



Department of
**Environment &
Conservation**



TDOT
Department of
Transportation

**Statewide Electric Vehicle (EV) Infrastructure Development &
Updates on Federal Funding Opportunities for EVs and Altern
Fuels Deployment**



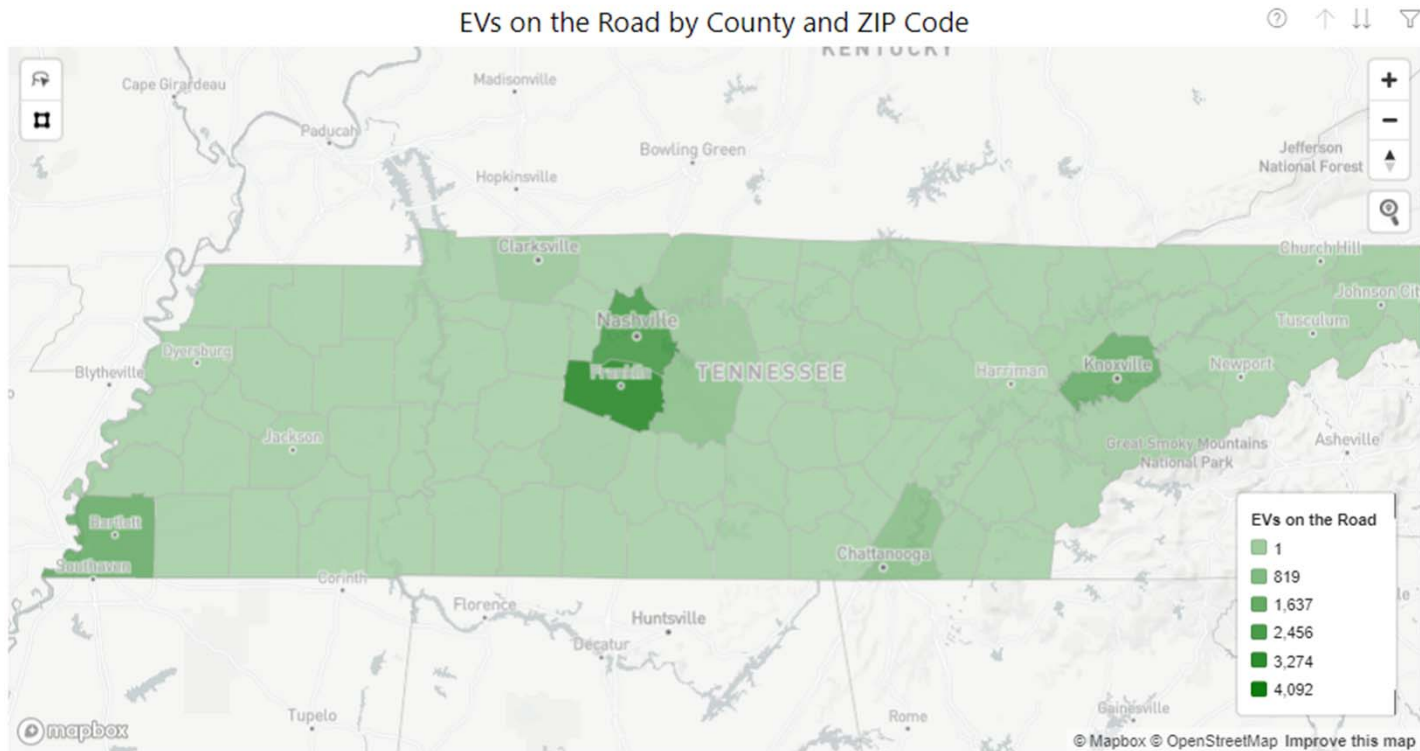
Agenda

- Drive Electric TN
- Fast Charge TN Network
- Rivian / Tennessee State Parks
- Tennessee Electric Vehicle Infrastructure (TEVI) Program
- Justice40 Considerations
- Stakeholder Engagement / Technical Assistance
- EPA's Clean School Bus Program
- Regional Collaboration – SE REVI
- State Energy Policy Council



Drive Electric TN

Formed in 2018, the Drive Electric Tennessee consortium (DET) has a goal to increase EV adoption in Tennessee from approximately 9,600 EVs in 2019 to 200,000 vehicles by 2028. As of June 2022, there are 20,300 EVs in Tennessee.



