

Environmental and Social Action Plan (ESAP)
Transmission Lines Punta del Tigre/Cardal and Salto Grande/Salto B – URUGUAY

No.	Aspect	Action	Deliverable	Delivery date
PS 1: Assessment and Management of Environmental and Social Risks and Impacts				
1.1	Environmental Licenses and Permits	1.1.1. Obtain environmental license for the construction of the 500 kv line and substation	1.1.1. Environmental license for the 500 kv line and substation.	1.1.1. Before works commencement at site.
		1.1.2. Obtain updated environmental license for the construction of the 150 kv line.	1.1.2. Environmental license for the 150 kv line.	1.1.2. Before works commencement at site.
		1.1.3. Obtain permits concerning national route crossings, waterway crossings, railway crossings, aggregate extraction, native forest logging.	1.1.3. Permits for roads, railways, and waterways crossings. Permits for forest logging.	1.1.3. Before affected works commencement.
1.2	Construction Environmental Management Plans	1.2.1. Include in the current Construction Environmental Management Plans the Procedures (PR) and technical instructions (IT) mentioned in the ESMP but not available: (i) PR 0506 - Identification, updating and assessment of compliance with legal and other subscribed requirements, (ii) PR 2202 - Identification and Evaluation of Environmental Aspects, (iii) PR 2205 - Environmental Monitoring, (iv) PR 2206 - Use of the machinery washing area, (v) IT 2203 - Control of concrete washing water. (vi) IT 2206 - Noise monitoring. (vii) IT 2106 - Provisions for fire prevention and management of fire extinguishers, (viii) IT 2106 - Provisions for fire prevention and fire extinguisher management.	1.2.1. Revised Construction Environmental Management Plans for the 150 kv and 500 kv lines.	1.2.1. Before works commencement at site.
		1.2.2. Update the Construction Environmental Management Plan for the 500 kv line and substation, to include the following measures, to be applied at towers 2, 4 to 8, 45 to 46, 53 to 59 and 72: (i) reduce the project footprint by limiting intervention to the minimum necessary to install the towers and access roads; (ii) rescue and relocate fauna and flora out of the intervention areas before vegetation cutting; (iii) for each adult tree to be felled, 10 seedlings of native species must be planted in restoration areas to be defined; (iii) prevent the dispersal of invasive alien species (blackberry) by preparing a protocol to adequately dispose of the land moved during earthworks at sites where the invader is present to prevent impacting other uninvaded areas; (iv) install flight deterrent devices; (v) recover soil and vegetation cover at the areas temporarily affected by construction; (vi) maintain 1.5 meter spacing between energized components and grounded hardware or covering energized parts and hardware; and (vii) reduce to a strictly minimum the use of herbicides during construction.	1.2.2. Revised Construction Environmental Management Plan for the 500 kv line/substation	1.2.2. Before works commencement at site.
1.3	Environmental and Social Management System (ESMS)	1.3.1. Adopt two Environmental and Social Management Systems (ESMS) (one for the 500 kV line and substation, and another for the 150 kV line) that encompass both construction management plans for both transmission lines and present the following elements: (i) policy, (ii) identification of risks and impacts, (iii) management programs, (iv) organizational capacity and competency, (v) emergency preparedness and response, (vi) stakeholder engagement along the Right of Way Easement, at project municipalities and at relevant institutions with an interest in the Project, and (vii) monitoring and review.	1.3.1. Evidence of the adoption of the two Environmental and Social Management System (ESMS)	1.3.1. Six months after works commencement at site.
1.4	Stakeholder Engagement	1.4.1. Carry out a stakeholder engagement exercise involving residents along the Right of Way Easements, municipality representatives and relevant	1.4.1. Stakeholder Engagement Report for the 150 kv line. 1.4.2. Stakeholder map	1.4.1. Six months after works commencement at site.

