

# **Environmental and Social Action Plan**

## **Topolog-Luminita-Mesteruwindfarm**

### **Romania**

## Environmental and Social Action Plan

### Topolog-Luminita-Mesteru windfarm - Romania

LUKERG Renew (LUKERG-R or the Parent Company) intends to develop a wind farm near Luminita, Topolog and Mesteru village, in the Tulcea County in the north of the Dobrogea Region, in Romania (hereafter the Project).

The Project has a total installed capacity of 84 MW, comprising 42 wind turbines of 2 MW each. Due to recent optimizations, the development of the turbine T01 (inside the SCI area) was abandoned and consequently the number of the turbines reduced from 42 to 41. According to the final layout, respectively 10 turbines (LU03 - LU011 and ME08) are located within the SCI Podișul Nord Dobrogean and one of them (ME08) within the SPA Padurea Babadag (i.e. the turbine ME08 is located both in the SCI and in the SPA, since part of the Padurea Babadag SPA is also designated as a SCI). After the abandonment of the turbine T01, Land Power started the development of a new turbine located outside the Natura 2000. The process is ongoing. Turbines will be electrically connected by 30 kV buried cables to a new on-site 30/110 kV substation, which will be, in turn, connected by an underground power line (approximately 15 km long) to the existing 110/400 kV Rahman substation.

As required by Romanian regulations, the project's potential impacts, also with respect to the presence of two nearby Natura 2000 sites, were evaluated in the Environmental Impact Assessment documents and in the Appropriate Assessment, and the Project has been obtained the required permits and authorizations including building permits, environmental permits and authorizations. During the construction and then throughout operation of the windfarm, Land Power (Land Power or the Company), which is the Romanian Company as 100% owned subsidiary of LUKERG Renew, will need to implement a series of actions to avoid, reduce or otherwise control potentially significant environmental and social impacts identified in the various studies that constitute the ESIA package, in line with the EU requirements as required by EBRD. These actions are summarized in this Environmental and Social Action Plan (ESAP), which will be part of the financing agreement that will be accorded by EBRD. The performance of the required actions will be reported to EBRD by Land Power and will be audited or otherwise evaluated by EBRD during construction and operation of the project.

The table below constitutes the ESAP. It identifies the actions required, the benefits/reasons for their implementation, the basis of the requirement, the timing when the actions have to be implemented and/or completed and the criteria to be used for determining whether the goal of the action has been successfully achieved. Implementation of all the actions is the responsibility of Land Power. When other companies perform work under contract, Land Power will be responsible for their compliance with the requirements of the ESAP, even if direct oversight is by another a first-tier contractor. This is expected to be accomplished by inclusion of relevant requirements in contracts and subcontractors and by direct oversight and supervision by Land Power and/or its oversight contractor as needed.

As agreed by the parties, this ESAP may be revised from time to time during project development. No changes will allow violations of Romanian law or of EBRD requirements for environmental and social performance.

