



FLORIDA'S EV INFRASTRUCTURE MASTER PLAN

An EV Future: Resilience and Reliability | 03/18/2021



FLORIDA'S EVMP



Provide Short- & Long-Range Travel Charging



Encourage Expanded EV Use Statewide



Serve Florida Evacuation Routes

Key Partners:



KEY TASKS



GIS: Gap Analysis & Potential Stations



Electric Grid Impacts & Providers



Policy Outreach & Education



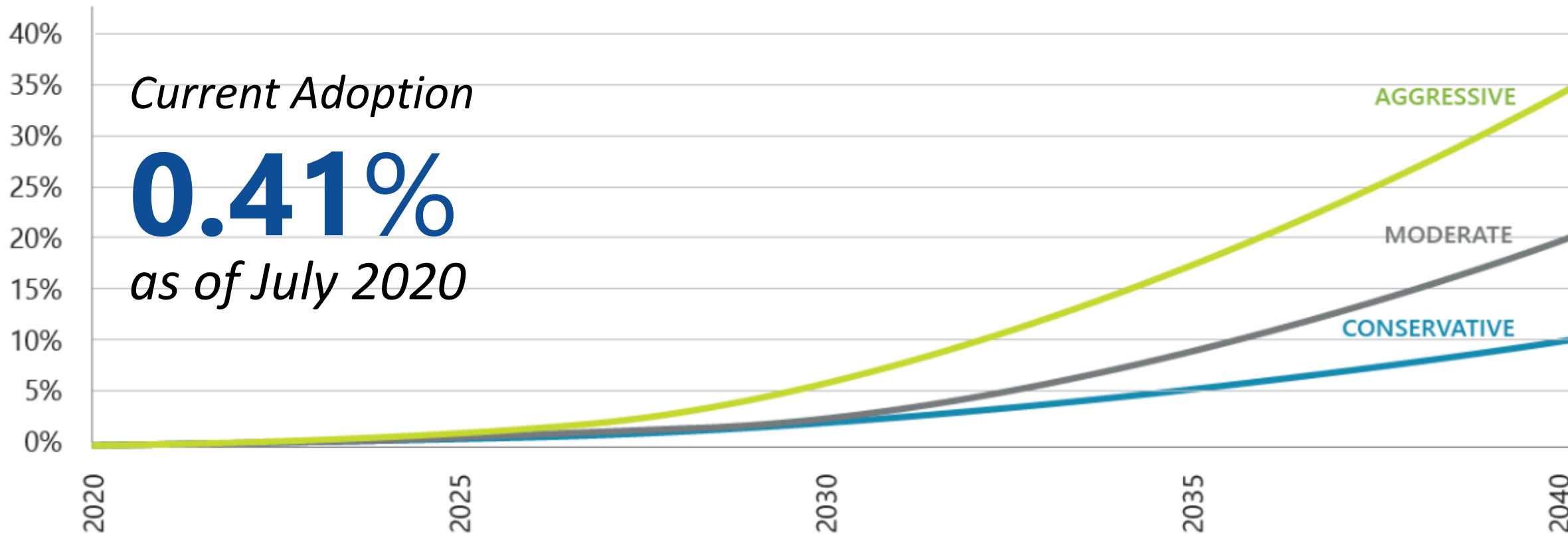
Projections & Revenue Strategies





FLORIDA EV MARKET ADOPTION PROJECTIONS

(LIGHT-DUTY VEHICLES)



IDENTIFYING NEW DCFC SITES

GAP ANALYSIS CONSIDERS:

