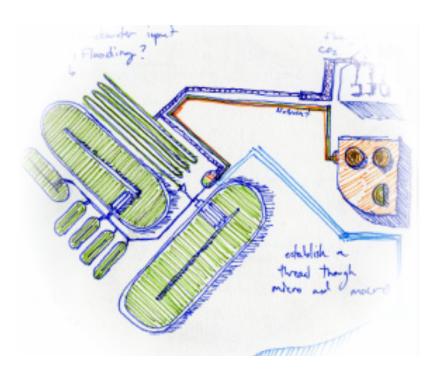
Assignment 2

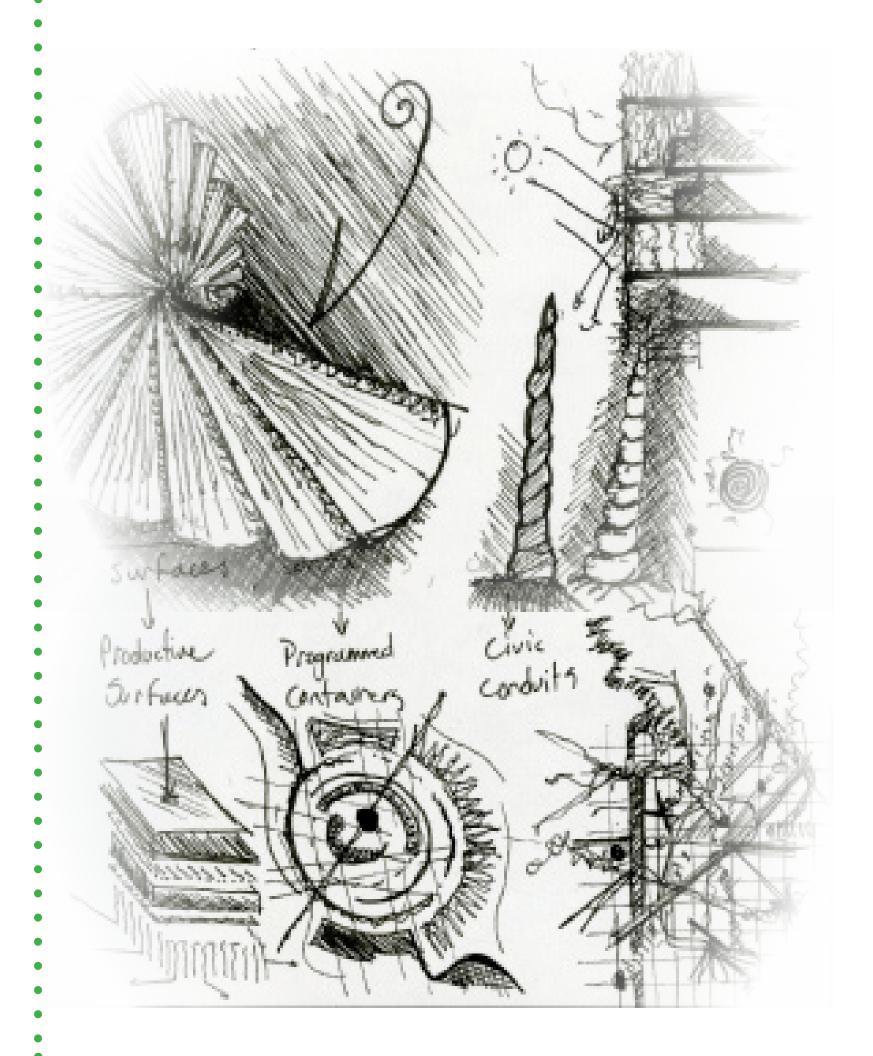
Algae Biofuels Eco-Machine (Network Interaction)

