

Industry Networking Event

**NATIONAL ELECTRIC VEHICLE INFRASTRUCTURE
FORMULA PROGRAM**



Powering Progress.
Electrifying South Carolina.

January 22, 2025 | 2:00 - 3:30 p.m.



The SC+EV Initiative

What is SC+EV?

The SC+EV initiative will support South Carolina through the creation of a **reliable and accessible statewide network of electric vehicle (EV) charging infrastructure**. SC+EV will develop and deploy charging equipment along South Carolina's interstate highway system in support of the National Electric Vehicle Infrastructure (NEVI) Formula Program.



SC+EV Goals

The SC+EV Initiative will implement a multi-year, phased approach to develop a convenient, affordable, reliable, and equitable statewide EV charging network.



Enhance mobility for EV owners and operators in South Carolina



Accelerate economic development and industry in South Carolina



The NEVI Formula Program

What is NEVI?

The NEVI Formula Program was established as part of the Infrastructure Investment and Jobs Act (IIJA), commonly known as the Bipartisan Infrastructure Law (BIL), which was written into law in 2021.



Aims to provide a nationwide network of 500,000 EV fast chargers by 2030



Will provide dedicated funding to states for the deployment of EV charging infrastructure



Charging stations must be built along Alternative Fuel Corridors (AFCs) first

Key Requirements of NEVI

Charging infrastructure
must be

**LEVEL 3/
DCFC**

DC Fast-Charging

Chargers must be located
no more than

1 MILE

from Alternative Fuel
Corridors (AFC)

Chargers along AFCs must be
spaced a maximum of

50 MILES

from the next
NEVI charger

Charging must
support

(4)x150KW

Minimum per station

Formula program
requires a

20%

Non-Federal Match

Charging stations must be fully
operational for a period no less than

5 YEARS

and meet NEVI guidelines

Federal Funding



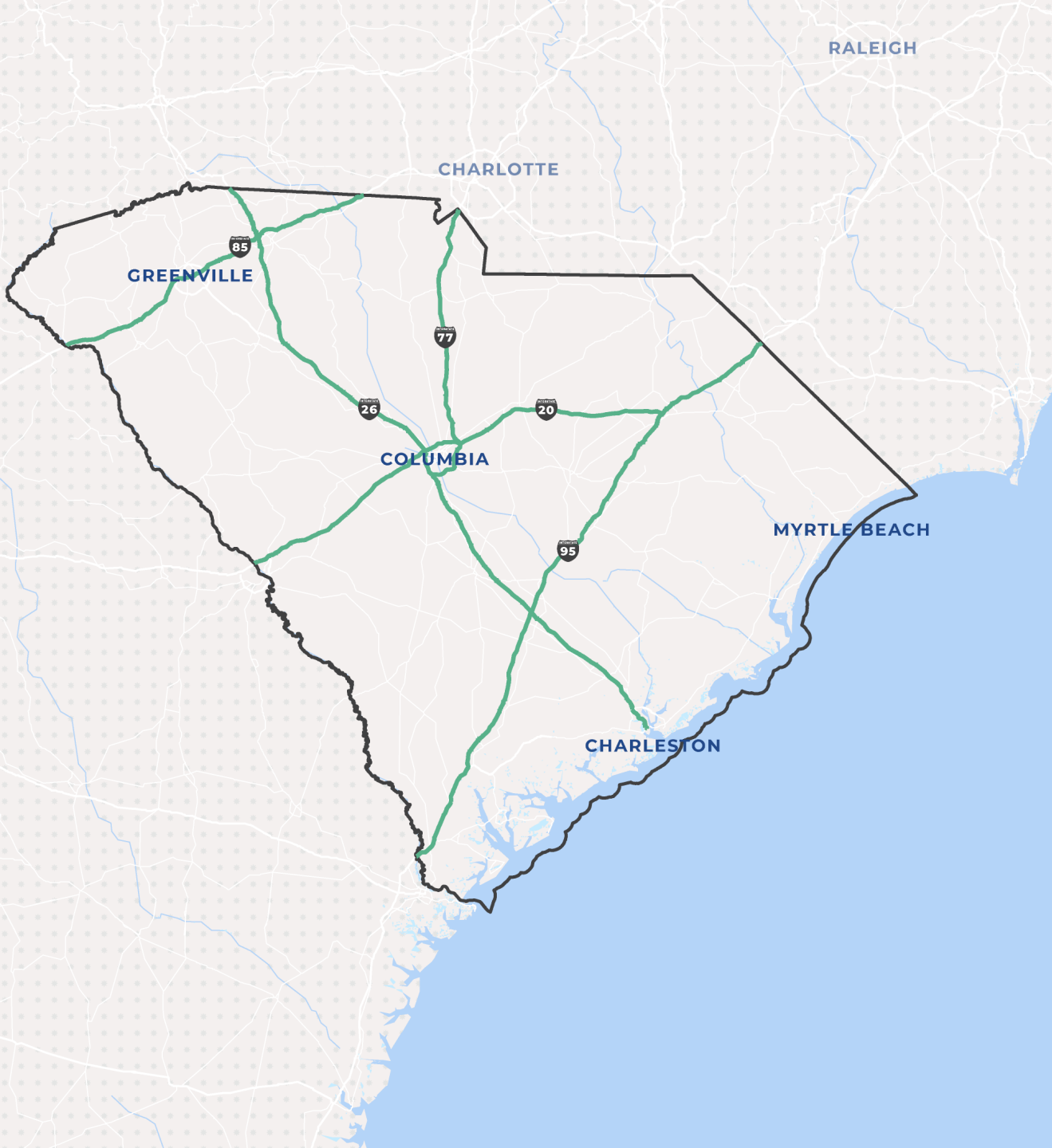
South Carolina will receive nearly \$70 million in funding from the NEVI Formula Program over a five-year period.