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1	Designate a responsible and appropriately qualified person to implement the ESAP and liaise with the EBRD on an ongoing basis. Prepare and submit reports to the Bank on status of ESAP implementation and environmental, health and social performance, including resolution of grievances associated with the project.	Continual assessment of EHSS performance against EBRD PRs	EBRD PR1, PR2 and PR10	<ul style="list-style-type: none"> <li>– Each six months during construction</li> <li>– Annually during operation</li> </ul>	Submission of reports on environmental, social, health and safety (EHSS) performance. These reports will be provided to the Bank but also made available to stakeholders on request.
<b>Environmental and social appraisal and management</b>					
2	Develop and implement integrated environmental social, and occupational health and safety management system(s) equivalent to those under ISO 9000, ISO 14001 and OHSAS 18001. <i>Note: certification is not required.</i>	Adoption of best practice	<ul style="list-style-type: none"> <li>– Best practice</li> <li>– EBRD PR1</li> </ul>	<ul style="list-style-type: none"> <li>– Develop systems prior to relevant stages of construction and operation</li> <li>– Implement throughout relevant stage</li> </ul>	<ul style="list-style-type: none"> <li>– Systems developed by qualified consultant, staff trained, systems implemented.</li> <li>– Status of systems development, adoption, and implementation described in each report to Bank</li> </ul>
3	Comply with all permits and permit conditions	Ensure all permits requirements	<ul style="list-style-type: none"> <li>– Best practice</li> <li>– Romanian Law</li> <li>– EBRD PRs</li> </ul>	Continuously	Include in the EHSS reports any violations and consequences, engage in active dialogue with regulators
4	Design a framework for defining the organisational structure of the project, with all key roles represented in an organogram. Appoint and maintain person(s) to be responsible for environmental and social compliance, and for occupational health and safety, to report directly to the project manager, and subsequently to Land Power management.	Promote social acceptability of the project	<ul style="list-style-type: none"> <li>– Best practice</li> <li>– EBRD PR 1</li> </ul>	<ul style="list-style-type: none"> <li>– Framework defined: within 30 days of financial close</li> <li>– Person(s) appointed and maintained:</li> </ul>	<ul style="list-style-type: none"> <li>– Project organization defined</li> <li>– Organogram provided to Bank</li> <li>– Appointment of qualified official</li> <li>– Qualifications submitted to Bank with first report</li> <li>– Responsible person</li> </ul>

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				throughout construction and operation	maintained at all times
5	<p>Establish and implement project-level policy and procedures to manage ESHS planning and performance of construction and other contractors, including at a minimum:</p> <ul style="list-style-type: none"> <li>- Inclusion of appropriate ESAP and other legal requirements in contracts/subcontracts</li> <li>- Assignment of clear responsibilities within Land Power and contractor ESHS responsibilities</li> <li>- Regular inspections of contractors' construction camp and construction operations.</li> <li>- Contractor reports sufficient to allow Land Power to include data in reports to the Bank, and to allow evaluation of need for corrective actions.</li> <li>- Verification of training and/or professional credentials for contractor staff/managers responsible for ESHS.</li> </ul>	Promote social acceptability of the project	<ul style="list-style-type: none"> <li>- Best practice</li> <li>- EBRD PR 1</li> </ul>	<ul style="list-style-type: none"> <li>- Develop/adopt: prior to executing contracts/subcontracts</li> <li>- Implement: throughout execution of contracts/subcontracts</li> </ul>	<p>Include in ESHS reports to Bank:</p> <ul style="list-style-type: none"> <li>- Program description and adoption status</li> <li>- Highlights of performance (appointments, inspections, etc.)</li> <li>- Training</li> <li>- Summaries of project and contractor environmental and OHS performance</li> </ul>
6	Implement the Environmental and Social Management Plan (ESMP)	Minimize all environmental and social impacts	<ul style="list-style-type: none"> <li>- Best practice</li> <li>- EBRD PRs</li> </ul>	<ul style="list-style-type: none"> <li>- Develop systems prior to relevant stages of construction and operation</li> <li>- Implement throughout relevant stage</li> </ul>	<ul style="list-style-type: none"> <li>- Report to Bank on highlights of implementation</li> </ul>
7	Provide information and support as needed for EBRD audit of key ESHS issues as outlined in this ESAP, ESMP, and permits.	Promote social acceptability of the project	<ul style="list-style-type: none"> <li>- EBRD PR 1</li> <li>- Best practice</li> </ul>	Within one year of commissioning	<ul style="list-style-type: none"> <li>- Information and support provided to complete audit</li> <li>- Address Bank</li> </ul>

