ROLE OF HIGH CARBON ECOSYSTEMS IN ADAPTATION; National Activities & Experiences

Amjad Abdulla DG, Climate Change Ministry of Environment and Energy Maldives

UNFCCC Workshop on Technical & Scientific aspect of Ecosystems with high-reservoirs not covered by other agenda items under the Convention

25 October 2013

Maldives Overview

- Approx 1200 islands (200 inhabitat + 150 economic islands)
- Fragile coral reef based environment
- Limited land space
- High anthropogenic pressure on fragile ecosystems
- Extremely vulnerable to forces of climate change



High Carbon Ecosystems in Maldives

- Limited only to small scale wetlands of some of the larger islands
- There are 41 islands that have been identified with such wetlands of varying size across Maldives
- Mostly brackish near the coastal area
- Considered to be endangered due to pressure demand of land for habitation
- Source of a diverse and unique (in Maldivian context) economic activities
- Rich biodiversity



Coastal and marine biodiversity and accounts for:

98% of national exports

89% of GDP

62% of foreign exchange

71% Of our national employment

Taking our passion in to actions



Maldives Climate Change & Vulnerability



Project Overview

- Title: Community based conservation of wetland Managment
- Source of Funds: Climate Change Trust Fund
- Objective: To protect and minimize impacts of climate changes on mangroves, wetlands, environment and community existence; Conservation and sustainable utilization of biological diversity to ensure maximum ecosystem benefits; and Conservation of wetlands and mangrove ecosystem for future water security in the islands
- Target: Hithadhoo Protected Area(Brakish water wetland) and Fuvahmulah (Freshwater wetland)

Fuvahmulah



Hithadoo Protect Area



Linkages with Wetland Management and Adaptation

- Improved Drainage: Allowing rain water run off in to the wetland basin to reduce flooding in the island during heavy rainfall
- Ground water Recharge: Allowing rain water run off in to the wetland area instead of the open sea allows more time for seepage and increase the quality of ground water (a very limited resource)
- Increased source of fresh water
- Enhanced Coastal Protection: The coastal Wetlands, and Mangroves protect the area from erosion and land loss as well as act as a buffer for sea swell waves

Linkages with Wetland Management and Adaptation

- Improved Biodiversity: Leading to increased aesthetics and provide wider ecosystem services
- Increased economic diversity: Development of ecotourism by taking advantage of natural environment
- Improved food security: the productivity is extremely high and thus allows more food in less space

Coral reef monitoring





- Development of Training modules, materials and field guides at RFP stage
- Development of Web Enabled Data base
- Monitoring and restoration of coral reffs undertaken in selected Resorts

