

**South Carolina Electric Vehicle Charging
Infrastructure Deployment Plan**

**In Support of the National Electric Vehicle
Infrastructure Formula Program**

(SC NEVI Plan)

August 1, 2022



2023

**Upstate Mobility Alliance
Upstate Professional Planners Group**

**Rob Bedenbaugh, PE, CPM
SCDOT – Director of Engineering Support**

SC NEVI Plan

www.scdot.org/nevi



NEVI

National Electric Vehicle Infrastructure (NEVI) Formula Program

<https://driveelectric.gov/>

- 500,000 EV chargers nationally by 2030
- Support national network – Alternative Fuel Corridors (AFCs)
- Emphasis on rural locations
- Can be applied on non-AFC routes pending completion of AFCs
- SC will receive approximately \$70 million over 5 years

DC Fast Charger

Source – www.usnews.com



NEVI

Technical Details

- **Maximum 50 mile spacing along the interstates**
- **No more than one (1) travel mile from the interstate**
- **Four (4) – minimum 150kw DC Fast Chargers per site**
- **Combined Charging System (CCS) Type 1 connector**
- **NACS and CHAdeMO can also be included**
- **FAQs**
 - https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/resources/nevi_program_faqs.pdf

Justice40 and NEVI

Disadvantaged Communities (DACs)

- Goal of having 40% of benefits flow to DACs
- Disadvantages in:
 - Transportation, health, environmental, economic, resilience, housing, and other factors
- Electric Vehicle Charging Justice40 Map
 - [Electric Vehicle Charging Justice40 Map \(arcgis.com\)](https://arcgis.com)

Equity and NEVI

Fairness in mobility and accessibility for all users

- **Meaningful engagement with DACs**
- **Jobs and job training**
- **Opportunities for Disadvantaged Business Enterprises (DBEs)**
- **Decreasing transportation costs**
- **Reducing transportation emissions**
- **Resilience**

**South Carolina Electric Vehicle Charging
Infrastructure Deployment Plan**

**In Support of the National Electric Vehicle
Infrastructure Formula Program**

(SC NEVI Plan)

August 1, 2022



SC NEVI Plan

www.scdot.org/nevi



**Rob Bedenbaugh
bedenbaugr@scdot.org**