The industrial ecosystem: fossil fuels
Combine biofuel production with environmental clean-up
Multiple products from algae

- Oils (lipid) → Biodiesel
- Remaining organics → Biomass to liquid ethanol and butanol, CO₂; H₂
- Inorganic mineral → Fertilizer
Pilot Algal Floway at VIMS

Land-based algal floway
reference data for saline env’t
4 ft x 80 ft

Weekly harvest and sampling
dissolved nutrients
algal species composition
algal biochemical composition

Education opportunities
student projects over summer

Developing collaborations
contaminants (Unger, VIMS)
2nd generation biofuel production