

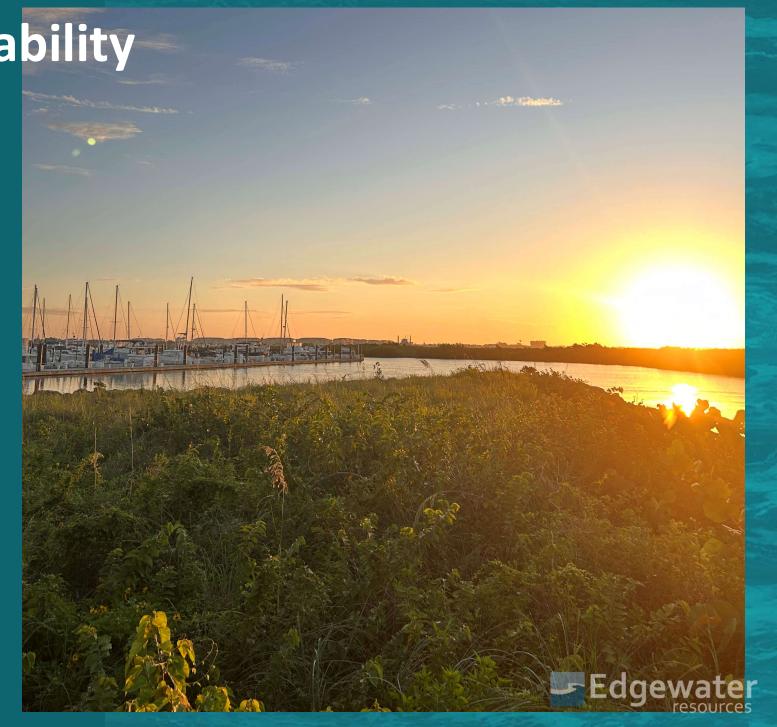
Integrating Sustainability Into Marina Design