The state's initial phase of NEVI will be focused on identifying locations and building chargers along South Carolina's AFCs (major interstates).



The later phases will focus on building additional chargers throughout the state to meet more local, community-level charging needs.



South Carolina's Alternative Fuel Corridor Network

- To lay the groundwork for NEVI, South Carolina nominated roads for AFC designation by Federal Highway Administration (FHWA) to support the installation of EV charging infrastructure at strategic locations along major national highways.
- An AFC is typically a long stretch of major interstate, highway, or roadway.
- The initial phase of the SC+EV initiative will focus on identifying charging station locations to build out the state's major interstates, or AFCs.

Example of a NEVI Station

A **station** is the area where chargers are located.

1 Station

A **charger** is the equipment that converts power for use.

3 Chargers

A **port** is a single output from the charger that can charge one vehicle at a time.

4 EVSE Ports

Cabled Connector

Connector Adapter



A **connector** is the physical connection to the car and there are multiple types.

8 Connectors

Power (kW)

Station

Charger (1+)

Port (4+)

Connector (8+)

EV

Key Program Features

- SCDOT is finalizing the procurement approach for the SC+EV initiative and will include requirements for teams inside of the procurement package.
- Applicants are [responsible for forming teams, selecting sites, and submitting proposals](#).
- Applications must meet federal NEVI requirements to be considered; additional scoring criteria are being evaluated by SCDOT and will be included in the procurement package.
- Once selected, awardees will be [responsible for the permitting, construction, operation, and ongoing maintenance](#) of the charging station. They will also retain ownership of the station once the five-year program is completed to federal/SCDOT requirements.



Helpful Resources

Check out our website for more information!
On the website you can find:

- Frequently asked questions
- South Carolina's 2024 NEVI Plan
- Helpful links to national NEVI information
- Opportunities to get involved
- Draft RFP for Industry Review
- & more!