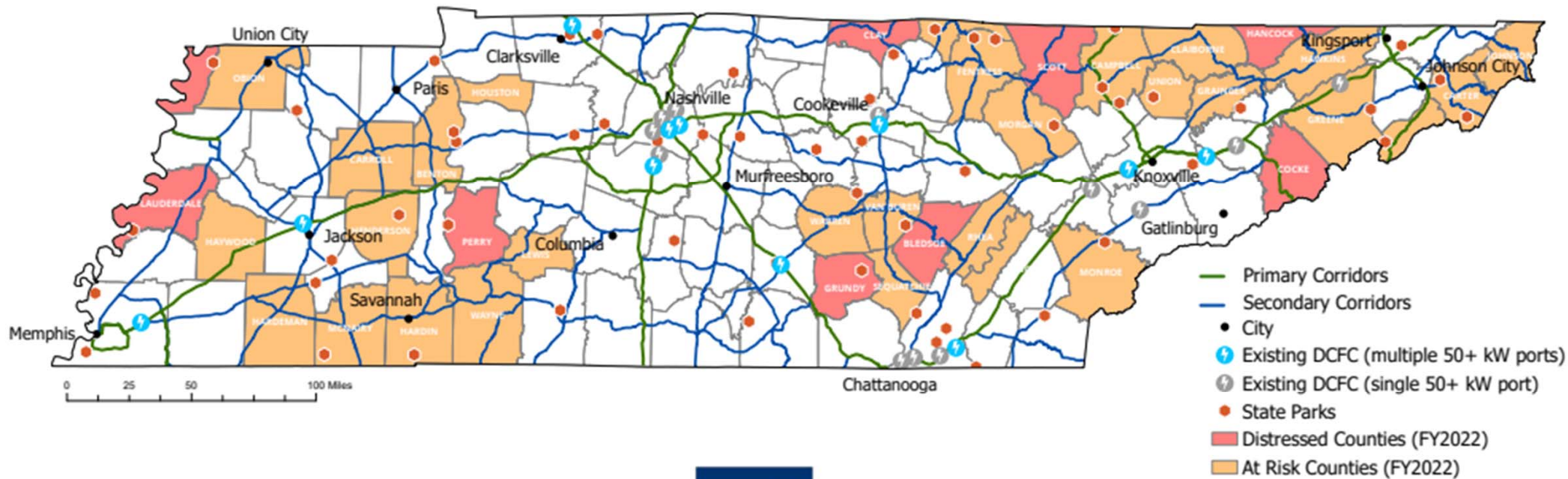
Drive Electric TN / Statewide Needs Assessment

- DET conducted a Statewide Electric Vehicle Charging Infrastructure Needs Assessment in late 2019 to evaluate charging needs and potential geographic locations to support increased electric vehicle adoption.
- The Needs Assessment found that the following charging infrastructure use cases were best suited for public investment:
 - Highway corridor charging, to connect rural and urban areas and relieve range anxiety; and
 - Other secondary market sites, including rural destination charging, limited income community charging, etc.

The logo for the state of Tennessee, consisting of a red square with the letters "TN" in white, and a blue horizontal bar below it.