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					recommendations – Agree with Bank on further monitoring, if needed
8	Develop a decommissioning plan, which will include the procedures regarding dismantling of the equipments, land rehabilitation works and management of waste generated during decommissioning. Rehabilitation works will include plantation of the site with plants compatible with both the local conditions and vegetation native species.	Minimize environmental impacts during decommissioning	– EBRD PR 1 and 4 – Best practice	At end of the first year after the wind farm construction	Prepare a decommissioning plan to submit to EBRD (the plan will be based on the as built of the plant)
Labour and working conditions and Occupational Health and Safety					
9	Develop HR policy and procedures to include the main aspects related to employment, unemployment, working conditions and HR-related aspects, which are considered important by the company and which will also be applied to all sub-contractors when working for this project.	ESMP Management	– Romanian law – EBRD PR 2	Within three months of Board approval	– HR policy and procedures are in place – Contractors' policies and procedures inspected and approved – Report status of policy development/adoption to Bank
10	Develop and implement Occupational Health and Safety action plan(s) covering control measures and work instructions during construction and operation. Requirements to include, at a minimum: – Job – and task– specific hazard analysis and	Occupational Health and Safety	– Romanian Law – EBRD PR2	Develop: – prior to executing into contracts/subcontracts	– Submission of contractor OHS plan(s) and approval by Land Power (or oversight contractor)

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	controls for all relevant activities; <ul style="list-style-type: none"> <li>– Provision of Personal Protective Equipment (PPE), requirements for and enforcement of PPE use;</li> <li>– Material Safety Data Sheets for all chemical used at the plant will be available at site and in easy reach to concerned employees;</li> <li>– Recording of incident statistics, including total work hours, lost time, major injuries/fatalities, etc.</li> </ul>			Implement: <ul style="list-style-type: none"> <li>– at and throughout execution of contracts/subcontracts</li> <li>– throughout Operation&amp;Maintenance of the project and at decommissioning</li> </ul>	<ul style="list-style-type: none"> <li>– Report to Bank on OHS issues, including work hours, incident statistic, and status of training (to cover Land Power and contractor workforces)</li> <li>– Report to Bank immediately in case of major accidents and/or fatalities</li> </ul>
11	The OHS plan(s) will contain a health and safety risk assessment of all staff job functions and activities with respect of the following aspects: <ul style="list-style-type: none"> <li>– General health and safety measures;</li> <li>– Working at heights (i.e. the safety harness will be used to secure persons during ascent to and descent from the nacelle of the wind turbine generator system and when carrying out work in areas where there is a falling work);</li> <li>– Electrical safety;</li> <li>– Emergency and evacuation procedures (e.g. in the event of a fire);</li> <li>– Access and security.</li> </ul>	H&S Risks Management and Mitigation	<ul style="list-style-type: none"> <li>– Romanian Law</li> <li>– EBRD PR2 and PR4</li> </ul>	Develop: <ul style="list-style-type: none"> <li>– prior to executing into contracts/subcontracts</li> </ul>	<ul style="list-style-type: none"> <li>– Submission of contractor OHS plan(s) and approval by Land Power (or oversight contractor)</li> </ul>
				Implement: <ul style="list-style-type: none"> <li>– at and throughout execution of contracts/subcontracts</li> </ul>	<ul style="list-style-type: none"> <li>– Report to Bank on HS risk assessment</li> <li>– Report to Bank immediately in case of major accidents and/or fatalities.</li> </ul>
12	Support local labor force by: <ul style="list-style-type: none"> <li>– Providing realistic information on employment opportunities, with transparent hiring practices</li> <li>– Advertise for all open positions</li> <li>– Employing local workers where possible: establish and meet goals for local hires, consider training for</li> </ul>	Promote local labor force and social acceptability of the project	<ul style="list-style-type: none"> <li>– Romanian Law</li> <li>– EBRD PR 2</li> </ul>	Prior to workforce selection and prior to establishment of work camps	<ul style="list-style-type: none"> <li>– Local announcements when hiring</li> <li>– Camp conditions compliant with EBRD PR2 and international best practice</li> <li>– Reports to Bank to include</li> </ul>