Intersection
Proximity

EVSE
Proximity

Evacuation
Priority

AADT
Priority

NEW SITES

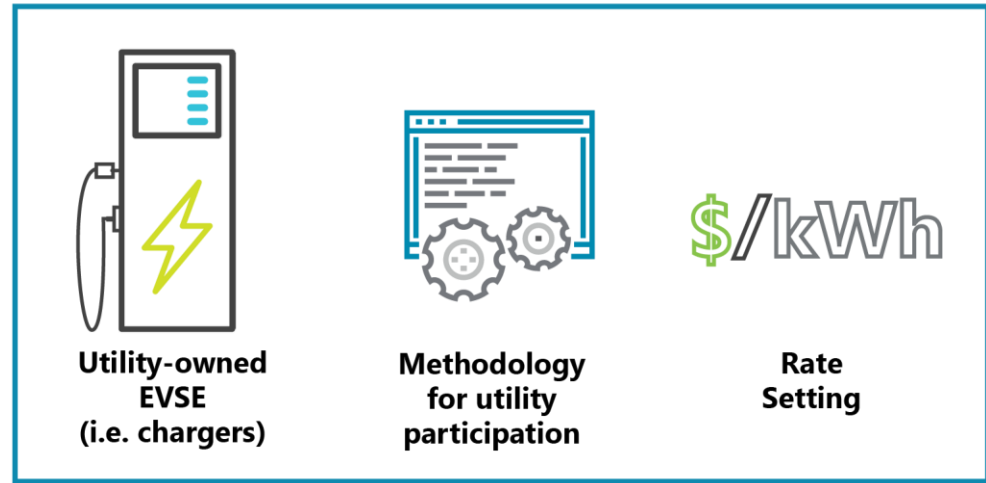
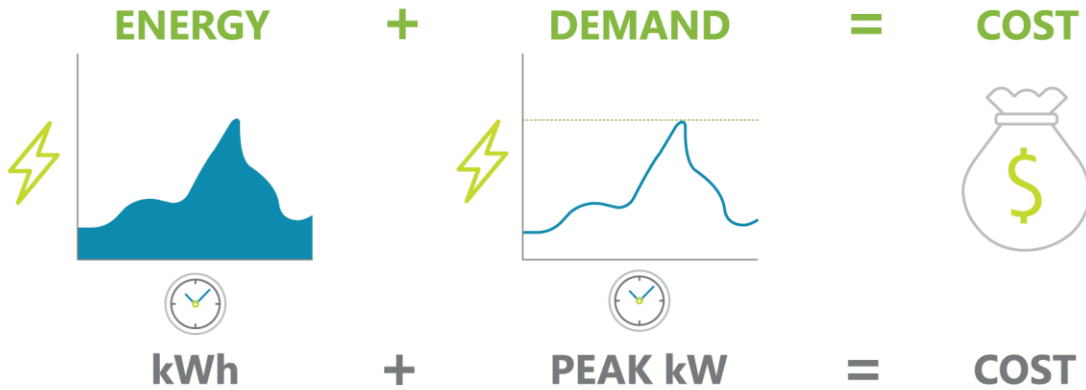
- Prioritize gaps for long-range & evacuation travel
- Identifies general areas
- **Build out EVSE network over time**



REGULATORY CONSIDERATIONS



Demand charges, especially for low-utilization sites, are one of the largest challenges for EVSE Service Providers (i.e., operators of charging stations)



