

# Initiative and Good Practices for Natural Based Solutions

## 1. Initiative

### Global Blue Carbon 10-Year Initiative

## 2. Background

Blue carbon ecosystems, including mangroves, seagrasses, tidal marshes, seaweeds/algae culture, playing important roles on sequestering carbon dioxide and its precursors, mitigating the negative effects of sea level rise, maintaining marine biodiversity, and promoting food sustainable supply. Blue carbon is an effective way to mitigate and adapt to climate change. The implementation of global blue carbon conservation, restoration and sustainable use within 10 years is of great significance for achieving the Paris Agreement and the SDG-14 target by 2030.

## 3. Overview of the Initiatives

(1) To achieve comprehensive protection and effective management of the global blue carbon ecosystems, reverse the degradation trend, maintain marine biodiversity, and improve carbon sequestration capacity;

(2) Large-scale restoration of damaged habitats, significantly increasing the global blue carbon ecosystems' area and carbon sequestration capacity, and improving the ability of coastal communities to adapt to climate change;

(3) Using marine primary productivity such as macro-algae to mitigate the effects of climate change in a manner that does not affect food production, to promote sustainable economic and social development;

(4) Systematically accounting for the value of the blue carbon ecosystems, establishing a value realization mechanism; realizing the value of blue carbon ecological products through market mechanisms, and promoting poverty alleviation and sustainable development of the community.

#### 4. How to use natural systems to deal with climate change

Using marine natural systems such as mangroves, seagrasses, tidal marshes and seaweeds to improve climate change responsiveness and promote other marine ecosystems to address climate change.

#### 5. How to mitigate and adapt to climate change and other goals

Promoting greenhouse gas reduction and carbon capture, improving climate resilience of coastal communities, coastal lines and marine ecosystems, promoting poverty alleviation and

sustainable development of coastal communities; Accelerating economic growth by promoting ecological farming, ecotourism and ecological engineering, which are effective ways to achieve SDG-14 goals; Improving biodiversity by protecting and enhancing the biomass of fishery resources, developing macro-algae farming to ensure food security.

#### 6. Countries and organizations involved in the Initiative

Most of the temperate, subtropical, tropical coastal countries, small island countries, UNDP, UNEP, FAO, IOC/UNESCO, IUCN, etc.

#### 7. How to consult stakeholders

Using existing blue carbon networks to communicate with local communities, youth and indigenous people through interviews and surveys.

#### 8. Where can the Initiative be implemented?

Same as 6.

#### 9. How to implement the Initiative

Develop a global strategy and action roadmap, propose national goals and plans, propose and implement financing options, and regularly evaluate implementation results.

10. Does it promote work in other subject areas?

It has positive impact on subsequent funding and carbon prices, urban and local action, resilience and adaptation, youth and citizen mobilization, and mitigation strategies.

11. How to build on existing experience and initiatives

basing on the existing research and practical experience of countries such as China, the existing mechanisms such as the Blue Carbon Initiative and the International Blue Carbon Partnership.

12. Financing mechanism

Green finance, carbon market, international aid, ecological industries.

13. Management methods and monitoring standards

Establish a joint working group and secretariat, follow the IPCC 2013 supplemental guidelines and propose new simple methods.

14. Publicity strategy

Integrate this Initiative with the Climate Change Convention, the Convention on Biological Diversity, the Convention on Wetlands and the advocacy of the SDG.

15. The contact information of the proponent

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