

WISCONSIN'S

ELECTRIC VEHICLE ROUNDTABLE

Tuesday, September 13, 2022

10:00am – 11:30am CDT



Lorrie Lisek Executive Director



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ABOUT WISCONSIN CLEAN CITIES

- Wisconsin Clean Cities is a 501(c)(3) nonprofit organization managed by Legacy Environmental Services, Inc., an Indiana Certified Women's Business Enterprise.
- Established in 1994, Wisconsin Clean Cities is one of the U.S. Department of Energy's more than 75 Clean Cities coalitions.
- The organizations support the nation's energy and economic security by building partnerships to advance affordable domestic transportation fuels, energy efficient mobility systems and other fuel-saving technologies and practices.



STATEWIDE ASSISTANCE FOR ENERGY RESILIENCY & RELIABILITY (SAFER2)

- WCC in 2020 began the Statewide Assistance for Energy Resiliency and Reliability (SAFER2) grant program, assisting the [Wisconsin Office of Energy Innovation](#) (OEI) in developing a comprehensive statewide effort to improve energy emergency plans at the local level.
- As part of the program, Wisconsin Clean Cities provides in-depth fleet assessments and education/outreach to governments.
- Contact us to get involved & learn more



DRIVE CLEAN RURAL USA



- Drive Clean Rural USA is engaging with government leaders, business owners, fleet managers and farmers to remove barriers and accelerate access to clean fuel solutions that deliver financial savings, clean air and economic opportunity to rural communities.
- This eight-state DOE-funded project focuses on alternative fuel options through technical assistance, clean fuel transition planning & demo vehicles with an emphasis on business & job growth.



DRIVE ELECTRIC WISCONSIN

- Drive Electric Wisconsin is part of DRIVE Electric USA, a partnership of U.S. Department of Energy Clean Cities coalitions working to significantly advance EV adoption in their states.
- The overarching goal of DRIVE Electric USA is to substantially increase EV adoption rates across consumer and fleet markets.
- The activities, outputs and outcomes in the project are built on seven priority areas of focused work.



MEDIUM/HEAVY DUTY FLEET ELECTRIFICATION

What Fleet Partners will Receive:

- Free industry-leading fleet operational and financial analysis from Sawatch Labs
- Free EV feasibility assessment & individualized fleet case study
- Connections to EV and EVSE industry solution providers to assist with available EV options, pricing, and procurement

Fleet Participation Requirements:

- Telematics data
- Vehicle Applications/Types
 - Passenger/Micro-Transit Van
 - Moving/Box Truck
 - Terminal Truck/Yard Hostler
- 90-day (3 month) minimum data set



