

Tidal Energy Solutions for Island and Coastal Communities

We design, build, maintain and operate turnkey tidal energy systems.

Tidal Energy Solutions

As part of our turnkey solutions, our services begin with site surveying and selection. We then customize our PLAT-I platform to suit the location by varying its scale and the number of turbines and foils.

Protecting Coastal Communities

With many island and coastal communities depending on polluting energy sources, our tidal power solutions empower those communities to better protect their coastlines and their livelihoods. By harnessing the power of moving water, we can offer a clean alternative to diesel or coal.

Environmental Monitoring

We value the health of marine environments and protecting wildlife is essential to our projects. We are committed to the reliable collection of environmental data to provide valuable information regarding the interaction of in-stream tidal energy devices and their surrounding environment.



Power of Tidal Energy

Energy output from tidal power generators is predictable since we can accurately predict when tides occur. This makes tidal energy reliable and easy to integrate with the grid. It is also sustainable because its energy comes from the lunar and solar cycle.



TIDAL ENERGY PLATFORMS

PLAT-I is an innovative floating tidal energy system and the first of its kind in the world. It is dependable, maintainable and accessible year-round, and its modular design allows for it to be assembled on-site. The tidal platforms only require two meters of water for launching and towing them to their location. The system is moored with a turret configuration allowing it to weather-vane with the tide or river flow.



TURNKEY PROJECT DELIVERY

Sustainable Marine offers a full suite of services required to deliver a successful tidal energy project. We have extensive experience with working in challenging coastal environments, and can work with you to design, construct, and deploy the right system for the situation. As part of our turnkey solutions, our services begin with site surveying and evaluation. We then customize our PLAT-I platform to suit the location; we can vary the size of the platform to accommodate a range of turbine and rotor configurations.



Site Evaluation



Engineering



Procurement
& Construction



Installation

ANCHORING

Our anchoring systems work in all types of offshore environments. We can install reliable and dependable anchoring systems in the harsh offshore environment into seabed conditions ranging from compacted sand to tough basalt.

The anchors can be installed into the seabed quickly and reliably within very short windows of 'slack water' between otherwise rushing tides.