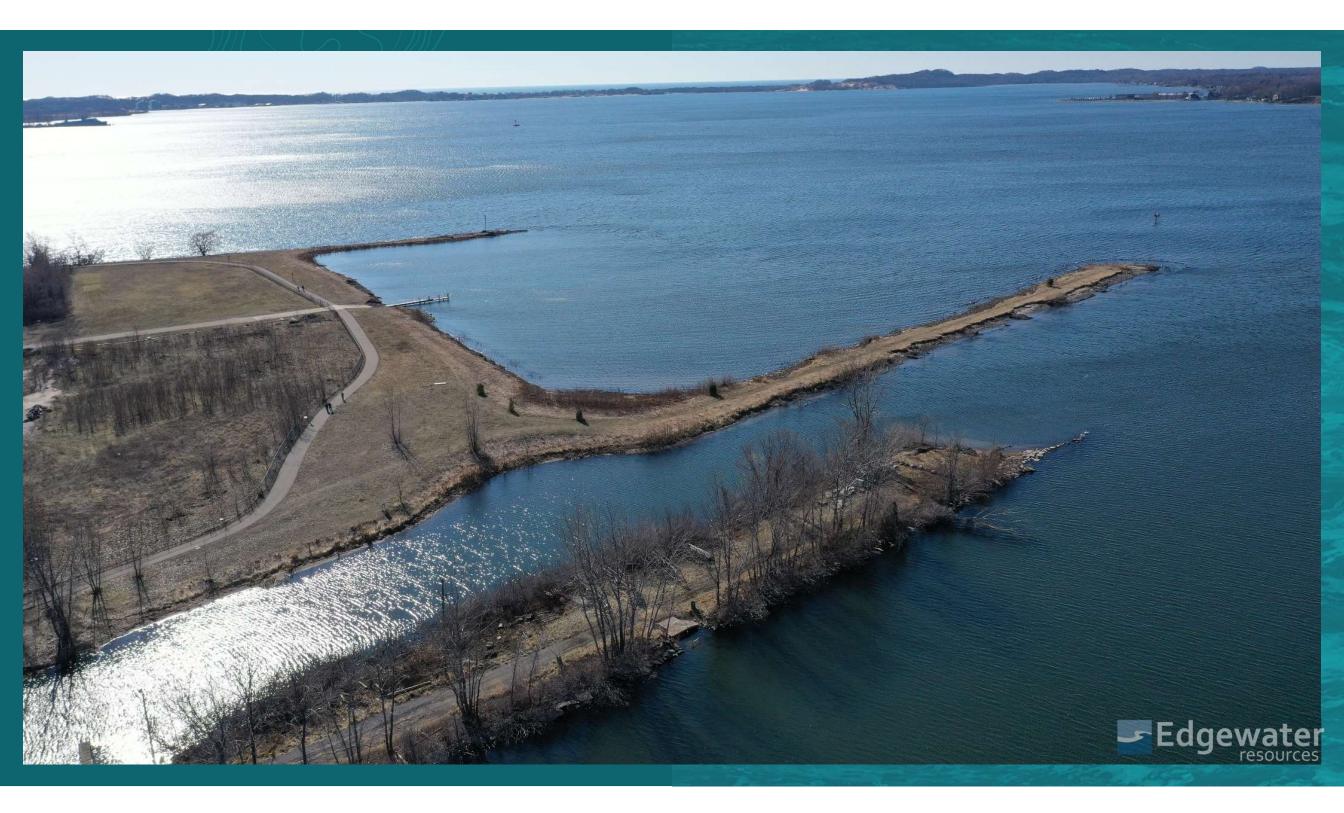
Dock Expo 2024

December 2024 |||

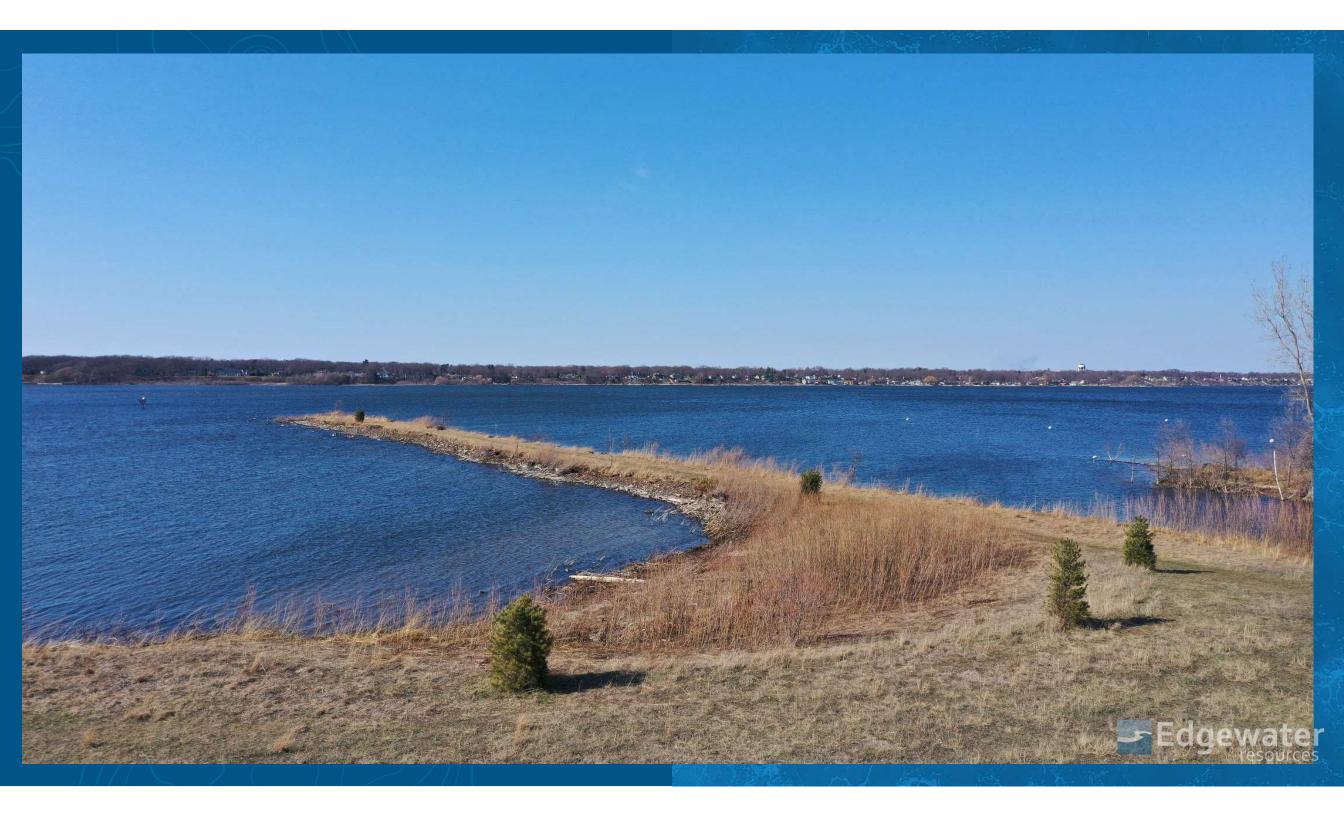
Why Integrate Sustainability Into Your Marina?

