Regional Transportation Electrification Plan

Stakeholder Advisory Committee Meeting October 4, 2023





Technical Overview

To help this meeting run as smoothly as possible, please consider the following tips:





Use headphones with a microphone

Make sure you are muted when not speaking

Send all questions & comments through the Q&A feature.

You may choose to disconnect from any VPN or third-party connection sources during the meeting to maintain connectivity and bandwidth.





Today's Agenda

- Welcome & Introductions
- Project Overview
- Electrification Fundamentals
- Draft Vision, Mission, & Goals
- Key Concerns & Stakeholders Identification
- Next Steps



Meeting Objectives

- Present overview of the Atlanta Regional Commission's Regional Electrification Transportation Plan
- Clarify the Roles and Expectations of SAC Members
- Gather Input and Feedback on the Vision for RTEP from Committee Members





Committee Introductions

Please share your...

- Name
- Title
- Organization
- Does your organization have any initiatives underway that could complement this effort?









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Background

Purpose Statement:

The Regional Transportation Electrification Plan will provide a clear and concise strategy to equitably accelerate the adoption of EVs, reduce transportation-related greenhouse gas emissions, and position the region's workforce to support resulting investments





Project Overview

Recently there has been substantial advancements in federal transportation electrification policy and funding ARC is leading by creating a Regional Transportation Electrification Plan (RTEP) to inform ARC's planning, policies, and practices related to supporting more electric vehicles (EVs) in the region

The project study area is comprised of the MPO area, consisting of all of parts of twenty counties The RTEP will identify the vision and goals, and create an implementation strategy and policies to meet the vision

Historic Federal Policy Investments

Infrastructure Investments and Jobs Act (IIJA) are aimed at eliminating the two key barriers to EV adoption: the high price of EVs and lack of charging infrastructure.



Cost-Competitive EVs

IRA tax credits will help make new EVs cost competitive with internal combustion engine cars



Expansion of Charging Infrastructure

\$7.5 billion in IIJA funding to build out a national network of charging infrastructure







Private Industry is Transitioning its Business Model

- Industry advancements are developing at a fast pace and producing beneficial economic impacts.
 - General Motors aims to only sell electric vehicles by 2035
 - Seven major automakers announced a joint venture to invest at least \$1 billion to build 30,000 DC fast charging ports throughout the country

Georgia is positioning itself as a hub for EV and battery manufacturing

• Hyundai, Kia, and Rivian are all investing in Georgia EV manufacturing plants





2018-2023 Electric Transportation Job Announcements. Source: Georgia Power

Equitably Accelerate the Adoption of EVs

- The Justice 40 Initiative aims to have 40 percent of the overall benefits of certain federal investments flow to disadvantaged communities that are marginalized, underserved, and overburdened by pollution.
- Justice40 will help leverage significant federal funding to deploy EVs and EV infrastructure equitably.
- Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map.
- Layered upon regional priorities, the RTEP represents an opportunity to align the region with these policies.





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Complementary Efforts

- In the RTEP will complement overlapping efforts already in motion.
- ARC is requesting \$14,793,845 of federal funding under the Charging and Fueling Instructure (CFI) Discretionary Grant Program to expand the region's network of DC fast chargers along or near designated Alternative Fuels Corridors (AFCs), as well as provide Level 2 stations that will be free-of-charge to the vehicle operator, with an emphasis given to locations within or near disadvantaged communities.
- The award could be scalable; If awarded in full:

57.8 %

DCFC fast charging stations, publicly accessible: \$8.55 M

38.8 %

Level 2 charging stations, free to use: \$5.74 M

2.5 %

Oversight and reporting: \$375 k 2.1 %

Engagement and outreach: \$310 k







Complementary Efforts

This plan will complement and build upon overlapping efforts already in motion – not duplicate or complicate partner efforts.

- Georgia Department of Transportation (GDOT) NEVI Plan
- Atlanta-Region Transit Link Authority (ATL) Transition Plan
- Town Center Community Improvement District (CID) Electrification Study
- Peachtree Corners EV Charging Program
- And more..





