#### Northeast Regional EV Corridor Planning

- **Northeast Diesel Collaborative**
- **2021 Partners Meeting**
- October 20, 2021

**Matthew Goetz** 

**Associate Director, Mitigation Program** 

**Georgetown Climate Center** 

#### **Georgetown Climate Center**

#### A Resource for State and Federal Climate Policy

- Launched in 2009 as a resource to states
- Works at the nexus of federal-state policies
- Supports policymakers through research, facilitation, and convening







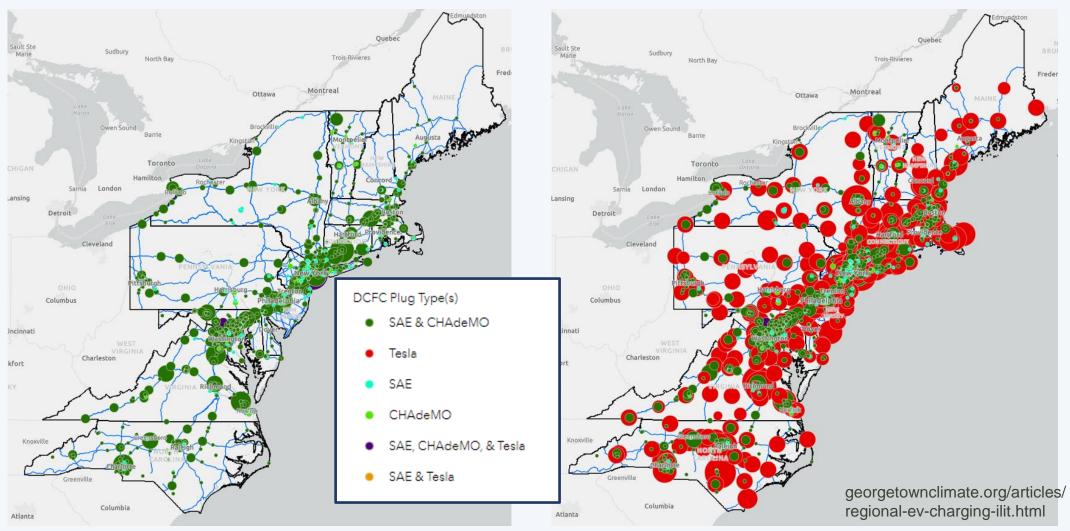


#### Northeast Regional EV Corridor Planning

#### **Presentation Outline:**

- Overview of EV charging infrastructure in the northeast corridor
- Regional collaboration: multi-state coordination, resources, and planning tools
- Upcoming opportunities for regional corridor planning
- Looking ahead to medium- and heavy-duty ZEV corridors

#### **Existing EV Fast Charging Infrastructure**

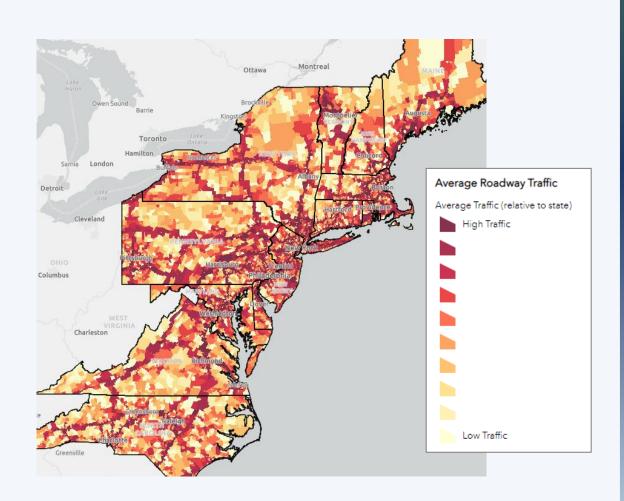


Left: Non-proprietary public DCFC

Right: All public DCFC

#### **Benefits of Regional Coordination for EV Charging**

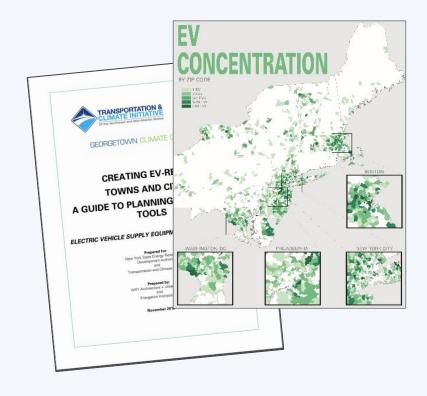
- Closely connected economies, populations, and transportation networks
- Importance of consistent & convenience experience for drivers and businesses
- Opportunity for efficient build-out of EV charging infrastructure



