

Value of Oceans

Worldwide

75% of oxygen supply

3 billion living in coastal areas

80% of all life

5% of global GDP, USD 3 trillion/year

Republic of Korea

Maritime jurisdiction: 4.4 x landmass, 3,382 islands

14 million(27.2%) living in coastal areas

USD 134 billion in total revenue, 1.32M workers

4th largest vessel owner, 12th largest fishery producer

Oceans in Crisis

Worldwide

Max. 3.7°C rise in sea surface temp. by 2100

1m rise in sea level by 2100

50% growth in CO₂ emissions since 1990

Max. 24% fall in catch potential

Republic of Korea

Sea surface temp. rise: 2.4 x global average

2012-2020 coastal disaster losses: **USD 1.1 billion**

Fishery resources and marine ecosystem turning sub-tropical

48.6% decline in coastal and inshore fishery production (vs. 1986)

SDGs Goals

























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A Vision of Joint Growth for ROK and Partners through Oceans

Korea - Ocean Economy Initiative

K-Ocean Economy Initiative

Vision

ROK – A Leader in Overcoming the Climate Crisis and Achieving Sustainable Joint Growth

Key Strategies

STRATEGY

1

Climate Crisis Responses STRATEGY

2

Sustainable Fisheries STRATEGY

3

Marine Environment Conservation STRATEGY

4

Nurturing
Talents and
Capacity building

Climate crisis response

GOAL

Carbon Negative by 2050

GHG Reduction

- ✓ Replacing 60% of aged vessels with eco-friendly vessels (container carriers serving US/European routes by 2030)
- Developing ammonia/hydrogenpowered vessels (by 2031) Supplying LNG-powered fishing vessels (from 2025)

Blue Carbon Restoration and Expansion

- Absorbing 1.066 Mt of carbon (by 2030) with blue carbon from tidal flats, etc.
- ✓ Endeavoring to recognize blue carbon from non-vegetation tidal flats ('23) and marine forests (from '24)

Disaster Response

- ✓ Developing K-Ocean Watch System (by 2030)
- ✓ Building Disaster-resilient ports (by 2032)

Cooperation

- OTEC generator support ('23-'26, Marshall Islands)
- Policy improvement support for GHG reduction in shipping (Latin America, '24-'28)

S Cooperation

 Capacity building on blue carbon management and restoration (IUCN collaboration, 2024-2028)

Cooperation

 Advancement of Ocean Acidification Observation System (Samoa, 2022-2026)

2 Sustainable fisheries

GOAL

Transition to Tech-Driven Eco-Friendly Fisheries

Sustainable Fisheries

- ✓ Switching to TAC-based, outputfocused fisheries management (from 2027)
- Expanding marine forests to recover resources (540 km2, by 2030)

Eco-Friendly Aquaculture

- Creating smart aquaculture clusters (6 clusters by 2027)
- Adopting aquafarm environmental assessment (from 2025)

Fishing Village Infrastructure Reinforcement

- Enhancing infrastructure in 300 fishing villages (by 2030)
- Ensuring ferry stops cover all islands (by 2027)

Cooperation

- PSMA training (FAO collaboration, 2024-2026)
- Joint efforts to fight IUU fishing, e.g. CAPFISH Workshop (WMU collaboration, 2024-2028)
 - * Capacity building project to progress the implementation of international instruments to combat IUU fishing

Cooperation

- Makogai Fisheries and Aquaculture Institute (Fiji, 2024-2028)
- White clam farming technology (Vietnam, 2022-2026)

Cooperation

 Specialized projects for fishing villages (Tuvalu, Senegal, Kiribati)

Marine environment conservation

GOAL

Zero Waste in ROK Jurisdictional Waters by 2050

Marine Litter

- Reducing marine plastic litter production by 60%
- ✓ Practicing full LCM of marine plastic litter, e.g. fishing gear deposits (from 2024)

Marine Space Plan(MSP)

- Adopting (from 2022) and gradually advancing MSP throughout territorial sea
- Adopting sea area utilization assessment for well-organized maritime development (from 2024)

Marine Protect Area (MPA)

- ✓ Adding more tidal flats to UNESCO

 World Heritage List (by 2027)
- Creating national marine eco parks (6 areas)

Cooperation

- Marine litter management system for Pacific States (IUCN collaboration, 2024-2028)
- Marine plastics reduction project in East Asia (Philippines, Timor Leste, 2023-2028)

Cooperation

 Cooperation project on sharing MSP experience and analytics (from 2024)

Cooperation

- Sharing MPA best practices, cooperation for training/education (IUCN collaboration, 2021-2025)
- Cooperation project on revitalizing marine eco-tourism (from 2024)

Nurturing talents and capacity building

GOAL

Korea-Pacific Islands Ocean and Fisheries Talent Network by 2030

Fostering Leaders

Developing future leaders of global oceans and fisheries cooperation

Training Marine Engineers

✓ Bolstering smart technology education to train global marine engineers (from 2024)

International Observers

Training global observers to eradicate IUU fishing

Cooperation

 Highest level specialized policy training (oceans and fisheries doctorate course, from 2024)

Cooperation

- Female marine engineers training (Pacific Islands, IMO collaboration, 2023-2026)
- Invitational training of marine engineers (w/Korean training ship, 2024-2026)

Cooperation

 Invitational training of international observers (e.g. catch inspection, international instruments)

K-Ocean Economy Alliance



















Signing MOUs

International Organizations



Cooperative **Projects**

Utilizing Networks

Federated States of Micronesia

Ocean Science
Joint Research
Center

* '10 in the Caribbean, etc. by 2030 Korea-Fiji

Ocean and Fisheries
Cooperation
Center

* 'MOU signed in May 2023





















K-Ocean Economy Alliance and World Expo 2030 Busan

Contributing to 2050 Strategy for the Blue Pacific Continent and Sustainable Development