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	permanent positions – Paying wages at least average for the area for comparable positions – Construction camps must comply with EBRD requirements and provide adequate heating, showering and cooking facilities.				information on recruitment policy and workforce, including statistics on employment of local people, gender (by position and skill level), grievances and resolutions, execution of training for local
13	Develop a formal grievance mechanism for employees and contractors and disseminate information about its uses to the workforce, in the language(s) of the workers (note: this is separate from the stakeholder grievance mechanism required under PR10)	Contractor management	EBRD PR 2	Develop and implement prior to construction and throughout project performance	– Submission to Bank (with first report under item 1) of grievance procedure for review and approval – Thereafter, report to Bank to include all worker grievances and resolutions
<b>Pollution prevention and abatement</b>					
14	Identify and implement construction phase noise and vibration controls. Apply construction speed limits, especially near residences, maintain equipment and vehicles, and where possible, limit work to daylight hours, minimize weekend work.	Minimize noise disturbance	– Romanian law – EBRD PR 3	Implement construction noise and vibration controls: throughout construction	Report to Bank any noise complaints and actions taken
15	Monitor noise at residences upon request, take actions to reduce or control noise from turbines and/or substation as needed to meet applicable standards and reduce nuisance levels.	Minimize noise disturbance	– EBRD PR 3 – Best Practice	Throughout construction and operation	Report to Bank any noise complaints and actions taken
16	Identify and implement best practices to control dust generation, including sheeting dusty loads, damping roads in dry conditions, preventing mud/dirt deposition	Minimize occurrence of dust nuisance	– EBRD PR 3 – Romanian law	– Define procedures and train drivers/workers:	– Include requirements in the contracts/ subcontracts – Report to Bank on

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	on public roads, speed controls, etc.		– Best practice	as needed for workers' tasks – Implement: throughout construction when suppression is needed	development/completion status
17	Define and implement a landscape management plan for project infrastructure, to include vegetation screening of substation, storage and re-use of topsoil, restoration/revegetation of all disturbed ground as soon as construction activities are completed and rehabilitation of all roads which are used in the construction phase. Use native species for seeding/replanting.	Minimize soil erosion and land visual impact and improve soil recovering after construction work	– EBRD PR 3 – Best practice	Land restoration/revegetation: prior to commissioning	– Topsoil salvaged, stored, reused – Native species replanted/reseeded – Self-sustaining plant cover of native species established and maintained – Report to Bank highlights of program
18	Develop comprehensive waste management plan(s) during construction and operation to include: – Procedures for proper handling of all waste generated, including non-hazardous solid waste (i.e. paper, plastic, cement bags, metal craps, tin cans, wooden crates, domestic/household solid waste, etc.) , hazardous solid waste (i.e. waste oil, waste	Waste minimization, resource conservation and effective waste management	– EBRD PR4 – Best practice	Develop: – prior to start of construction including procedures into contracts/subcontracts	– Review and/or approval of plan(s) by authorities, if required – Require compliance in all contracts – Submit and/or approval of plan(s) by Bank



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	batteries and accumulators, medical wastes, etc.), sanitary (or domestic) wastewater, etc. – Methods to verify proper off-site management of related waste by contractors, licensed companies and in licensed places – Measures to minimize waste generation and maximize re-use and recycling – Waste separation and designated storage locations. During construction, the excavation, construction and demolition waste will be reused where possible for refilling. In case they cannot be used they will be disposed of at the places approved by the Municipality or relevant authorities according to the Excavation, Construction and Demolition Waste Control Regulation, if required.			Implement: – during construction and operation	– All wastes managed in accordance with approved plan(s) – Reports to authorities as required in permits – Reports to Land Powerby all contractors on amounts, types, and management of all wastes generated – Reports to Bank on amounts, types, and management of all wastes generated (by Land Power and all contractors) – Immediate report to Bank and relevant authorities of significant incidents and response actions
19	Develop chemicals and hazardous substances management plan(s)during construction and operation to include: – Procedures for proper handling of all chemicals and hazardous substances used (such as lubricating oils to re-fill the transformers). – Methods to verify proper on-site management of related chemicals by contractors – Definition of designated storage locations	Minimization impacts on soil and subsoil	– EBRD PR4 – Best practice	Develop: – prior to start of construction including procedures into contracts/subcontr acts  Implement: – during construction and operation	– Require compliance in all contracts – Submit and/or approval of plan by Bank  – All chemicals and hazardous substances managed in accordance with approved plan(s) – Reports to Land Powerby all