- Save Money / Increase Profits
- Improve Wave Climate
- Reduce Energy Costs
- Reduce Maintenance Costs
- Market Differentiation
- Expand Habitat
- Grant Funding
- Speed Up Entitlements
- Future Proof Your Facility
- Good for the Environment











Environmental Sustainability

- Brownfield Cleanup
- Solar Power Generation
- Wind Power Generation
- Green Roofs
- Dark Sky Lighting
- Native Plant Palette
- Soft Shoreline Habitat
- Michigan Clean Marina
 Certification





Integrating Public Access

- Permanent Public Easements
- Fishing Outcrops
- ADA Compliant
 Fishing Access
- ADA CompliantPaddlecraft Launch
- Public Fishing Pier
- Maintain SubsistenceFishing



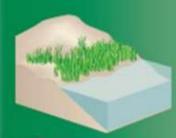




GREEN - SOFTER TECHNIQUES

GRAY - HARDER TECHNIQUES

Living Shorelines



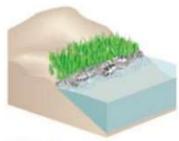
VEGETATION ONLY -

Provides a buffer to upland areas and breaks small waves. Suitable for low wave energy environments.



EDGING -

Added structure holds the toe of existing or vegetated slope in place. Suitable for most areas except high wave energy environments.



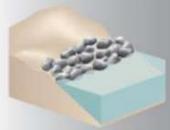
SILLS -

Parallel to vegetated shoreline, reduces wave energy, and prevents erosion. Suitable for most areas except high wave energy environments.



BREAKWATER-

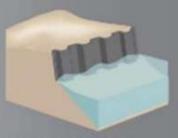
(vegetation optional) - Offshore structures intended to break waves, reducing the force of wave action, and encourage sediment hardened shoreline accretion, Suitable for most areas.



