







Blue Economy

India's Palk Bay Dugong Reserve

Innovative financing mechanisms could help unlock the full potential of naturebased solutions. A new feasibility study is underway to explore whether carbon credits could support conservation and restoration in the Palk Bay Dugong Conservation Reserve in India.

Background

to climate change, and is the lifeline for millions living in coastal communities who depend on its resources for their livelihoods. Despite this, many projects which work to conserve and restore

Our ocean is our greatest carbon sink, provides natural solutions

marine ecosystems face important funding challenges. New financing mechanisms are therefore needed to plug this

funding gap. This is what a new study seeks to do by scoping the

feasibility of leveraging carbon credits to create new revenue streams for conservation in the Palk Bay Dugong Conservation Reserve.

A unique ecosystem

in the world. These seagrass meadows are home to a range of critically endangered species including dugongs, dolphins and vulnerable porpoises.

The Palk Bay Dugong Conservation Reserve in India is one of the largest seagrass beds



Due to economic pressures faced by the

from pollution and unsustainable fishing



of it is covered with seagrass



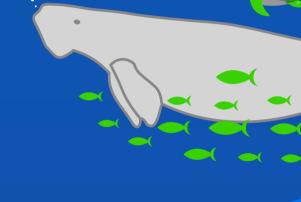
population live in

Palk Bay

practices. Some nets have proven harmful to the seagrass and dugongs. Overfishing has also reduced the ecosystem's resilience and fish populations, threatening widespread poverty among the local coastal

community, this precious habitat is under threat

communities in the long term.



The study aims to scope the blue carbon value which could be derived from Palk Bay's very own carbon sink: its seagrass.

Unleashing the potential of seagrass

What is blue carbon?

Blue carbon is carbon dioxide which has been sequestered, stored, or absorbed by marine ecosystems.

Despite only covering a small amount of the world's ocean bed, with some estimates

being as small as 0.1 per cent*, seagrass currently absorbs 10 per cent of total oceanic carbon.

these meadows could sequester up to with a total stock of up to

Palk Bay is one of the largest seagrass beds in the world, with historical research

of carbon per year

suggesting:

or reduced.

Nature-based carbon credits can support the

of carbon**

If viable, and with sufficient demand, carbon credits derived from Palk Bay's seagrass could generate new revenue streams to support conservation efforts and support local communities.

natural sources, known as nature-based conservation activities. solutions, which sequester (lock away) carbon dioxide. They can also be used to support indigenous

What are carbon credits and how can they be blue?

meadows, seaweed and mangrove forests.

Blue carbon is carbon dioxide sequestered

by marine ecosystems, including seagrass

• Carbon credits are based on a tonne of

carbon dioxide emissions avoided, removed

They have increasingly been derived from

management plan for the area.

stewardship.

mitigation of the twinned crises of nature loss and climate change by supporting ecologically important habitats by generating revenue streams to finance restoration and

by nature-based carbon credits.

peoples and local communities through

equitable disbursement of revenues generated

Local stewardship for lasting impact

ecological needs and community priorities. The plan also contributes to the preservation of traditional coastal practices and

cultural heritage, reinforcing community identity through sustainable marine

Revenue generated from carbon credit sales could be reinvested into the equitable

This plan supports sustainable fishing practices and alternative income streams, contributing to more stable and resilient income for local communities. By aligning conservation efforts with economic development, the initiative could strengthen livelihood security while ensuring responsible resource use, helping to address both



>50,000

individuals reside along the coastline adjacent to the Dugong Conservation Reserve

* UN Environment Programme (2023) Five ways often-unheralded seagrasses boost biodiversity, UN Environment Programme. Available at: https://www.unep.org/news-and-stories/story/five-ways-often-unheralded-** Ganguly, D., Singh, G., Purvaja, R., Bhatta, R., Selvam, A.P., Banerjee, K. and Ramesh, R., 2018. Valuing the carbon sequestration regulation service by seagrass ecosystems of Palk Bay and Chilika, India. Ocean & Coastal Management, 159, pp. 26-33.

NATURAL CAPITAL

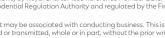
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