Sean McGadden









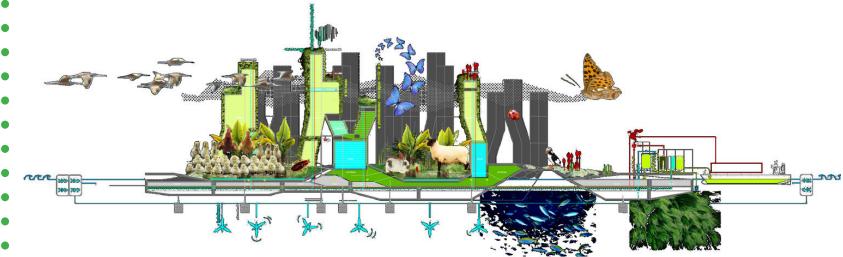
Hamburg, Germany ARUP 2013 First Algae Powered Building

This building was among the first of its kind to pilot micro-algae as a renewable energy source while also generating shade for the building. On hot days with high amounts of solar raditation, comfort within the building is maintained thanks to the increase in production of algae. The number one factor in algal growth is expsoure to sunlight. Algae is a natural DYNAMIC shading device. This building also uses biofuel as a renewable energy source produced by the shading devices.









Biocircuit:

This project is an Algae research facility in the heart of Baton Rouge Louisiana meant to house, educate, and facilitate research of students and scientists alike. This building uses Algae as a sun shader as well as a passive solar gain system. The algae system is both a physical penetration of the programmatic volume and a constant reminder of the stakes of algae research and education as well as a sustainable future. Proposal for a Louisiana State University Research Facility 2016 / Unbuilt

By Philadelphia University Graduate Landscape Architecture Students

thesis

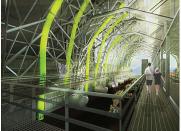




Faculty and student research in the field of biofuels allows for the campus to benefit from the advancement and expertise of both local and visiting

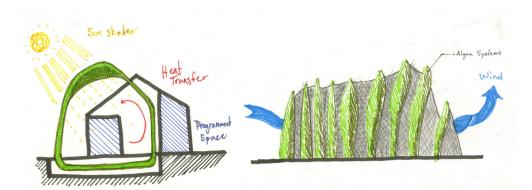


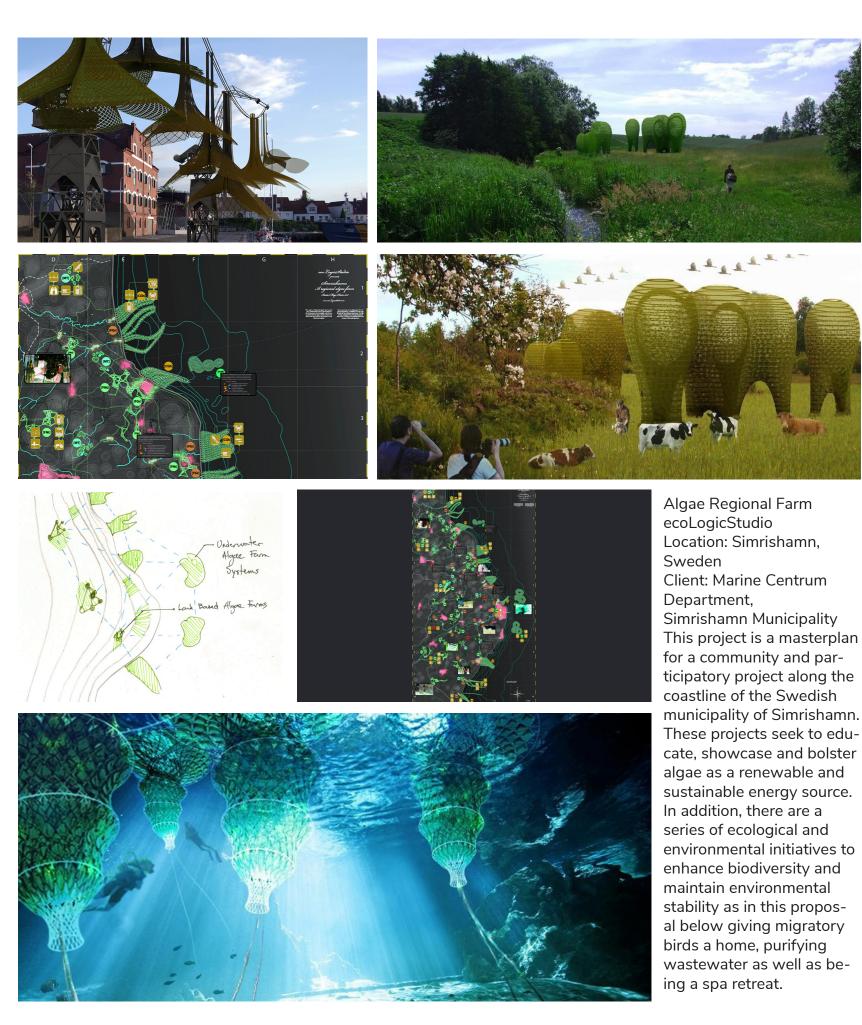
THE CITY THE CITY The LSU campus bus system also runs multiple routes through the heart of Baton Rouge, providing a public face to the research from the institute. Studies show that the economic benefits of algae biotechnology research include additional jobs and