Coastal Structures

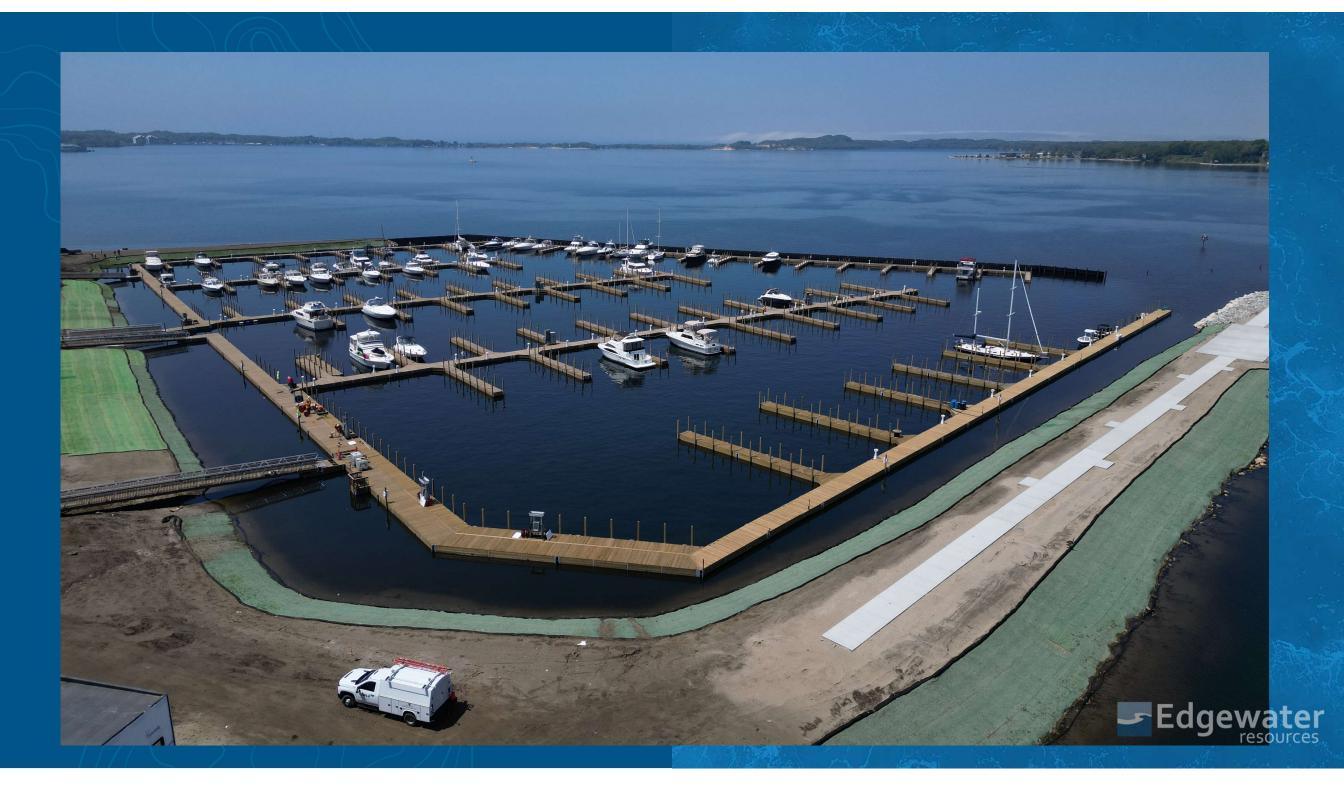
REVETMENT -

Lays over the slope of the shoreline and protects it from erosion and waves. Suitable for sites with existing structures.



BULKHEAD -

Vertical wall parallel to the shoreline intended to hold soil in place. Suitable for high energy settings and sites with existing hard shoreline structures.

