

**CITY OF PHOENIX
ELECTRIC VEHICLE AD HOC COMMITTEE:
PUBLIC, WORKPLACE & HOME CHARGING INFRASTRUCTURE SUBCOMMITTEE**



Summary Minutes from Friday, November 19, 2021

Virtual Meeting – Via WebEx

Ad Hoc Committee Members (Present)

Jason Smith
Omar Gonzales
Autumn Johnson
Catherine O'Brien
Court Rich
Caryn Potter
Tim Sprague

Committee Members (Absent)

City Staff Present

Karen Apple, Sustainability
Mark Hartman, Sustainability
Karen Peters, City Manager's Office
Christine Mackay, Community & Economic
Development
Felissa Washington Smith, Public Works
Gabriel Nevarez, Aviation
Gary Lovgren, Aviation
Joe Giudice, Public Works

John Chan, Convention Center
Karl Kaseoru, ITS
Kimberly Brown, Aviation
Lawrence Polk, Parks and Recreation
Sandra Hoffman, Planning & Development
Sarah Demory, Aviation
Stephen Dudley, Planning & Development
Willa Kaough, Office of the Mayor
David Benton, City Attorney's Office

1. Call to Order/Roll Call

Deputy City Manager Karen Peters called the meeting to order at 10:03 a.m. and Karen Apple, City Electric Vehicle Program Manager performed the roll call. Deputy City Manager Peters reported that this is the third meeting for this subcommittee.

2. Approval of Minutes – Oct. 15, 2021 Electric Vehicle Ad Hoc – Public, Workplace and Home Charging Infrastructure Subcommittee Meeting

Deputy City Manager Peters requested a motion to adopt the minutes. Committee Member O'Brien called for a first motion and Committee Member Johnson called for a second, unanimous pass, motion carried.

3. News and Announcements

Deputy City Manager Peters introduced Ms. Apple to provide a snapshot of recent news in the EV world.

Ms. Apple reported that the President signed the infrastructure package and next up would be the House considering the \$1.75-trillion Build Back Better Act bill. Additionally, the US Department of Energy, Office of Electricity has expanded its

Energy Zones Mapping tool to include an equity component. B2U Storage Solutions has converted approximately 160 used Leaf battery packs into energy storage, Toyota revealed its first all battery electric vehicle (BEV), Ford demonstrated applications for its first electric crate motor, National Automobile Dealers Association (NADA) formed a partnership with Chargeway to deploy EV beacons. She also announced that the EV Ad Hoc SharePoint page has moved and is now located at www.phoenix.gov/sustainability/electric-vehicles/ad-hoc-committee

Deputy City Manager Peters introduced Alan Stephenson, the Director of Planning and Development to provide a short summary of the roundtable with builders and developers that Councilwoman Ansari hosted earlier in the week. Mr. Stephenson was not on the line. Mr. Hartman reported.

Mr. Hartman provided a short summary of the roundtable with builders and developers that Councilwoman Ansari hosted earlier in the week. Participants agreed they are ready to work together to find appropriate and innovative solutions.

Deputy City Manager Peters clarified that it was a meeting for developers of multifamily development and noted that Councilwoman Ansari will reach out to commercial developers as well. Additionally, Deputy City Manager Peters suggested that at some point the committee will present their perspectives at an EV Ad Hoc committee or appropriate subcommittee meetings.

Committee Member Sprague mentioned that he spoke with a multifamily developer and learned that we have an interesting development opportunity where many builders will build and sell after construction as merchant builders. Additionally, Committee Member Sprague stated that the developers initial look is short term in terms of how they are going to build. Committee Member Sprague suggested the need for education to understand what the impact is and stated it would be a good idea to provide information to developers to make sure they are building correctly. Furthermore, Committee Member Sprague stated that providing incentives will motivate people to address this issue and that mandatory requirements would not be well received. He mentioned that the residential building industry is looking short term, and education needs to happen on what happens after a development is constructed and transferred over to the building owner.

Deputy City Manager Peters agreed that more conversations are needed to better understand the development and transfer process.

Mr. Hartman added that as we look at home development, we need to better understand how to integrate that that perspective as this subcommittee brings forward these recommendations.

4. Overview of EV Public and Home Charging Equipment and Business Models (Chargepoint, Blink, EVGo)

Deputy City Manager Peters introduced Ms. Apple to provide an overview of various EV charging providers.

Ms. Apple provided an overview on EV Charging Provider Equipment and Business Models. Ms. Apple reported that the City is currently contracted with BLINK for the 62 public EV charging stations, but also reviewed EVGo and ChargePoint options. Ms. Apple provided an overview of EVGo company highlights including being the largest Public DCFC (DC Fast Charging) Network, planning solutions, partnerships, and availability of technology.

Mr. Hartman commented that there are four permits with Planning and Development to install EV fast chargers with EVGo as a part of this partnership.

Ms. Apple continued to report on the business model including their Owner Operated and EVGo extended opportunity. Ms. Apple reports that EVGo provides for DCFC equipment and Level-2 charging options.

Ms. Apple reported on Blink including highlights on their company including charging station capabilities, partnerships, smart charging software, equipment types, and commercial product options. Ms. Apple stated that the City currently operates under a hybrid business model with Blink and reported on that business model. Ms. Apple reported on Blink as a service, Blink owned, and Host owned business models.

