RECC-LUM
CASE STUDY FACTSHEET

Kemoto, LRR

Background

This Mangrove site is a coastal community located in the Lower River region of The Gambia known for oyster harvesting and mangrove conservation. Oyster farming and mangrove ecosystems play vital roles in supporting local livelihoods and maintaining coastal biodiversity.

Feasibility Assessment

Renewable Energy Potential

- Solar-powered pumps can be utilized for oyster farming operations, such as water circulation and irrigation
- Solar panels can provide electricity for lighting and equipment at the site
- A feasibility study should be conducted to assess the energy demand and determine the optimal size of the solar energy system

Climate Change Mitigation

- Transitioning to renewable energy sources reduces carbon emissions and helps mitigate climate change impacts
- Mangrove conservation and restoration efforts can sequester carbon and protect coastal communities from erosion and storm surges

Land Use Management

- Sustainable oyster farming practices, such as rotational harvesting and water quality monitoring, can ensure the long-term health of oyster populations
- Mangrove rehabilitation and protection measures can help maintain the ecosystem's integrity and biodiversity

Policy and Institutional Support

- Collaboration with government agencies, such as the Department of Parks and Wildlife Management, can provide regulatory guidance and technical support
- Advocacy for policies supporting renewable energy adoption and sustainable aquaculture practices is essential

Financial Viability

- Cost savings from reduced energy costs and potential income generation from increased oyster production contribute to the project's financial viability
- Donor funding, grants, and partnerships with NGOs can help finance the initial investment in renewable energy infrastructure and mangrove conservation efforts

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