

Annex IV: Scoping of Migratory Bird Project Component II on Energy Infrastructure

Activity A1.2.1: Conduct Analytical Studies on Energy Infrastructure Impacts on Migratory Birds

1. Scope of Work for Activity A1.2.1

- **Objective of the Activity:** The focus is to assess the impacts of energy infrastructure developments (e.g., solar and wind generation facilities) on the migratory patterns, habitat integrity, and food supply of three flagship migratory bird species (Black-faced Spoonbills, Hooded Cranes, and White-naped Cranes) in North-East Asia.
- **Background:**
 - Effects of energy infrastructure developments on migratory birds' routes, including potential disruptions or diversions due to wind turbines and solar panel installations.
 - Impacts on habitat integrity, including changes to the environment that may lead to the loss or degradation of crucial stopover or breeding sites.
 - Assessment of reduction in food supply and potential dangers posed by energy infrastructures, such as collision risks with wind turbines.
- **Components** - The study will be divided into two primary components:
 - **Component 1: Basic Information Gathering**

This will provide a foundational understanding of the relationships between energy infrastructure and migratory birds. It will gather and analyze baseline data on bird habitats, migratory patterns, and the locations of existing and planned energy infrastructures.
 - **Component 2: Scenario Analysis**

This part will develop scenarios to project the potential impacts of energy infrastructure on bird populations. These scenarios will include various factors like proximity to breeding sites, mortality rates, and the overall effect on population stability. The analysis will draw lessons from similar studies conducted internationally and apply them to the East Asian context.

2. Timeline and Work Phases

The entire activity is expected to take 4 to 6 months, with clear milestones and periodical reviews by the Secretariat. Below is a suggested breakdown of the timeline:

Phase 1: Preparation and Planning (1 month)

Phase 2: Data Collection and Analysis (2 to 3 months)

Phase 3: Drafting Recommendations and Report (1 to 2 months)

Phase 4: Final Deliverables (1 month)