Ms. Apple reported on ChargePoint company highlights including information on charging solutions, partnerships, charging options, smart charging opportunities, and equipment availability. Ms. Apple provided an overview of their business model. Ms. Apple reported on ChargePoint home charging opportunities including equipment types for apartments, condos, and single-family homes.

Deputy City Manager Peters asked for questions or issues the subcommittee member would like to discuss.

Committee Member Potter was curious knowing that COP uses Blink if the City knew what other models Maricopa County agencies are using, and if there was any feedback from those specific types of models. Committee Member Potter suggested that the feedback could be helpful to this subcommittee.

Ms. Apple reported that Tempe uses Blink and reported that the City of Phoenix Blinks were legacy equipment from when ECOtality installed stations, and Blink took over that contract. Additionally, Tempe has most recently installed Chargepoint chargers available for public use. Ms. Apple reported that the City of Avondale has installed ChargePoint equipment as well.

Committee Member O'Brien stated that Tempe Library changed from Blink to ChargePoint and SRP supported this; however, was not aware of other areas in Tempe. Committee Member O'Brien stated that there are other areas utilizing mainly

ChargePoint. Additionally, ChargePoint Level 2 equipment has primarily been used for public accessibility, while EVGo has been focused more on the deployment of DCFC in the local area for use by the public.

Mr. Hartman stated that these three vendors have the lion's share of EV charging equipment in the local area and it would be interesting to see the offerings as this evolves. He suggested that the Ad Hoc subcommittee may wish to consider different types of equipment to learn how they perform in the Phoenix climate.

Ms. Apple stated that all three models all offer network solutions, and to consider if networked charging solutions are a viable option for residential or commercial properties.

Committee Member O'Brien stated that depending on network vs. non network that may have different implications manage charging load services. Committee Member O'Brien stated that network services/chargers can use managed charging approaches, however non-networked cannot. There is no way to manage charging from an operational standpoint with non-networked equipment types.

5. Overview of Draft Deliverables Template

Deputy City Manager Peters introduced Mark Hartman, the City Chief Sustainability Officer to provide an overview of the Deliverables Template.

Deputy City Manager Peters stated that this time could be used as a working session to continue to complete the template and get necessary input.

Mr. Hartman gave a brief overview of the format and discussed the process on how the template was created. Mr. Hartman used an sample roadmap to highlight how to use the template including the goals, timeline, and principles. Mr. Hartman introduced Catherine O'Brien to lead the discussion on the template.

Committee Member O'Brien stated that this is focused on EV charging in City property and right-of-way (ROW) and asked if the 500 charger goal was adequate. Committee Member Potter stated that NREL had created EVI Pro to create projections on EVs, which confirmed the goal is appropriate according to projections, but this may change as time moves forward.

Committee Member O'Brien reported that the green bullet points represent where money comes into play to help get it started and the blue bullet points mean the action doesn't need money to get approved. The first section of actions is to pave the way to be able to complete the rest of the actions down the road.

Mr. Hartman recommended going line by line to ensure that everyone agrees with the actions.

The session included comments on prioritizing and selecting the appropriate charging stations for locations. Additionally, Committee Member O'Brien stated that it is important to understand locations and to consider the correct level of charging equipment to deploy.

Deputy City Manager Peters commented that the city will work through these plans with city staff and consider actionability. The City staff will work with Budget and Research to ensure that recommendations are fully vetted, and necessary staff and departments have been informed, and confirm capacity.

Committee Member O'Brien suggested further examination of business models to minimize risk, and review of technology and equipment availability. Furthermore, Committee Member O'Brien asked if a list of City staff would be available that would be responsible for ongoing implementation.

Mr. Hartman clarified that that EV Ad Hoc Committee would make their recommendations to City Council on what is needed, and city staff will determine how to fulfill those needs—whether it involves a new staff member or if a current staff member can absorb the work.

Deputy City Manager Peters recommended caution when putting concrete numbers of positions in the recommendations and suggested that they subcommittee simply state that staff is needed. Deputy City Manager clarified that the city would make the final determination with information from the recommendations.

Committee Member Gonzales recommended adding language about proactively partnering with the state since the anticipated federal funding will be administered through the state.

Mr. Hartman provided a suggestion to include a recommendation that might include completing a load study to understand available infrastructure opportunities.

Committee Member O'Brien suggested working with other cities and Maricopa Association of Governments on a regional EV infrastructure study that would include an EV charging needs assessment analysis along with siting recommendations.

The discussion included comments on identification of charging types and opportunities for bulk purchasing. Additionally, Mr. Hartman provided clarification on City contracts around EV charging.

Committee Member Smith asked that maintenance be included in the budget recommendation.

The discussion concluded with Mr. Hartman agreeing to send the completed document to the subcommittee members to add comments. Additionally, Mr.

Hartman stated that these should go to Ms. Apple who will review and circulate to the full group.

6. Public Comment

Ms. Apple asked for public comment. No public comment.

7. Future Agenda Items

Ms. Apple asked for items that should be included in future meetings.

8. Adjournment

Ms. Apple adjourned the meeting at 12:05pm. Next meeting is Friday December 17, 2021 at 10:00am.