

■ Demonstration Site

The demonstration site is located offshore near the Raffles Lighthouse on Satumu island about 14 kilometers south of the main island of Singapore. Electricity from tidal power generation will be supplied to the Raffles Lighthouse-related facilities on the island.



Fig 1. Site Photo

■ Turbine Generator Specification

| | |
|-------------------|------------------------|
| Generation Output | 28kW (7kW × 4 unit) |
| Rated Flow Rate | 2.5m/s |
| Rotor Diameter | 2m |
| Length | 2m |
| Weight | 500kg/unit |
| Manufacturer | Bluenergy Solutions |

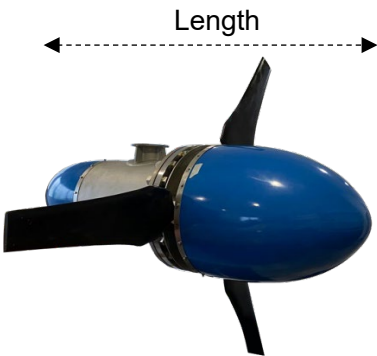


Fig 2. Turbine generator

■ Demonstration Facility

A floating platform “Bluenergy Station” is installed 400 meters offshore from the Raffles Lighthouse to supply electricity generated by turbine generators to the lighthouse. This facility is operated automatically and can be monitored remotely from the mainland.

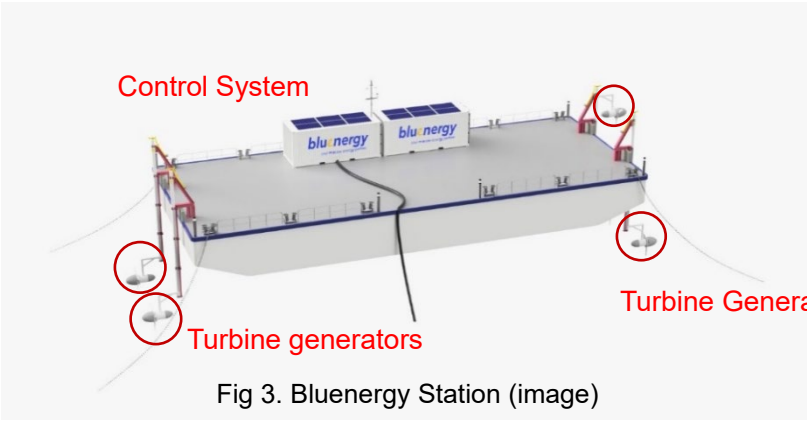


Fig 3. Bluenergy Station (image)

■ Demonstration Period: April 2023 - 6 months

■ About Bluenergy Solutions

Bluenergy Solutions aims to provide a wide range of marine renewable energy solutions. Their tidal power generation system is capable of generating at low flow rate in both directions, and compact and simple in design with easy installation and maintenance.