Engagement Summary

Hosting an In-Person Road Show

 **36**
MEETINGS

 **4**
WEEKS

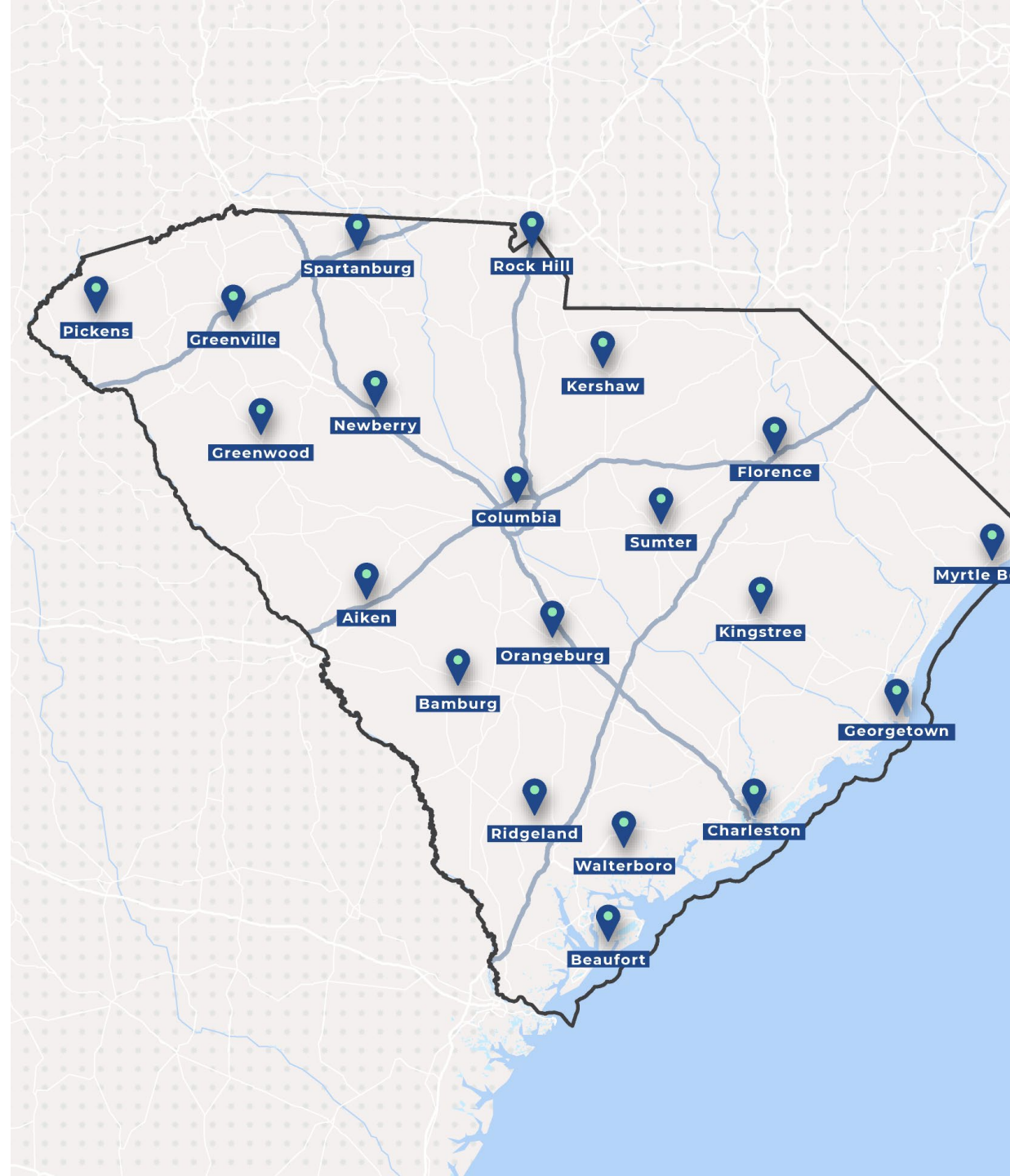
 **20**
Public Open House Meetings

 **9**
Industry Roundtables

 **7**
Stakeholder Open House Meetings

WHO WE REACHED:

- ✓ Community members in SC's major urban centers
- ✓ Community members in additional on-corridor (AFC) locations
- ✓ Disadvantaged & off-corridor communities (16)
- ✓ Municipalities/county gov's
- ✓ State & local utility companies
- ✓ Electric Vehicle Supply & Equipment (EVSE) providers
- ✓ Potential site hosts
- ✓ Other stakeholder & community groups



Public Engagement Highlights



Targeted public and disadvantaged community engagement effort in on- and off-corridor communities from April to June 2024

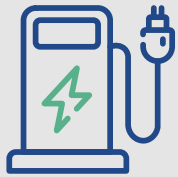


Various in-person and virtual meeting options for the public to attend, learn more about SC+EV and engage with the project team



Meaningful engagement and valuable feedback received with more than 285 people attending and participating in in-person and virtual meetings

Public Engagement Findings



The top three locations chosen to have charging stations useful for long distance travel within and throughout South Carolina were Columbia, Sumter, and Charleston.