Project Timeline









Project Initiation & Existing Conditions Analysis Fall 2023/ Winter 2024

Defining the Plan's Vision & Goals Winter/ Spring 2024

Developing the Plan's Implementation Strategies



Spring/ Summer 2024

Prioritizing the Action-Oriented Implementation Strategies



Leverage Best Practices

- Communities, regions, and states across the country are planning now for EV readiness.
- Regional coordination is key, and ARC is in the position to lead stakeholders.
- If the time is now to think critically about leveraging this energy to help achieve the region's goals.
- Built from a base of invaluable stakeholder engagement, regional assessments, and visioning, together we will leverage the latest best practices to create a specific and action-oriented plan for the Atlanta region.





Stakeholder Advisory Committee





Stakeholder Outreach and Engagement





Stakeholder Advisory Committee Members

Atlanta Region Transit Link Authority Abby Marinelli, Transit Funding Manager

Dekalb County Robert Gordon, Fleet Manager Metro Atlanta Chamber **Cynthia Curry, Senior Director** of Clean Tech and Smart Cities Southern Environmental Law Center **Brian Gist, Senior Attorney**

City of Atlanta John Seydel, Deputy Chief Sustainability Officer

Clean Cities Georgia Frank Morris, Executive Director

Fulton County Government Jessica Lavender, Energy & **Sustainability Manager**

Gateway85 Community **Improvement District Carolyn Bourdeaux**. Special **Projects**

Cox Automotive Stephanie Valdez-Streaty, **Director of Mobility Research** and **Development**

Georgia Department of Transportation Beatrice Shakal, Policy Planning Coordinator

Natural Resources Defense Council **Patrick King, Transportation** Advocate

Partnership for Southern Equity Lavonya Jones, Just Energy Director

Peachtree Corners

Engineer

Town Center Community Improvement District Alisha Smith, Director, Projects & Planning

Uber Michele Blackwell, Senior **Public Policy Manager**

UGA-Carl Vinson Institute of James Nguyen, Transportation Government Shana Jones. Public Service Faculty



Meeting Schedule

Meeting #1 **Setting The Vision**

October 4, 2023

- Committee education
- Receive consensus on draft vision, mission, and ٠ goals
- Identify key areas of concern

Meeting #3

Reviewing Draft Recommendations

January/February 2024

- Project update
- Consensus on draft recommendations

Meeting #2 **Charting the Path Forward**

November 29, 2023

- Comprehensive review of technical work and findings
- Consensus on the plan's development direction

	Meeting #4
	Final Plan

March/April 2024

- Presentation of the finalized plan •
- Acknowledgment and appreciation of committee • members' contributions



Stakeholder Listening Sessions

- City & County Agencies
- Power Utilities
- Private Sector Organizations
- Regional Employers
- Large Fleet Owners
- School Districts
- Local Business Leaders
- Community Advocacy Organizations
- EVSE Suppliers
- Colleges & Universities

- Electric Vehicle Users
- Economic Development Organizations
- 📕 Tourism Bureaus
- 🖡 Etc.





Electrification Fundamentals





EV Charging Stations

ONE OF PAL REGION

Image Source: www.carolinacountry.com

CHAdeMO

CCS

Tesla



Can also be hardwired

Common Terms



Energy vs. Power	 Energy – the ability to cause change Power – The rate that energy is moved 	
Kilowatt Hour (kWh)	The measure of electrical energy (analogous to gallons)	
Kilowatt (kW)	The measure of power (analogous to gallons per minute)	
Charger	The equipment that is installed to charge vehicles	
Port	The ability for a charger to charge a vehicle (many chargers have two ports)	
Connector	Basically what plugs into the car	
Alternating Current (AC)	Power that rapidly changes polarity	
Direct Current (DC)	Power that keeps consistent polarity	







Note: The size of the pool depends on the vehicle.