EMPOWER

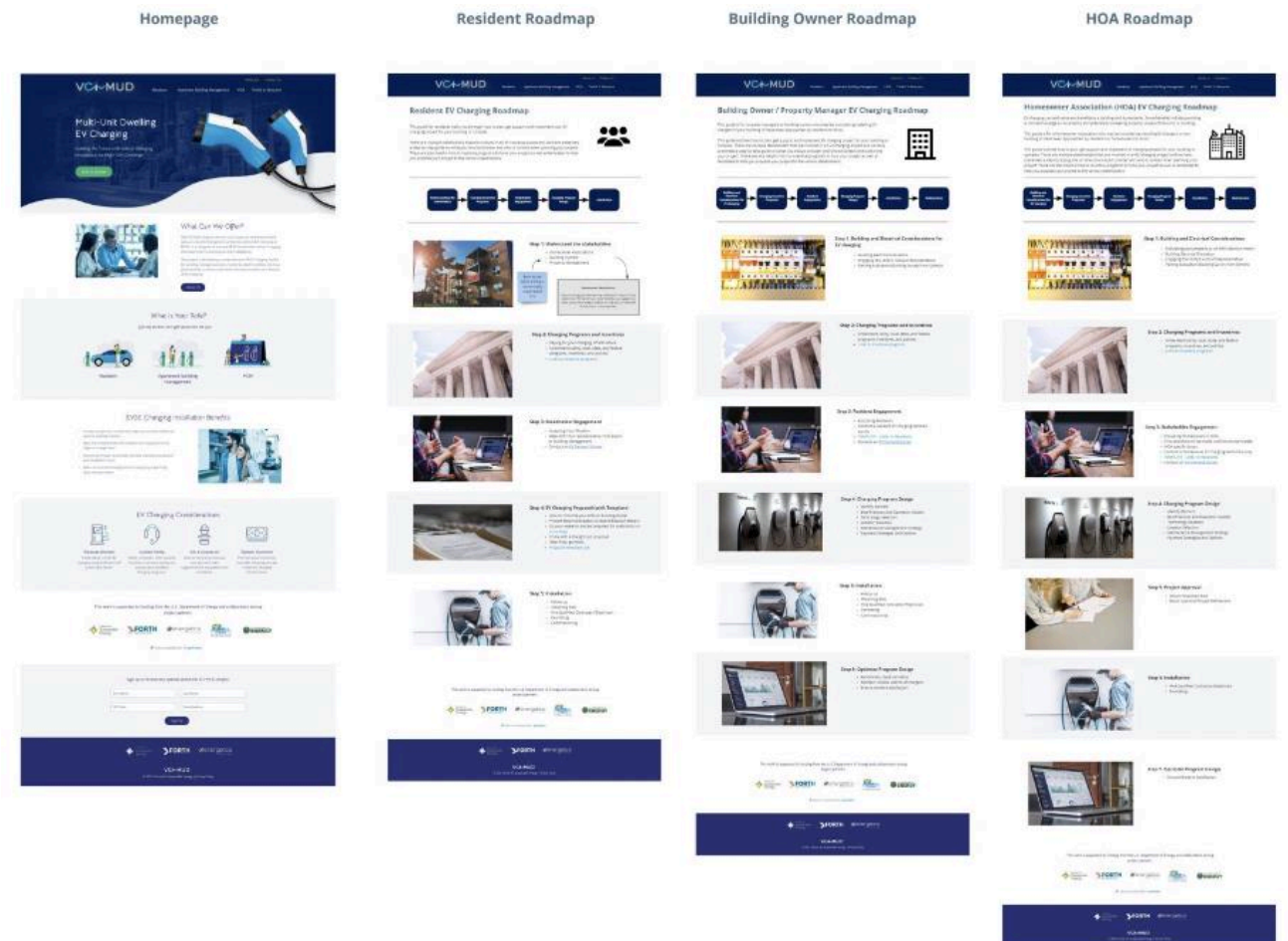
EQUITABLE, MOBILITY, POWERING OPPORTUNITIES FOR WORKPLACE ELECTRIFICATION READINESS

- Why
 - Provide reliable access where home charging is not possible
 - Providing a pathway for EV ownership for those who would otherwise not have charging access
 - Help to flatten the power demand curve by charging mid-day
- What
 - Educational outreach
 - Support infrastructure deployment in disadvantaged communities / businesses
 - Charging infrastructure planning and installation
- Who
 - Businesses across Wisconsin
 - 40% minimum goal for impacted communities and businesses



VEHICLE CHARGING INNOVATIONS FOR MULTI-UNIT DWELLINGS (VCI-MUD)

- Educational resources and support for EVSE installation at or near multi-unit dwellings
- Audience groups
 - Multi-unit dwelling residents
 - Building management
 - Homeowner Associations
- Webinar being planned
Save the Date - October 20, 2022



TOOLS YOU CAN USE!

Tools

The Alternative Fuels Data Center offers a large collection of helpful tools. These calculators, interactive maps, and data searches can assist fleets, fuel providers, and other transportation decision makers in their efforts to advance alternative fuels and energy-efficient vehicle technologies.



