

Meeting Minutes

Interagency EV Working Group

Date: February 10, 2023 **Time:** 2:00PM

Location: SCDOT Headquarters – 955 Park Street, Columbia, SC – Room 306

Attendees:

Members of Working Group
Justin Powell, SCDOT
Rob Bedenbaugh, SCDOT
Emmett Kirwan, SCDOT
Eddie Cogdill, SC Commerce
Sym Singh, Governor’s Office, via telephone
John White, SFAA
Rhonda Thompson, SCDHEC
Nina Staggers, SCDEW
Tim Hardee, SC Technical College System
Rene Kelly, SC Energy Office for Sara Bazemore
Laura Bayne, SCDMV

Other Attendees
Cynthia Davis, SC Commerce
Alex Clark, SC Commerce
Kelly Coakley, SC Commerce
Callie Price, SC Competes
Andi Rawl, SCMA/SCAC
Jennifer Patterson, SCFOR
Glen Bramlitt, SCDOT
Kelly Moore, SCDOT
Ted Creech, SCDOT
Shawn Epps, HDR
Jonathan Chasteen, HDR
Adam Jones, ACEC-SC
Justin Courtney, Midlands Technical College
Laura Hutchinson, Midlands Technical College
Ray Thomas, Midlands Technical College
Bryan Stone, Lockhart Power Company
Mike Smith, Electric Co- operatives of SC



Sym Singh was connected via phone call.

1. Introductions/Greetings

2. Approval of Meeting Minutes from January 4, 2023 Meeting

2.1. The meeting minutes from January 4, 2023 were presented and the working group was offered an opportunity to address any concerns. None were noted and the minutes were accepted via unanimous vote.

3. Addition of new member to the Working Group

3.1. Dr. Tim Hardee, President for the South Carolina Technical College System, was added as a member of the Interagency EV Working Group. The group welcomed Dr. Hardee.

4. Election of a Chairperson

4.1. R. Bedenbaugh nominated J. Powell to be the chairperson for the Interagency EV Working Group. The nomination was accepted unanimously.

5. Overview of Basic EV Terminology

5.1. R. Bedenbaugh gave a presentation that summarized relevant EV terminology that the Working Group will most likely encounter. This included:

- 5.1.1. NEVI – National Electric Vehicle Infrastructure
- 5.1.2. IJJA – Infrastructure Investment & Jobs Act
- 5.1.3. BIL – Bipartisan Infrastructure Law
- 5.1.4. FHWA – Federal Highway Administration
- 5.1.5. Joint Office – The Joint Office of Energy and Transportation
- 5.1.6. ICE – Internal Combustion Engine
- 5.1.7. PHEV – Plug-in Hybrid Electric Vehicle (such as a Toyota RAV 4 Prime)
- 5.1.8. BEV – Battery Powered Electric Vehicle (such as a Tesla)
- 5.1.9. HEV – Hybrid Electric Vehicle (such as a Prius)
- 5.1.10. EV – Electric Vehicle
- 5.1.11. EVSE – Electric Vehicle Supply Equipment (such as a charger)
- 5.1.12. Level 1 Charger – A standard wall outlet type, typically 110V
- 5.1.13. Level 2 Charger – An electric dryer type outlet, typically 240V
- 5.1.14. Level 3 Charger – A specialized charger, typically 400V – 1000V
- 5.1.15. DCFC – Direct Current Fast Charger, similar to a Level 3 Charger

6. Overview of new EV website by Department of Commerce

- 6.1. K. Coakley provided an interactive overview of the Department of Commerce's new EV website: <https://scpowersev.com/>

7. Overview of Palmetto Clean Fuels Coalition

- 7.1. R. Kelly, Director of Palmetto Clean Fuels (SCORS), provided a presentation of the Palmetto Clean Fuels Coalition – highlighting key resources the Coalition provides, such as:
 - 7.1.1. Reviews all fuel sources.
 - 7.1.2. Provides technical assistance to fleets.
 - 7.1.3. Collects data on all alternative fuel resources and shares a summary of the data.
 - 7.1.4. Provides matchmaking services and training to bridge gaps between government and private agencies.
 - 7.1.5. Provides education and outreach through “Plug In SC” for all fuel alternatives. Available at: www.energy.sc.gov/transport
 - 7.1.6. EVSI – Electric Vehicle Stakeholder Initiative, designed to explore EV opportunities.
 - 7.1.7. Produces a newsletter to inform stakeholders of new information.
 - 7.1.8. Summarizes available financial assistance programs.
 - 7.1.9. Provides technical assistance and fleet assessments to aid consumers in determining their EV vs ICE savings.
- 7.2. R. Bedenbaugh will compile all presentation slides and make available to the group via www.scdot.org/nevi [ACTION ITEM]

