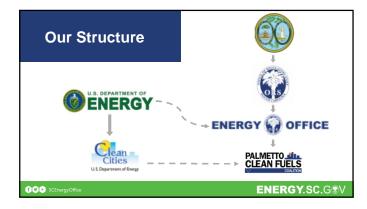
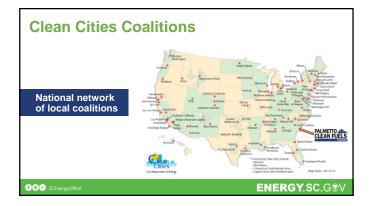
The information provided here is for informational and educational purposes and current as of the date of publication. The information is not a substitute for legal advice and does not necessarily reflect the opinion or policy position of the Municipal Association of South Carolina. Consult your attorney for advice concerning specific situations.

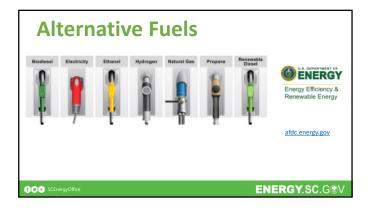
Electric Vehicle Charging Infrastructure in SC SC Community Development Association – Fall Meeting October 5, 2023
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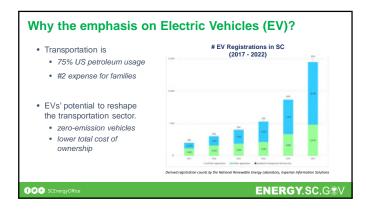




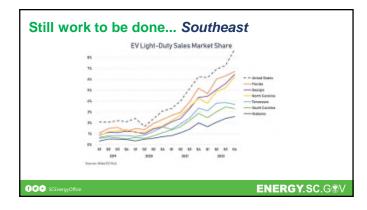




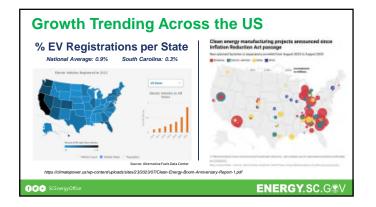


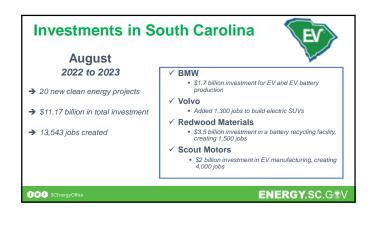


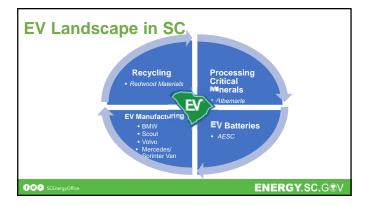


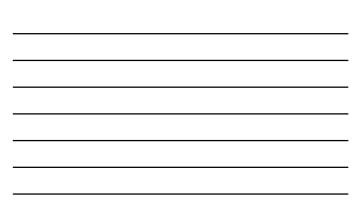














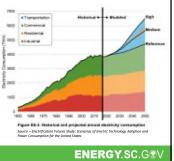
EVs draw from electrical power sources to charge their batteries

What's Happening

Influx of federal funding

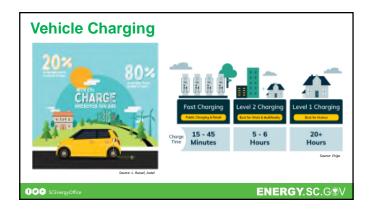
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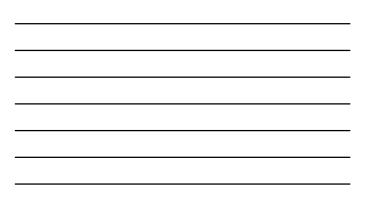
- Rapid deployment of EVs
- Increasing consumer demand

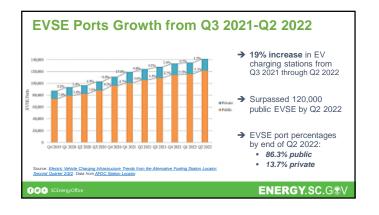




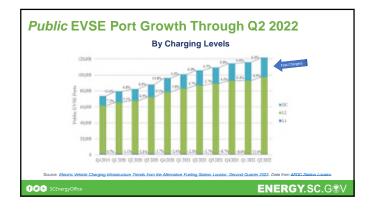
	Level 1 (AC)	Level 2 (AC)	Level 3 (DC Fast)
	J1772 connector	J1772 connector	CCS connector
Connector Type			CHAdeMO connector
			Tesla (NACS) connector
Voltage/Power Specifications	120V outlet with dedicated circuit (standard wall outlet)	208-240V outlet with dedicated circuit (dryer plug)	480V direct current, requires dedicated electrical service
Power Output	Up to 2.4 kW	3 kW to 19 kW	20 kW to 400+ kW
Estimated BEV Charge Time	40 to 50 hours	4 to 10 hours	15 to 60 minutes
Estimated Range Per Hour Charge	2 to 5 miles	10 to 30 miles	180 to 240 miles
Typical Locations	Residential	Residential, workplace, public (stores, restaurants, etc.)	Public (fueling stations, quick stops)

