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African Development Bank Group's Environmental and Social Safeguards



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Key Documents

African Development Bank Group's Policy on the Environment [February 2004]

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- It recognizes and accepts sustainable development as the dominant development paradigm of the 21st century
 - It sets out the broad strategic and policy framework under which all operations will be implemented
 - It should help improve the quality of life of the people in Africa and preserve and enhance the ecological capital and life-support systems accross the continent
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Key Documents

Environmental and Social Assessment Procedures for African Development Bank's Operations [January 2011]

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- It provides a formal process for the internal and inter-departmental environmental and social review of Bank-financed projects, programs and plans.
 - It should improve decision-making and project results in order to ensure that financed projects are environmentally and socially sustainable and are in line with the Bank's policies and guidelines.
 - It formalizes the use of assessments and actions with a view to enhance project benefits and prevent, minimise, mitigate and/or compensate for adverse impacts.
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Key Documents

**Strategic
Environmental and
Social Assessment
(SESA)**

**Environmental and
Social Impact
Assessment (ESIA)**

**Environmental and
Social Management
Plan (ESMP)**

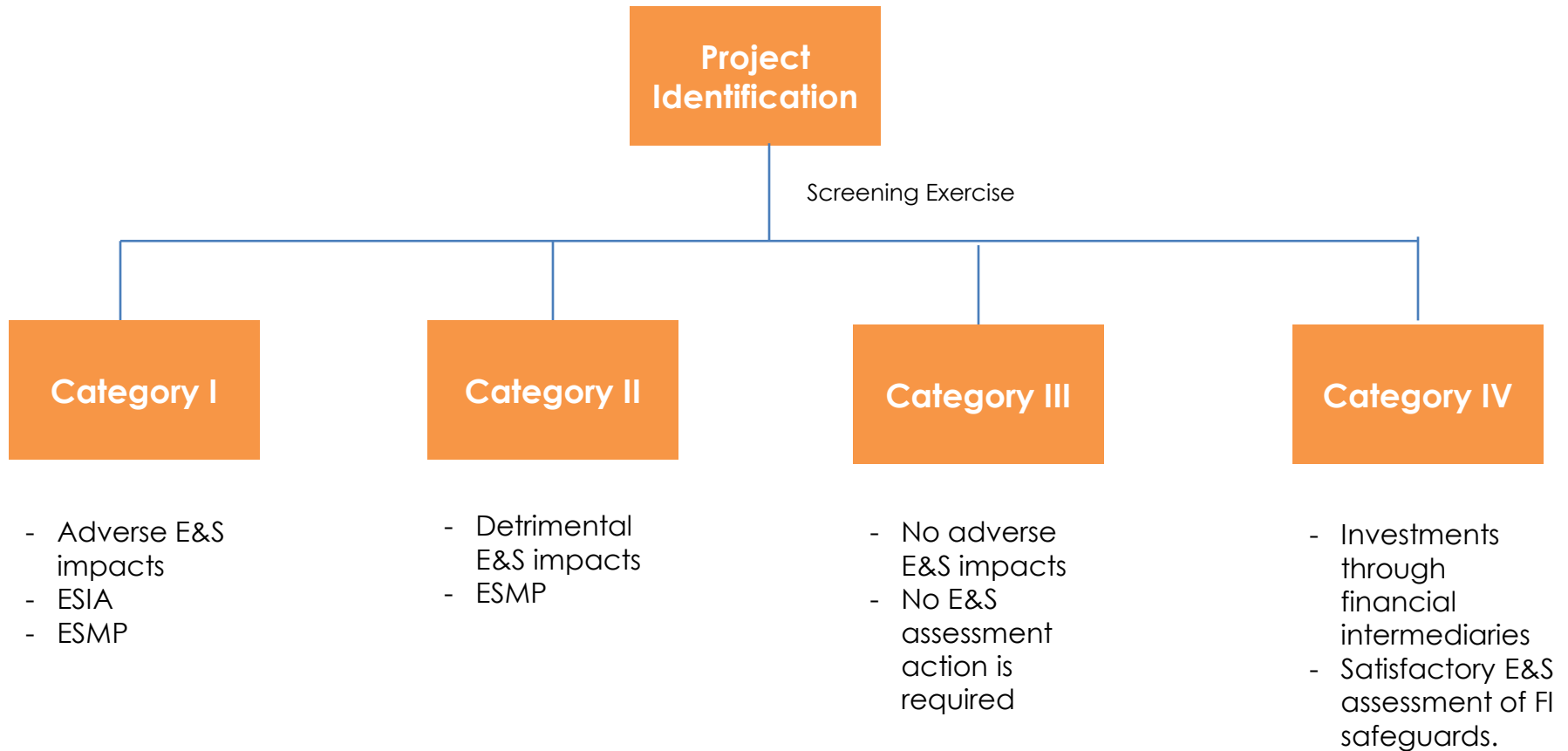
Includes

**Financial
Agreement**

**Environmental and
Social Audits (ESA)**



Framework

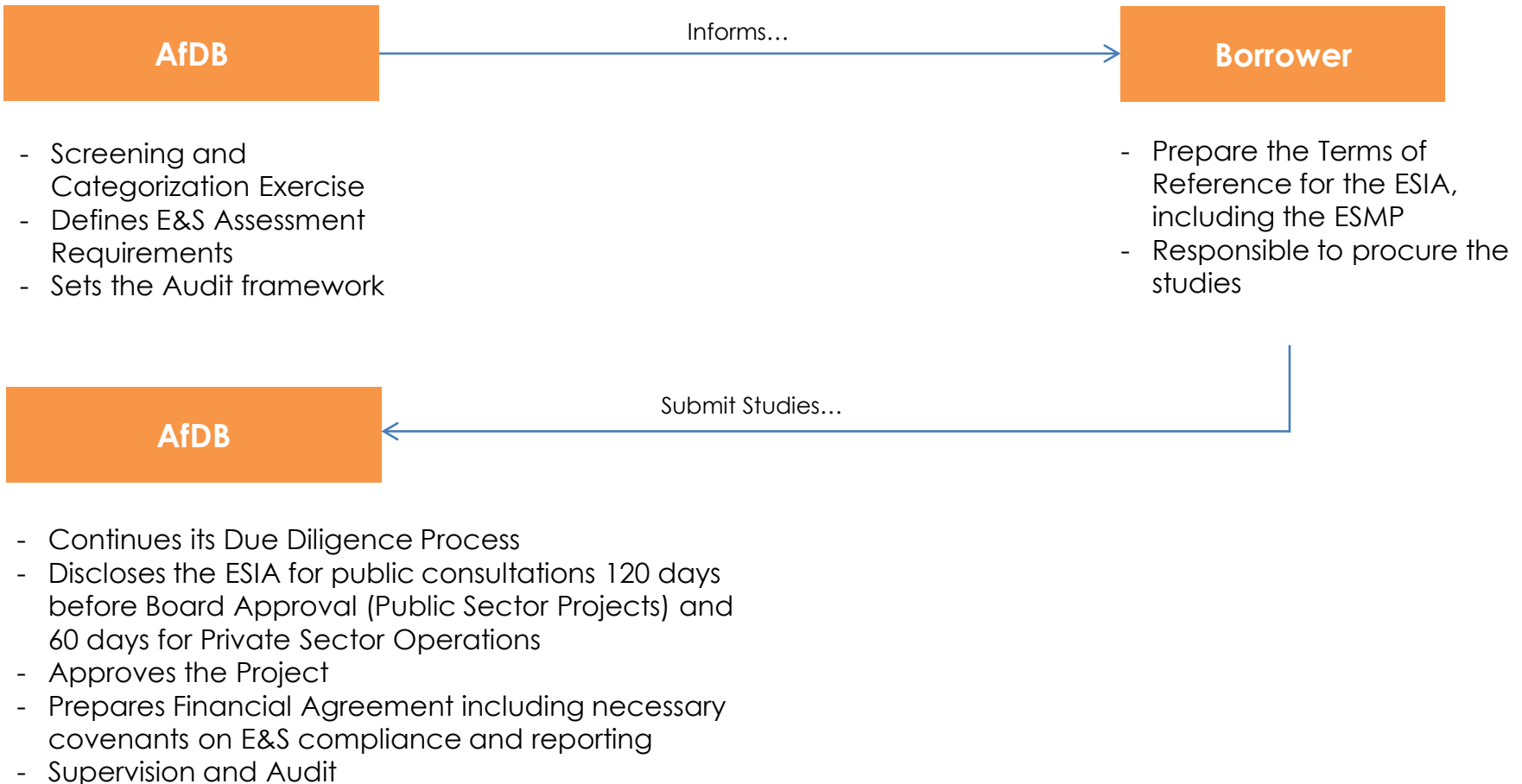




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Greenfield Infrastructure Projects – Category I (e.g. Wind Power Projects)

After Project Identification ...





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Wind Power Projects

Rule of Thumb: For every greenfield wind power project, a **Collision Risk Assessment Report** is required.



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Example: Cabeolica Wind Farm



- Country:	Cape Verde
- Installed Capacity:	28 MW
- Total Cost:	USD 84 million
- Structure:	Public-Private Partnership

Collision Risk Assessment Report

- **Objective:** Identify the risk of sensitive birds species to collide with turbines given their flying patterns, duration and height bands assuming 100% availability of the Wind Farm for the original turbine layout. The assessment is also made for alternative turbine layout.
 - **Methodology:** (i) Scottish Natural Heritage (2005), Survey Methods for Use in Assessing the Impacts of Onshore Wind Farms on Bird Communities, SNH, Battlehy; and (ii) Whitfield D.P. (2009), Collision Avoidance of Golden Eagles at Wind Farms under the 'Band' Collision Risk Model.
 - **Results:** 2.55 strikes per annum for Osprey and 1.05 strikes per annum for Kestrel at 95% avoidance level (Note: Worst Case Scenarion)
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Example: Cabeolica Wind Farm