Restrooms, adequate lighting and safety measures, and access to nearby experiences were ranked the top three most important charging station amenities among in-person and virtual attendees.



The top three most useful establishments for a charging station identified by attendees were restaurants/fast food locations, shopping centers, and gas stations.

Other Key Findings



WORKFORCE DEVELOPMENT

Various community members expressed a specific need for the SC+EV initiative to address workforce development in efforts to support Justice40 communities and further economic development objectives in the state.



CHARGING SPEED

Community members emphasized that 150kW charging may not be sufficient and suggested that SCDOT consider utilizing charging infrastructure that is 250kW+ for faster and easier consumer charging.



COMMUNITY-BASED CHARGING

Members of the public expressed a desire for Phase 2 of the initiative to address travel to, from, and within communities on state roadways or highways that are common routes of travel and not designated AFCs.

Industry Engagement Highlights



Targeted stakeholder engagement effort geared towards participating industries & entities from April to June 2024



Various in-person and virtual meeting options for industry stakeholders to engage and connect with the project team on key topics



Meaningful engagement and valuable feedback received with more than 172 industry stakeholders attending the meetings

Engagement Findings



Future-proof planning should be considered, especially as it relates to increasing charging capabilities past 150kw.



Industry is seeing an approximately nine-month to two-year lead time for transformers and other equipment.



Power sharing, remote diagnostics, modular infrastructure, and biannual maintenance requirements were among recommendations from local providers and installers.



Siting strategy should maximize the number of sites that can participate in the program.



Many site hosts are looking for turn-key partnerships that primarily involve land use and little else.



Workforce development is needed to support the overall program/operations and maintenance of charging stations.



Industry Information

Industry Networking Database

- Launched in mid-2024 and lives on our website at southcarolina-ev.com/industry
- Database is updated and posted to the website weekly
- The database is publicly accessible
- SCDOT is not vetting, researching, or recommending the names on the list