**Make-Ready
Utility Investment**

**Third-Party
Profit-sharing
Public Investment**

**Utility
Owner-Operator**

**EVSE
Rebate**



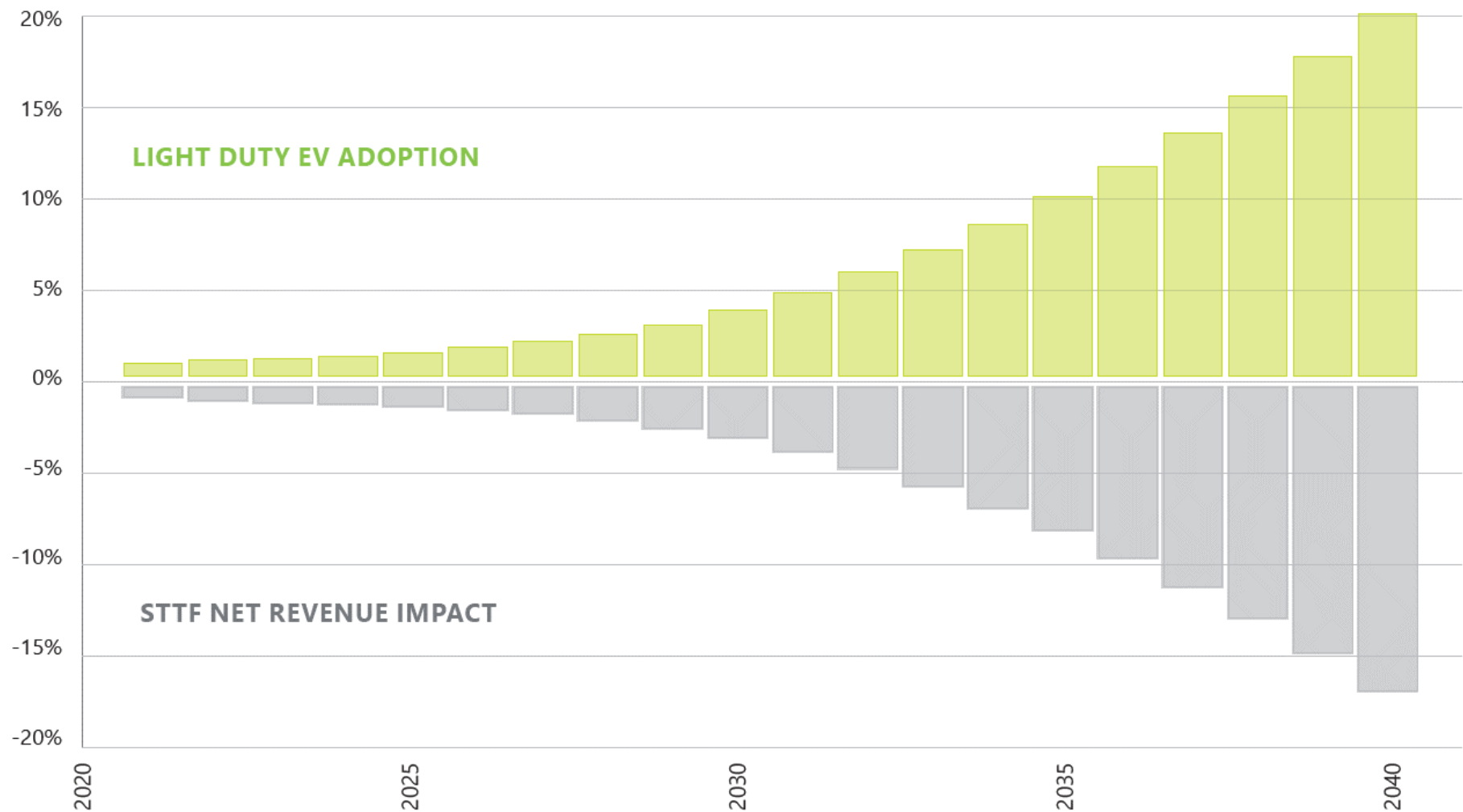
STTF NET REVENUE IMPACT PROJECTION



(MODERATE SCENARIO)

Year 2040 Impacts:

- Best Case Scenario: -8.4%
- Moderate Scenario: -16.6%
- Worst Case Scenario: -30.0%



IMPLEMENTATION

EVMP FRAMEWORK INITIATIVES



Lead



Build



Educate



Coordinate



Fund





LEAD

FLORIDA WILL BE A **LEADER** IN THE SUPPORT AND ADOPTION OF **ELECTRIFIED MOBILITY** AND ITS SUPPORTING **INFRASTRUCTURE**



Encourage Individual EV Adoption

Encourage Private Fleet EV Adoption

Encourage Public Sector EV Adoption





BUILD

FLORIDA WILL SUPPORT THE TRANSITION OF ELECTRIFIED MOBILITY THROUGH **THE INVESTMENT IN THE NEXT GENERATION OF INFRASTRUCTURE NEEDED TO SUPPORT ELECTRIC MODES**



Promote EVSE Infrastructure for Long-Distance Corridors & Evacuation

Promote the Installation of Community Charging Infrastructure

Phasing Approach for Plan Implementation





EDUCATE

FLORIDA WILL GENERATE, COLLECT, AND DISTRIBUTE THE **INFORMATION AND KNOWLEDGE** NEEDED TO SUPPORT THE STATE'S ELECTRIFICATION GOALS.



Support EV-Focused Education & Outreach

Support Local Jurisdictions & Agencies in their EV & EVSE-Focused Efforts





COORDINATE

FLORIDA WILL ENGAGE WITH THE STATES, STAKEHOLDERS, AGENCIES, AND COMMUNITIES TO **COORDINATE ELECTRIFICATION EFFORTS** AT A VARIETY OF SCALES.



Lead the Region to Advance a Comprehensive Approach

Regular Stakeholder Coordination for Implementation

Establish State Agency Roles & Responsibilities

Coordinate Utility Roles & Rates to Support the Goals



FUND



FLORIDA WILL PROACTIVELY PLAN FOR **NEW REVENUE STREAMS** AND SUPPORT ADDITIONAL INVESTMENT IN INFRASTRUCTURE TO SUPPORT EVS.



Mitigate Revenue Impacts

Identify & Pursue a Variety of Funding Options to Support EVSE Implementation



A woman with her hair in a bun, wearing a bright red coat and light blue jeans, is smiling as she plugs a charging cable into a white electric car. The car is parked in front of a modern building with large windows. The scene is brightly lit, suggesting daytime.

NEXT STEPS

FOR FLORIDA'S EVMP



Finalize Plan



Public Comments



Submit to Governor



Questions / Discussion / Thank You
FDOT.EVMP@dot.state.fl.us