

Gravity boosted oscillating under water hydro foils generate power at slow moving natural horizontal water flow

The Leading Edge turbine has multiple foils that oscillate in a coupled heave/pitch motion much like flapping underwater wings.

They power a generator much like a traditional rotary turbine but with a longer slender profile and slower motion, more environmentally friendly for surrounding marine life, and less susceptible to entanglement and damage from floating debris. The wake of the foils is cleaner and less turbulent than a rotary device, allowing the foils to be in close proximity, increasing the power achieved for a given flow volume. The prototype is designed for 2kW at 4 knots, with four foils sized .24 m by 1.2 m.