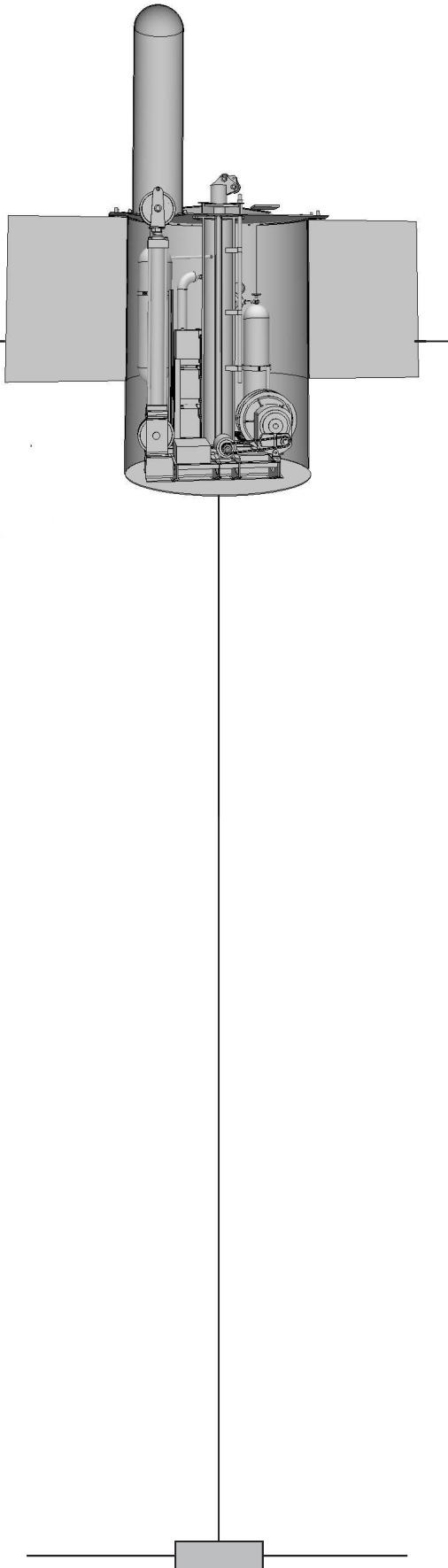




This project aligns with UNWSCO's Sustainable Development Goals by contributing to SDG 7 (Affordable and Clean Energy), SDG 14 (Climate Action) and SDG 14 (Life Below Water), through the deployment of small-scale wave energy converters, either singularly or in an array of units, in coastal environments. The initiative supports clean energy access, emissions reduction, and sustainable marine resource use. Additional indirect contributions are made to SDGs 1, 2, 4, 6, 9, 11, 12, 13, 15, 16, and 17 through improved livelihoods, innovation, and partnerships with in the blue economy.

G&J Wave Energy designed and patented a wave energy converter that can produce power during both the first and second halves of a wave period. The G&J Wave Energy converter consists of a design that is simple, rugged, and can be constructed out of commercially available materials and components. The wave energy converter design is omni-directional and scalable. The wave energy converter is adaptable and consists of a buoy and a power takeoff mechanism (PTO) design,. The design is flexible and can be easily modified to meet the requirements of specific geographic location wave and tidal conditions. The power conversion module is designed to be removable from the buoy for maintenance and repair.

G&J Wave Energy has designed and constructed a 1.5 Kw wave energy converter out of predominantly used and refurbished materials. G&J Wave Energy believes this design can provide coastal communities in developing areas of the world, means to obtain an inexpensive source of green energy.