TN

Fast Charge TN Network

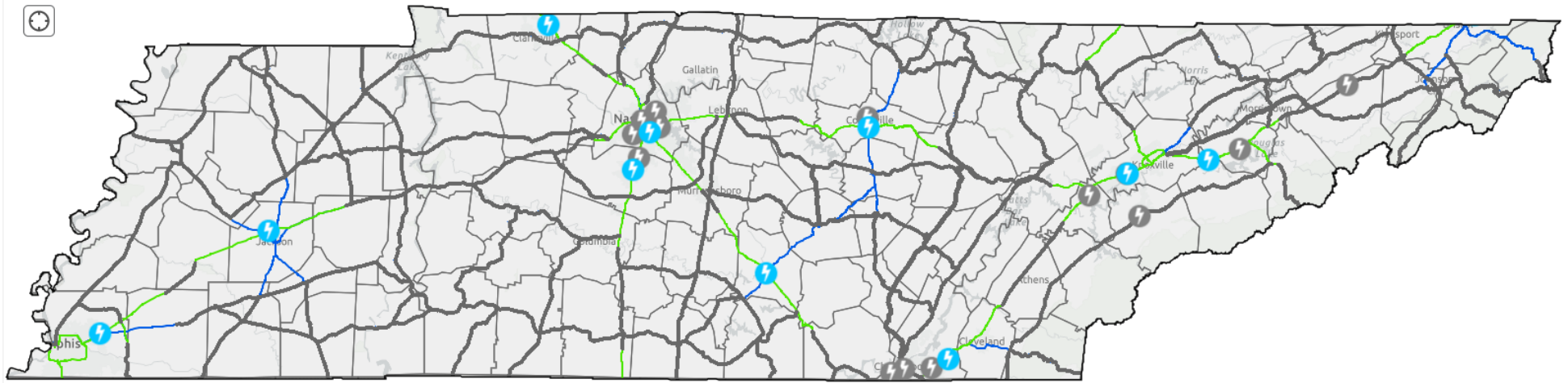


Drive Electric
TENNESSEE



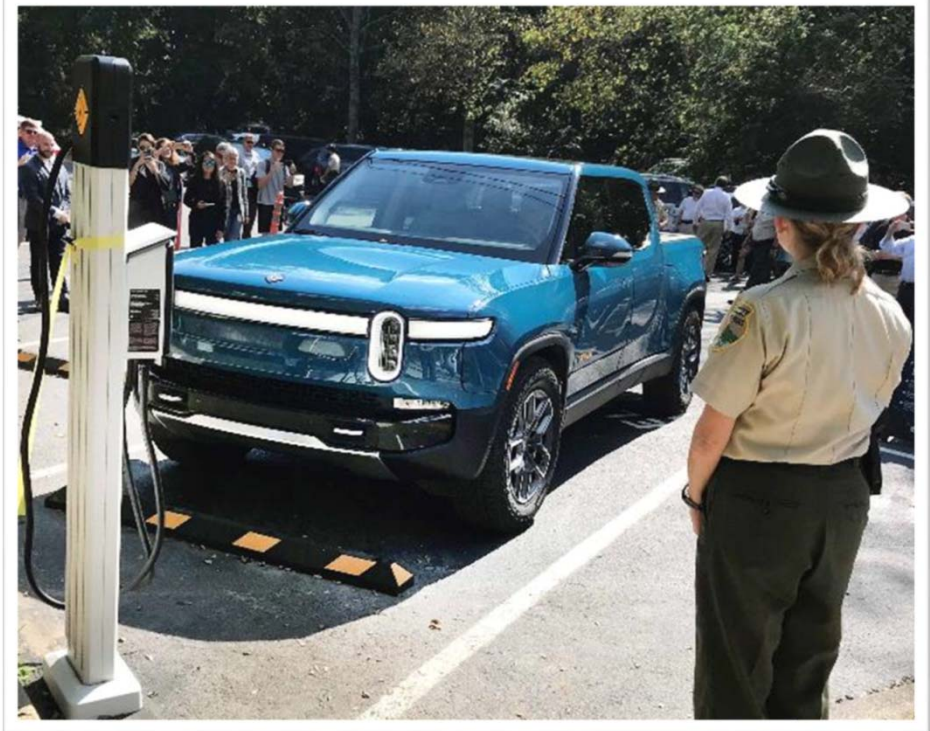
TN Department of
Environment &
Conservation

