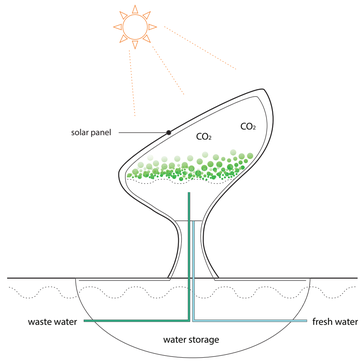
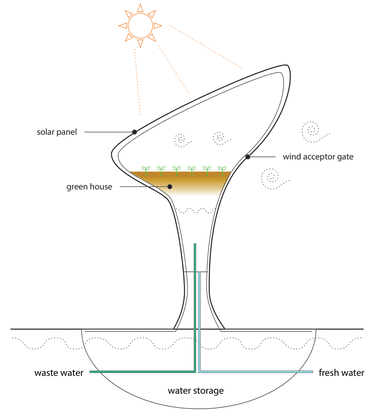
SITE PLAN / STRUCTURE / FUNCTIONAL DIAGRAMS

Site Plan

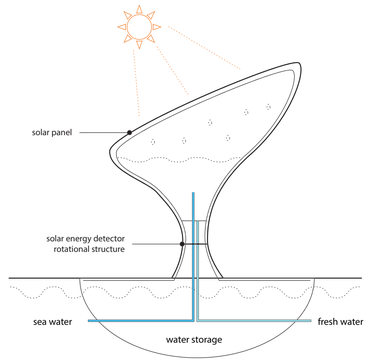
1 Passage/Constructive Wetland
2 Bird Observatory
3 Algae Farm
4 Overlook
5 Event Space
6 Open Terrace
7 Green House/Visitor Center
8 Seawater Desalination/Control Center



