

E-world
energy & water 2025

TOKYO

Pavilion

Feb. 11-13 (Tue-Thu)
9:00 am to 6:00 pm*

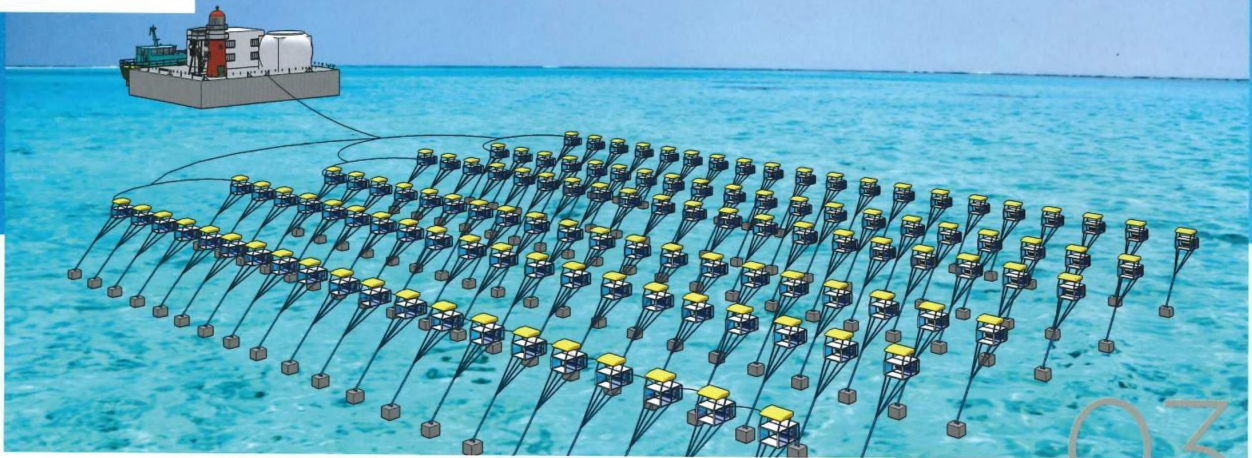
*Closes 5:00 pm on final day

Messe Essen HALL5 5H106



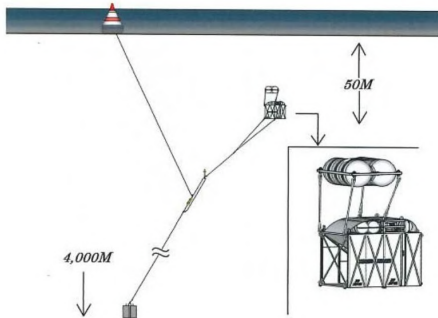


Japan System Planning Co., Ltd.



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The Kumano Ocean Current Power Generation System



1. Ocean current energy: 10 times greater than wind or solar power

Ocean currents offer a power generation capacity 10 times greater than wind or solar energy. To put this into perspective, if the output of a nuclear power plant is 1 million kWh, the combined capacity of global wind and solar power equals 338 nuclear power plants. In contrast, ocean current power generation can produce the equivalent of 4,590 nuclear plants, just from the Gulf Stream alone—there are 3-4 other comparable ocean regions worldwide.

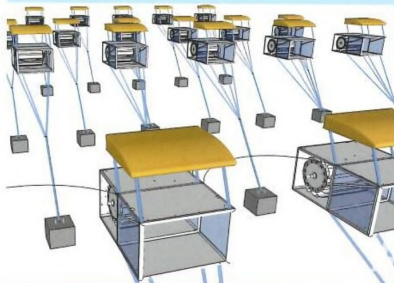
2. Enabling a carbon-neutral society

Fossil fuels like coal, petroleum, and natural gas currently generate the equivalent of 2,003 nuclear power plants but also emit large amounts of CO₂. Ocean current power generation, if implemented in the Gulf Stream, can eliminate CO₂ emissions, paving the way for a truly carbon-neutral society.

3. Producing "green" hydrogen

Our technology uses the electricity generated from ocean currents to electrolyze water, producing green hydrogen. The hydrogen is then stored and transported as hydrogen gas, offering a sustainable and environmentally friendly energy solution.

COMPANY PROFILE



We produce hydrogen by electrolyzing water, utilizing energy generated from ocean currents. This innovative approach creates clean hydrogen, driving sustainable solutions for the future.

Target companies

- Environment consultants
- Companies developing plastic materials
- Hydrogen electrolyzer manufacturers
- Manufacturers of hydrogen storage tanks

Target end users

- Plastic wire manufacturers
- Manufacturers of low-torque generators
- Environmental investors
- Hydrogen-related businesses

Representative
Katsuyuki KUMANO



HP
<https://k-greenenergy.com/en/>