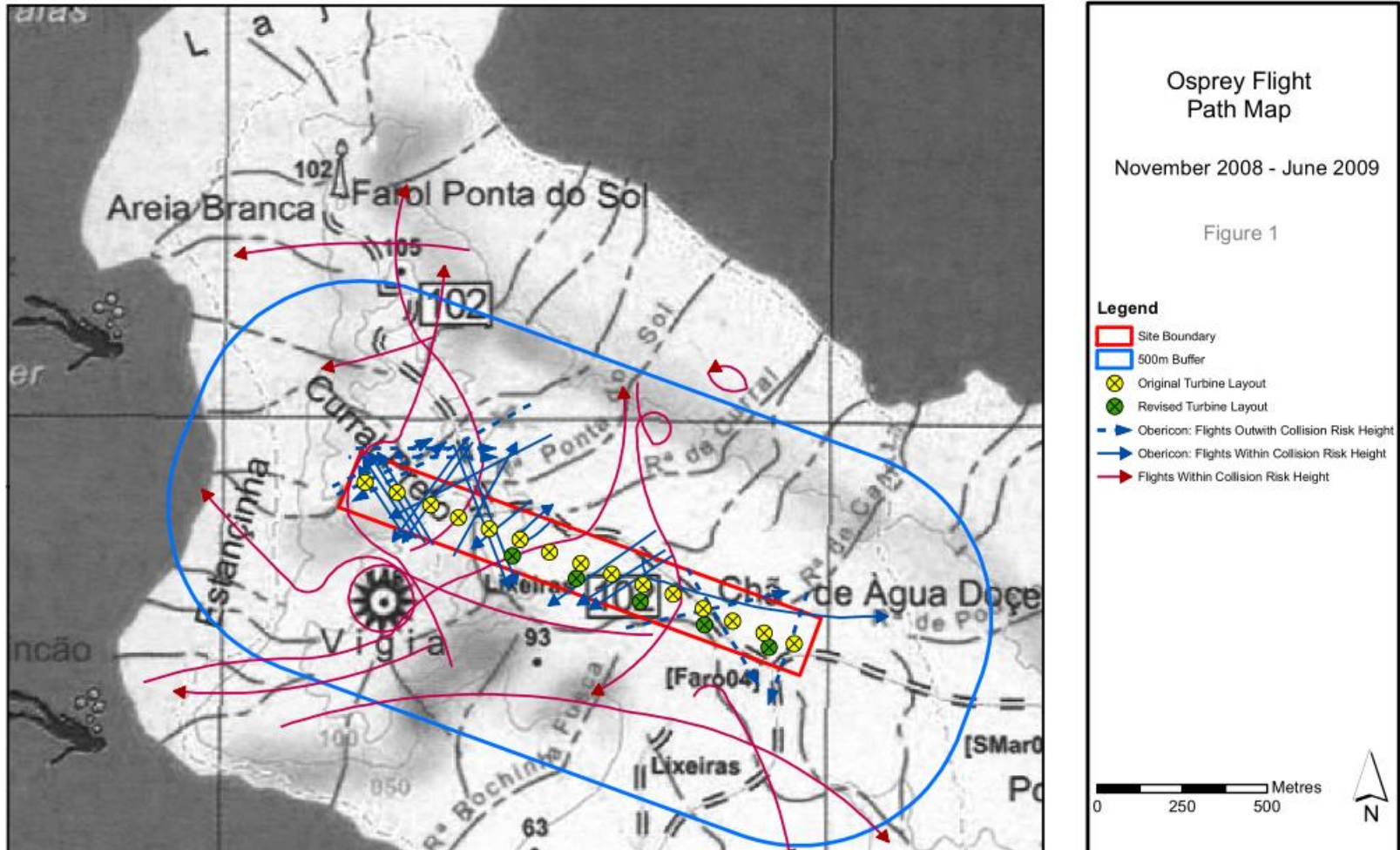
- Country:	Cape Verde
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Collision Risk Assessment Report

- **Mitigation Measures:**
 - (i) Design and siting mitigation measures have been carried out
 - (ii) Construction to be avoided during main breeding season or to be focused on areas far from the nest area
 - **Results:** (i) predicted impact for Kestrels will become insignificantly, and (ii) potential collision risk for Ospreys will drop to 1 per year.
 - **Suggestions:** (i) Replacement of predators (e.g. crows); (ii) construction of artificial osprey platforms for safe nesting; (iii) post-construction bird monitoring over a period of 5-years by carrying continuous vantage point surveys.
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Example: Cabeolica Wind Farm

Figure I: Osprey Flight Map





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SREP Ethiopia – Assela Wind Farm Project



- Country:	Ethiopia
- Installed Capacity:	Up to 100 MW
- Structure:	100 % Public
- Sponsor:	EEPCo
- Financial Closure	Late 2014

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- The Environmental and Social Impact Assessment to include a **Risk Collision Assessment Report**
 - The Mitigation Measures proposed by the study shall be included in the **Environmental and Social Management Plan**
 - **Environmental and Social Audits** to be carried in order ensure an effective and sustainable implementation
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CTF Egypt – 200MW Golf Of Suez Wind Farm



- Country:	Egypt
- Installed Capacity:	Up to 200MW
- Structure:	100 % Public
- Sponsor:	EEHC

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- The **Risk Collision Assessment Report** concluded that the site proposed was too prone to the collision of birds with turbines. As a result, a new site is being identified and a new study will be carried.
 - Consequence: Delay in project implementation
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THE END