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		institutions with an interest in the project in the influence area of the 150 kv line, that includes a stakeholder map.		1.4.2. Six months after works commencement at site.
		1.4.3 Prepare a report of all complaints received by the affected communities along the 500 kv line and substation and the 150 kv line influence areas, including treatment and responses given.	1.4.3 External complaints summary.	1.4.3 Regularly as part of the Environmental and Social Compliance Report (ESCR).
1.5	Organizational Capacity and Competency	1.5.1 Present an organigram of the structure to manage the ESMS, describing the functions of each position. 1.5.2. Recruit qualified and experienced team of environmental, social and health and safety specialists to manage the ESMS that include: i) a coordinator; ii) a health and safety professional, and iii) a biologist.	1.5.1 Organigram of the ESMS containing description of functions of each position of the ESMS 1.5.2 Copies of the corresponding contracts or designations.	1.5.1 Before works commencement at site. 1.5.2 Before works commencement at site.
1.6	Emergency Preparedness and Response	1.6.1 Update the existing Contingency Management Plans for the 500 kv line and substation and the 150 kv line to include at a minimum: (i) a detailed description of emergency procedures for each scenario (fire, explosion or hazardous substance spills); (ii) the personal identification of the emergency response team and contact details, (iii) maps of escape routes, meeting points and emergency response equipment at workshops; (iv) list and specifications of emergency response equipment, (v) schedule for simulations, (vi) training requirements, (vii) contact details of institutions potentially involved in the emergencies and (viii) community involvement and communications protocol. In both Contingency Management Plans insert an additional emergency scenario linked to severe storms.	1.6.1 Updated Contingency Management Plans for the 500 kv line and substation and the 150 kv Line.	1.6.1 Before works commencement at site.
PS 2: Labor and Working Conditions				
2.1	Working Conditions and Management of Worker Relationships	2.1.1. Prepare a Labor Management Plan (including hiring and local labor strategy, working conditions, schedules, payment, vacation, as well as specific guidelines for hiring) that contains provisions to foster -to the extent possible- hiring of women and disabled people.	2.1.1. Labor Management Plans for the 500 kv line and substation and the 150 kv line.	2.1.1. Before works commencement at site.
2.2	Occupational Health and Safety	2.2.1 Present the Occupational Health and Safety Management Plans for the 500 kv line and substation and the 150 kv lines.	2.2.1. Occupational Health and Safety Management Plans for the 500 kv line and substation and the 150 kv line.	2.2.1. Before works commencement at site.
		2.2.2. Prepare a procedure for safe use of herbicides, including personal protective equipment, and procedures for: (i) safe use, (ii) waste disposal and (iii) personal hygiene. Insert the procedure in the Construction Environmental Management Plans.	2.2.2. Procedure for safe use of herbicides.	2.2.2 Before works commencement at site.
		2.2.3. Prepare a COVID-19 safety protocol for protect workers and affected communities.	2.2.3. COVID-19 Safety Protocol	2.2.3 Before works commencement at site.
2.3	Grievance Mechanism	2.3.1. Present an internal grievance mechanism to receive, assess, and respond complaints and requests made by workers and contractors.	2.3.1. Grievance mechanism.	2.3.1. Three months after work commencement at site.
		2.3.2. Report on worker and contracted parties' grievances and their assessment and response.	2.3.2 Report on worker and contracted parties' grievances	2.3.2 Periodically as part of the ESCR.
2.4	Accidents, incidents, and diseases	2.4.1. Create a report to inform about accidents, incidents and diseases affecting the personnel working for the EPC Consortium, including subcontractors.	2.4.1. Report on accidents, incidents, and diseases.	2.4.1. Periodically as part of the ESCR.
PS 3: Resource Efficiency and Pollution Prevention				
3.1	Pollution Prevention	3.1.1. Present the results of the Waste Management Programs, indicating the quantities and types of waste destined to: (i) public landfills, (ii) recycled or reused, and (iii) destined to hazardous waste management contractors.	3.1.1. Waste management report.	3.1.1. Periodically as part of the ESCR.
		3.1.2. Reduce to a strictly minimum the use of pesticides at towers 2, 4 to 8, 45 to 46, 53 to 59 and 72, and associated rights-of-ways.	3.1.2. Instructions to the EPC	3.1.2. Before the works commencement.