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					contractors on amounts, types, and management of all chemicals and hazardous substances – Reports to Bank on amounts, types, and management of all chemicals and hazardous substances (by Land Power and all contractors) – Immediate report to Bank and relevant authorities of significant incidents and response actions
20	Develop and implement erosion and sedimentation control plan for all areas where the ground will be disturbed during construction in accordance with good practices, including at a minimum: <ul style="list-style-type: none"> <li>– Minimize disturbance on slopes;</li> <li>– Immediate repair of ruts and other features caused by work in wet weather</li> <li>– Segregate topsoil from subsurface material and store both in secure areas for reuse;</li> <li>– Protect storage piles with covers, including vegetative cover (native grass species) as needed to prevent erosion and desiccation.</li> <li>– Use best practices to prevent or retard run-off.</li> </ul>	Minimize soil erosion	– EBRD PR 3 – Best practice	Develop: – prior to start of construction including procedures into contracts/subcontracts Implement: – throughout construction	Report to Bank on plan status and highlights of erosion control program.
<b>Community health, safety and security</b>					
21	Develop and implement a Traffic management plan	Improve traffic	– EBRD PR 4	Develop:	– Consultations with traffic local

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	during construction. Require contractors to implement procedures to protect public health and safety, such as (but not be limited to): <ul style="list-style-type: none"> <li>– Definition of speed limits, routes to follow</li> <li>– Scheduling of the segregated portions of the roads where construction works are present</li> <li>– Scheduling of traffic will be undertaken to avoid the peak hours on the local road network wherever practicable</li> <li>– Appropriate training for all drivers and equipment operators as needed to prevent incidents and dangerous situations</li> <li>– Make best effort to minimize disruption and closures of public roads</li> <li>– Notice to local authorities and nearby residents before major activities and traffic</li> <li>– Public notice of construction operations near areas open to the public</li> <li>– Driving through the villages will be avoided by the project vehicles as much as possible. If there are alternative routes, alternative routes will be used to avoid traffic in villages.</li> <li>– Security as needed to prevent unauthorized access to project locations, with appropriate training for guards</li> <li>– Hazard notices/signs/barriers to prevent access to energized components and other dangerous areas.</li> </ul>	management in order to protect public health and safety and prevent incidents	– Best practice	– prior to commencement of construction works  Implement: – throughout construction	authorities on traffic, notices, etc., submission and/or approval of plan by local authorities (if required) – Require all contractors/ subcontractors to implement the procedures of traffic management plan. – Submission and/or approval of plan by Bank  – Report to Bank on traffic management, security, other activities, including any incidents/ accidents involving the public
22	Establish and enforce rules for worker behavior when dealing with local residents and visitors in order to	Avoid or minimise the	– EBRD PR 4 – Best	Throughout life of work camps and	– No serious incidents between workers and local population

