



# FLORIDA'S EV INFRASTRUCTURE MASTER PLAN

*Public Webinar | 04/28/2021*





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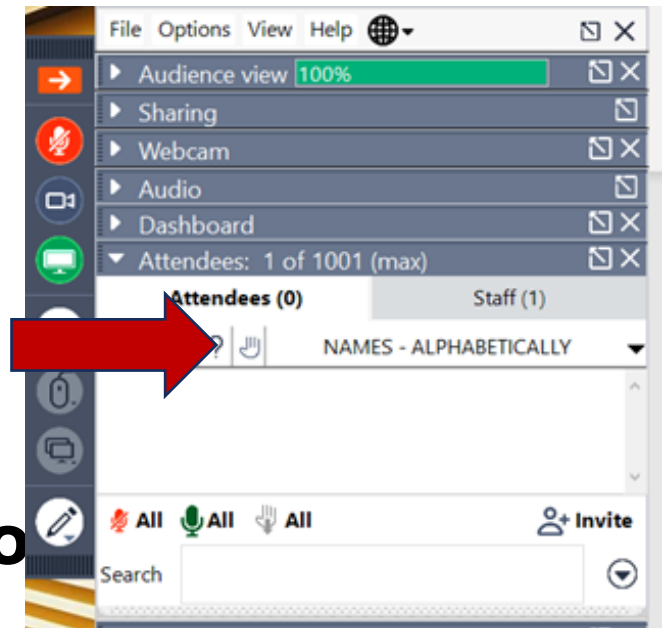


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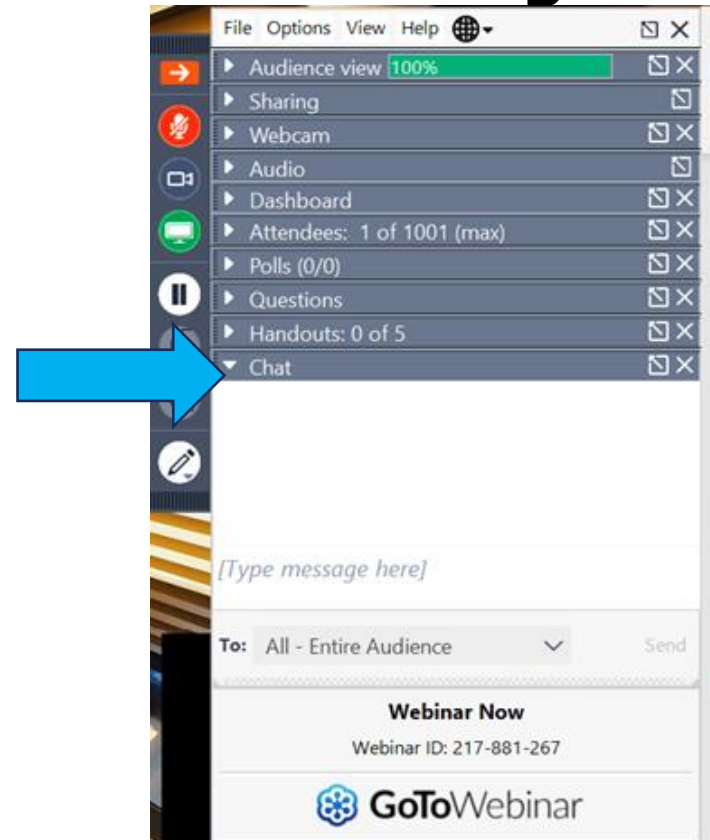


- Attendees can use the **“raised hand”** feature during the discussion to ask a question or provide comments.



# Housekeeping / Logistics / How to Interact

- Please utilize the **“Chat”** box to type in comments or questions throughout the webinar. Questions will be answered after the presentation during the Q&A session.



# Housekeeping / Logistics / How to Interact / Polling Intro

- Access the survey questions throughout the presentation at [www.menti.com](http://www.menti.com).

