Poly-Provocation

Reimagining ocean-bound plastics as an inexpensive and abundant building product with an emphasis on pairing with vernacular bamboo building. This scalable art, references the goals of the National Sustainable Tourism Framework 2024-2034, focusing on supporting local livelihood with the creation of clean energy, potable water, increasing health and repair of reefs, and new economic opportunities in harmony with local ecosystems. Collecting and utilizing ocean-bound plastic reduces waste, promotes the health of rare wildlife, provides tourism opportunities, and promotes new opportunities for the community to create. Traditional bamboo craft provides the framework with an abundant, renewable resource. Redundancies within the complementing clean energy and water systems generate an attitude of resiliency.

Stage 01

Construction of bamboo structure begins on the site. The structure will host PV array. Harvest of solar energy and storm water begins.





Stage 02

Solar energy and fresh water collected on site support the constuction of the solar pond array in the intertidal zone next to the jetty. Electrodialysis generates desalinated water and concentrated salt water which are pumped into the solar pond array, increasing the insulative properties and efficiency of the system. Excess fresh water from the electrodialysis loop is harvested along with recaptured condensation from the solar pond array.



Stage 03

Redundancy is created with the implementation of two methods for harvesting energy and fresh water. Surplus of resources can support other resiliancy efforts on the island.

By importing plastic waste collected from the ocean, components can be created on the island in support of these efforts while seeding an industry around the collection and utilization of plastic waste.

Bee farming and oyster farming. create new opprotunities for economic resiliancy and support the ecological resiliancy of ecosystems on land and in the intertidal zone.