Calculators



[EVI-Pro Lite](#)

Estimate a city or state's need for vehicle charging and the effect on electric load.



[AFLEET Tool](#)

Calculate a fleet's petroleum use, cost of ownership, and emissions.



[Vehicle Cost Calculator](#)

Compare cost of ownership and emissions for most vehicle models. [mobile](#)



[VICE Model](#)

Evaluate the financial case for natural gas vehicles and battery electric buses.



[JOBS Model](#)

Estimate economic impacts of natural gas, hydrogen, or fuel cell infrastructure.



[Heavy-Duty Vehicle Emissions](#)

Calculate the emissions of alternative fuel medium- and heavy-duty vehicles.



[E-Volution: E-Drive Vehicle Education](#)

Understand the costs and benefits of electric vehicles based on location.



Interactive Maps



[Alternative Fueling Station Locator](#)

Locate alternative fueling stations and get maps and driving directions. [mobile](#)



[Alternative Fuel Corridors](#)

Find maps and station data to help with nominating alternative fuel corridors.



[TransAtlas](#)

Analyze vehicle densities and locations of fueling stations and production facilities.



[Biofuels Atlas](#)

Compare feedstocks and analyze biofuel production by location.



[Coalition Locations](#)

Find Clean Cities coalitions and contact information for coordinators.



Data Searches



[Vehicle Search](#)

Compare all classes of alternative fuel vehicles, electric vehicles, and hybrids.



[Laws and Incentives Search](#)

Search for laws and incentives related to alternative fuels and advanced vehicles.



[Fuel Properties Comparison](#)

Compare alternative fuel properties and characteristics.



[Find a Car](#)

Compare fuel efficiency, costs, carbon footprints, and emissions. [mobile](#)



[State Information](#)

Find state information about alternative fuels and advanced vehicles.

www.wicleancities.org

www.afdc.energy.gov/tools

*We, in the public sector,
need to be ready for
this transformational
change - and in
Wisconsin, we will be.*

*- Craig Thompson,
WisDOT Secretary*



Stakeholder Meetings



BIPARTISAN INFRASTRUCTURE LAW

EV FUNDING OPPORTUNITIES

\$5 billion

National Electric Vehicle Infrastructure (NEVI) Formula Program

- \$78.65 million to Wisconsin over five years
 - \$11.64 million is Wisconsin's first allocation
-

\$2.5 billion

EV and other alternative fuel infrastructure discretionary grant funds

- **Corridor Charging Grant Program (\$1.25 billion)**
Strategically deploy publicly accessible EV charging stations and other alternative fuel infrastructure along Alternative Fuel Corridors.
- **Community Charging Grant Program (\$1.25 billion)**
Priority given to projects that expand access to alternative fueling infrastructure within rural areas, low-and moderate-income neighborhoods, and communities with a low ratio of private parking spaces.

NEVI PROGRAM CRITERIA



- Charging stations installed every 50 miles along the State's Alternative Fuel Corridors (AFC) within 1 travel mile of a highway intersection or exit.
- EV charging station locations have a minimum of four ports that can charge a minimum of 150kW simultaneously.
- Need to build-out Alternative Fuel Corridors (AFC) before can allocate NEVI funding elsewhere.