Fast Charge TN Network



Rivian and Tennessee State Parks

- In 2021, TDEC announced a partnership with Rivian to install Level 2 charging stations at Tennessee State Parks. The goal is to have charging stations available at all 56 state parks systemwide.
- In addition to overseeing design and installation, Rivian will provide, at no cost to the state:
 - Chargers
 - Utility upgrades and other installation costs
 - Network access fees
 - Equipment service
 - Maintenance



Overview of NEVI Program Funding Opportunity

- The Infrastructure Investment and Jobs Act (IIJA) or Bipartisan Infrastructure Law (BIL) includes a total of **\$7.5 billion** in dedicated funding to expand electric vehicle (EV) charger accessibility to all Americans.
- The \$7.5 billion is comprised of:
 - **\$5 billion formula program (NEVI Program)**
 - **\$88 million** over 5 years to Tennessee
 - **\$2.5 billion competitive, discretionary grant program**

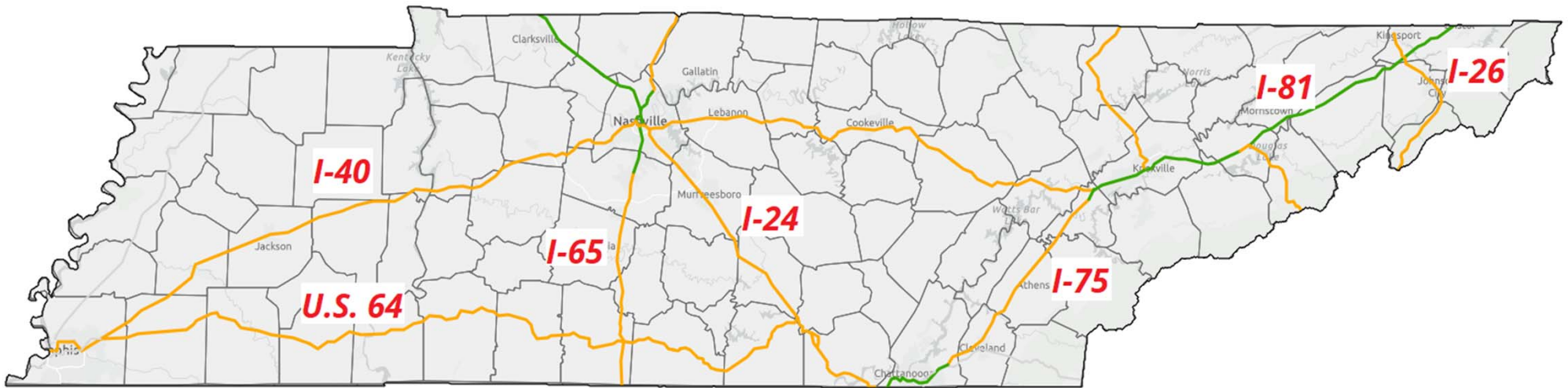
A red square logo with the letters "TN" in white, representing the state of Tennessee. A blue horizontal bar is located below the red square.

TN

NEVI Funding to Build Chargers along Alternative Fuel Corridors

- Funding under the NEVI program is initially directed to designated **Alternative Fuel Corridors** for electric vehicles to build out this national network, particularly along the Interstate Highway System.
- When the national network is fully built out, funding may be used on any public road or in other publicly accessible locations.

FHWA Designated Alternative Fuel Corridors in TN



Tennessee Electric Vehicle Infrastructure (TEVI) Plan



What is the TEVI Plan?

The TN Electric Vehicle Infrastructure (TEVI) Deployment Plan was developed in accordance with the national guidance (NEVI) and details how the State will deploy EV charging infrastructure and support the establishment of an interconnected EV network across the nation.



TEVI Plan Vision

Develop a safe, convenient, accessible, reliable, and equitable EV charging network that promotes the state's economic vitality and environmental stewardship while improving EV "range confidence" and supporting EV adoption throughout TN.

The Tennessee state logo, consisting of the letters "TN" in white, serif font, centered within a red square. A thin blue horizontal line is positioned below the red square.

