

Zero-Emission Marine Infrastructure: DC Fast-Charging Network & Electric Vessel Deployment



South Florida Region | Marina Charging Infrastructure | Composite Hull & Powertrain R&D | Purpose-Built Vessel Technology | Multi-Agency Federal Funding Architecture

4

Core Innovation Pillars
Infrastructure · Technology · Vessels · Production

5+

Federal & State Agencies
Aligned to Project Scope

Multi-Agency

Funding Architecture
Federal + State + R&D Pathways

Florida

Target Hub for Zero-Emission
Marine Innovation & Production

Week 1

Engagement Start
Applications Begin Immediately

INITIATIVE OVERVIEW

This engagement supported the development of a comprehensive federal and state grant strategy for a South Florida company pioneering zero-emission electric marine vessel infrastructure. The client is driving adoption of electric boats and vessels by addressing the two core barriers to market growth: the absence of a seamless DC fast-charging network at Florida marinas, and the lack of purpose-built vessel technologies optimized for electric propulsion systems.

The engagement required mapping the client's four-pillar solution — marina charging infrastructure, electric vessel technology, data analytics optimization, and regional production capacity — to the federal and state funding programs most aligned with each pillar. GIVE Technologies architected a multi-agency funding strategy that sequences applications across infrastructure, R&D, and economic development pathways.

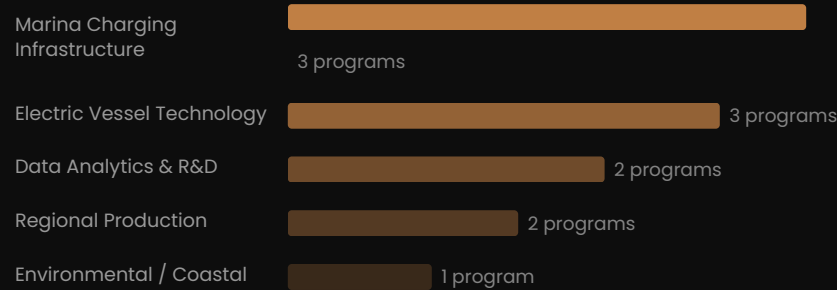
SOLUTION ARCHITECTURE PILLARS

- › **Marina Charging Infrastructure:** DC fast-charging hardware deployed across South Florida marina locations; partnerships with facilities managers, utilities, and equipment vendors for seamless integration
- › **Electric Vessel Technology:** Composite hull materials and proprietary powertrain innovations designed to maximize range, battery efficiency, and operational resilience
- › **Data Analytics & ML Optimization:** Advanced analytics platform optimizing charging network operations and vessel performance; R&D pathway to advanced energy programs
- › **Regional Production Capacity:** Florida-based manufacturing facilities to meet growing demand, create skilled jobs, and establish the state as a hub for electric marine production

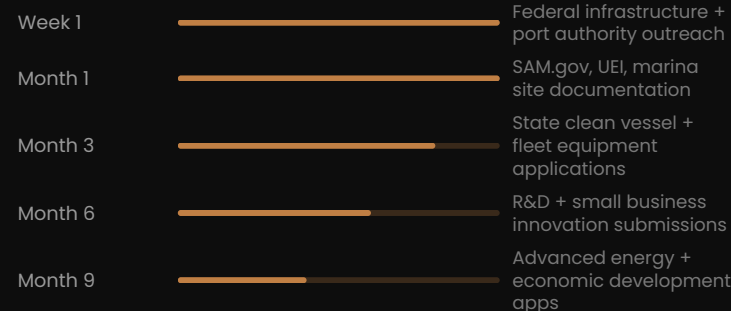
FUNDING STRATEGY & METHODOLOGY

COMPONENT	DESCRIPTION
Funding Architecture Design	Mapped each of the client's four innovation pillars to the federal and state programs with the highest alignment — sequencing applications by award probability, timeline, and strategic interdependency
Co-Applicant Strategy	Identified port authority co-applicants (major South Florida ports) to strengthen infrastructure grant applications and satisfy co-applicant requirements for federal port programs
Federal Compliance Toolkit	SAM.gov registration, UEI number acquisition, NEPA documentation, Buy America compliance, and environmental assessment preparation managed from Day 1 of engagement
R&D Pathway Development	Structured the composite materials and ML analytics work as a credible R&D narrative for small business innovation programs and advanced energy research agencies
Economic Impact Narrative	Developed regional economic impact analysis quantifying job creation, supply chain investment, and Florida's position as a zero-emission marine manufacturing hub — core to economic development agency applications
Partnership & Expert Network	Leveraged the client's existing partnerships with system designers, naval engineering experts, and project management firms to strengthen technical credibility across all applications

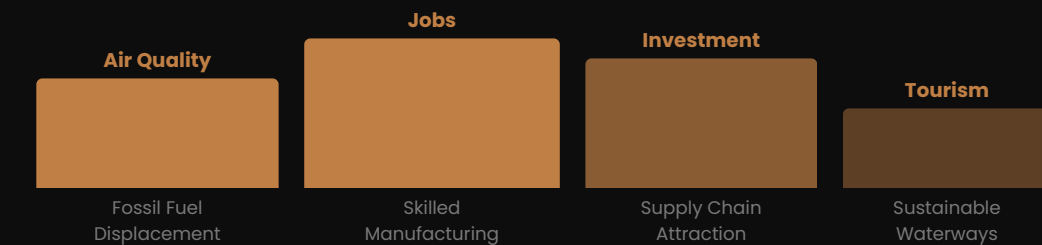
FUNDING PATHWAY BY INNOVATION PILLAR



ENGAGEMENT MILESTONE TIMELINE



ANTICIPATED IMPACT BY CATEGORY



GRANT STRATEGY

Strategy structured around federal priority areas of zero-emission port equipment and marine vessel technology — aligning the charging network and vessel R&D to funder emphasis on measurable emissions reduction and coastal impact.

SYSTEMS ARCHITECTURE

Multi-pillar architecture sequences infrastructure grants first to build federal credibility, followed by R&D and economic development applications — each award strengthening the narrative for the next and compounding probability.

COMMUNITY & ECONOMIC IMPACT

Florida's economic development narrative embedded at every level — job creation in shipyard manufacturing, supply chain investment, and tourism sector benefits — positioning the client as a regional economic anchor, not just a clean technology company.

