

Blue Carbon in Yokohama

City of Yokohama
Zero Carbon Lifestyle Promotion Division
Zero Carbon and GREEN×EXPO Promotion Bureau

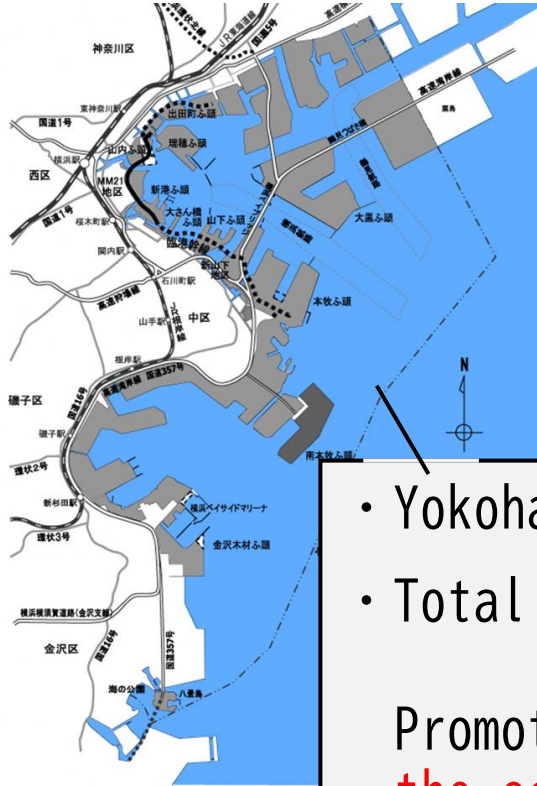
October 2, 2024



明日をひらく都市

OPEN×PIONEER

Relationship between Yokohama City and the Ocean



- Yokohama is “Port City”
 - Total length of coastline: about 140 km
- ↓
- Promote measures against climate change using the ocean should be promoted.

Yokohama Blue Carbon



CO₂ removals
by forests

CO₂ emission reductions by blue resources
(marine organisms, energy use etc.)

Acquiring an
enjoyable
ocean

CO₂ sequestration
by marine
ecosystems

green carbon

Yokohama Blue Carbon

Blue Resource

blue carbon

CO₂ Reduction Project



Blue Carbon

Sequestration
of CO₂ by marine
ecosystems



“Blue Resource”

Utilization of energy etc.
in waterfront areas

Environmental Education and Awareness



Acquiring an
enjoyable ocean

Yokohama Blue Carbon Project



Benefits for the Earth

Preventing global warming,
Securing a sustainable future

Benefits for the City

Establishing a “Maritime City”,
Economic impact on the city

Benefits for citizens

Improving civic pride,
Acquiring an enjoyable ocean



**CO₂
sequestration**



**Water quality
improvement**



Biodiversity



A rich Ocean

Carbon Credit



Beach cleanup
Restoration of seaweed bed,
Shoal development etc.