The sequence of screenshots illustrates the user journey from entering a poll code to viewing the results. The first screenshot shows the Menti website with the code '3247 6251' entered in the search bar. The second screenshot shows the code entered. The third screenshot shows the poll title 'Prioritize the Goals - Lead' and instructions: 'Select as many as you want in the order you prefer. There are 3 options in total.' The fourth screenshot shows a dropdown menu with 'Select an option' highlighted. The fifth screenshot shows the dropdown menu with 'Encourage Individual EV Adoption' selected. The sixth screenshot shows the final poll results: 'Done', '✓ Select an option', 'Encourage Individual EV Adoption', 'Encourage Private Fleet EV Adoption', and 'Encourage Public Sector EV Adoption'.



# FLORIDA'S EVMP



Provide Short- and 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



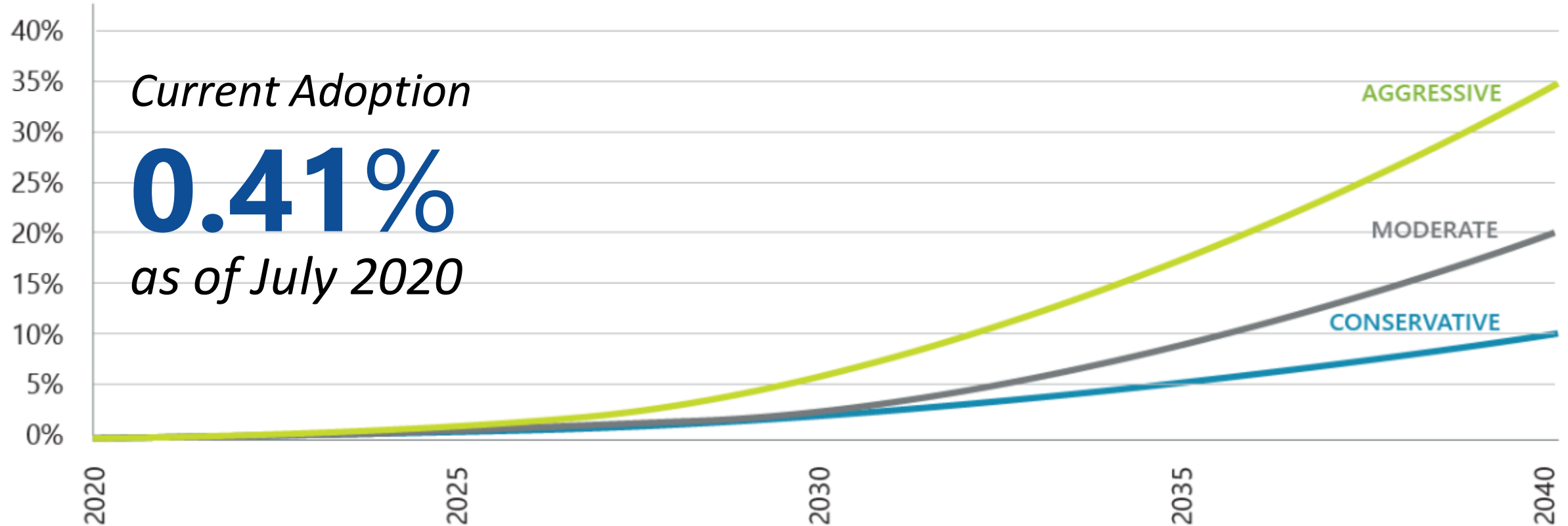
Projections & Revenue Strategies





# FLORIDA EV MARKET ADOPTION PROJECTIONS

(LIGHT-DUTY VEHICLES)





# IDENTIFYING NEW DCFC SITES

*(Direct Current Fast Charging)*

GAP ANALYSIS CONSIDERS:

Intersection Proximity	EVSE Proximity	Evacuation Priority	AADT Priority
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## NEW SITES

