



# Japan Resilience Award 2024

Received the Grand Prize of the National Land Toughening Award from the Cabinet Office.



Fumio Kishida, Prime Minister of Japan



President Ohki



OHKI Employees



OHKI supports the Sustainable Development Goals (SDGs).



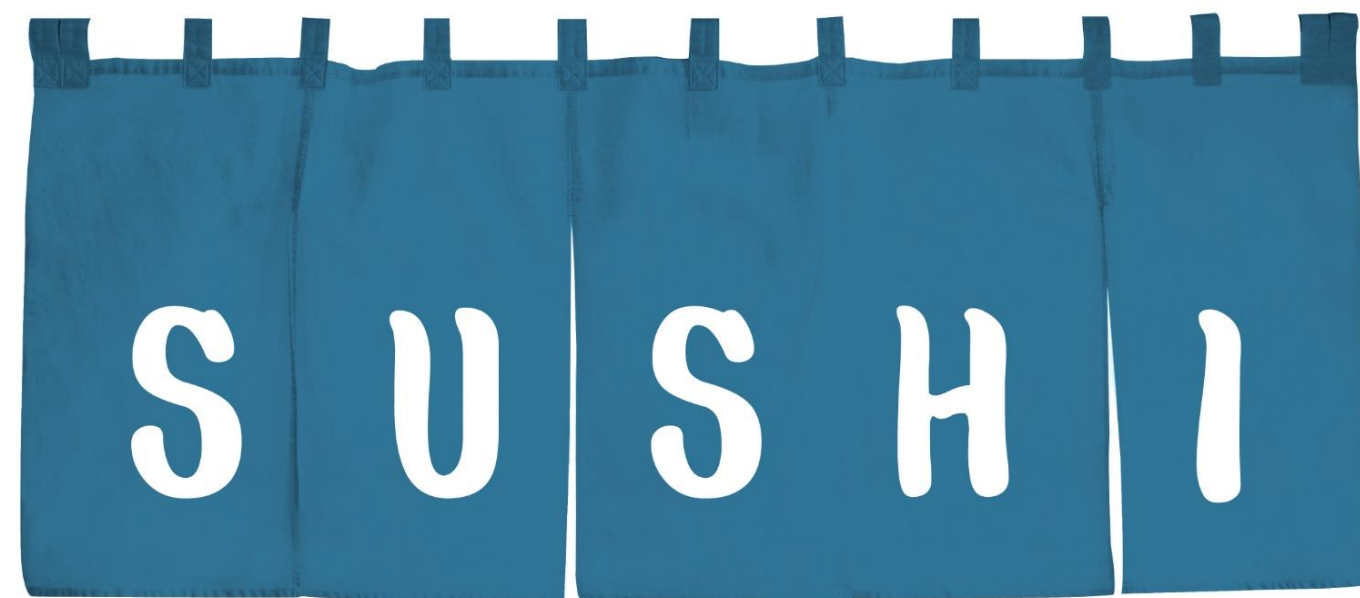
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Towards a brighter  
future for all

Learn to nature and return to nature



## 江戸前の恵みを全ての海に The blessings of Edo-mae to all oceans

Sushi, a representative of Japan's Japanese food culture, is a traditional dish born in Tokyo (formerly Edo). It is called "Edomae-zushi" because it uses fresh seafood from the nearby Tokyo Bay, and was popular among the general public.

OHKI will use its carbonization technology to contribute to the regeneration of the blue carbon ecosystem of all oceans, and to restore the lost bounty of the sea from the present to the future.





# OHKI's carbonization technology contributes to CO<sub>2</sub> reduction and preservation of biodiversity by providing an integrated system for converting various wastes into resources and reusing them.

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Related patents granted: 11 item  
Related licenses pending: 3 item



## Organic Waste Disposal Issues

## Introduction of OHKI carbonization technology

## Generation of OK Hybrid Carbon

## Utilization of OK Hybrid Carbon

Hybrid specification with heat and far-infrared rays

### Mini carbonization furnace for organic waste ACPRON<sup>®</sup>-D

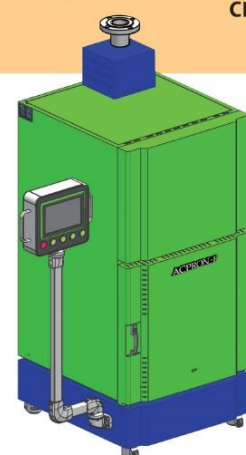
- Carbonization in an oxygen-free crucible without burning, greatly reducing CO<sub>2</sub> emissions
  - Mini carbonization furnace, not an incinerator, and does not require approval from various government agencies
  - Carbonization eliminates about 90% of organic waste, leaving only about 10% charcoal residue after carbonization
  - No odor, smoke, or noise, and moisture is discharged as vapor
  - The carbonizing furnace, which integrates deodorization and exhaust gas treatment, is small but produces about 20 kg of charcoal from more than 200 kg/day of waste processing.
  - Carbonized materials can be effectively used in a wide range of fields such as fisheries, agriculture, water purification, civil engineering, construction, and electrode material utilization as a resource of biodiversity with OHKI's technology.
- Outside dimensions : W750×D850×H1525 mm
  - Crucible dimensions : W250×D380×H280 mm
  - Volume : 50L/trip
  - Weight : Approx. 250 kg
  - Power source: 3-phase 200 V
  - Exterior color: Can be ordered



crucible bogie-cart

### Food Residue Carbonizing Furnace ACPRON<sup>®</sup>-F

- Outside dimensions : W600×D700×H1425 mm
- Crucible dimensions : W250×D380×H280 mm
- Volume : 21L-50L/trip
- Weight : Approx. 220 kg
- Power source: 3-phase 200 V



### Automotive toilet waste carbonization furnace ACPRON<sup>®</sup>-T

- Outside dimensions : W600×D700×H1425 mm
- Crucible dimensions : W250×D380×H280 mm
- Volume : 21L-50L/trip (for diapers: 50 l/trip)
- Weight : Approx. 220 kg
- Generator (for 1-ton or larger vehicles)



Steel slag  
mixing

Carbide

The Trinity of  
Charcoal, Iron, and Acid  
Effective use of OK Hybrid Carbon

Sewage sludge  
carbon mixing

## Utilization of Blue Carbon Ecosystem Cultivation

Fish reef regeneration with block forming material "Tricle"



Chiba Prefecture Tateyama Bay Algae Zone  
Restoration Demonstration Experiment for  
Beach Burning Measures 2024.12-

## Utilization of soil conditioners

Soil pH adjustment, water retention mprovement,  
soil bacterial colonization



•Waste plastic  
•Clothing waste  
etc.



•Various types  
of garbage  
•Food waste  
etc.



•Temporary toilet waste  
•Used disposable diapers  
etc.

Developed "Sealet," a waste solidification  
and collection toilet system that requires  
no water or electricity.