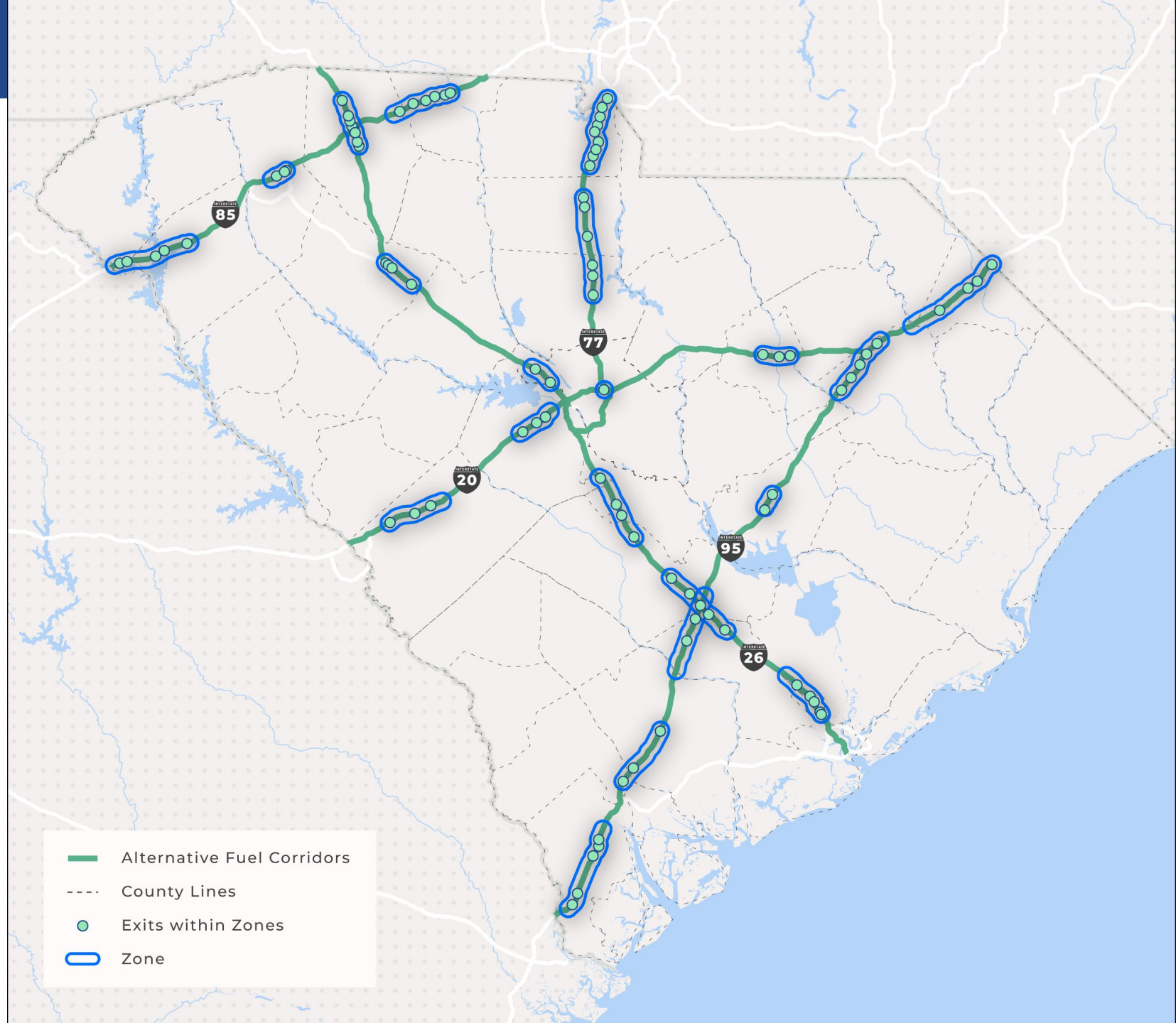


Charging Station Siting

- SCDOT has developed and applied a robust siting strategy to identify potential charging sites along South Carolina's AFCs
- Anticipate 21 charging stations needed to meet full build-out requirements
- Siting map on our website identifies zones where charging infrastructure is needed
- View the map at www.southcarolina-ev.com/industry



Phase 1 NEVI Siting Strategy



Procurement Teams



Electric
Vehicle Supply
Equipment
(EVSE)
Providers



Site Hosts
and Site
Developers



Contractors



Operations and
Maintenance
(O&M)
Providers

Procurement

SCDOT released a draft of the procurement documents on December 20 for the installation of DCFC charging stations along South Carolina's AFCs. **These documents are available for formal industry review now through January 31!**

- Documents released for review in advance of a final Request for Proposals (RFP) in 2025
- Visit www.southcarolina-ev.com/industry to review the documents.
- Comments and feedback will be accepted up until January 31 and should be provided directly to IndustryRFPReview@southcarolina-ev.com



Next Steps

Next Steps

- Final RFP release – Spring 2025
 - ❖ Review draft RFP documents at www.southcarolina-ev.com/industry
 - ❖ Submit feedback and comments to IndustryRFPReview@southcarolina-ev.com on or before Jan. 31
- Sign up for our Industry Networking Database on our website at www.southcarolina-ev.com/industry
- Review charging station siting map and other important procurement information and program requirements at www.southcarolina-ev.com/industry
- Email us with any questions directly to connect@southcarolina-ev.com



Contact Us



www.southcarolina-ev.com



connect@southcarolina-ev.com



The background is a solid dark blue color. There are two thick, white, wavy lines that curve across the top of the image. One line starts on the left edge and curves downwards and then back up. The other line starts on the right edge and curves downwards and then back up.

Thank You