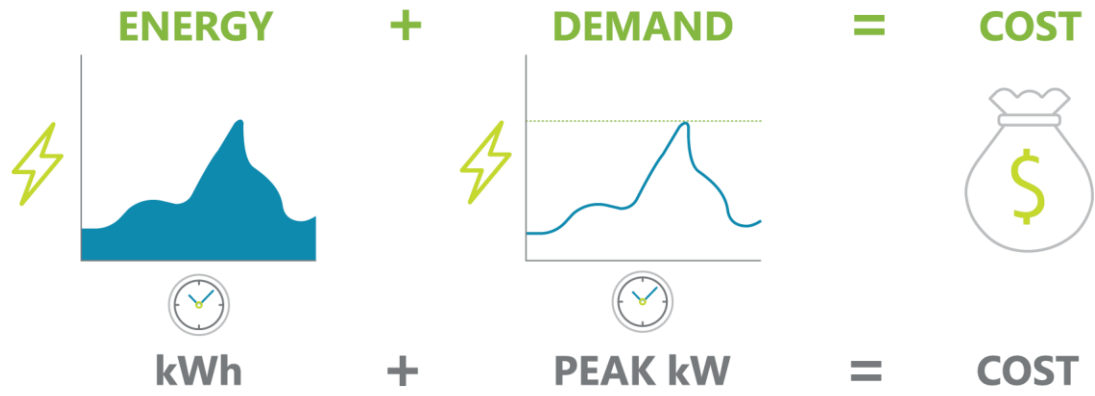
- Prioritize gaps for long-range and evacuation travel
- Identifies general areas
- **Build out EVSE network over time**



# 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)



Utility-owned EVSE (i.e. chargers)