8. Feedback from Electric Utility Industry

- 8.1. M. Smith, Electric Cooperatives of South Carolina provided a summary of the Co-op's perspectives in the EV Industry – highlighting key points such as:
 - 8.1.1. The co-op maintains a database of various existing charging locations, including Level 2 and DCFC locations.
 - 8.1.2. Consideration should be given to the importance of convenient location apps that highlight charging station locations and availability.
 - 8.1.3. The public will need to be educated on the key differences between the availability of Tesla proprietary stations versus NEVI compliant stations.
 - 8.1.4. The public should be prepared for rate increases as the challenge for more power will become apparent with more station access points.
 - 8.1.5. Advance notice and consideration should be given to locations where future equipment will be installed.
 - 8.1.6. Preparation should be considered for challenges in areas where there is a long distance between towns where charging locations would be obvious.

- 8.1.7. R. Bedenbaugh asked M. Smith to poll other co-ops for needs and concerns and provide a summary to the Working Group. [ACTION ITEM]
- 8.2. B. Stone, Lockhart Power Company, highlighted key insights on their approach to Level 3 chargers, including:
 - 8.2.1. Advised the Working Group to seek other grants and financial assistance programs beyond NEVI.
 - 8.2.2. Advised to ensure rural corridors are given the opportunity to be part of the economic growth due to the influx of new chargers.
 - 8.2.3. Plan long-term and provide the headspace for future needs.
 - 8.2.4. Research the benefits and effects of tiered pricing.
 - 8.2.5. Consideration should be given to infrastructure investment costs. With the demand for more power stations, current returns on investments by electric companies are minimal.
 - 8.2.6. E. Cogdill asked what types of electrical demands could be placed on Utility Companies.
 - 8.2.6.1. Mr. Stone summarized that the current power curve is relatively low, but the need for planning is important as well as the need for advanced placement before demands increase.

9. Update on SC NEVI Plan

- 9.1. R. Bedenbaugh provided an update on recent developments in support of the SC NEVI Plan. The items addressed were:
 - 9.1.1. Market research is being conducted for the draft scope that will be used to procure a consultant to assist with implementation and refinement of the SC NEVI Plan. The feedback was solicited as an advertisement in the South Carolina Business Opportunity. The due date for feedback is February 23, 2023.
 - 9.1.2. SCDOT's NEVI website (www.scdot.org/nevi) will be the host-site for all information pertaining the Interagency EV Working Group, to include agendas, approved meeting minutes, presentations, and other related information. The information will be available within the next several weeks. [ACTION ITEM]
 - 9.1.3. A new option to subscribe via email for updates has been added to the SCDOT NEVI website.
- 9.2. R. Bedenbaugh reminded the Working Group to submit their one-page summary. [ACTION ITEM]

10. Agenda Items for March 31 Meeting

- 10.1. R. Bedenbaugh provided a preview of the next meeting, noting planned stakeholders that would be invited to share information and key items for

discussion; including, SC Convenience and Petroleum Marketers, Hotels, Conservation Voters of SC, and a summary of the gap analysis from SCDEW.

- 10.2. R. Bedenbaugh informed the Working Group that the April 25th meeting will focus on Utility companies: Duke Energy, Santee Cooper, Dominion Energy, and Municipal Power Agencies.
- 10.3. J. Powell noted to the group that there are future plans to broadcast the meetings live. The group did not raise any concerns with broadcasting the meetings live.
- 10.4. R. Bedenbaugh will publish Doodle Polls to identify dates for upcoming meetings. Friday mornings will be pursued as the priority. [ACTION ITEM]

11. The meeting was adjourned at 3:55PM.

Summary of Action Items:

1. Compile recent presentation slides and share with the Working Group [SCDOT]
2. Poll other co-ops for needs and concerns and provide a summary to the Working Group [M. Smith, Electric Cooperatives of South Carolina]
3. Update SCDOT NEVI website to host information for the Interagency EV Working Group. [SCDOT]
4. Prepare a one-sheet summary of helpful links and information. [All Members of Working Group]
5. Submit Doodle poll for subsequent meeting dates. [SCDOT]