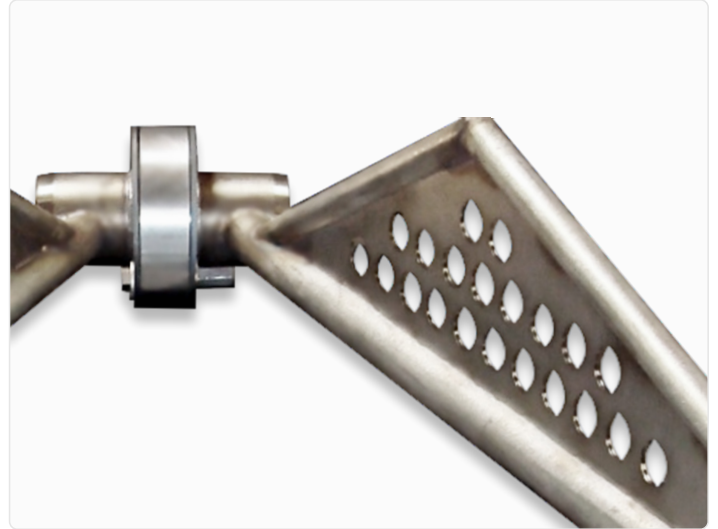
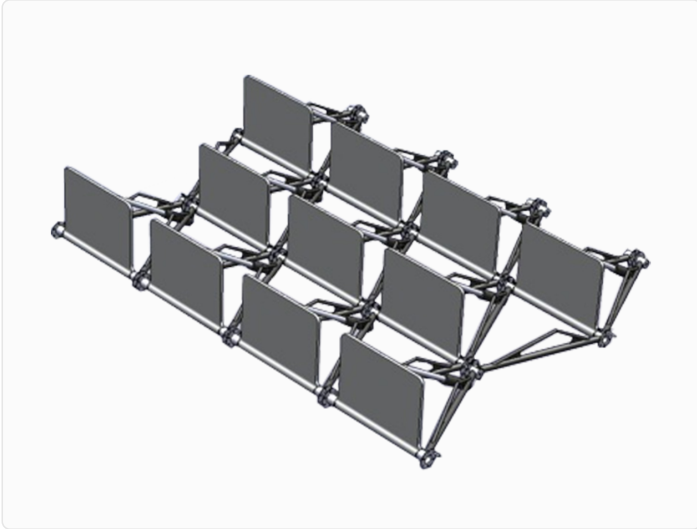


WET System for Wave Energy Transfer



At Shift Power Solutions, we are building the first prototype of our modular wave energy capture system. We have received funding for this work from the US Department of Energy and Oregon Wave Energy Trust. We are collaborating with Prof Ted Brekken and his team at Oregon State University, who are testing and analyzing the system.

Our goal is to take energy out of waves before they strike breakwaters and other marine structures. While the high power carried by ocean waves makes them attractive as a renewable energy source, their enormous power is also a destructive force that acts adversely on natural and manmade coastal structures. We intend to harness that energy instead to provide electricity that will reduce our reliance on fossil fuels.

There are a wide variety of coastal situations in which this type of energy harvesting would be useful. Therefore we have developed a modular system which allows installations to be tailored for specific locations without the cost of bespoke manufacturing. The modules are arranged in layers in front of a marine structure to extract the energy from the waves before they impact it. The number of modules can be adjusted to suit the prevailing conditions for any location, providing a scalable solution.

Shift specializes in unique Point Of Use - Point Of Generation systems that emphasize integration of renewable energy and technologies near the communities that use the power. Solutions include energy storage systems, point-of-use solar power, electric vehicle charge management systems, and the integration of water purification and power generation systems.