PLAN OBJECTIVES

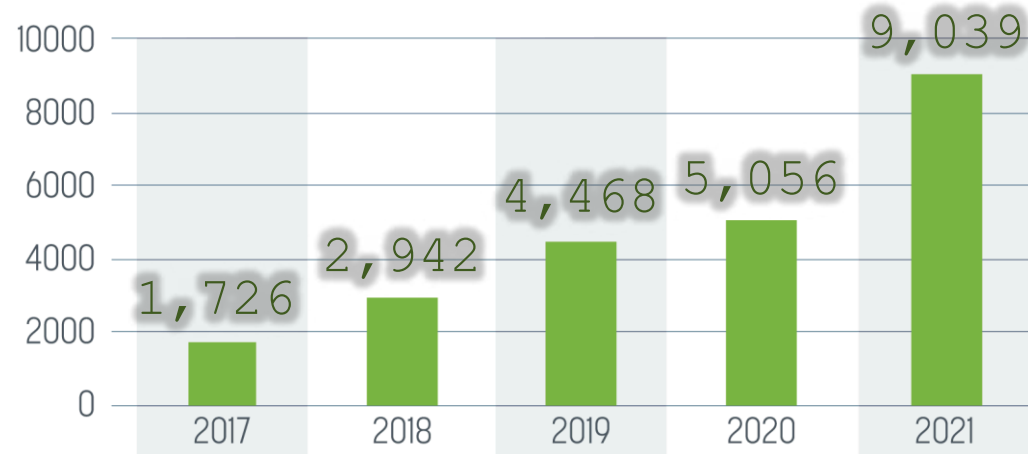


The Plan Will:

- Utilize NEVI funds to incentivize private investment in Electric Vehicle Charging Infrastructure.
- Determine potential locations to support charging infrastructure on the Alternative Fuel Corridor system.
- Provide structured stakeholder outreach to provide for critical input and influence in plan development.
- Delineate program structure including a process for competitive grants and contract development to ensure ongoing maintenance and operation of charging stations funded by the program.

ELECTRIC VEHICLES

EVs registered in Wisconsin



Source: <https://wisconsindot.gov/Pages/about-wisdot/newsroom/statistics/veh-info.aspx>

150+ new EV models are anticipated to hit the market from 2023 to 2028.

Source: www.renewwisconsin.org/wp-content/uploads/2021/04/EV-Market-Outlook-4.2021.pdf

\$1,117



Average yearly cost for gas



\$485

Average yearly cost for EV

Source: University of Michigan's Transportation Research Institute. <https://climatechange.wi.gov/>