TN

Tennessee Electric Vehicle Infrastructure (TEVI) Plan

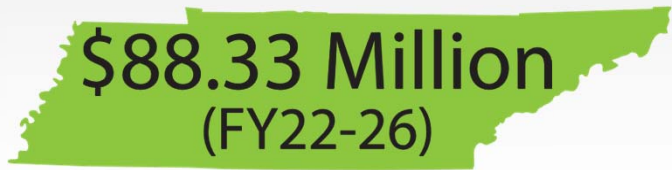
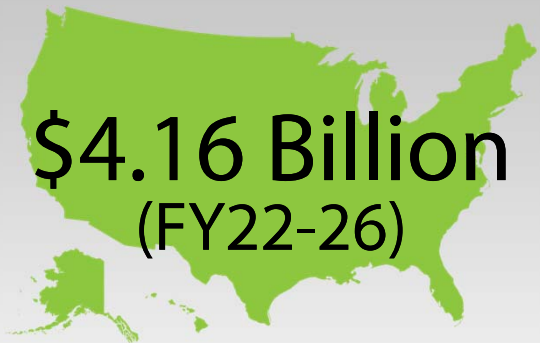
PLAN GOALS

- ⚡ Complement Existing Planned Infrastructure
- ⚡ Upgrade Existing Sites
- ⚡ Future-Proof Infrastructure
- ⚡ Accommodate Multiple Vehicle Types
- ⚡ Promote Multimodal Accessibility
- ⚡ EV Station Standardization
- ⚡ EV Network Coordination Between States
- ⚡ Ensure Ongoing Operation & Maintenance
- ⚡ Job Creation and Workforce Development
- ⚡ Education and Outreach
- ⚡ Performance Evaluation
- ⚡ Minimize Cybersecurity Risk

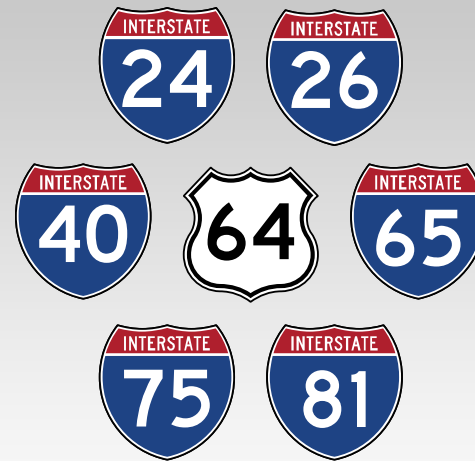
TN

Tennessee Electric Vehicle Infrastructure (TEVI) Plan

FUNDING



ELIGIBLE

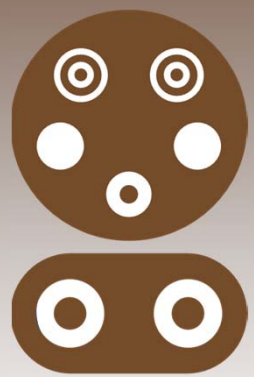


Alternative Fuel Corridors
~1,500 Miles



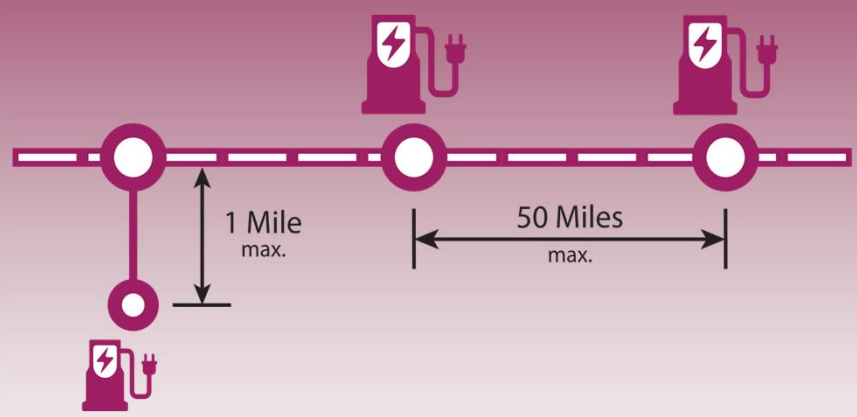
Tennessee Electric Vehicle Infrastructure (TEVI) Plan

