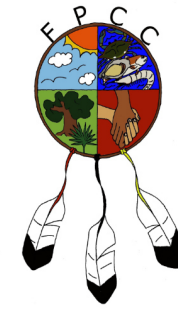


# Clean Energy Resilience for At-Risk Coastal Communities

## Lowlanders for Energy Justice

Based in the bayous of Louisiana, the Lowlander Center is a 501(c)(3) non-profit organization supporting lowland people and places through education, research and advocacy for over 14 years. Our team is a collaborative endeavor with the Atakapa-Ishak/Chawasha Tribe, and in partnership with Lowlander Center, Evans + Lighter, Drexel University, Harvard University, and subject matter experts.



## Solution: ISLANDER

Together with the Grand Bayou Atakapa-Ishak/Chawasha tribe, the team is developing novel combinations of technologies under the acronym ISLANDER. ISLANDER stands for Indigenous Sustainable Lifeways AND Energy Renewal. It integrates bioenergy, ecology, grid modernization and transportation. Some of the technologies we propose under this framework are:

- Conservation and Regenerative Ecosystem Overlay Zone
- Solar electric boat fleet, including barges, skiffs, fishing vessels and energy storage
- Integrated renewable energy portfolio: floating & roof mounted solar microgrid
- Waste to energy, including composting, & biomass/biochar
- Water collection, purification, remediation, fresh-water lensing & wetlands restoration
- Food Production, gardens, abundant ecosystem (fishing and hunting), polyculture
- TEK Ecosystem Restoration - restoration of lifeways

The Grand Bayou Indian Village, of the Atakapa-Ishak/Chawasha Tribe is located in a coastal wetland area south of New Orleans, LA and is accessible only by boat. Grand Bayou Indian Village experiences numerous infrastructure failures, including frequent power outages, lack of clean drinking water, and coastal erosion. These problems are increased due to the community's location and frontline status.