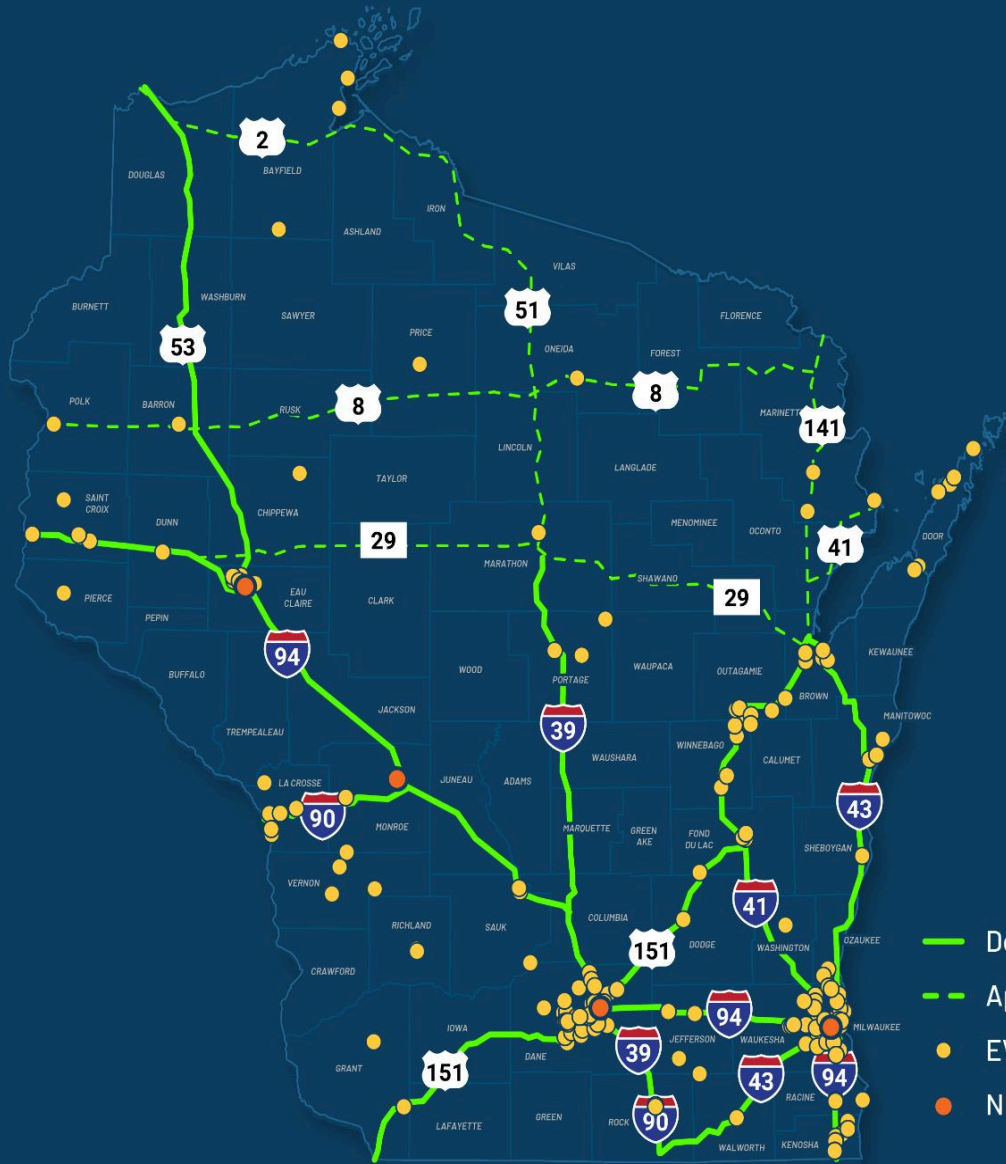
EXISTING CONDITIONS

1,186

MILES OF EXISTING AFCs

781

MILES OF APPROVED 2022 AFCs



- Designated Alternative Fuel Corridors (AFC)
- - - Approved 2022 Alternative Fuel Corridors
- EV Charging Station Locations
- NEVI-Compliant Charging Station Locations

