate, in view of specific project circumstances, a full and

persons. When host country regulations differ from the levels and

measures presented in the EHS Guidelines, projects are expected to

achieve whichever is more stringent. If less stringent levels or

detailed justification for any proposed alternatives is needed as part of

the site-specific environmental assessment. This justification should

demonstrate that the choice for any alternate performance levels is

protective of human health and the environment.

The General EHS Guidelines are organized as follows

IFC Good Practice Materials



OTFC

January 1, 2012

KEY CONSIDERATIONS FOR MINI GRIDS

IBIS

Webinar series: Developing Mini Grids to IFC Performance Standards

December 2018

IBIS: WHO ARE WE?

HELPING WORLD-LEADING ORGANISATIONS CREATE VALUE AND INVEST RESPONSIBLY

IBIS is a premier emerging market sustainability consultancy that helps unlock value and improve the environmental and social performance of its clients. IBIS was established in 2015 by some of the most experienced and respected sustainability consultants in Africa primarily to support DFIs, Private Equity, Asset Managers and Impact Investors.

AWARD WINNING ESG ADVISOR

2018 Africa Global Funds (US) Independent Advisory Firm of the Year 2018 Global Law Advisors (UK) Selected ESG Advisor for South Africa and Kenya

2018 Finance Monthly (UK) **Due Diligence Advisor of the Year** 2018 Finance Monthly (UK) **Game Changer of the Year**





MINI GRID CHALLENGES: Development in line with IFC Performance Standards

Simi Vijay Photography©/for the World Bank

PS 1 sets the framework for **initial and ongoing risk management** through the entire lifecycle of a Project through establishment of an **ESMS**, identification of **risks and impacts**, **management programmes**, ensuring that the Project organisation has **sufficient capacity** and competency to address the identified risks, has an **ongoing monitoring and review** programme and has engaged project affected persons and interested parties through **stakeholder engagement activities**.

Points to consider under PS1:

- Development of overarching E&S policy and ESMS
- Identification of E&S impacts and opportunities across the lifecycle of the Project
- Initial stakeholder engagement and over lifecycle of Project
- Ongoing E&S monitoring and review of impacts and opportunities







PS 2 recognises that the **workforce is a valuable asset** for any business and that a sound worker management relationship, through the protection of **fundamental rights of workers**, is key to the sustainability of a company/Project

In the supply chain: Lithium ion used for battery power storage – cobalt is an essential input in these batteries

MOBILE POWER, HUMAN TOLL THE COBALT PIPELINE



Points to consider under PS2:

- Approach to recruitment Employment Policy
- Employee Grievance Mechanism
- · Management of occupational health and safety: Working with electricity and at height
- Working Conditions and Supply chain: Cobalt key component of Lithium ion batteries which is primarily mined in DR Congo – known cases of human rights violations and child labour.







PS 3 outlines a **Project level approach** to resource efficiency and pollution prevention and control; where Projects may generate **increased levels of pollution** to air, water and land and consume finite resources

Points to consider under PS3

- Minimal risks: project footprint generally small and negligible air emissions and waste effluent during construction and operation.
- Management of hazardous waste is key
- Municipal waste goes to landfill opportunities for circular economy approach to waste management.









PS 4 recognises that **Project activities**, equipment and infrastructure can **increase community risks and impacts**. It is the **Project's responsibility** to avoid or minimise the risks and impacts to community health, safety and security of the Public

Points to consider under PS4:

- Use of public/private security code of conduct
- External grievance and complaints mechanism
- Quality of installation and ongoing maintenance education and training programmes
- Community liaison officer 'middle man' role











Project related land acquisition and restrictions on land use can have **adverse impacts** on communities and persons that use the land. Refers to both **physical displacement** and **economic displacement**

Points to consider under PS5:

- Potential for land conflict as mini grids become more popular.
- Minimal impact if site selection process has been undertaken correctly: based on distance from the central grid and the potential load size, avoidance of agricultural land and occupied land.











Protecting and conserving biodiversity, maintaining ecosystem services and sustainably managing living natural resources are fundamental to sustainable development. PS6 addresses how Projects can sustainably manage and mitigate the impacts on biodiversity and ecosystem services throughout the Project lifecycle

Points to consider under PS6:

- Minimal impact if site selection has been undertaken sufficiently to avoid natural and critical habitats
- Stakeholder engagement activities to understand the value of ecosystem services, if any, to avoid.







IFC PS 7 recognises that Indigenous Peoples, as a social group, are **distinct from mainstream** groups in **national societies** and are often among the most **vulnerable and marginalised** segments of population. IPs may be more vulnerable to adverse impacts associated with Project development than non IP communities; **through loss of identity**, **culture and natural resource based livelihoods**.

Points to consider under PS7:

- Mini grid projects rarely interact with IPs so negligible impacts.
- Free, Prior and Informed Consent for Indigenous People where land in the Traditional Ownership Structure or Customary Use is involved.

Indigenous People





IFC PS 8 recognises the importance of cultural heritage for current and future generations.

Points to consider under PS8:

• Negligible impacts if site selection process has been undertaken to avoid sites of cultural heritage, informed by stakeholder engagement activities.







CLIENT PROTECTION PRINCIPLES

Appropriate product design and delivery: Tailor made solutions to meet individual customer needs (Pre-paid, Post-paid, smart meters). Prevention of aggressive sales techniques.