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	prevent adverse impacts	risks and adverse impacts to community health, safety and security	practice	employment of non-resident workers	<ul style="list-style-type: none"> <li>- Consultation with local authorities concerning appropriate behaviors and controls</li> <li>- Report to Bank on all incidents</li> </ul>
23	Minimize the amount of work done after daylight hours wherever possible, particularly work that can cause noise or require bright lights	Avoid or minimise the risks and adverse impacts due to the works	<ul style="list-style-type: none"> <li>- EBRD PRs 3, 4</li> <li>- Best practice</li> </ul>	Throughout construction	Notice to local authorities when work is to take place after hours
<b>Biodiversity Conservation and sustainable management of living natural resources</b>					
24	As proposed in the EIA reports and in the existing Appropriate Assessment, the following mitigation measures are to be implemented during construction: <ol style="list-style-type: none"> <li>1. reduction of the areas affected by the construction of the ME8-ME9-ME6 turbines and limitations of acoustic emissions between March and August, which is the reproductive period for a certain number of fauna species;</li> <li>2. ban of involving the area of LU4 turbine in the construction works and limitation of traffic from June to September, since the breeding period of amphibians that populate this area is March-June and the period of the release of the young is June-September;</li> <li>3. conducting the excavations in the area of the LU9-LU10-LU11 turbines (excavations for turbine</li> </ol>	Minimize biodiversity impacts	EBRD PR 6	Develop: <ul style="list-style-type: none"> <li>- prior to commencement of construction works, including procedures into all contracts/ subcontracts</li> </ul>	<ul style="list-style-type: none"> <li>- Include in the contracts/ subcontracts</li> </ul>
				Implement: <ul style="list-style-type: none"> <li>- throughout construction</li> </ul>	<ul style="list-style-type: none"> <li>- Report to Bank on development status</li> </ul>

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	erection and electric buried cables) outside the period March-August, which is the reproductive period for the terrestrial fauna and avifauna species.				
25	Implement bat and bird monitoring activities, as already developed and performed, in line with the permits requirements, the EU requirements and the best international standards. Results from monitoring must be analyzed to evaluate the effectiveness of mitigation measures and, in case, the design of further corrective actions.	Ensure representative quality of monitoring data. Evaluate actual impacts, mitigate as needed plan for future needs.	<ul style="list-style-type: none"> <li>- EBRD PR6</li> <li>- Best practice</li> </ul>	Implement: <ul style="list-style-type: none"> <li>- throughout construction</li> <li>- for the 3 first years of operation</li> </ul>	<ul style="list-style-type: none"> <li>- Submission to Bank procedures for bird/bat monitoring – <i>already completed</i></li> <li>- Report to Bank on analysis of the results of additional bird/bat monitoring and collision risk analysis – <i>already completed for Spring 2013</i></li> <li>- Submission of the report to the Romanian Ornithological Society (SOR) and Tulcea Environmental Protection Agency (EPA)</li> <li>- Public disclosure of the results of the additional studies`</li> </ul>

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26	<p>In order to minimize the habitat loss and promote biodiversity conservation of SCI/SPA areas the following mitigation/compensation measures are to be implemented during construction and operation.</p> <p>During construction:</p> <ul style="list-style-type: none"> <li>– Vegetation soil removed from the site will be replanted at the bases of the turbines soon as possible after completion of the construction works, in order to increase the chance of the original vegetation recovering. It will need to savage and store topsoil for later rehabilitation. In detail, restore topsoil, regarded all arable lands and re-vegetate with native species, preferable before winter period, all pasture and non-agricultural ground disturbed by construction works. As possible, restoration will be carried out when all construction are completed. Vegetation soil will be stored separately for future landscaping purposes and stored near the switchyard area. All the soil stockpiles at the site will be controlled in terms of slope stabilization and runoff in order not to adversely impact the surrounding lands (i.e. agricultural areas).</li> </ul> <p>During operation:</p> <ul style="list-style-type: none"> <li>– Convert into grazing areas the agricultural areas within SCI/SPA purchased by Land Power and not used for the turbines installations. In details, the grazing surface permanently affected by the construction of the wind farm elements is ca. 3Ha.</li> </ul>	Minimize the loss of habitat and promote biodiversity conservation of SCI/SPA areas	<ul style="list-style-type: none"> <li>– EBRD PR6</li> <li>– Best practice</li> </ul>	<p>Develop:</p> <ul style="list-style-type: none"> <li>– including into contracts/ subcontracts</li> </ul> <p>Implement:</p> <ul style="list-style-type: none"> <li>– after construction</li> </ul>	<ul style="list-style-type: none"> <li>– Include requirements in the contracts/ subcontracts</li> <li>– Report to Bank on development/completion status</li> </ul>