# Collaboration through the Transportation & Climate Initiative Clean Vehicles Workgroup





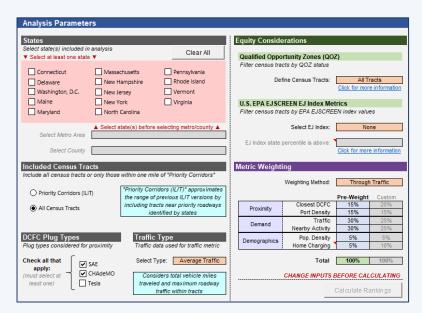




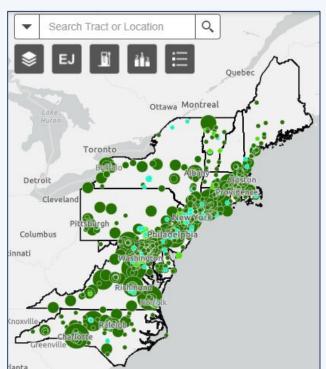


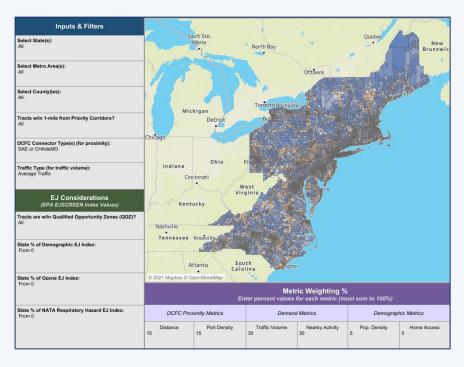


# Regional EV Charging Infrastructure Location Identification Toolkit (ILIT)

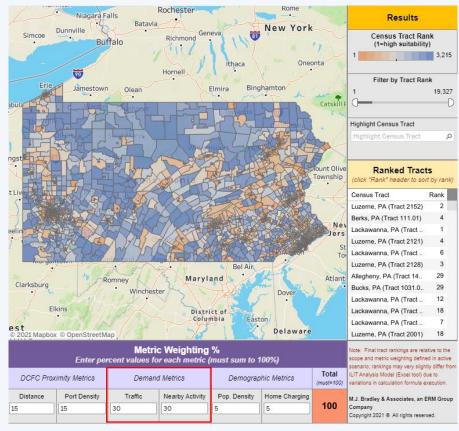


georgetownclimate.org/articles/regional-ev-charging-ilit.html

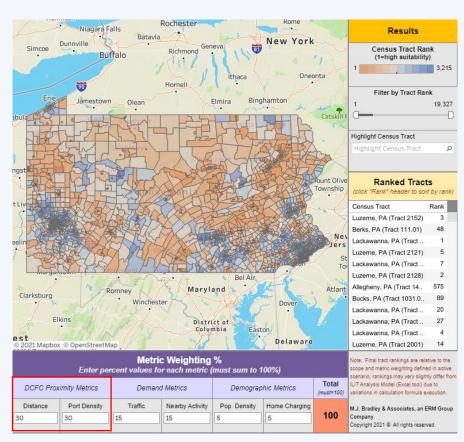




### **Toolkit Enables Custom Analysis Based on State and Local Priorities**

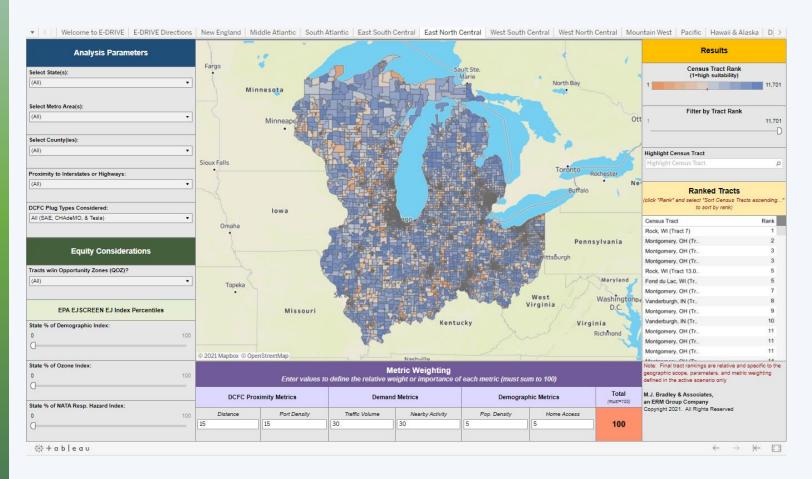


Through Traffic weighting highlights areas with high traffic volume and commercial activity



**Fill Gaps** weighting highlights areas without significant levels of existing charging infrastructure

#### **Expansion to National Analysis: 'E-DRIVE'**





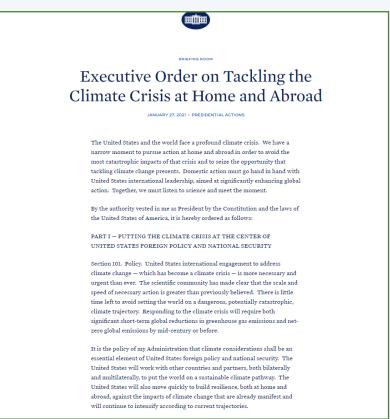




#### Opportunities for Updates to Toolkit to Support Equitable Planning

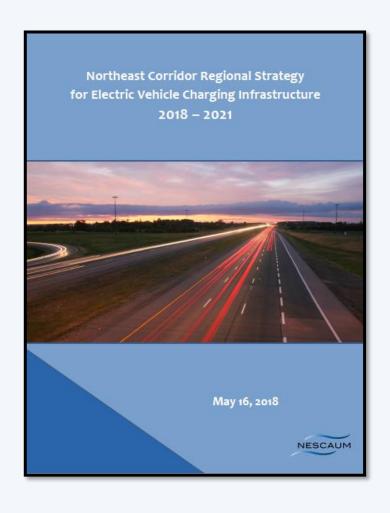


US EPA EJSCREEN, NATA Diesel PM (National Percentiles)