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		3.1.3 Present regular monitoring records of effluent from concrete washing pools including pH and suspended solids.	3.1.3 Monitoring records.	3.1.3. Six months after work commencement. 3.1.4. Periodically as part of the ESCR.
		3.1.4. Present the design and specifications of septic tanks to be installed at the Project's Workshops.	3.1.4. Design and specifications of the septic tanks to be installed at the workshops.	3.1.4. After the installation of septic tanks.
		3.1.5. Present the records of sanitary waste removal by licensed companies.	3.1.5 Report on sanitary waste removal	3.1.5. Periodically as part of the ESCR.
3.2	Pesticide Use	3.2.1. Record the quantities and types of pesticides used, as well as the dates and places of application.	3.2.1. Pesticide use records.	3.2.1. Periodically as part of the ESCR.
PS 4: Community Health, Safety, and Security				
4.1	Community Health and Safety	4.1.1 Present evidence of grounding of wire fences located below the path of line'.	4.1.1. Report on indirect electrification of fences.	4.1.1 Periodically as part of the ESCR.
		4.1.2. As part of the Construction Environmental Management Plan that will be activated in case of complaints from neighboring communities during construction, prepare a procedure to monitor noise levels, indicating equipment to be used, calibration requirements, monitoring parameters and noise limits to be applied.	4.1.2. Noise monitoring procedure.	4.1.2. Before works commencement at site.
		4.1.3. As part of the Construction Environmental Management Plans of both the 500 kv and Cardal substation and the 150 kv line, prepare a traffic safety plan to prevent accidents with other road users that will be implemented along the access roads to workshops and work fronts, and includes measures to control speed of vehicles and signs to warn other road users, an analysis of supplies transportation routes and consider sensitive commute hours and the routine of schools, hospitals, street fairs, and local holidays.	4.1.3. Traffic safety plan.	4.1.3. Before works commencement at site.
4.2	Security	4.2.1. Prepare a Site Security Plan (including security measures description; security personnel qualification) that includes training to security personnel on the appropriate methods to use force, anti-harassment policy and methods to deal with the public.	4.2.1. Site Security Plan.	4.2.1. Before works commencement at site.
PS 5: Land Acquisition and Involuntary Resettlement				
5.1	General	5.1.1. Obtain pending Right-of-Way agreements from the affected landowners.	5.1.1. Pending Right-of-Way Agreements.	5.1.1. Before works commencement at site.
		5.1.2. Report on complaints from property owners, their treatment and responses given.	5.1.2. Community grievances report.	5.1.2 Periodically as part of the ESCR.
PS 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources				
6.1	Protection and Conservation of Biodiversity	6.1.1. Adopt the following mitigation measures at towers 2, 4 to 8, 45 to 46, 53 to 59 and 72 of the 500 kv line: (i) reduce the project footprint by limiting intervention to the minimum necessary to install the towers and access roads; (ii) rescue and relocate fauna and flora out of the intervention areas before vegetation cutting; (iii) for each adult tree to be felled, 10 seedlings of native species must be planted in restoration areas to be defined; (iii) prevent the dispersal of invasive alien species (blackberry) by preparing a protocol to adequately dispose of the land moved during earthworks at sites where the invader is present to prevent impacting other uninhabited areas; (iv) install flight deterrent devices; (v) recover soil and vegetation cover at the areas temporarily affected by construction; (vi) maintain 1.5 meter spacing between energized components and grounded hardware or covering energized parts	6.1.1. Evidence of Biodiversity Mitigation Measures. 6.1.2 Report on the measures' implementation	6.1.1. Six months after the work commencement at site. 6.1.2 Periodically as part of the ESCR.

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		and hardware; and (vii) reduce to a strictly minimum the use of herbicides during construction.		
		6.1.2 Report on the implementation of these measures.		
		6.1.3. Amend the Construction Environmental Management Plans of the 500 and 150 kV lines by inserting or editing existing Biodiversity Monitoring Programs, targeting mammals, birds, amphibians, and reptiles that use the following sampling techniques: (i) direct observation, (ii) photo trapping, (iii) use of traps to improve capture (pitfalls, mist nets, Sherman, and Tomahawk traps), (iv) recordings of vocalization for birds, (v) detection of footsteps and feces, (vi) acoustic monitoring for bats, and (viii) interviews with residents..	6.1.3 Updated Construction Environmental Management Plans for the 500 and 150 kv lines.	6.1.3 Before works commencement at site.
		6.1.4. Present quarterly biodiversity monitoring reports identifying wildlife diversity.	6.1.4. Biodiversity Monitoring reports.	6.1.4. Periodically as part of the ESCR.
PS 8: Cultural Heritage				
8.1	Protection of Cultural Heritage in Project Design and Execution	8.1.1. Report on the results of archaeological monitoring at Cardal Substation.	8.1.1. Archaeological monitoring report.	8.1.1. Prior to works commencement at site and thereafter periodically as part of the ESCR.
		8.1.2. Report on the archaeological monitoring procedures for the 500 and 150 kv lines.	8.1.2. Archaeological prospecting and monitoring report	8.1.2. Periodically as part of the ESCR.