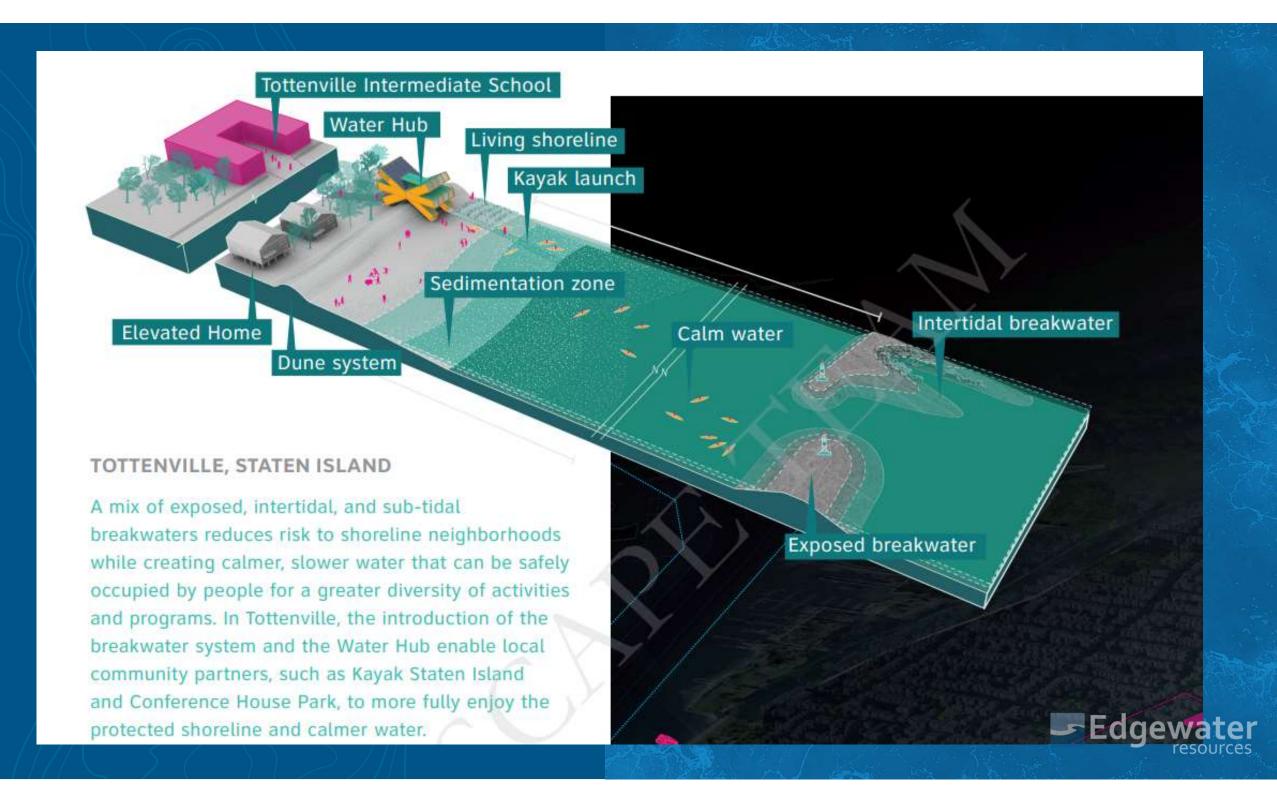


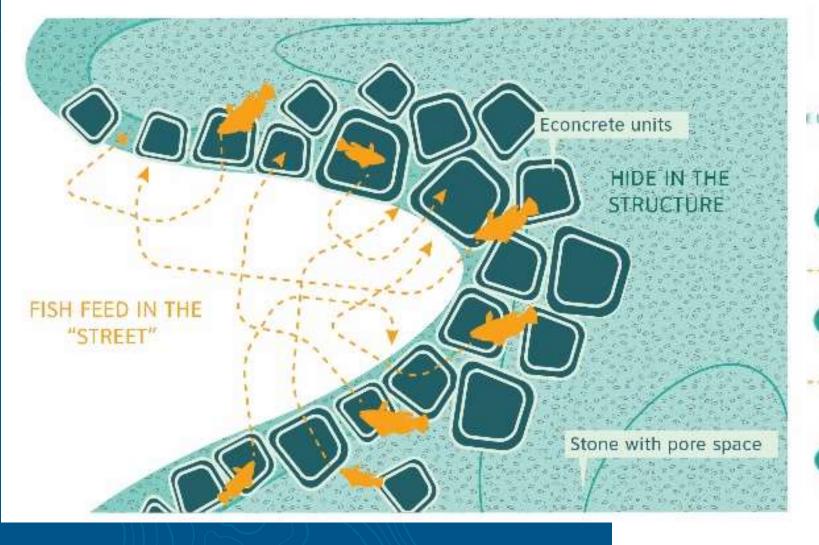


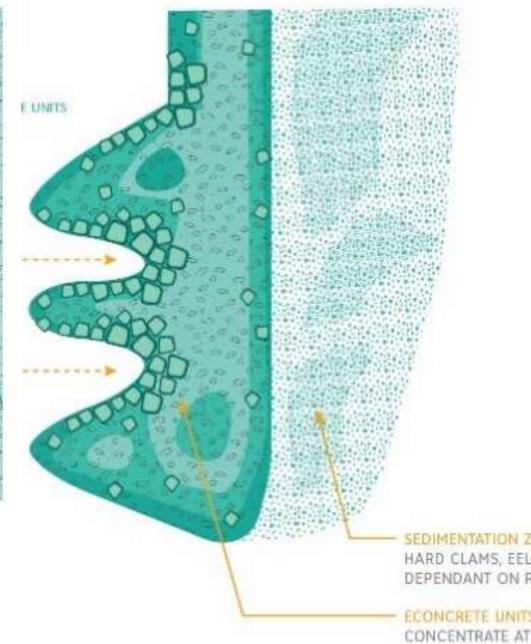
Financial Benefits

- Over \$40 million in Brownfield Funds
- Eliminated \$2 million in Shoreline Armoring
- \$1.5 million BIG Grant Funding
- \$1 million Public Fishing Access Grant
- \$50k Clean Vessel Act Grant
- Permit Approved



