

Fostering Energy Resiliency and Future-Proofed Vehicle Electrification for Mashpee Wampanoag Tribe Through Deployment of Microgrid-Integrated EV Fast Charging at Grid-Constrained Tribal Locations

ElectricFish Energy, Inc.

Key Team Member:

- Vince Wong, Co-founder and COO, has 11 years of experience in management consulting, product marketing, and entrepreneurship

Community, Energy Challenge, and Proposed Solution Overview:

The Mashpee Wampanoag Tribe, also known as the People of the First Light, has inhabited present day Massachusetts and Eastern Rhode Island for more than 12,000 years, and currently has approximately 3,200 enrolled citizens. The Mashpee Wampanoag Tribe Community Development Corporation is committed to the implementation of technologies that will advance their goals of energy sovereignty, equitable climate resilience and development of clean energy on tribal lands.

The Tribe wishes to install high voltage electric vehicle chargers with embedded battery storage which can interface with the co-located solar which will be installed at each site. The desire is to have the chargers offer both grid support and on-site critical load support during power outages. The Tribe is interested in installing equipment that has the ability to interconnect with 208/240V electrical infrastructure of the site as well as 480V three phase power supply.

This project technology provided by ElectricFish will bring future-proofed energy infrastructure for electric vehicles on Mashpee Wampanoag tribal lands. Deployed at key sites within the community, the technology dually provides energy efficiency benefits for those local sites by reducing their electric loads and energy consumption. During emergency scenarios, the project technology provided by ElectricFish can also play a role in providing backup power resources as a microgrid to support uptime of critical tribal functions.

Partner:

- Self-Reliance Corporation (Megan Amsler, Executive Director) – Women-led nonprofit focused on clean energy transition and workforce development