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	To compensate for the loss of the pasture habitat, arable land plots (Nc295, Nc345, Nc1196, Nc1275) are chosen, in the area of turbines ME-06, Me-10, ME-07 and Lu-01, with a total area of 7.5 Ha are identified in the vicinity of existing pasture areas. These plots are chosen with the purpose of creating continuity for the habitat presently used by local species, in particular as feeding habitats.				
27	Ensure the possibility to use the areas outside the operational footprint of the turbines for agricultural activities and, in addition, the supporting infrastructure could be left to local residents for continued agricultural use during operation	Promote social acceptability of the project	EBRD PR1, 6	Throughout operation	Local announcements at the end of the construction period
28	Implement the following measures to protect bat species: <ul style="list-style-type: none"> <li>– No construction during nighttime;</li> <li>– Keep operating the turbines at medium to high wind intensities during nighttime. Reduce negative effects produced by turbine lighting during nighttime (light attracts insects which in turn, attract bats). Turbine towers will be fitted with a red flashing light with large time intervals between two consecutive ignitions: this is likely to make them more visible at night and at fog presence (during both day and night) and therefore is less likely to be flown into by bats.</li> </ul>	Promote biodiversity conservation and reduce impacts on bat species	EBRD PR6	Develop: <ul style="list-style-type: none"> <li>– Within construction works end</li> </ul> Implement: <ul style="list-style-type: none"> <li>– throughout operation</li> </ul>	<ul style="list-style-type: none"> <li>– Report to Bank on development/completion status</li> </ul>

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<b>No</b>	<b>Action</b>	<b>Benefits / Reasons and Implementation</b>	<b>Legislative requirement / EBRD performance requirement / Best practice</b>	<b>Timetable action to be completed by</b>	<b>Target and evaluation criteria for successful implementation</b>
29	In addition to monitoring program of point 24, during operation develop and implement program of bat and bird mortality monitoring program at all turbines and at wind mast, with emphasis on migration and breeding seasons.	Minimize impacts on birds and bat species	<ul style="list-style-type: none"> <li>– EBRD PR6</li> <li>– Best practice</li> </ul>	<ul style="list-style-type: none"> <li>– Wind mast: construction and operation</li> <li>– Turbines: throughout operation</li> </ul>	<ul style="list-style-type: none"> <li>– Review and approval of plan by independent expert, review (if possible) by Romanian Ornithological Society</li> <li>– Report summary of monitoring results, including unusually high mortality</li> </ul>
30	<p>Appoint independent expert(s) to conduct annual evaluation of bird and bat seasonal monitoring (point 24) and mortality monitoring (point 28) programs and results in order to evaluate impacts on birds and bats and, if needed, to recommend changes to operating parameters (such as rotation speed or operating hours during sensitive periods/hours) and to verify the effectiveness of the mitigations and their revision, if necessary. After year 2, and annually thereafter if applicable, expert to make annual recommendation on continuation/modification of monitoring under point 24 (after year 4 for monitoring of point 28).</p> <p>E.g. Whether the results of the monitoring indicated of point 28 will show significant number of mortalities due to the bird and bat collisions with turbines(i.e. to exceed a negligible magnitude effect, defined as a 1% increase over the existing baseline mortality, as per SNH, 2002, assessment methodology), the expert(s) may develop and implement a shutdown turbine program to define the turn off of a certain turbines, or even the entire wind farm, over certain periods of time</p>	Minimize impacts on birds and bat species	<ul style="list-style-type: none"> <li>– EBRD PR 6</li> <li>– Best practice</li> </ul>	<ul style="list-style-type: none"> <li>– Appoint expert: prior to operations</li> <li>– Expert reviews/reports: before operations commence and thereafter after each annual monitoring report under points 24 and 28</li> </ul>	<ul style="list-style-type: none"> <li>– Expert CV approved to Bank</li> <li>– Evaluation report from expert, implementation of recommended changes (if needed)</li> <li>– Submission of expert's report to Bank, including any proposed changes to operating parameters</li> <li>–</li> </ul>



