

**CITY OF PHOENIX  
ELECTRIC VEHICLE AD HOC COMMITTEE**



**Summary Minutes from Friday, March 4, 2022**

Virtual Meeting – Via WebEx

**Ad Hoc Committee Members (Present)**

Councilwoman Ansari  
Autumn Johnson  
Tim Sprague  
Catherine O'Brien  
Clark Miller  
Court Rich  
Delbert Hawk  
Kathy Knoop  
Lisa Perez  
Omar Gonzales

**Ad Hoc Committee Members (Absent)**

Caryn Potter  
Katherine Stainken  
Jason Smith  
Vianey Olivarria  
Columba Sainz

**City Staff Present**

Karen Peters, CMO  
Mark Hartman, Office of Sustainability  
Aaron Kane, Council District 7 Office  
Karen Apple, Office of Sustainability  
Darice Ellis, Office of Sustainability  
Karl Kaseoru, ITS  
Alan Stephenson, Planning and Dev.  
Albert Crespo, Transit  
Becca McCarthy, Aviation  
Felissa Washington Smith, PWD  
Gabriel Navarez, Aviation  
Gary Lovgren, Aviation

Joe Giudice, PWD  
Joe Bowar, Transit  
John Chan, PCC  
Larry Smallwood, CMO  
Sandra Hoffman, Planning and Dev.  
Scott Coughlin, Parks  
Stephanie Bracken, Office of The Council  
Stephen Dudley, Planning and Dev.  
Roberto Valentin, Transit  
Willa Kaough, Office of The Mayor  
Emma Collins, Office of Sustainability

**1. Call to Order/Roll Call**

Councilwoman Ansari called the meeting to order at 10:04 a.m. and Karen Apple, the City's EV Program Manager, performed the roll call. Councilwoman Ansari reported that this is the seventh meeting for this subcommittee.

**2. Approval of Minutes – Feb. 4, 2022 Electric Vehicle Ad Hoc Committee Meeting**

Councilwoman Ansari requested a motion to adopt the minutes, Committee Member Hawk called for a first motion and Committee Member Perez called for a second, unanimous pass, motion carried.

**3. News and Announcements**

Councilwoman Ansari introduced Karen Apple, EV Program Manager, to discuss recent news in the EV world.

Ms. Apple presented on recent news in the EV world which included information on the 2022 Superbowl EV commercials, data and stats in 2021, and key points including availability at the local auto dealers.

Committee Member Miller commented that Energy Information Administration (EIA) released new data on electricity production and non-carbon electricity and noted that it was up 40% of the US total for 2021. Furthermore, Committee Member Miller stated that there will be a lot more options coming to the home electricity upgrade space, and that is worth thinking about how that factors into the work of the EV Ad Hoc Committee.

#### **4. APS – EV Charging Solutions and Grid Overview**

Councilwoman Ansari introduced Jason Smith, Energy Innovation Consultant with APS.

Mr. Smith presented on how APS is addressing the transition to support EVs. The presentation included information on EV growth since December 2010, APS' commitment to EVs, associated key goals, and resource planning/analysis.

Committee Member Miller agreed that the grid must be managed every day between now and 2050, but also, APS has historically had generation resources that liked to produce electricity 365 24/7, and those resources will be fewer in the future. APS will focus on resources to be used during peak periods. Committee Member Miller asked how much APS is already thinking about peak and non-peak periods, considering behavior changes and infrastructure investment trends.

Mr. Smith commented that APS is highlighting the importance of nuclear energy, additionally, APS is adding a lot of Megawatts (MW) of energy storage, and managed charging both passive and active.

Mr. Smith continued with the presentation including information on off-peak charging/managed charging, and then passed the presentation to Randon Allen, Distribution Planning and Engineering with APS.

Committee Member Miller expressed concern that we are already in the business of training people to charge EVs at a time that it is the most expensive. Likewise, that the grid will be different than it looks today dealing with massive EV numbers--the demand structure will look vastly different than today.

Mr. Smith addressed the concern and stated that APS will be growing along with the market.

Conversation around batteries and storage options continued.

Chief Sustainability Officer, Mark Hartman, emphasized that the Draft EV Roadmap will include recommendations regarding workplace and daytime charging. He stated that the City should explore providing incentives to employees and for others so that people will choose to charge during the day while at work versus at home.

Mr. Allen continued the APS presentation and included information on supporting EV growth and preparing for the future.

Committee Member Miller asked how APS is modifying the electrical distribution to accommodate L1, L2 and L3 grid capacity. Likewise, what are the behavioral aspects of those different charging stations and types. What does APS see as the future for L1 charging and how does it play into infrastructure planning.

Mr. Allen stated that there are some interesting perspectives around solar daytime charging, and that there will be several sources available, some may alter the peak time. He commented on a variety of challenges.

Mr. Smith added that 1) there is a psychological aspect wherein people plan for “just in case” 2) range anxiety, 3) use cases for future planning, and 4) long-term parking at Sky Harbor. Mr. Smith continued to comment that there are different applications and implications behind each charging level.

Mr. Hartman commented that there are conversations with developers and invited utilities to join the conversation.

## **5. Draft EV Roadmap Status, Community Outreach Plan and Overview and Timeline**

Councilwoman Ansari introduced Mark Hartman, Chief Sustainability Officer, to provide an update on the Draft Electric Vehicle Roadmap to 2030.

Mr. Hartman stated that there is an extension and that the final draft version would be ready for Spanish translation by Friday March 11<sup>th</sup>, 2022.

Mr. Hartman walked through the Draft EV Roadmap and asked for feedback on specific areas. Mr. Hartman asked if there were thoughts around using 2030 as the target date. No one opposed.

Mr. Hartman highlighted the acknowledgment section to include all the groups and members. Additionally, there is not currently an Executive Summary and asked for input.

Committee Member Miller volunteered to contribute to the Education and Outreach summary.

Committee Member Perez volunteered as well.

Mr. Hartman highlighted the introduction of the Draft EV Roadmap and the importance of the document.

Committee Member Miller commented that there should be a part that acknowledges that EVs are just one part of a larger transportation system. We need to be thinking about how we move people around the city and how a lot of that evolves to become more equitable and carbon neutral.

Committee Member O'Brien agreed.

Mr. Hartman highlighted medium and heavy-duty transportation is mentioned in the roadmap.

Committee Members suggested adding electric buses.

Committee Member Miller asked to add continued investments into low-carbon mass transit.

Mr. Hartman continued to highlight components of the Draft EV Roadmap.

Mr. Smith asked for clarification around the initial forecast of registered EVs.

Mr. Hartman provided clarification.

Continued conversation around the aspects of the Draft EV Roadmap continued, and edits were made.

Councilwoman Ansari suggested adding a comment that the document will be a living document and that revisions to the targets will be made based on changes observed in the industry.

Committee Member Johnson flagged the word "model", and recommended changes.

Councilwoman Ansari and Ms. Apple confirmed that an email with dates and deliverables will be sent to the group.

Councilwoman Ansari commented on public outreach and asked if there is a better use of that time to do public outreach, and if it is useful to keep the three subcommittees or to do outreach.

Mr. Hartman commented on the education and outreach opportunities and provided the list of April and May outreach areas.

## **6. Public Comment**

Councilwoman Ansari asked if any members of the public had registered to speak. No members of the public registered to speak for public comment.

**7. Future Agenda Items**

Councilwoman Ansari asked if anyone had items they'd like to add to future meetings. No items were suggested.

**8. Adjournment**

Councilwoman Ansari adjourned the meeting at 11:52am. Next meeting is Friday March 4, 2022.

DRAFT