Methodology for utility participation

Rate Setting

\$/kWh

**Make-Ready  
Utility Investment**

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

**Utility  
Owner-Operator**

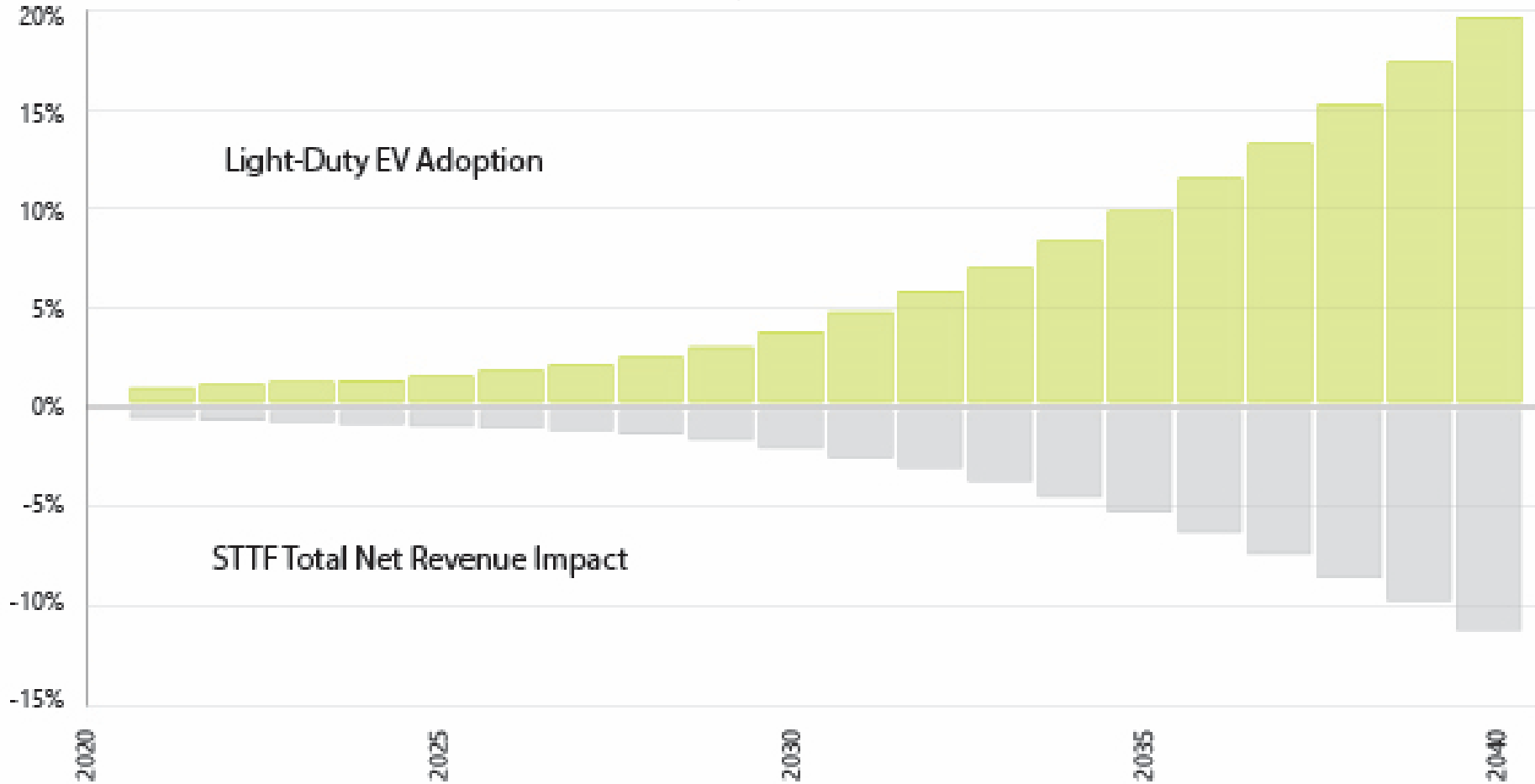
**EVSE  
Rebate**





# STATE TRANSPORTATION TRUST FUND (STTF) 20-YEAR TOTAL\* NET REVENUE IMPACT PROJECTION

## Moderate Adoption Scenario



**Year 2040 Impacts:**  
Conservative Scenario: -5.6%  
Moderate Scenario: -11.1%  
Aggressive Scenario: -20.0%

\*Includes all revenue streams



# IMPLEMENTATION

EVMP FRAMEWORK INITIATIVES



Lead



Build



Educate



Coordinate



Fund



# EQUITY IN THE EVMP

The EVMP incorporates equity into each aspect of recommended policies, targets, and action items to achieve the overarching goals of the EVMP. Equity, as defined for the EVMP, prioritizes fair and equal access, and incorporates criteria for mitigating potential social or economic status barriers to electric vehicles and charging stations.

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EVMP strategies supporting Equity will be highlighted throughout the Implementation Plan

 *Supports Equity*



# 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**

\*For this discussion, individual refers to consumer, private refers to private industry, and public refers to government.



# LEAD ACTION ITEMS



## Encourage Individual EV Adoption

- *Establish EV adoption targets*
- *EV purchase instant rebate*
- *EV purchase rebate for used vehicles*

## Encourage Private Fleet EV Adoption

- *Rental fleet incentive package*

## Encourage Public Sector EV Adoption

- *State fleet EV purchase mandate*
- *Municipal and transit EV fleet mandate*
- *EV fleet funding program*



**Mobile Poll! Go to [Menti.com](https://www.menti.com)**





# 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 and Evacuation**



**Promote the Installation of Community Charging Infrastructure**



**Phased Approach for Plan Implementation**





# BUILD ACTION ITEMS

## Promote EVSE Infrastructure for Long-Distance Corridors and Evacuation

- *Create an EVSE competitive grant program*
- *Create a state-run program to facilitate EV charging infrastructure in strategic areas*
- *Monitor Federal Rest Area Regulations*
- *Install EVSE at welcome centers*
- *Develop and deploy a mobile charging program to support evacuations*
- *Promote emergency EVSE accessibility*
- *Allow EVSE signage*
- *Require Open-Source Data*
- *Promote rental agency evacuation partnerships*
- *Include charging station locations on 511 app*

## Promote Installation of Community Charging Infrastructure

*Develop an innovative and ongoing funding program  
EV/EVSE Planning Program*

## Phasing Approach for Plan Implementation

*Implement a phasing and prioritization program*



**Mobile Poll!**  
**Go to**  
**Menti.com**





# EDUCATE

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



**Support EV-Focused Education and Outreach**



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



# EDUCATE ACTION ITEMS



## Support EV-Focused Education and Outreach

- *Develop and launch a consumer-oriented education and outreach program*
- *Develop a fleet and charging-site oriented education, outreach, and planning program*
- *Develop and launch a dealership and service-oriented education and outreach program*
- *Workforce development*

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

- *Practical Guidance*
- *Develop LRTP Guidance*
- *Develop model building and zoning codes*
- *Multifamily EVSE*
- *Require fast-tracked and streamlined EVSE permitting*
- *EVSE minimum functionality standards*
- *Mandate minimum EV-ready parking requirements*



