

Indonesia

Upscaling community resilience through ecosystem based disaster risk reduction

INTRODUCTION

Upscaling community resilience through ecosystem-based disaster risk reduction (Eco-DRR) is a three-year project (2019-2021) funded by the European Union (EU-DEVCO). It is being implemented by UNEP and Partners for Resilience consortium. The 28-month project started in June 2019 and ends in December 2021.

Indonesia has approx. 21 million hectares of peat, mostly in degraded condition, due to drainage based peatland management practices for almost 30 years. The drained peatlands are prone to fire and subsidence (causing prolonged flooding).

Yayasan Lahan Basah (Wetlands International Indonesia/WII), in Indonesia, focuses on building the resilience of lowland wetlands communities through the integration of Integrated Risk Management (IRM) principles into policy, practice and investments in wetlands ecosystems. One of the schemes developed by WII is the Indonesia Peatland Partnership Fund (IPPF), a partnership fund designed to support projects in community-based peatland conservation, restoration and sustainable development. IPPF uses the 3R approach (Rewetting, Revegetation and Revitalisation of livelihood) in peatland restoration, conservation and sustainable management.

Main project outcomes include: scalable models of community-based Eco-DRR and integrated resource management. Learning from IPPF sites the project will design and implement measures for building community resilience towards peat fire and peat subsidence disaster risks.



Overall objective:

Sustainable development, biodiversity conservation, climate change adaptation and mitigation are achieved as the result of strengthened resiliencies of communities through conservation, restoration and sustainable management of peatland ecosystem

Specific Objectives:

Strengthened integrated risk management and inclusive risk governance by supporting development and scaling up of the Indonesia Peatland Partnership Fund approach.

MAIN PILLARS/ACTIVITIES

DISASTER RISK REDUCTION

- Including capacity strengthening, policy dialogues and implementation of hydrological monitoring for early warning system, fire/flood prevention (development of contingency planning, establishment of fire brigades, fire patrol, and water level management through blocked canal/dam maintenance (re-wetting).

CLIMATE CHANGE ADAPTATION

- Including capacity strengthening, policy dialogues and development of sustainable livelihood practices and adaptation actions.

PEATLAND ECOSYSTEM MANAGEMENT AND RESTORATION

- Including capacity strengthening, policy dialogues and Implementation of Paludiculture (non-drainage base and native peat culture/management).

TARGET

LOCATION: Tapanuli Selatan, North Sumatera, Indonesia

REVEGETATION TARGET:
Direct: 50 ha, Indirect: 500 Ha

BENEFICIARIES : 750 women and men

METHODS AND APPROACHES:

The Integrated Risk Management approach: Adopted to suit the local context, IRM will be the overall approach of the action.

- » **The Landscape approach:** Use the peat hydrological unit (KHG) analysis for determining the intervention.
- » **Biorights Mechanism:** Bio-rights is an innovative financing mechanism for reconciling poverty alleviation and environmental conservation. By providing (conditional) micro-credits for sustainable development, the approach enables local communities to refrain from unsustainable practices and be actively involved in environmental conservation and restoration. Micro-credits are converted into definitive payments upon successful delivery of conservation services at the end of a contracting period.
- » **Capacity Building and Dialogue and Advocacy:** The project will conduct sessions, meetings, and workshops aimed at training, enabling dialogue, planning, reviewing progress, sharing knowledge and ideas.
- » **3 R approach:** Peat restoration aims to restore the ecological functions of peatlands and the welfare of the people. Peat restoration efforts are carried out via three approaches: rewetting, revegetation, and revitalizing local livelihoods.



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