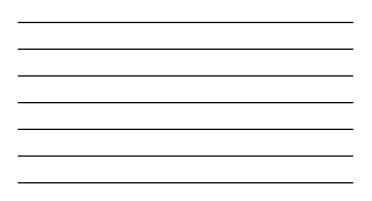


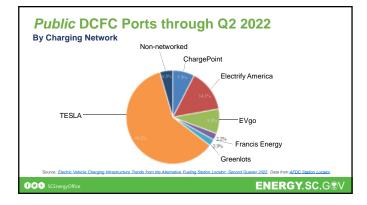




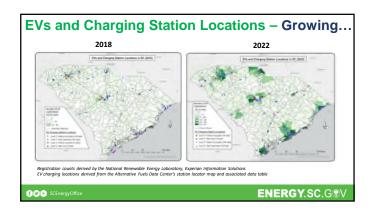




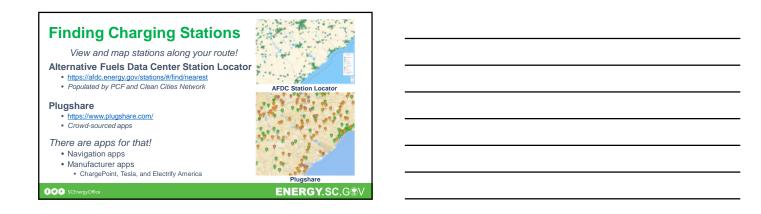






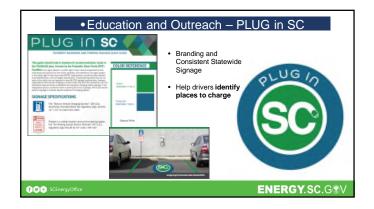


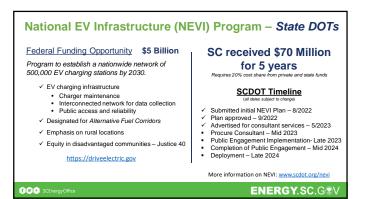
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EV Charger Reliability and Accessibility Accelerator Funding* PLUG IN SC

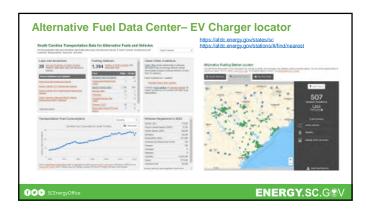
- Up to \$100 million in federal funding awards to repair and/or replace existing, non-operational/ broken EV charging infrastructure
 Entities shall have 12 months after getting award to render infrastructure operational
- Eligible EV chargers listed on the AFDC as "temporary unavailable" by October 11th
 South Carolina has over 70 chargers eligible for this funding (as of 9/11/23) 6 31 Level III 9 Level III (DCFC)

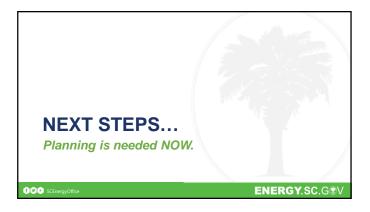


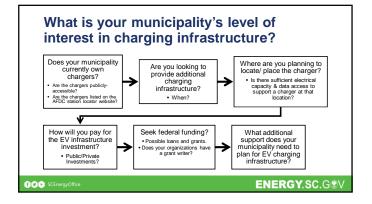
 Application Deadline: 11/13/2023 *10% of \$500 Million NEVI funding set aside for grants to states and localities that require an

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Palmetto Clean Fuels – Promoting clean fuels Events -

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- Events -• Clean Cities 30th Anniversary Meeting Sustainable Fleet Technology PCF Advisory Board (quarterly) PCF internship SE Regional meetings Nat'l' EV Charging Infrastructure Conf Drive Electric Events Earth Day Columbia (April) Columbia &Charleston (Sept) Shaw Air Force Base (Oct) Upstate Outreach EV Workforce Dev. Lunch & Learn (3) Protera Trainings (Sept) Biofuels

 - CAAFI meetings on SAF Biofuels production in SC Bengal Biodiesel @ Blythewood HS

Funding: • NEVI Funding (\$5Bil) • CFI Funding (\$2.5Bil) • EV Charger Reliability and Accessibility Accelerator • National DERA • Charling Auditing (National DERA FAA's Fueling Aviation's Sustainable Transition The Grant (FAST) Grant



- - Development

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Common Concerns

- Safety
- EVs undergo rigorous safety testing and adhere to strict standards like ICE vehicles Lower fire risk than ICE vehicles
- Range anxiety
 - Rapidly expanding charging infrastructure
 Charging station apps
 Ideal for commuter applications
- Battery longevity

 - Designed to lastMost warranties cover 8-10 years
- Expense
 - Lower total cost of ownership
 Tax incentives

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