

CLIMATE CHANGE ADAPTATION AND MITIGATION TOWARDS FOOD SECURITY



Global concern on climate change has created awareness on its potential impacts on the fisheries sector.

Climate change already affects Southeast Asia through apparent increase in frequency and intensity of extreme weather conditions with huge consequences that include:

- flooding and sea water level rise
- seawater acidification
- change of water temperature
- change in species composition and distribution
- coral bleaching
- increased frequency of storms and cyclones

Southeast Asia is one of the world's most vulnerable regions to climate change due to its long coastlines, high density of population and economic activity in coastal areas, and heavy reliance on agriculture, fisheries, forestry and other natural resources.

Thus, it has become imperative for SEAFDEC to address immediate needs to improve management, restore important and protective habitats, and provide alternative and diversified incomes.

SEAFDEC undertakes activities aimed to:

- improve the human capacity in fisheries and habitat management
- maintain ecosystems health and increased resilience of coastal fishing communities
- improve cooperation in management of fishing capacity
- support processes to establish regional and sub-regional fisheries and habitat management mechanisms.

These are envisaged to contribute to strengthening the fisheries sector and its adaptive capability in adapting to climate change.

Other relevant activities being carried out by SEAFDEC:

- integration of fisheries and habitat management
- awareness building of local communities on the adaptation to climate change
- raising awareness and capacity building on key management issues in the process of
 - establishing MCS network(s)
 - fishing vessel record
 - port monitoring
 - providing inputs to the Vessel Record and Inventory and Port Monitoring at provincial level among Andaman Sea countries

These initiatives have been intensified through a series of the on-site training sessions and workshops on the Integration of Fisheries and Habitat Management and the Management of Fishing Capacity organized in the Andaman Sea countries, namely: Indonesia, Malaysia, Myanmar, and Thailand.

SEAFDEC also conducts studies to promote the use of energy saving technology and alternative energy sources for fishing operations in the Southeast Asian region.

The design of sails had been modified to be suitable for small fishing boats and reduce the use of fuel as well as minimize carbon emission from the fishing operations.