

Innovative Wave Energy Harvesting

Team: Leviathan Energy, Lawrence, New York

Location: Stony Brook University, New York

Technologies

1. Wave enhancement technology for more efficient capture, particularly enabling the wave capture to work better in low wave conditions.
2. A 3-degree of freedom reverse robotics approach that enables a platform connected to a base to move with the motion of the waves and adjust to height better than other technologies. Flexible installation connectivity. Modular construction.
3. Desalination approach that uses the capability of the heave and spin motions of the joints and platform to create both or either hydraulic pressure and electricity for maximal flexibility and efficiency of desalination. Open platform for many desalination approaches.