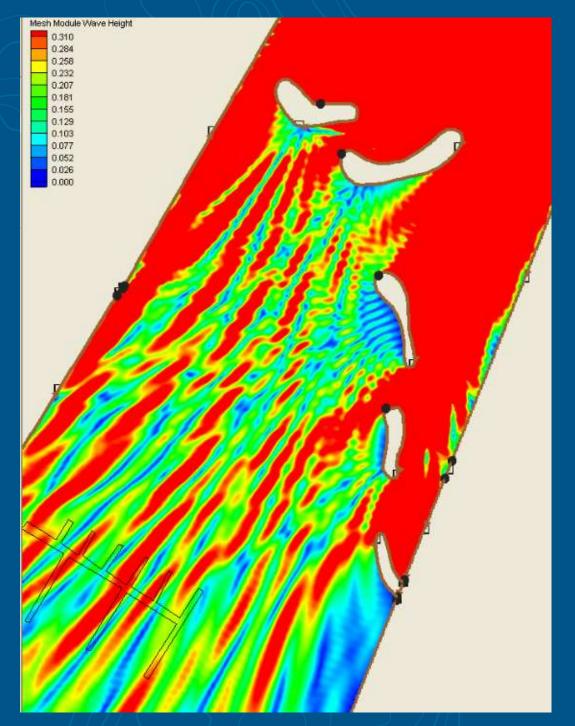




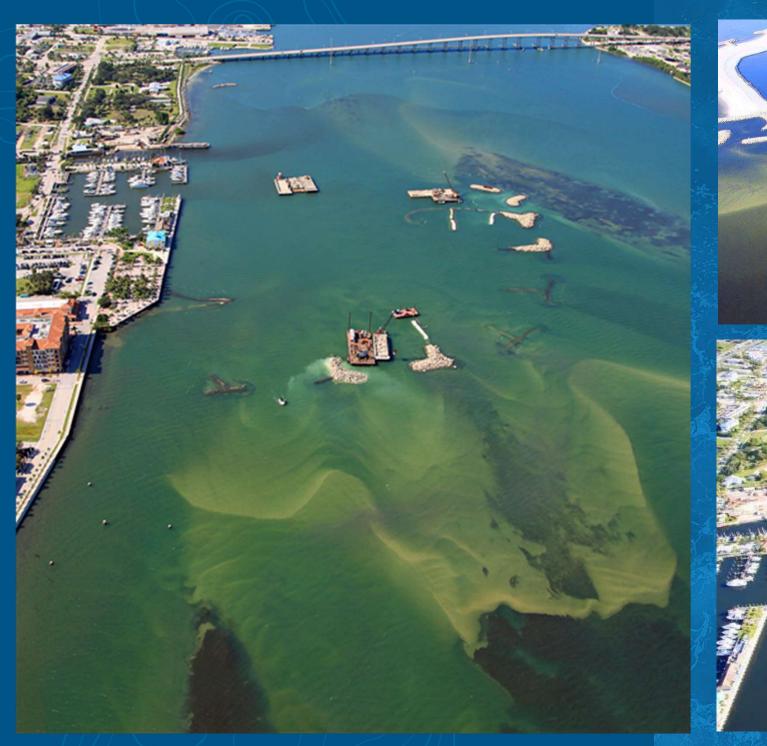


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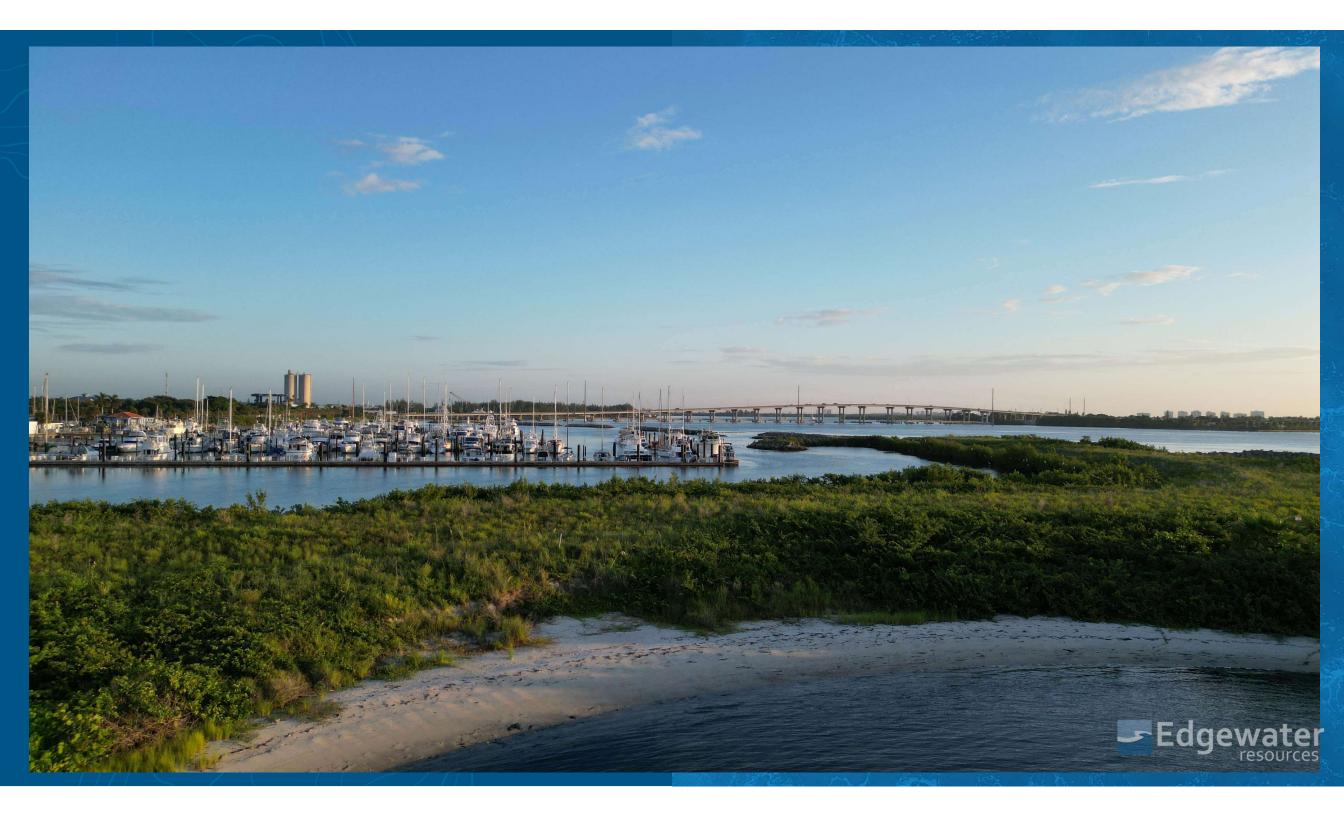


















Bio-enhancing admix



Texture agents

Science-based molds