(1) Algae Farm



(2) Green House



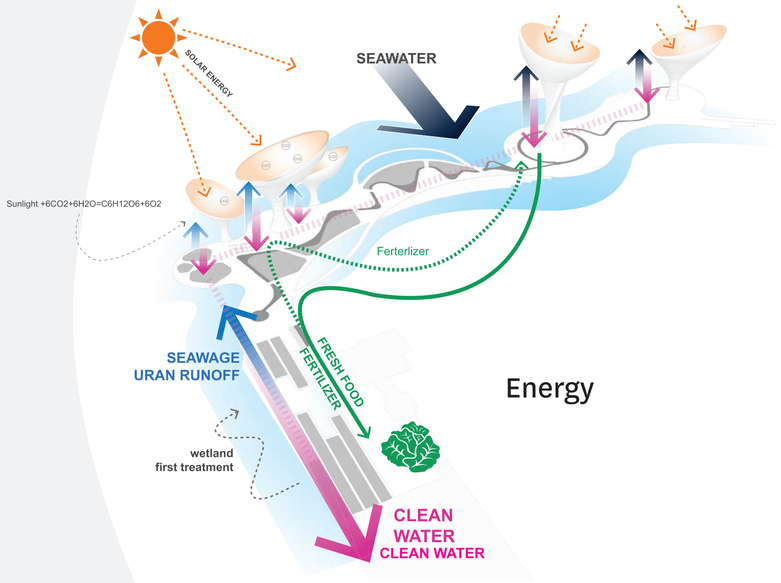
(3) Seawater Desalination Center

Main Structures

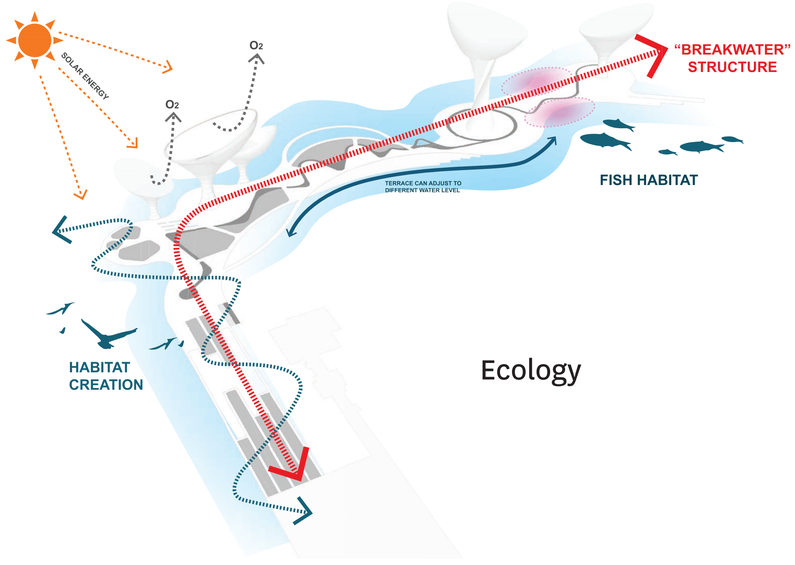
3 Algae Farm Structure
Surroundings: Open, Playscapes + Bird Habitat
The grand view of the site immediately unfolds at the last step from passageway. This area, which is composed of different playscape and bird habitat observatory, provides the public engagement to the site. The bird habitat observatory is located at the mounds where allows spectacular views to the South and to the iconic algae farm structures. The structures embrace the innovative method to grow algae, clean wastewater, produce biofuel and sequest carbon. Using solar energy, carbon dioxide and nutrients from the wastewater is converted into biofuels such as fertilizer and animal food. Furthermore, the harvested algae filters wastewater from the sewage.

7 Seawater Greenhouse/Local sea farmer's market
The seawater greenhouse utilizes solar energy to produce freshwater as well as crops by recreating the natural hydrological cycle within the framework. The structure has gigantic indent where allows the prevailing wind. The rotating roof structure follows the direction of the sun, gathering the maximum amount of solar energy exerted throughout the day. (This allows photosynthesis) The crops that are harvested in the greenhouse are transferred to the lower level, the local sea farmer's market. The building is both marketable and educational; the public not only gets the direct access to the sea farming products but also observes how seawater greenhouse functions.

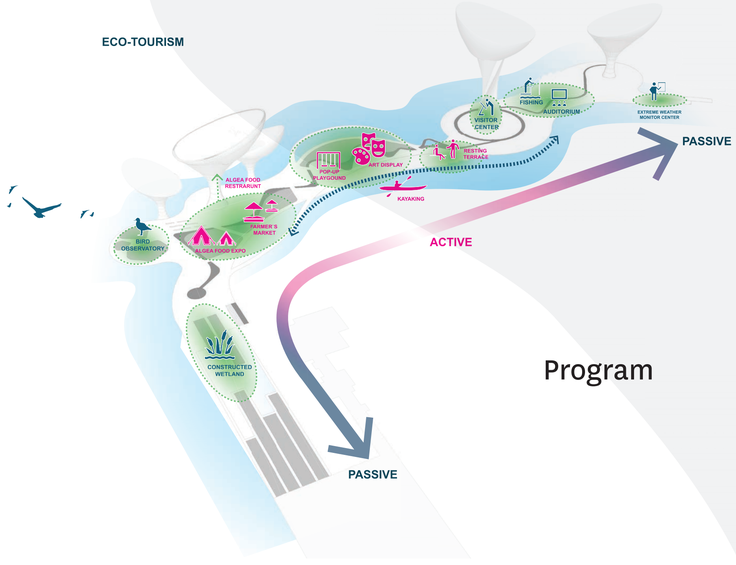
8 Seawater Desalination center
—Research Center for Education
This is divided into two sections; seawater desalination center on the upper level and the control center on the lower level. The research center organizes the entire system on the site and extends to the end North of the site. It controls seawater greenhouse, fish habitat, seawater desalination and other environmental challenges as preparation for the future.



Energy



Ecology



Program