**Mobile Poll! Go to Menti.com**





# 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 and Responsibilities**

**Coordinate Utility Roles and Rates to Support the Goals**



# COORDINATE ACTION ITEMS



## Lead the Region to Advance a Comprehensive Approach

- *Interstate Coordination*
- *Southeast MOU*
- *ZEV MOU*
- *NESCAUM MD/HD MOU*

## Regular Stakeholder Coordination for Implementation

- *Florida EV stakeholder group*

## Establish State Agency Roles and Responsibilities

- *Program Charter*
- *Planning Continuum*

## Coordinate Utility Roles and Rates to Support the Goals

- *Grid benefits and Impacts*



**Mobile Poll! Go to [Menti.com](https://www.menti.com)**



# FUND

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

Mitigate Revenue Impacts

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





# FUND ACTION ITEMS



## Mitigate revenue impacts

- *Adopt an EV registration fee supplement*
- *Pilot an EV RUC program*
- *Explore utility-based fee structure*
- *Become involved at the national level*

## Identify and pursue a variety of funding options to support EVSE implementation

- *Continuously monitor Federal funding programs*



**Mobile Poll! Go to [Menti.com](https://www.menti.com)**



# NEXT STEPS

FOR FLORIDA'S EVMP



Finalize Plan



Public Comments



Submit to Governor



Mobile Poll! Go to [Menti.com](https://www.menti.com)





# Public Comments

- REVIEW THE ELECTRIC VEHICLE MASTER PLAN: [WWW.FDOT.GOV/PLANNING/FTO/EV/DEFAULT](http://WWW.FDOT.GOV/PLANNING/FTO/EV/DEFAULT).
- SUBMIT COMMENTS IN THE **EVMP COMMENT FORM**.

Forecasting & Trends Office / EVMP

## Electric Vehicle Infrastructure Master Plan (EVMP)



### Purpose

Section 339.287, FS requires the Florida Department of Transportation (FDOT) to coordinate, develop, and recommend a Master Plan for the development of electric vehicle charging station infrastructure along the State Highway System (SHS).

### Goals and objectives

- Support both short-range and long-range electric vehicle travel;
- Encourage the expansion of electric vehicle use in the state; and
- Adequately serve evacuation routes in the state.

### Electric Vehicle Master Plan – Available for Public Comment April 28-May 28

- Electric Vehicle Master Plan (EVMP)
- Let us know your comments on the EVMP using the webform: [EVMP Comment Form](#)

### Upcoming Events

Wednesday, April 28, 2021 - EVMP Stakeholder Webinar  
10:00-11:30 A.M.

[Register Now](#) (Click on the link to register.)

Please confirm your attendance by registering online by **April 26, 2021**.

### Materials

[EVMP Status Report \(12/01/2020\)](#)

[EVMP Stakeholder Webinar Presentation \(11/12/2020\)](#)

### Contact

For questions or comments, please email [FDOT.EVMP@dot.state.fl.us](mailto:FDOT.EVMP@dot.state.fl.us).





# Public Comments

Forecasting and Trends Office /EVMP/ EVMP Comment

## Electric Vehicle Master Plan Public Comment Form



**Thank you for your interest in the Draft Electric Vehicle Master Plan.** You may use this form to submit up to 10 comments about specific content sections, or you may upload your comment file. If you have additional comments, please feel free to complete and submit this form additional times.

\* Required fields are indicated with a red asterisk

### Your Contact Information

Name    
First Name Last Name

Email \*   
example@example.com

Organization

### Your Comment

Select the relevant EVMP section \*





# Public Comments

- Select the relevant comment topic(s) \*
- Equity
  - Utility
  - Fees
  - Funding
  - State Transportation Trust Fund Revenue
  - EV Charging Infrastructure
  - Evacuation Routes
  - EV Utilization Rates
  - Public Outreach
  - Local Government Issues/Opportunities
  - Rest Areas
  - ADA
  - Partnership
  - Transit
  - Fleets
  - Heavy Duty Vehicles


Write your comment in the box below

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Would you like to add a second comment?  Yes

File upload (optional, 20MB maximum)

  
**Browse Files**  
Drag and drop files here

Submit





**Questions / Discussion / Thank You**  
**[FDOT.EVMP@dot.state.fl.us](mailto:FDOT.EVMP@dot.state.fl.us)**