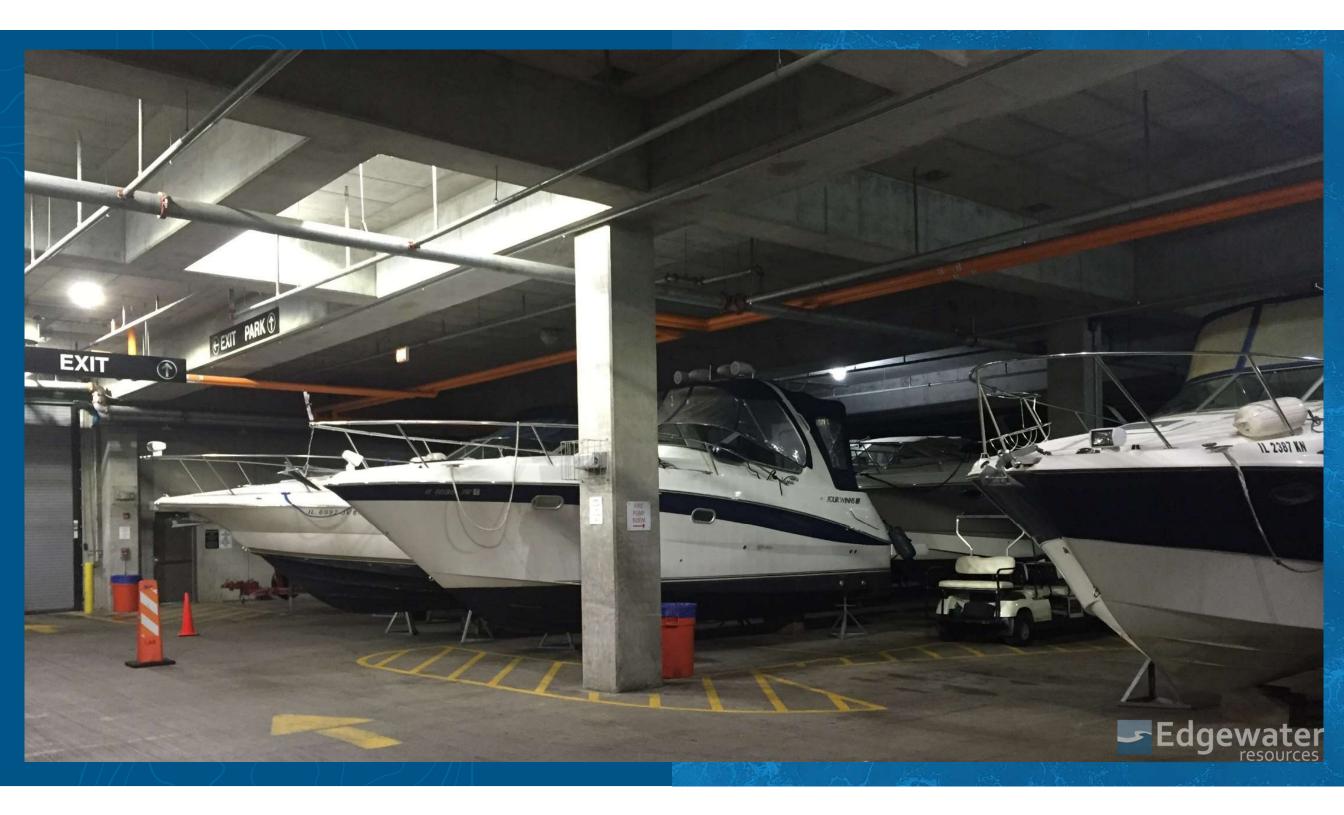
The macro design of our molds and moldinserts, enables the creation of ecological niches. These support the ecological uplift of infrastructure and provide added bioprotection, delivering increased strength and durability to the structure.











