Sabusawa Tidal Current Power Plant
Location: Sabusawa Channel in Shiogama City, Miyagi Pref.
Operation Period: November 2014 – June 2019
Maximum Power: 5 kW (Current Speed 1.25 m/sec)
Features: The power from the two vertical axial current turbine axes is brought together using a hydraulic system to generate electricity. Each turbine axis has two-stage turbine blades having different phases. Japan’s first grid connected tidal current power generator.

Kuji Wave Power Plant
Location: Tamanowaki fishing port in Kuji City, Iwate Pref.
Installation: September 8, 2016
Maximum Power: 43 kW (Wave Height 4 m)
Features: Hydraulic drive pendulum wave power generator (Wave-Rudder Type) based on a hydraulic steering system for large commercial vessels. Japan’s first grid connected wave power generator.

Hiratsuka Wave Power Plant
Location: Hiratsuka Fishing Port in Hiratsuka City, Kanagawa Pref.
Installation: February 5, 2020
Maximum Power: 45 kW (Wave Height 1.5 m)
Features: The second generation of the Wave-Rudder Type WEC with vertical layout ram-type hydraulic cylinders (VTC). The Wave-Rudder is composed of aluminum and rubber plates. The wave energy reflected by a wall is used in addition to the incident wave energy.