Plug / Port

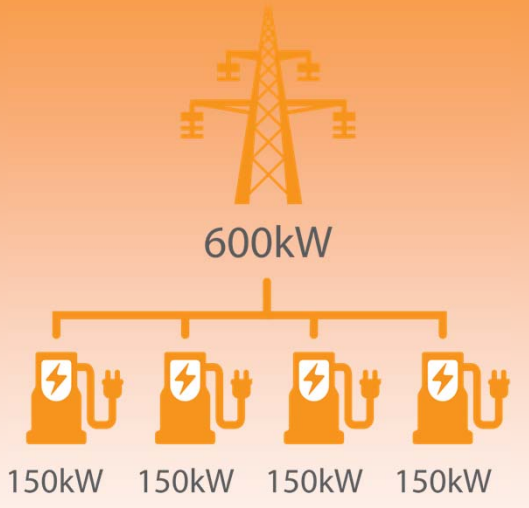


Combined Charging System (CCS) Type 1

Spacing



Power



Tennessee Electric Vehicle Infrastructure (TEVI) Plan

PUBLIC ENGAGEMENT

SOCIAL MEDIA



37,000 Impressions



97,000 Reaches
(297 engagements)

IN-PERSON ENGAGEMENT



EAST
Kingston / Kingsport / Knoxville

MIDDLE
Nashville / Monteagle / Chattanooga

WEST
Memphis / Fayetteville / Camden

WEBSITE



tn.gov/evplan

88 Counties

SURVEY RESULTS

274 Zip Codes

Top **3** Criteria for Location:
AADT
Points Of Interest / Destinations
Amenities



1,014 Responses
(53% in Knox, Memphis, and Davidson)

Future Ideas :
Additional Chargers
LPC Coordination/Infrastructure
Accomodate MD/HD Trucks
Higher Power Levels

TN

Tennessee Electric Vehicle Infrastructure (TEVI) Plan

CHALLENGES / RISK

OPERATIONS & MAINTENANCE

- Site Monitoring
- Contractual Obligations
- Urban / Rural Complexities

SITE HOSTS

- Spacing Limitations
- EV Education & Outreach

EQUIPMENT UPGRADES

- Stations / Software
- LPC Electrical Upgrades

SUPPLY CHAIN DISRUPTION

- Buy America
- Labor Shortages

SITE PRIORITIZATION

SITING CATEGORIES

- Environmental
- Traffic
- Gaps
- Site Hosts
- Zoning
- Proximity to Power
- Constructability
- Upgrade Potential
- Design
- Visibility
- Network
- Safety
- Amenities
- Flexible Use Space

CONTRACTING OPTIONS

CONTRACT TYPE(S)

- Third-Party / P3 / Commercial
- Local Power Company (LPC)
- Local Government
- Private Landowners

CONTRACT AREA(S)

- Statewide
- LPC Coverage Areas
- Grand Divisions
- AFC Corridors



Tennessee Electric Vehicle Infrastructure (TEVI) Plan

TIMELINE



August 1
Submit
Plan



September 30
FHWA
Approval



December 31
Finalize
Procurement Method



March 31
Establish Requirements,
Oversight, & Management



June 30
Award
Procurement



Tennessee Electric Vehicle Infrastructure (TEVI) Plan

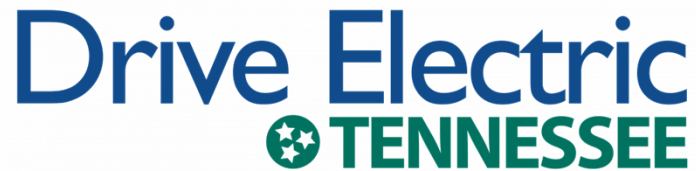
JUSTICE40



GOAL: 40% of the overall benefits of investments flow to disadvantaged communities



