

**Providencia Solar (BESS Project) – El Salvador
Environmental and Social Action Plan (o ESAP)**

No.	Aspect	Action	Deliverable	Delivery date
PS 1: Assessment and Management of Environmental and Social Risks and Impacts				
1.1	Policy	1. Implement the integrated environmental, social, health and safety (“ESHS”) policy.	1. Evidence of implementation	1. Before the first disbursement of the BESS Loan.
1.2	Identification of Risks and Impacts	1. Prepare and implement an Integrated Risk Assessment procedure that covers environmental, OHS, working, and local community conditions. 2. Prepare an environmental, social, and OHS risk matrix for the construction of the BESS Project and for the operation phase of both the BESS and Solar PV.	1. Integrated Risk Assessment procedure. 2. Evidence of implementation 3. Risk Matrix for the construction of the BESS Project 4. Risk Matrix for the operation of the BESS Project and the PV Plant	1-4 Before the first disbursement of the BESS loan.
1.3	Organizational Capacity and Competency	1. Appoint an ESHS managing team at the corporate level (Providencia) to oversee ESHS aspects of the Solar PV Plant and the BESS. 2. Appoint a social liaison officer at a Project level.	1. Evidence of appointment or hiring an ESHS team. 2. Evidence of the appointment of social liaison.	1 Before the first disbursement of the BESS loan.
1.4	Emergency Preparedness and Response	1. Update and implement the Plant’s Emergency Preparedness and Response Plan (“EPRP”) to include a section on BESS emergency preparedness which shall incorporate: i) the automatic and manual detection of gases; ii) ventilation practices to be applied; iii) most common fire extinguishing methods; iv) information to gather before entry to the facility; and v) procedures to be followed outside the BESS containers. 2. Develop and implement a training program for the BESS system operators during fire suppression system discharge on real and nuisance (non-fire) alarm situations. 3. Develop and implement a maintenance plan for the Life and Fire Safety (“L&FS”) systems, which includes procedures for the continuous improvement of such systems.	1. Updated EPRP 2. Training Program 3. Maintenance Plan for the L&F Systems 4. Evidence of Plan for the L&F Systems implementation	1-3 Before the second disbursement of the BESS loan. 4. Annual Supervision Reports to IDB Invest.
1.5	Monitoring and Review	1. Prepare and implement an environmental, social, labor, and OHS risk monitoring procedure, to include, at least: i) ESHS reporting for water source and consumption; ii) fauna relocation activities; iii) flora and revegetation status; iv) waste management (generation, storage and disposal); v) monitoring the septic tanks; vi) monitoring of the oil-water separators status; v) herbicide management; vi) workers’ H&S and E&S training; vii) security; viii) reports on emergency drills carried out; and ix) local and women workforce. 2. Prepare a matrix with key performance indicators on environmental, occupational health and safety, and social issues to track compliance on a) Safety - Lost Time Incident Frequency Rate; Lost days per million hours worked (LTISR); accident-free days (number of days since last lost time incident); b) sustainability: water use (m³), waste and effluent monitoring; and c) social - number of environmental and social complaints from local communities.	1. Monitoring and evaluation procedure 2. Monitoring Matrix	1-2 Before the first disbursement of the BESS loan. 3. Annual Supervision Reports to IDB Invest.
1.6	Stakeholder Engagement	1. Update and implement the Stakeholder Engagement Plan (SEP) to include information related to: i) Community Relationship Program; ii) Communication Plan; iii) mapping and assessment of all relevant stakeholders; iv) needed for new meetings with local communities; v) an information office in the area and appoint a community liaison officer; and vi) a community liaison officer	1. Updated Stakeholder Engagement Plan 2. Evidence of implementation	1. Before the second disbursement of the BESS loan. 2. Annual Supervision Reports to IDB Invest.
1.7	External Communication and Grievance Mechanisms	1. Update and implement the external grievance mechanism by i) indicating that claims can be anonymous, ii) establishing guidelines for registering, analyzing, categorizing, investigating, choosing alternative solutions, and indicating the deadline for responses;	1. Updated External grievance mechanism 2. Evidence of implementation.	1. Before the first disbursement of the BESS Loan.

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		and iii) defining how the mechanism will be publicized, so that local communities will know where to go and who to contact when required.		2. Annual Supervision Reports to IDB Invest.
PS 2: Labor and Working Conditions				
2.1	Human Resource Policy	1. Develop and implement a Human Resources Policy that complies with PS-2 guidelines and local legislation	1. Human Resource Policy 2. Evidence of implementation	1. Before the second disbursement of the BESS Loan. 2. Annual Supervision Reports to IDB Invest.
2.2	Grievance Mechanism	2. Update and implement the internal grievance mechanism to: i) establish guidelines for registering, analyzing, categorizing, investigating, choosing alternative solutions, and indicating the deadline for responses; ii) allow anonymous complaints, iii) stipulate that there will be no reprisals for complainants, iv) guarantee the confidentiality of the complainant and iv) define how the mechanism will be communicated to employees so they know where to go and who to contact when required.	1. Internal Grievance Mechanism 2. Evidence of implementation.	1. Before the first disbursement of the BESS Loan. 2. Annual Supervision Reports to IDB Invest.
2.3	Occupational Health and Safety	1. Update and implement an Occupational Health and Safety ("OHS") Plan to include the construction and operation of the BESS Project	1. Updated OHS Plan. 2. Evidence of implementation.	1. Before the first disbursement of the BESS Loan. 2. Annual Supervision Reports to IDB Invest.
PS 3: Resource Efficiency and Pollution Prevention				
3.1	Greenhouse Gases	1. Develop an alternative analysis to eliminate the utilization of SF6 as insulating gas. 2. Should the analysis conclude the existence of technically, financially feasible and cost-effective options, develop and implement a timeline to replace SF6 as insulating gas with an environmentally friendly alternative. 3. Implement actions under the Timeline	1. Analysis of Alternatives 2. SF6 Replacement Timeline (if applicable). 3. Evidence of Implementation (if applicable)	1. Six months after the amendment of the Loan Agreement. 2. Nine months after the amendment of the Loan Agreement. 3. In accordance to the SF6 Replacement Timeline.
3.2	Water Consumption	1. Develop and Implement a corporate Water Management Plan including the BESS water requirements.	1. Water Management Plan 2. Evidence of implementation	1. Before the second disbursement of the BESS loan. 2. Annual Supervision Report to IDB Invest.
3.3	Waste	1. Update and implement the Waste Management Plan: (i) incorporating the requirements in environmental regulations, the IFC performance standards, and the World Bank General Guidelines on the Environment, Health, and Safety; (ii) defining initiatives of waste reduction and encouraging reuse and recycling; (iii) defining operational procedures and temporary storage controls for panels and BESS components; iv) defining operational procedures and controls for treating and disposing of various types of waste; and v) identifying companies hired to collect and dispose each type of waste.	1. Updated Waste Management Plan 2. Evidence of implementation.	1. March 31, 2022 2. Annual Supervision Report to IDB Invest.
PS 4: Community Health, Safety, and Security				
4.1	Community Health and Safety	1. Install a BESS emergency shutdown switch. 2. Improve areas near the BESS by adding protective signage and large capacity fire extinguishers.	1. Evidence of installation issued by a third party. 2. Evidence of improvement issued by a third party.	1-2 March 31, 2022
PS 8: Cultural Heritage				
8.1	Cultural Heritage	1. Develop and implement a Chance Find Procedure that shall also be mandatory for all contractors and subcontractors.	1. Change Find Procedure 2. Evidence of Implementation	1. Before the first disbursement of the BESS loan.