Level 2 Chargers



ONE **Great** REGION



DCFC (Level 3) Chargers









ONE **Great**region







Barriers

EV Adoption Barriers





BIL EV Funding \$7.5B



\$2.5B Discretionary Funding

This funding will be open to a variety of organizations to support a variety of projects. Guidance on this program has not been issued but is expected later this year.



\$5.0B NEVI Formula Funding

This funding goes to state DOTs to build a network of Level 3 DC Fast chargers. States must submit plans that respond to federal guidance. This funding is to support long distance and interstate travel for EVs.



AFC Focus

- Creation of a national network of AFCs
- Focus paid to Interstates and the National Highway System
- This map will expand with the Round 6/NEVI nominations

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Private Adoption of EV's are Forecasted to Grow Exponentially

- EV adoption tends to accelerate when EVs represent 5% of new vehicle sales in a given market.
- Georgia has recently hit this tipping point.
 - Nationally: 8.6% of new vehicles sales were EVs in Q1, 2023.
 - Georgia: 6.8% of new vehicle sales were EVs in Q1, 2023













Setting the Vision





Vision ONE **Great**REGION

Mission

Foster thriving communities for all within the Atlanta region through collaborative, data-informed planning and investments.

Values Excellence | Integrity | Equity

Goals



Healthy, safe, livable communities in the Atlanta Metro area.



Strategic investments in people, infrastructure, mobility, and preserving natural resources.



Regional services delivered with **operational excellence** and **efficiency**.



Diverse stakeholders engage and take a regional approach to solve local issues.



A competitive economy that is inclusive, innovative, and resilient.



Establish a Regional EV Ecosystem

Create a robust and ubiquitous regional EV infrastructure ecosystem that supports electric mobility needs regardless of transportation mode. Coordinate such infrastructure investments to advance, accelerate, and maximize the growth of the EV ecosystem and EV adoption.





Economic Growth and Utilization

Concentrate targeted investments in manufacturing to benefit the region's workforce, incentivize job growth resulting in economic gains, and focus investments on EV infrastructure where utilization would be highest.





Advance Equitable Adoption

Become a national leader in regional transportation electrification by equitably accelerating the adoption of EVs, reducing transportation-related greenhouse gas emissions, and positioning the region's workforce to support EV investments and deployments to maximize community benefits in historically underserved communities.





Expand Access and Incentives

Expand public access to E-mobility options and EV charging by removing barriers to infrastructure access, providing incentives that accelerate EV adoption and support, and prioritizing policy actions that share the benefits of electrification with those who need the most assistance.





DRAFT Vision Statements and Themes

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#1: Establish a Regional EV Ecosystem

Create a robust and ubiquitous regional EV infrastructure ecosystem that supports electric mobility needs regardless of transportation mode. Coordinate such infrastructure investments to advance, accelerate, and maximize the growth of the EV ecosystem and EV adoption.



#2: Economic Growth and Utilization

Concentrate targeted investments in manufacturing to benefit the region's workforce, incentivize job growth resulting in economic gains, and focus investments on EV infrastructure where utilization would be highest.



#3: Advance Equitable Adoption

Become a national leader in regional transportation electrification by equitably accelerating the adoption of EVs, reducing transportation-related greenhouse gas emissions, and positioning the region's workforce to support EV investments and deployments to maximize community benefits in historically underserved communities.



#4: Expand Access and Incentives

Expand public access to E-mobility options and EV charging by removing barriers to infrastructure access, providing incentives that accelerate EV adoption and support, and prioritizing policy actions that share the benefits of electrification with those who need the most assistance.



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Group Discussion

- What barriers could keep us from achieving our vision?
- What voices generally go unheard in this discussion that need to be brought to the forefront?





Next Steps





Next Steps

Near-Term Priority Actions:

- Hold Listening Sessions
- Continue through the Needs Assessment
- Continue to receive feedback from the Technical Coordinating Committee (TCC), Transportation and Air Quality Committee (TAQC), and Land Use Coordinating Committee (LUCC)





Meeting Schedule



Meeting #1 The Guiding Principles

October 4, 2023

- Committee education
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Thank You