WISCONSIN'S EXISTING EV INFRASTRUCTURE

306 Total publicly available charging station locations

164 Charging station locations within one mile of AFC exit or intersection

4 NEVI-compliant charging station locations

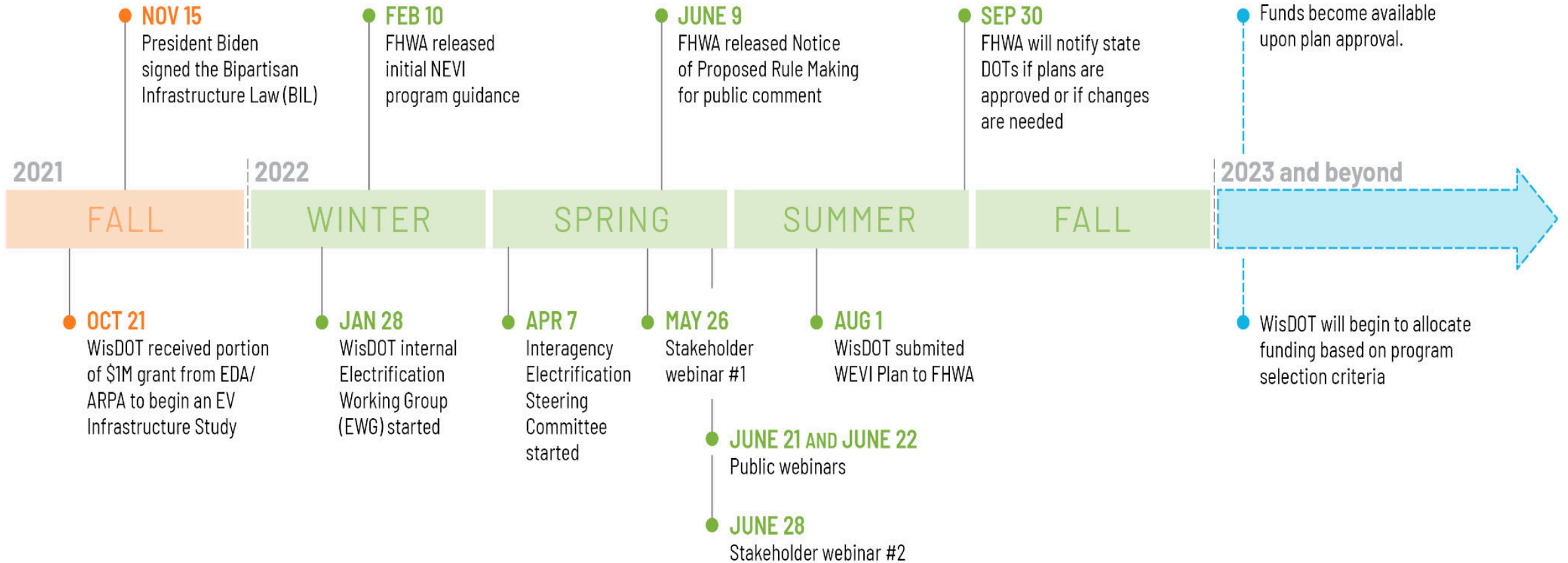
79 Tesla-only charging station locations (not mapped)

Source: <https://afdc.energy.gov/stations/states>. Accessed on April 21, 2022



EXISTING CONDITIONS

Planning Process



KEY ROLES and RESPONSIBILITIES

Federal



- FHWA: Determine NEVI policy and state guidance, approve NEVI plans, disseminate funding to states.
- Joint Office of Energy & Transportation (JOET) Provides expertise to deploy a network of electric vehicle chargers and zero-emission fueling infrastructure.

State Agencies



- Develop the Wisconsin Electric Vehicle Infrastructure Plan.
- Determine policies, technical specifications, contracting processes, and grant regulations.
- Review private sector site applications and allocate funding.

Private Sector



- Includes: Charging station suppliers, owners, operators, and operations & maintenance companies
- Apply for grants to build and maintain Wisconsin's charging station network

Local, Tribal & Regional Govts



- Coordinate electric vehicle infrastructure activities to develop a robust and equitable charging station network in Wisconsin.

Utilities



- Supply electric power
- Work with sites to design and build connections
- Potential EV charging station and infrastructure owners/operators

DISCUSSION

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Infrastructure & Vehicle Panelists



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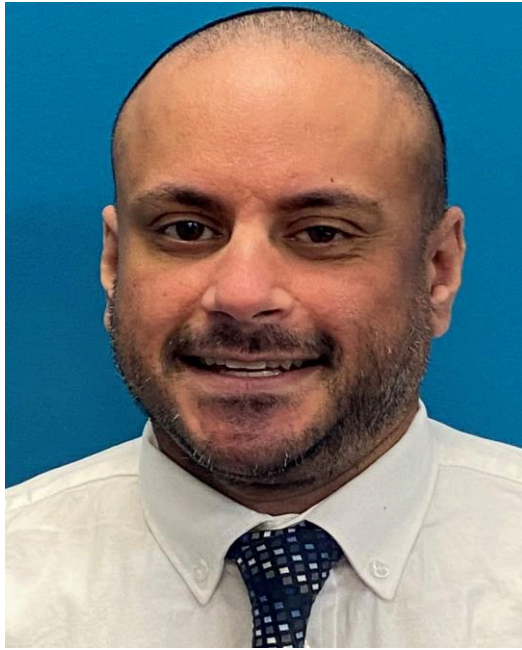


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Thank you for attending!



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