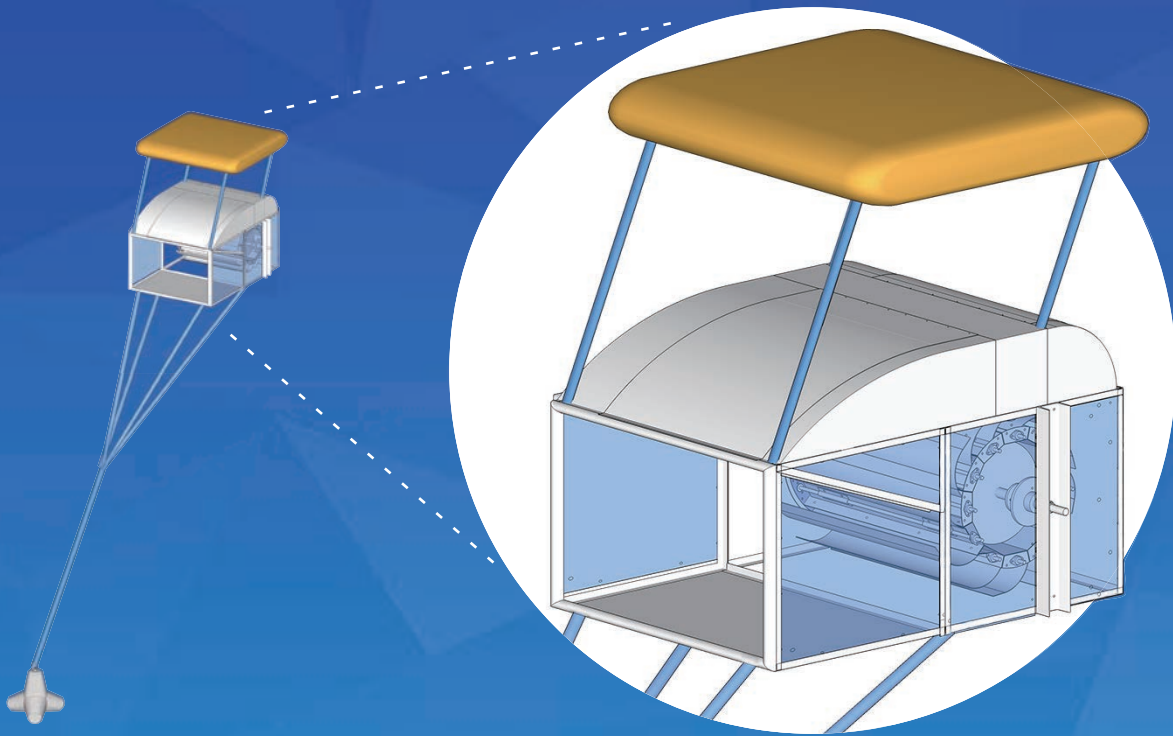


Ultimate Ocean Current Power Generation System

# KUMANO System

- Harness the Earth's largest natural resource: ocean currents
- Utilizing ocean currents that flow in a single direction 24/7
- The world's first patented water impeller power generation system
- Includes a patented automatic direction control system & depth stabilizing system



By leveraging this abundant natural resource,  
we have achieved a **37%** generation capacity!



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# Utilizing Ocean Currents: KUMANO System

## Advantages

- ① Deployable at depths of 10 to 100 meters, where water flow is fastest.
- ② Deployable even at depths of 4,000 meters, just as it does at 50-meter depths.
- ③ Easy angle and position control.
- ④ Automatically aligns with changing ocean flow directions.
- ⑤ Low cost: metallic sheets and part assembly only.
- ⑥ Economical deployment: Simple machine placement and wire reeling.
- ⑦ High power generation capacity: Achieves a 37% efficiency.
- ⑧ Enhanced water electrolysis efficiency through pre-treated activated water.
- ⑨ Patents obtained for power generator, automatic control, deployment method, and water electrolysis in the UK, Ireland, US, Japan, Taiwan.

## KUMANO System: Deployable in Areas with the Fastest Water Flow

# Technology for Stable Deployment



Patented generator structure granted on Nov. 5, 2013, Patent # US 8,575,771 B2.

With impellers measuring 10 meters by 40 meters and a flow velocity of 2 meters per second, the system generates 952 kWh, equivalent to 8,337,522 kWh annually.