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	<p>(eg. peak periods of migrations, or before extreme weather forecasts of storms, fog, etc.).</p> <p>The shutdown system will include a combination of human observers and radar systems to give early warning of approaching migrant flocks.</p> <p>A bird-tracking radar system will be set up in case of excess mortality (i.e. to exceed a negligible magnitude effect, defined as a 1% increase over the existing baseline mortality, as per SNH, 2002, assessment methodology) at an appropriate location giving the radar a view over the main migration route into the site</p> <p>The radar system will include a horizontally-mounted surveillance radar to track bird flight paths and a vertically-mounted radar to measure flight heights.</p> <p>Regarding bats, restrictions to turbines operations shall be adopted during peak bat activity (e.g. autumn migration).</p>				
31	<p>Develop mitigation to minimize visual landscape impacts, i.e.:</p> <ul style="list-style-type: none"> <li>– the avoidance of felling and/or severance of existing shelterbelts;</li> <li>– the selection of a turbine colour which would typically be a semi matt pale grey which would have the least visual impact on the landscape when seen against the sky for the most part. The matt colour should be non-reflective, which will also help reduce potential impact during sunny conditions (use of contrasting color at least on the 20% of the rotors to limit the risk collision for birds).</li> </ul>	Minimize visual landscape impacts	EBRD PR6	<p>Develop:</p> <ul style="list-style-type: none"> <li>– including into contracts/subcontracts</li> </ul>	<ul style="list-style-type: none"> <li>– Include requirements in the contracts/ subcontracts</li> <li>– Report to Bank on development/completion status</li> </ul>

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<b>Cultural heritage</b>					
32	Develop chance find procedures to ensure any unexpected finds of potential archaeological or cultural heritage significance are identified, assessed and conserved. Ensure presence of trained person on-site at all times ground is being disturbed. Consult with authorities in case of suspected finds.	Minimize impacts on cultural heritage	<ul style="list-style-type: none"> <li>– EBRD PR 8</li> <li>– Romanian Law</li> </ul>	Develop: <ul style="list-style-type: none"> <li>– prepare procedures before ground disturbance</li> </ul>	<ul style="list-style-type: none"> <li>– Submit and/or approval chance find procedure by Bank</li> </ul>
				Implement: <ul style="list-style-type: none"> <li>– throughout construction</li> </ul>	<ul style="list-style-type: none"> <li>– Cooperating with local experts made available by archaeological authorities</li> <li>– Report to Bank on monitoring and on any chance finds and actions undertaken</li> </ul>
33	In line with the permit requirements (see Action No 2) conduct, in collaboration with the Minister of Culture – Tulcea department, pre-construction surveys for archaeological and develop and implement chance find procedures (Land Power and all contractors).	Ensure permits requirements	<ul style="list-style-type: none"> <li>– Romanian law</li> <li>– EBRD PR 8</li> </ul>	<ul style="list-style-type: none"> <li>– Survey conducted prior to construction</li> <li>– Program implemented throughout construction</li> </ul>	Report to Bank on surveys and chance find procedures, and on any discoveries made
<b>Stakeholder engagement and information dissemination</b>					
34	Maintain and further develop the Stakeholder Engagement Plan, including a stakeholder grievance mechanism	EBRD performance standards	EBRD PR 10	Within three months of Board approval	<ul style="list-style-type: none"> <li>– Report to Bank on consultation activities, including notices given</li> <li>– Report to Bank on all grievances received and how addressed/ resolved</li> </ul>

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35	Implement the agreed SEP, inform stakeholders of activities and possible impacts, and receive and respond to grievances.	EBRD performance standards	EBRD PR 10	Throughout construction and operation	SEP as amended, grievances and responses to grievances