Priorities of the Blue Economy in China

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New Concept: Blue Economy

Ocean Governance

Ocean Economy

Ecosystem Service

Market Value

Non-Market Value

Related to

Balance Relationship

Depend on

Coastal Social Economy
Food Security
Climate Change
...

Unsustainable ocean economy

Sustainable ocean economy

Ecosystem Service Value
Road of Blue Economy Development in China

Achievements

1) Contribution increases  
2) Strategic layout  
3) Structural adjustment  
4) Basic infrastructure  
5) Employment growth

Practice & Experience

1) Planning system  
2) Pilot areas  
3) Emerging industries  
4) High technology  
5) Ecosystem restoration  
6) Recycling model

Challenges

• Conflicts between speed and quality;  
• Similarity of industrial structure;  
• Technical innovation;  
• Environmental pressure.

Blue Economy

Coordinative  
Innovative  
Inclusive  
Harmonious

Understanding

Contributions

Food Security  
Water Security  
Energy Security  
Transportation Security
1, Major Marine Engineering

--- Blue Bay Restore Project

Promote the **comprehensive management** of 16 **heavily polluted bays**, and **rectify the sewage outlets**;

Complete the **harnessing and restoration** of 50 **key coves adjacent to the coastal cities**;

Restore **500km coastline of urban area** and build coastal landscape.

Building a marine ecological civilization with **clean water**, vegetated riverbank, neat beach, beautiful bay, and rich resources.
Major Marine Engineering
——Ecological restoration project of “Mangrove in the south and Chinese tamarisk in the north”

Select **82 counties** in the southern China, setting the “Conservation and Rehabilitation” area marked by **mangroves**

Select **59 counties** in the northern China, setting the “Rehabilitation and Plantation” area marked by **Chinese tamarisk**
13th Five-Year Plan for National Ecological Island and Reef Project—released on 2016.10.10

• **Implement 100 ecological island projects**: characteristic ecological island reconstruction model, standard, and long-term management mechanism

• **Divide into 8 sub-districts**: Bohai Sea, North Yellow Sea, South Yellow Sea, East China Sea Continental Shelf Area, Taiwan Strait West Coast Area, South China Sea Northern Continental Shelf Area, Hainan Island, Sansha area

• **Implement 5 types of projects**: ecological conservation, rights and interests maintenance, ecological landscape, livability and tourism, science and technology support
2. Major Marine Program

---Smart Ocean Program

• Establish a basic network with shore-based, sea-based and air-based (space) monitoring facilities;

• Construct a real-time online monitoring system for national marine environment;

• Layout of focuses for the Chinese global ocean observing network;

• Establish an effective information sharing and linkage mechanism.
Major Marine Program
——Jiaolong Deep Sea Exploring Program

• **Key technology** breakthrough of the construction of the "Dragon Palace 1#" **deep sea experimental platform**

• Construction of **deep-sea mobile and bottom-supported experimental platforms**

• Implementation of **deep sea mining pilot project, deep sea exploration project, deep sea biodiversity research and resource exploration project**

• Promote the construction of national **large-scale deep-diving equipment and application sharing platform** such as the Jiaolong Submersible
• Complete the **new scientific research station in Antarctic** and the **new shore-based observing station in the Arctic**, and build an **advanced polar icebreaker** to form a polar expedition fleet.

  Establish Antarctic air force to enhance the capacity of Antarctic aviation, and construct a **land-sea-air observation network** in the polar region.

  R&D space, remote sensing, ice and snow and ocean detection technologies and equipment support systems for polar environments, and establish long-term and systematic polar environment and resource potential information and **operational service platforms**.
Major Marine Program

----Deep Sea Station Project

Hotel
Control center
Power plant
Booster station
ROV

Heat station

Distribution system
Production system

水下宾馆
水下控制中心
水下电站
水下增压站
水下配电系统
水下生产系统
Optimized layout of shore-based, ship-based, sea-based, space-based monitoring platforms
Establish an all-weather, three-dimensional, all-level, multi-functional, full-coverage ocean monitoring and early warning network.

Major Marine Program
-- China Global Ocean Observing System (C-GOOS)

Communicate Satellite
Remote Sensing Satellite
Aeronautical Satellite

Data Station
Receive Station
Shore-based Station
Radar
Buoy
Wave Buoy
Island Station
Platform Station
Optic Buoy
Small Buoy

National Centre
Coastal
User
Shore-based Station
Sub-buoy
Float Buoy
Dragging Multi-Parameter

User
Coastal
Ocean
Bottom
3. Major Ocean Policy

---Establish Marine Economic Development Demonstration Area

- Optimize the *industrial structure*, and create *new engines* for the development of the marine economy.
- Innovate *institutional mechanisms* to lead the *new path* of marine economic development.
- Accelerate *open and sharing* to build *new platforms* for marine economic development.
- Intensify *resource utilization*, and explore *new modes* of marine economic development.
- Promote *industrial agglomeration*, and build *new carriers* for marine economic development.

**Funding and project support** will be given to the marine economic development demonstration area, and priority will be given to enterprises inside the demonstration area for their demand for sea and islands utilization.
**Major Policy**

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**Promote large-scale application of seawater desalination**

**The strategic position** - as an important new water source in the coastal area and inland, and the desalinated seawater is included into urban water supply;

**Directive of inspections** -- to determine the proportion of seawater desalination in coastal areas in new water use;

**Government subsidy** - conducive to seawater desalination and comprehensive utilization.
Major Policy

--- Promote the development of marine aquaculture industry

Implement aquatic germplasm resources projects, strengthen the protection of aquatic species and the cultivation of improved varieties;

Support ecological health farming, deep water cages, and factory farming;

Establish and improve the aquatic product quality standard system, certification system and management system, and formulate a traceability system and accountability system for aquatic product quality and safety.
Major Policy

—-Reinforce the marine ecological protection in coastal areas—-

- Implement the **overall volume control for main pollutant** at key river basins;
- **Red line system for marine ecological protection**—Incorporate more than 40% of the country's natural coastline, bay, coastal wetlands, and estuaries into the red line area;
- **Ecological Environment Compensation System**—Responsibility investigation and ecological compensation for illegal reclamation and major pollution accidents.
Major Policy
——Improve the preventive capacity to marine disasters

- Formulate the *Regulations on the Prevention of Marine Disasters* and establish a system for the control line of coastal construction and the setback line for coastline construction;
- Formulate plans for marine disaster mitigation, and improve the joint action mechanism for marine disaster prevention and reduction in coastal areas;
- Establish marine disaster losses compensation and risk transfer mechanisms and catastrophe insurance mechanisms,
- Strengthen the post-assessment of the sea utilization project, and carry out elevation measurement and warning tidal level verification.

Establish oil spill emergency response base in coastal areas.
Thanks for your attention!

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