

Pakistan

Delta Blue Carbon-1 Project

Protection and restoration of mangrove forests in the Indus River delta

Emission Reductions



2,400,000t
CO₂ e p.a.

Project Technology



Afforestation /
Reforestation

Project Standard



Mangrove forests are unique ecosystems with multiple economic and ecological benefits. They store large amounts of carbon in their soil and vegetation, making them effective at sequestering CO₂. Additionally, they act as natural barriers against floods, prevent soil erosion, and protect low-lying agricultural land from salt intrusion. These forests provide essential resources for local communities and serve as a habitat for endangered species, such as fishing cats and humpback dolphins. The project is situated in the Indus River delta region in Pakistan, home to the world's largest arid climate mangrove forests. However, industrial activities upstream, like building dams, have led to reduced sediment and freshwater supply in the delta, putting the remaining mangrove forests under pressure. Unsustainable practices, such as wood cutting and livestock breeding, have contributed to deforestation and reduced the soil's carbon storage capacity.

The project's main goals are climate change mitigation, biodiversity conservation, and improving livelihoods for local communities. This involves restoring and protecting 225,000 hectares of mangrove forest through direct planting and enhanced law enforcement, supported by carbon credit funds. The 60-year project collaborates closely with local communities to address poverty-driven deforestation. Training programs enable locals to establish sustainable and resilient businesses, such as FSC-certified fisheries, and microcredit funds are available to support their initiatives.



info



about project standards
and technologies:
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Supported Sustainable
Development Goals





Sustainable Development

Beyond removing carbon emissions, all our climate protection projects generate multiple additional benefits for people and the environment. These projects support the United Nations Sustainable Development Goals.



SUSTAINABLE DEVELOPMENT GOALS



Low-income families participate in project activities, providing them with income-boosting opportunities. This reduces their reliance on unsustainable practices that could contribute to carbon emissions, and further depletion of mangrove forests.



Funding through the project helps to improve the infrastructure of existing school buildings. In addition to this, the project supports an adult literacy program.



The project aims to empower women at the community level through gender development interventions. These interventions focus on income generation, improved nutrition, and hygiene practices.



Through the project, community members are provided access to affordable and quality health care facilities. It also provides access to safe and clean drinking water and helps to improve sanitation and hygiene facilities.



The project supports local sustainable development through microfinance schemes. This helps to generate employment opportunities for locals through initiatives like sustainable crab farming, anchovy fisheries or poultry farming.



The initiative teaches locals about the importance to use the mangroves and their resources sustainably. The introduction of voluntary standards for sustainable fisheries will help to keep essential fish stocks stable.



By protecting and re-establishing mangrove forests, the project furthers the sequestering of atmospheric carbon and contributes to climate change mitigation. The emission removals resulting from this project amount to an estimated 2,4 million t CO₂e per annum.



The project will prevent the displacement of fish and other species but will also contribute to conserve and restore terrestrial ecosystems and thus help to protect biodiversity.



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