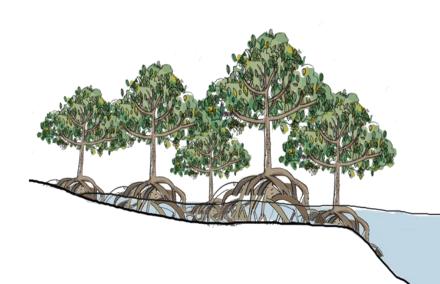


Coastal Ecosystem Restoration in the UAE

Bonn Climate Conference - SB58

Ocean and Climate Change Dialogue June 2023



Introduction

The United Arab Emirates (UAE) is a federation of seven emirates located in the Arabian Peninsula in Southwest Asia.



UAE: Eco-System Competencies Nationally and Globally

39th Globally

Environmental Performance Index 2022

3rd 1st
Globally Regionally

Index Of Ecosystem Vitality

1st Globally

- Marine Protected Areas
- Ecosystem Services
- The Scarcity Of Wetland Regression

1st Regionally

Index of biological diversity and natural habitats

16

Marine protected areas

50+ Habitats species @ UAE

UAE is

10th 1st Globally Regionally

in the size of natural reserves relative to the population

The UAE has the Largest
Congregation Of Dugongs
in The World After Australia

The country is home to more than

60 Million mangrove

With the additional 100 million mangroves planted, the UAE's mangrove forests will sequester nearly 115,000 tons of CO2 per year







National Biodiversity Strategy enablers

The UAE's capacity to carry out Nature-Based Solutions (NbS) is bolstered by various key enablers:

Ecological Diversity

Policy & Regulatory Framework

Technological Advancements & Innovation

Research & Development (R&D)

Public-Private Partnerships (PPPs) Public Awareness & Engagement





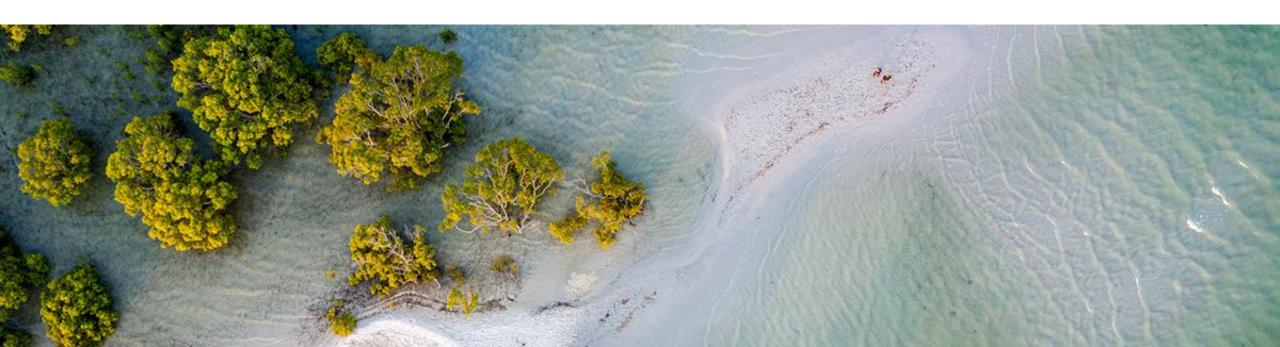


Mangroves as a climate solution

Their carbon storage potential is 3 to 4 times higher than that of tropical forests.

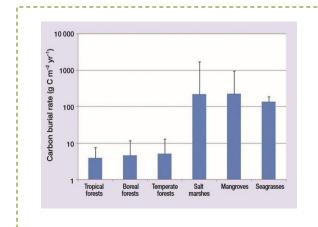
They provide a habitat for up to 80% of fish populations.

Mangrove systems provide shelter to a range of wildlife species including birds, deer and honey bees. They prevent erosion and stabilize shorelines.



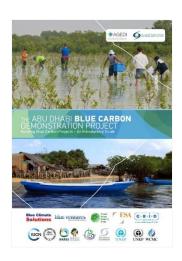
Blue Carbon and co-benefits

- The Abu Dhabi Blue Carbon Demonstration Project (2013-2014) covered Abu Dhabi Emirate
- National Blue Carbon Project (2014-2015), covered the Northern and Eastern Emirates
- Mangrove Soil Carbon Sequestration of the United Arab Emirates: Trial Application (2019-2020) covered Abu Dhabi, RAK, Sharjah, and Dubai
- Assessment of one oceanic blue carbon mechanism in the UAE: Biomass Carbon Audit Test case with a focus on Abu Dhabi Emirate etc.



Comparison of carbon burial rate per year for terrestrial and coastal habitats.

Source: Mcleod et al. (2011)





Blue Carbon and co-benefits: A Multi-habitat approach

A holistic approach to evaluate carbon and co-benefits for multiple habitats (mangroves, seagrass, saltmarshes, mudflats) taking a 'seascape approach'

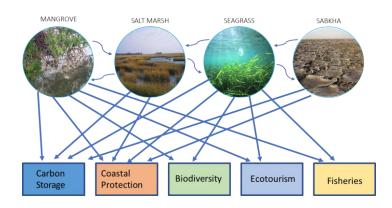
BLUE CARBON

- Cumulative carbon storage: mangroves account for the largest carbon storage; 40% in the study areas (primarily attributed to living biomass such as roots, branches, stems, etc.)
- Carbon stored/ha in the soil: similar carbon stored/ha by mangroves, saltmarshes, mudflats and microbial mats in the intertidal areas

BIODIVERSITY & NATURAL CAPITAL

- Coastal lagoons are important areas for biodiversity: critical habitats for sharks, marine turtles, fish nurseries, migratory birds (eg. Important Bird Areas)
- Contributing to UAE Natural Capital Initiative and supporting multilateral partnership to unlock blended finance for nature and climate





Thank you!

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