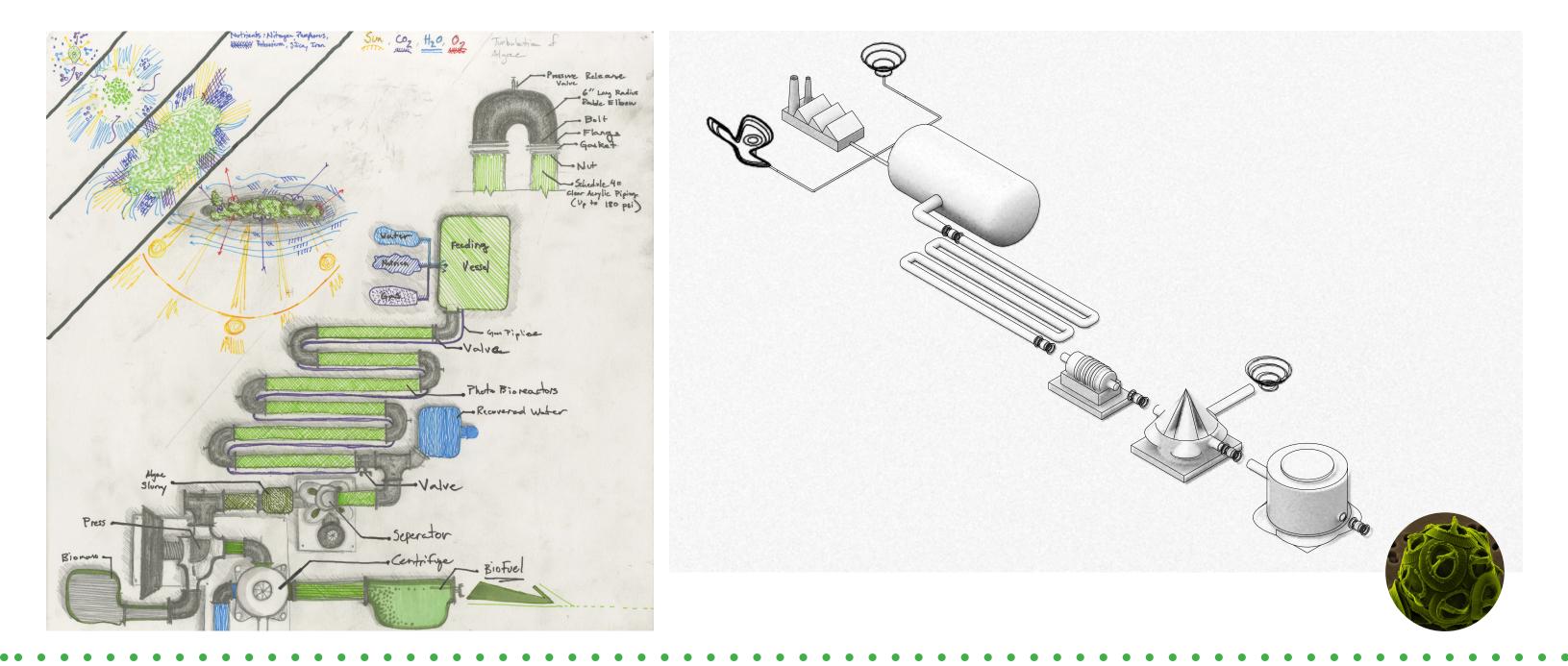








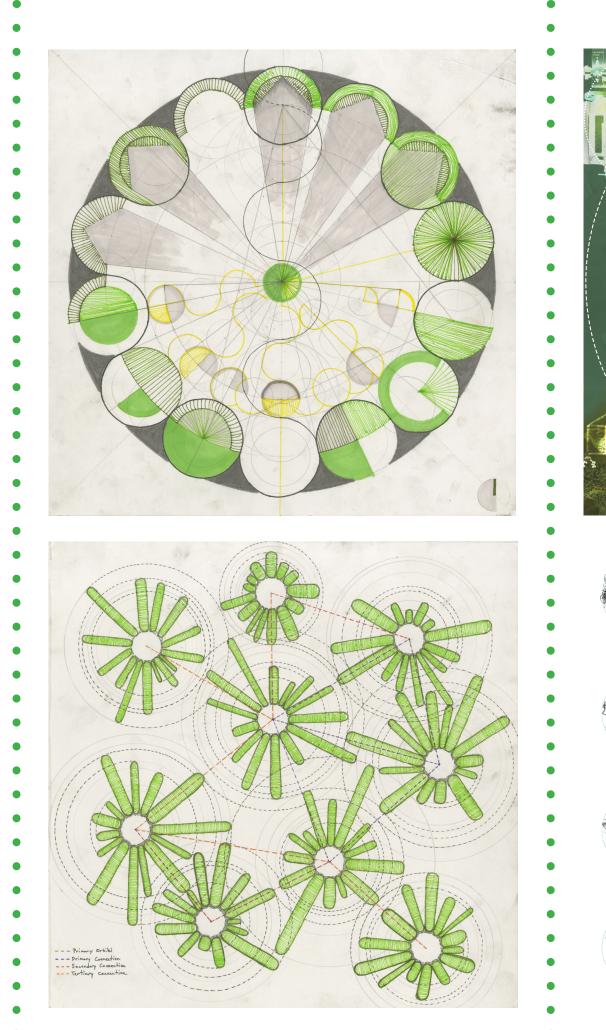


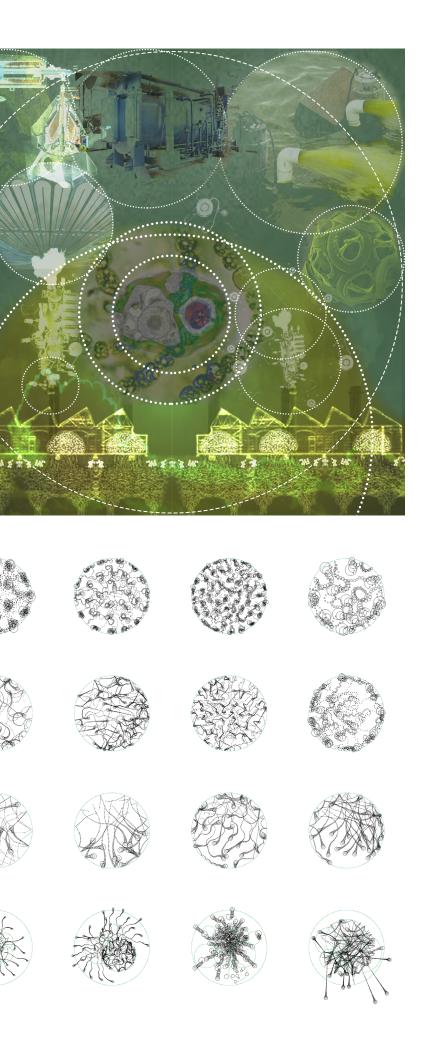


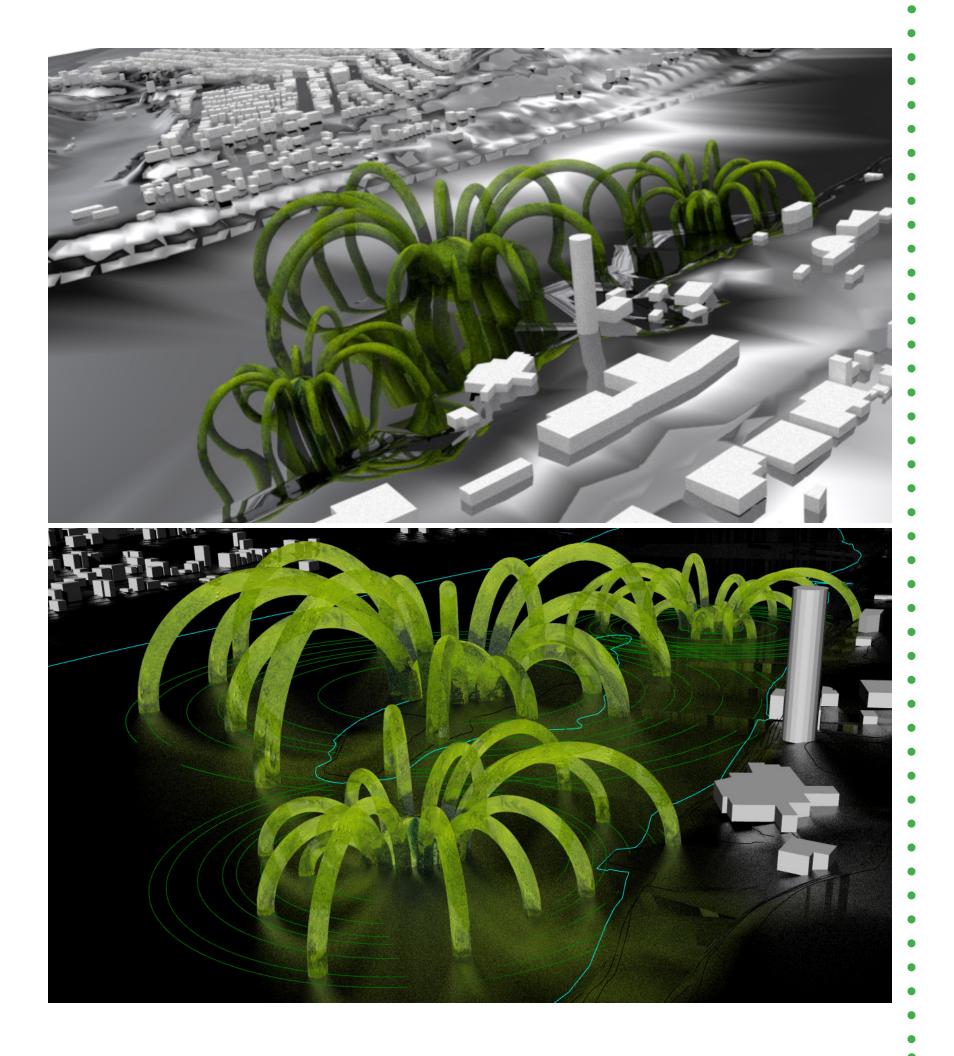
Ecological and natural forces applied to a mechanistic or industrial aesthetic and formal tendency to synthesize a singular process for the betterment of the environment and the beings that occupy it.











This site is fascinating for all the ecological and anthropomorphic elements that all find themselves at an intersection. As such these maps will seek to explore both sides of the story. A narrative of environmental impact from both human energy and natural forces in a cyclical and temporal manner will inform the site and eventually the architecture that occupies it. Understanding the potential for movement and energy forces acting on any site is integral in the formation of an architecture that can begin to engage its environment. This map begins to suggest the strength of environmental forces such as land wind and water that will significantly impact the architecture it accommodates.

