

RHEEM LAB.

Wave power generation and regional revitalization



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Coastal-mounted Pendulum-type Wave Power Generation Device

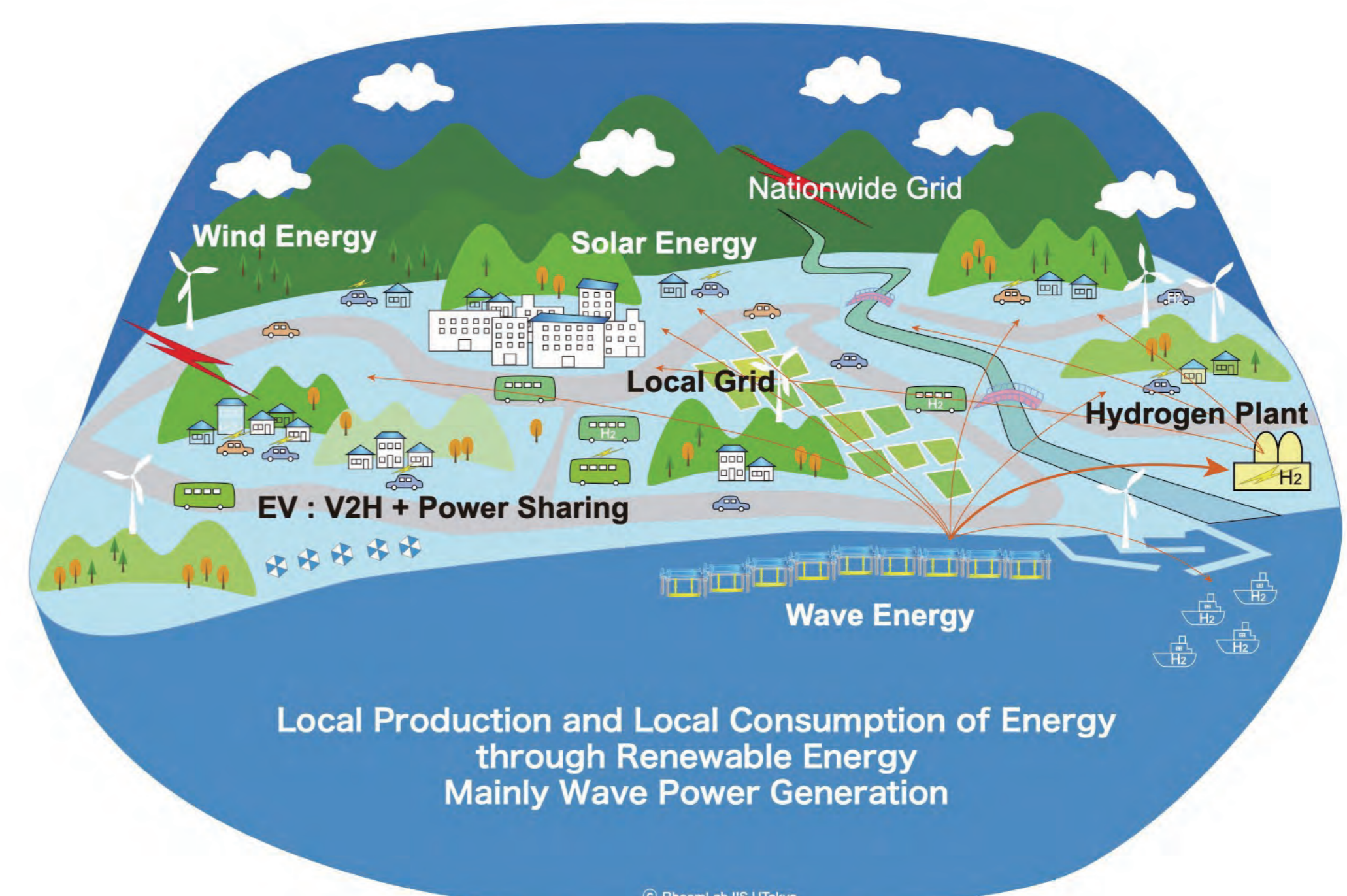
The ocean surface is constantly moving. Most of this movement is caused by waves, and waves generated offshore disappear at the shore. Waves have periodic fluctuations, energy propagation is directional, and the speed of propagation depends on the wave period and water depth. Wave power generation device is a device that converts the energy of waves into usable electrical energy. Coastal-mounted pendulum-type wave power generation devices, equipped with a wave receiving plate that moves in a pendulum motion, are installed on shallow shores with a water depth of about 4m.



Features of Coastal-Mounted Pendulum-Type Wave Power Generation Device

- It has little impact on the environment.
- The same equipment can be used anywhere in sea areas with similar water depths.
- By arranging them parallel to the coast or breakwater, the total amount of electricity generated can be increased.
- Planning, design, production, installation, and operation can all be carried out domestically.
- The equipment utilization rate is expected to be 30% or higher.
- It is possible to deploy wave power generation equipment with a total generating capacity of 3 million kW along Japan's coast.
- It can contribute to coastal disaster prevention, coastal conservation, harmony with existing industries such as landscapes and fisheries, and energy self-sufficiency and local production and consumption.

Model for Local Energy Production and Consumption Centered on Wave Power Generation



Overview of Wave Power Generation Device