Electrify Everything

- Metering Reduces EnergyUse by Over 40%
- Heat Pumps can be 400%Efficient
- \$.50 kW Hour Means \$50 for a "tank" of Electricity
- Fewer Moving Parts, Less
 Maintenance
- The Grid Gets Cleaner
 Every Day

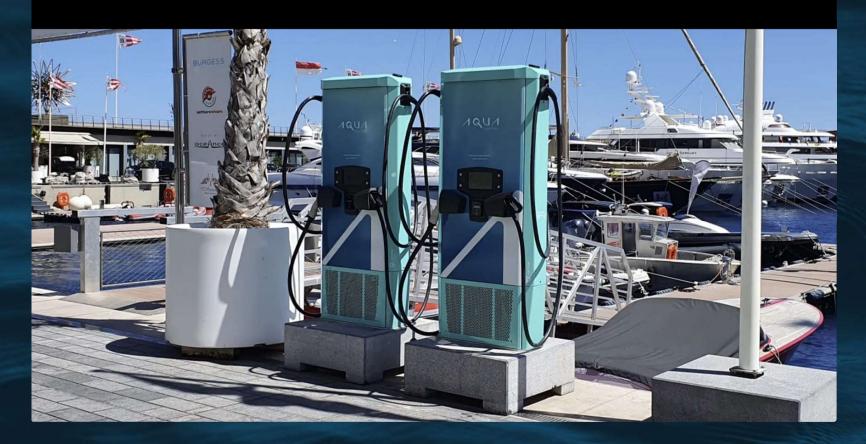


DECEMBER 21, 2021

Tritium partners with Aqua superPower to expand charging network for electric boats

Scooter Doll - Dec. 21st 2021 9:01 pm PT

@SCOOTERDOLL















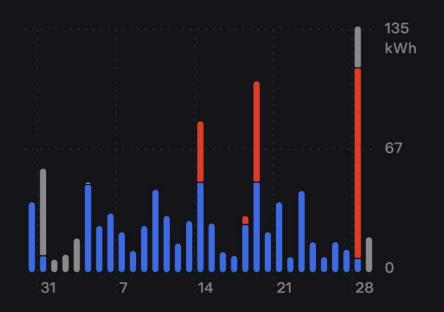
Charge Stats

Last 31 Days

Total Charged

Total Spent

920 kWh \$162





66%

21% Supercharger



12% Other







Thank You

PRINCIPAL & PRESIDENT

Greg Weykamp

269 408 6562