Prevention of over-indebtedness: Customer screening. Ability to pay a deposit for the power system. Flexible payment plans

Transparency: A sale pitch that includes the product terms, condition and pricing. Ensuring that the sales personnel have adequate training to ensure customers understand the product options and pricing. Using language that customers can understand.

Responsible pricing: If the target market is lower income households then affordable rates will need to be considered.

Fair and respectful treatment of clients: Documented in employee handbook, included in training of employees and sales team, procedures for engaging with default customers, temper-proof stickers to prevent fraud. They will not discriminate.

Privacy of client data: Customer data captured during the registration as well as payment behaviour is kept confidential and secure.

Mechanisms for complaint resolution: Customer satisfaction surveys, customer complaints toll free number. Informing customers about these reporting channels during the registration process.





SUMMARY





THANK YOU

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Establishing E&S Management System (part 1)

Laura Lahti Impact Manager Camco Clean Energy

REPP Template ESMS Guidance for Micro-Grid Projects seeking REPP Support

Standard	IFC PS 3: Resource Efficiency and Pollution Prevention
ltem	Pollution prevention: Wastes, hazardous materials and pesticide use and management
Description	• Avoid or minimize the release of pollutants and/or control the intensity and mass flow of their release
Guidance	 The developer needs to prepare and implement a waste management plan for the project, including actions for the appropriate handling and recycling or disposal of e.g. back-up batteries and solar panels at the end of their life and the minimization and appropriate management of construction waste. In the ESIA report, the E&S consultant should identify potential sources of waste, assess the associated risks and impacts. The E&S management plan should then recommend measures to avoid, minimise and appropriately handle it and to monitor the performance of these measures (in the E&S monitoring plan). <u>Checklist:</u> Are fuel and other hazardous materials securely stored above flood level and at least 20 m from any waterbody, watercourse, canal or storage pond? Is construction waste disposed of in a manner which minimize pollution? In case of solar PV projects, are the developers' policies on maintaining of batteries and solar panels, and their disposal at the end of their life satisfactory? Consider Extended Producer Responsibility, whereby the used materials are reabsorbed by the manufacturer, thereby reducing the mining of raw materials
Waste Management	[Establish Waste management Plan and Recycling Plan incl. required actions, roles and responsibilities. Include here.]
Plan	

General Structure

Environmental and Social Management System



General Structure

Environmental and Social Management System



Most important elements of ESMS for mini-grids!

Policy (IFC PS1) Environmental and Social Management System

Provide the rules you expect your employees to follow and the public statement you make about what your company believes in and how it conducts business.



Establish overarching policy defining the environmental and social objectives and principles that guide the Project(s).

Remember to consider responsibilities for its execution.

Key considerations:

- Environmental laws and regulations;
- Labour and Working Conditions;
- Community Health and Safety;
- Specify that the Project(s) will comply with the applicable laws and regulations.

Organizational capacity and competency (IFC PS1)

Environmental and Social Management System



Clear communication is the key!

Establish and maintain an **organizational structure** that defines roles, responsibilities and authority to implement the ESMS and designates specific personnel with sufficient skills, knowledge and resources.

Consider who, what, when and how?

Consider **different levels of engagement**: senior management, ESMS team, Workers and Managers, procurement and their relative training needs.

The developer must **designate a position** within the company that will oversee the management and mitigation of each E&S risk.

Use **organizational diagram** to better understand the reporting lines and designation of responsibilities in each role.

Ensure relevant **training**: (1) raise awareness; (2) gain commitment; and (3) provide people the knowledge and skills they need to implement the ESMS.

Stakeholders

Are those who will be or are likely to be directly or indirectly affected, positively or negatively, by a project (commonly referred to as project-affected people or project-affected communities), as well as those who might have an interest in, or may influence, the project.

- Customers
- Villagers
- Village councils
- National and local authorities



Stakeholder Engagement (IFC PS1)

Environmental and Social Management System





- Mitigate risk
- Manage expectations
- Establish support

Source: Mott Macdonald

1. Plan Stakeholder Engagement



- Who will be adversely affected?Which stakeholders might help to enhance the project?
- Who would oppose and why?
- Who is critical to engage first?

PROJECT DESIGN AND PLANNING

1. Plan Stakeholder Engagement

- Purpose and scale
- Duration
- Risk and impacts and relevant mitigation measures
- Envisaged stakeholder engagement process incl. grievance mechanism

Stakeholder analysis and planning Disclosure and dissemination of information

PROJECT DESIGN AND PLANNING

2. Engage Stakeholder Engagement



2. Engage Stakeholder Engagement



Stakeholder Engagement Plan

Good practice considerations for Stakeholder Consultation



- When and where?
- Who attended?
- Topics and themes discussed?
- What were the results?

Customer Checklist

As part of Stakeholder Engagement

Before any contract is signed:

Are the services provided by the micro-grid clearly explained before any contract is signed? Is the tariff and the tariff structure clearly understood by the customer?

Before their house is connected to the grid:

Have customers received advice on health and safety? Has use of electricity in a safe manner been explained to customers?

Once the house is connected:

Do customers have an easy way to ask a question or complain if the system is defective or not performing to their expectations (grievance mechanism)?



For customers, it is important that the developer follows a stringent customer engagement process.

Thank you!

For more information, please contact:

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