Stakeholder Engagement / Technical Assistance



Funding for School Buses in Tennessee

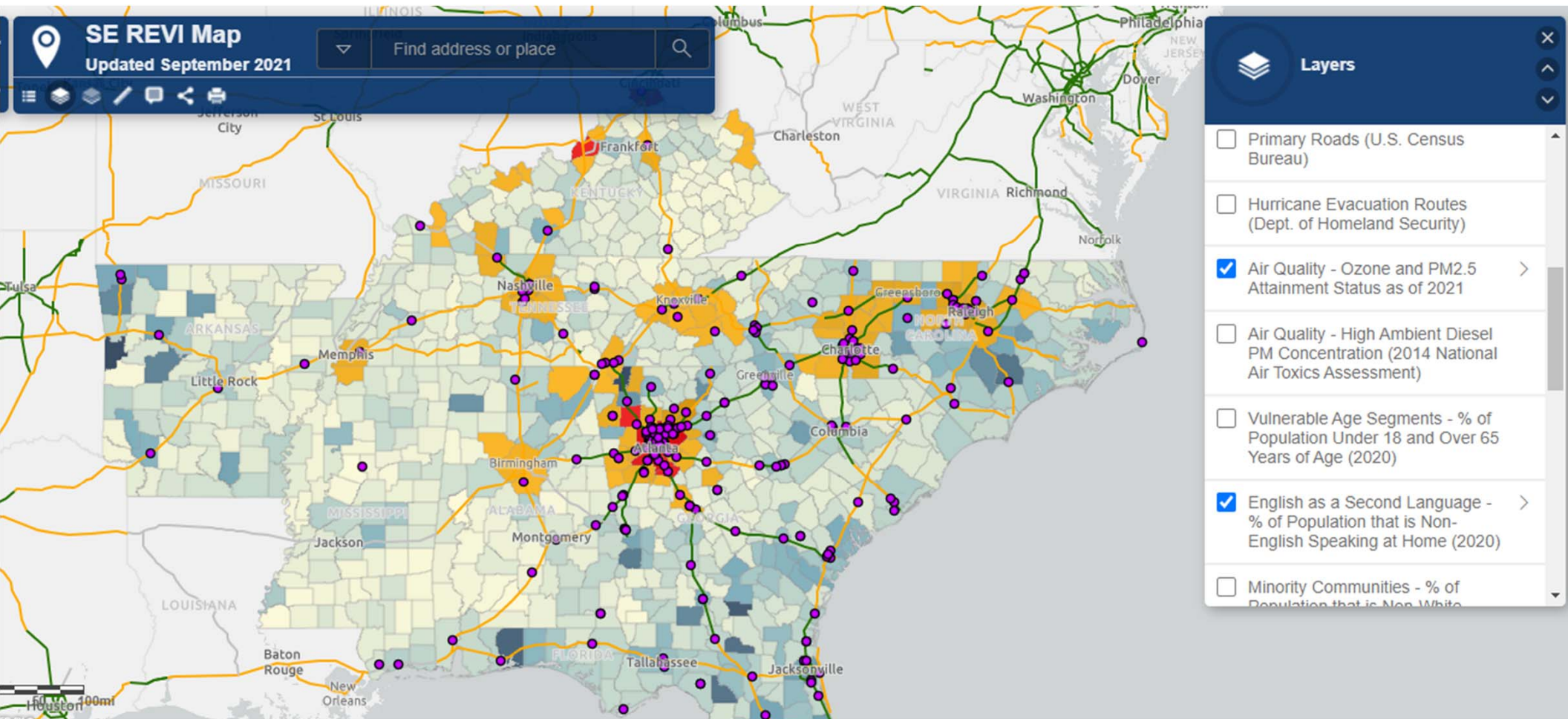
Your school district could receive up to 80% or more of the cost of new electric or alt-fueled school buses!

Get Help

Find Resources



Regional Collaboration – SE REVI





Find out more at

<http://www.tn.gov/evfastcharge>

<http://www.tn.gov/evplan>

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