**Revitalization
of activities**

Carbon credit and
offset program

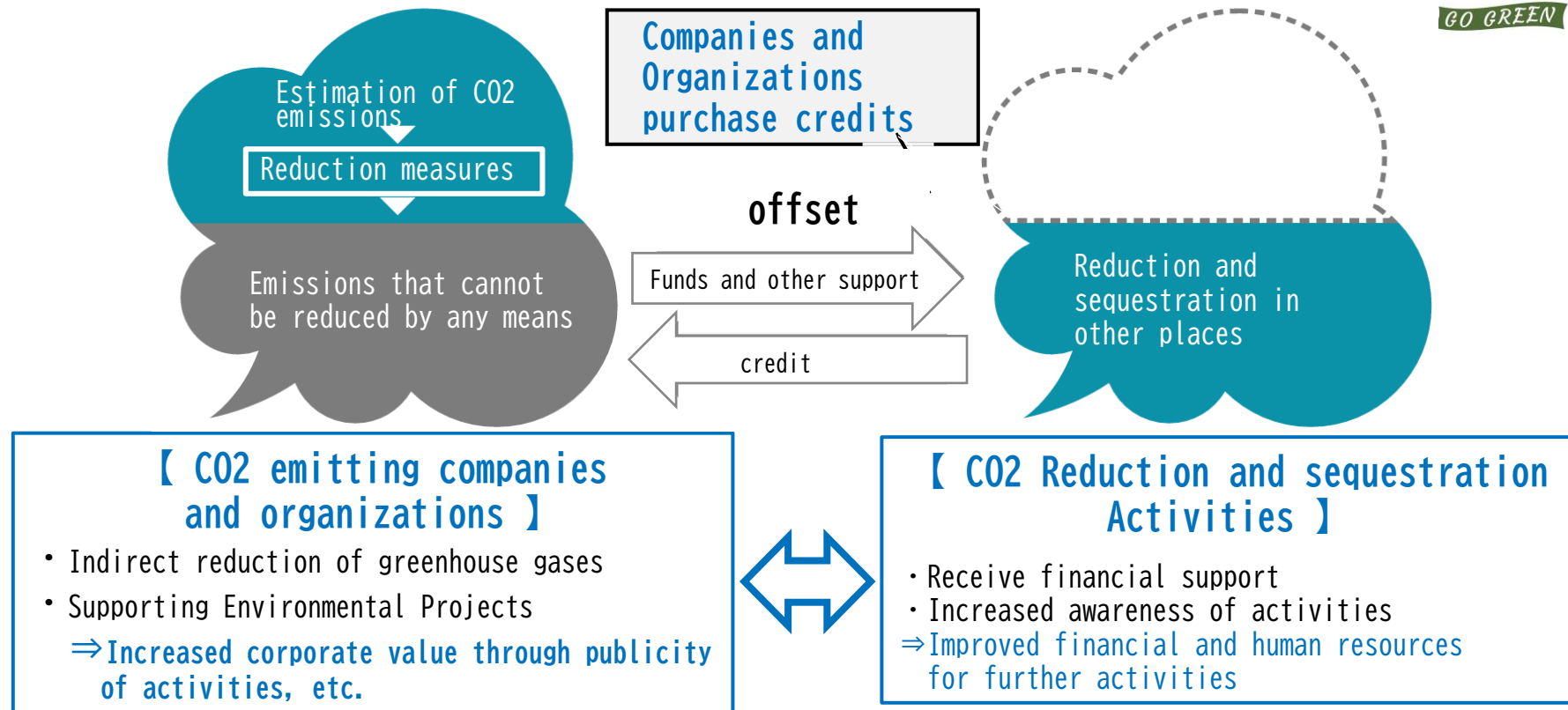
Yokohama Blue Carbon

Support activities



Use of offset logos
Environmental education

Yokohama Blue Carbon Offset Program



Public awareness raising (environmental education)

Cooperation with Yokohama Hakkeijima Sea Paradise

Aug.

“Green Kids” Marine Organisms Observation Tour

This is an event to observe marine organisms living in Tokyo Bay. Staffs will collect organisms, provide explanation and lead kids to interact with organisms.



Dec.

Brown Seaweed Planting Event

Children plant brown seaweed “wakame” at the aquarium “Umi Farm”. After learning the importance of blue carbon, they will tie 10 cm of seaweed seedlings to a rope. The seaweed will grow in the sea until it is harvested.



wakame seedlings

Mar.

Brown seaweed Harvesting Event

Harvesting the seaweed planted at December's event.

After learning about the importance of blue carbon, children will pull up the rope from the sea. The planted seaweed has grown about 1 meter in 3 months.



Public awareness raising (promotion at events)

Participation in various events

May. Yokohama Triathlon Festival (Hamatora FES)

This event is held in conjunction with the World Triathlon and Paratriathlon Series Yokohama. We have a coloring corner with a seaweed motif to experience and inform participants about the role of blue carbon.



Aug. Sea Expo in Yokohama

This is an event where participants can learn about the sea in a fun way. We held a “Seaweed pressed leaf Workshop” for children. After learning about the role of blue carbon, the children created their own artwork using colorful seaweed.



Oct. Tokyo Bay Festival

This event is held as an starting point for participants to think and act on lifestyle changes with the sea.



Eraser Stamp video

What is Blue Carbon ?



A time-lapse video of an eraser stamp and introducing blue carbon for children.

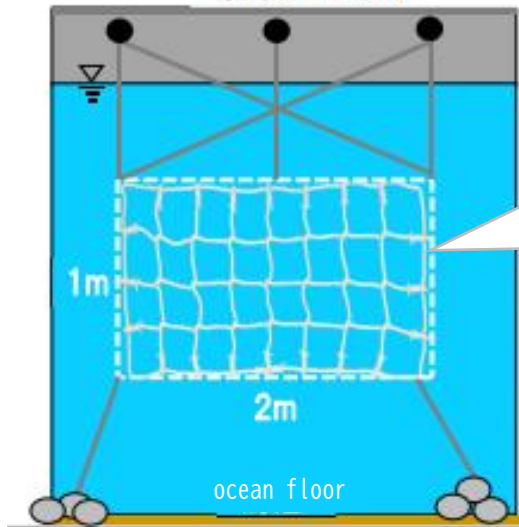
Link to the video (only in Japanese)



Demonstration project of brown seaweed (wakame) by utilizing an upright seawall

Revetment (front view)

Seawall (cross-sectional view)



A rope wrapped with wakame seed line is placed in the sea