Biden Administration's Executive Order 14008 directing development of a Climate and Economic Justice Screening Tool

#### **NESCAUM & Northeast Corridor Steering Committee**



### Northeast Regional Strategy for EV Charging Infrastructure

- Pricing Transparency
- Uptime
- Future Proofing
- Interoperability
- Data Collection
- Permit Streamlining

- Signage
- Building Codes
- Rate Design
- LMI Communities
- ADA Compliance

#### **NESCAUM & Northeast Corridor Steering Committee**





- Model State Grant and Procurement Contract Provisions for Public EV Charging (2019)
- Permit Streamlining: Preparing Our Communities for Electric Vehicles: Facilitating Deployment of DC Fast Chargers (2019)
- EV Charging Interoperability Recommendations for State Policy Makers (2020)

# **Upcoming Opportunities for Regional Corridor Planning**

- Coordinating state-wide and corridor-specific planning efforts
- Engagement with federal agencies
- Implementation of potential new federal funding
- Alternative Fuel Corridors program
- Looking ahead to M/HDV infrastructure

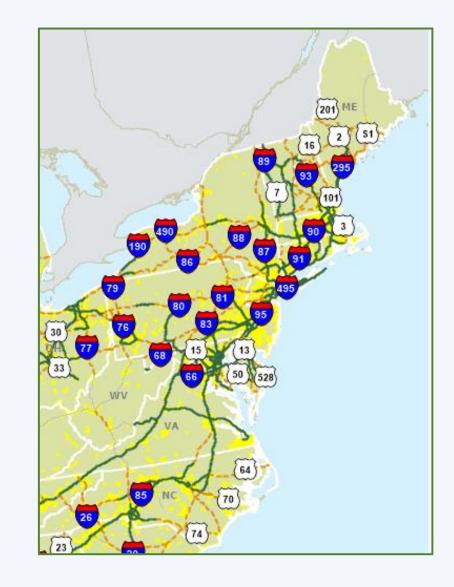
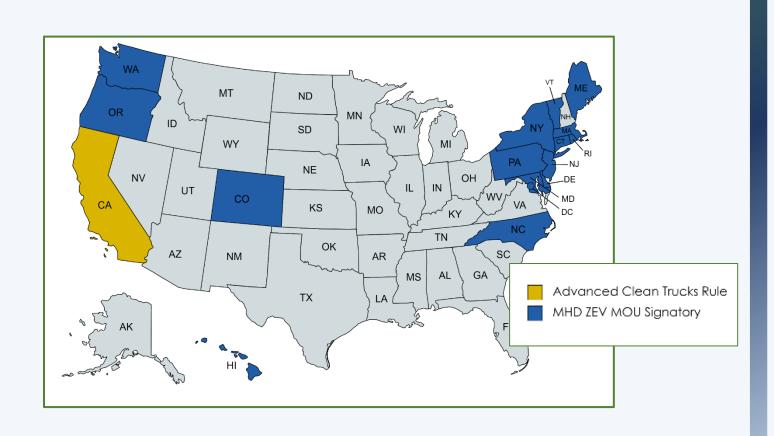


Image: FHWA Alternative Fuel Corridors: Electric Vehicles, Rounds 1-5 <a href="https://www.fhwa.dot.gov/environment/alternative\_fuel\_corridors/maps/">www.fhwa.dot.gov/environment/alternative\_fuel\_corridors/maps/</a>

## Multi-state Coordination on ZEV Trucks and Buses & Charging Infrastructure

- Advanced Clean Trucks Rule
- Multi-state MHD ZEV MOU
- State incentive programs
- Utility regulatory proceedings and make-ready investments



## Regional and Multi-state Planning for Electric Truck Charging Infrastructure



- Local, state, and federal coordination
- Opportunity to build on existing collaborations and partnerships
- Key questions around public charging infrastructure needs to support early deployment

West Coast Clean Transit Corridor Initiative



Photo by Dennis Schroeder, NREL

https://westcoastcleantransit.com/

#### Thank you!

For more information, please visit: georgetownclimate.org

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#### **Contact us:**

climate@georgetown.edu

### **Explore the Regional EV Charging ILIT**

<u>georgetownclimate.org/articles/</u> <u>regional-ev-charging-ilit.html</u>

mjbradley.com/mjb\_form/ILIT

