



# NARUC Electric Vehicles State Working Group

MARCH MEETING

MARCH 31, 2020

# AGENDA

<b>3:00 PM</b>	<b>Welcome and Introductions (5 minutes)</b> <ul style="list-style-type: none"><li>• Agenda review</li><li>• Roll call, by state</li></ul>
<b>3:05 PM</b>	<b>Panelist Opening Remarks:</b> <ul style="list-style-type: none"><li>• 5 minutes: Phil Jones, Alliance for Transportation Electrification</li><li>• 5 minutes: Stefanie Brand, New Jersey Division of Rate Counsel</li><li>• 5 minutes: Joshua Cohen, Greenlots</li></ul>
<b>3:20 PM</b>	<b>Panel Discussion (30 minutes)</b> <ul style="list-style-type: none"><li>• 30 minutes: Panelists will discuss the role of the utility in EV charging investments, including whether they think utilities should own and operate charging stations or invest in make-ready infrastructure, as well as the role of the third-party charging industry (see discussion questions below).</li></ul>
<b>3:50 PM</b>	<b>Final Panelist Q&amp;A (10 minutes)</b> <ul style="list-style-type: none"><li>• Working group members will have a chance to ask any remaining questions.</li></ul>
<b>4:00 PM</b>	<b>Closed Door Discussion</b> <ul style="list-style-type: none"><li>• Working group members will discuss their own views and the actions their states have taken to date.</li></ul>
<b>4:25 PM</b>	<b>Next Steps and Announcements (5 minutes)</b>
<b>4:30 PM</b>	<b>Adjourn</b>

# Roll Call

## Working Group Members

### States:

- ▶ Arizona
- ▶ California
- ▶ Colorado
- ▶ Connecticut
- ▶ D.C.
- ▶ Florida
- ▶ Georgia
- ▶ Hawaii
- ▶ Illinois
- ▶ Maryland
- ▶ Massachusetts
- ▶ Michigan
- ▶ Minnesota
- ▶ Missouri
- ▶ Nevada
- ▶ New Jersey
- ▶ New York
- ▶ North Carolina
- ▶ Ohio
- ▶ Oregon
- ▶ Puerto Rico
- ▶ South Dakota
- ▶ Texas
- ▶ Vermont
- ▶ Washington
- ▶ Wisconsin

### National/Federal Partners:

- ▶ NARUC
- ▶ U.S. DOE
- ▶ U.S. EPA



# The Role of the Utility in EV Charging Investments

## Panelist Opening Remarks

- ▶ Phil Jones, Alliance for Transportation Electrification
- ▶ Stefanie Brand, New Jersey Division of Rate Counsel
- ▶ Josh Cohen, Greenlots

# Opening Remarks

## Phil Jones

- ▶ Executive Director, Alliance for Transportation Electrification
- ▶ Past President of NARUC and Former Washington UTC Commissioner
- ▶ [phil@philjonesconsulting.com](mailto:phil@philjonesconsulting.com)

# Opening Remarks

Stefanie Brand

- ▶ Director, New Jersey Division of Rate Counsel
- ▶ [sbrand@rpa.nj.gov](mailto:sbrand@rpa.nj.gov)

Founded in **2008**  
with over a decade  
of experience



Headquartered in  
**Los Angeles,**  
California



Global footprint with  
offices throughout the US  
and in Canada, India, and  
Southeast Asia



Over **150**  
**Employees**  
and contractors  
worldwide



Working with  
utilities, cities,  
automakers, fleets &  
site hosts across the  
US and the world



Acquired by  
**Shell** in January  
2019



# Greenlots is powering the future of electric transportation with industry-leading EV charging software and services



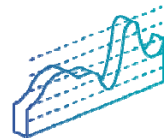
## EV Charging Network Software

Operate & monitor networks of charging stations



## Smart Charging Optimization

Site-focused energy management



## Digital Mobility Solutions

Digital platforms for fleets and auto OEMs to expand their mobility offerings



## Grid Balancing Services

Aggregate and leverage EV load to maintain grid reliability and efficiency



## Our turnkey approach to charging infrastructure



Choice of hardware



Program Management



Engineering & Commissioning



Software & Mobile App



Customer Support and O&M



2020

Josh Cohen, Director of Policy  
(410) 989-8121  
[jcohen@greenlots.com](mailto:jcohen@greenlots.com)



**greenlots**  
A Member of the Shell Group





## Panel Questions

1. What do you think is the biggest barrier to widespread EV adoption? Are you worried about the “charging gap?”



## Panel Questions

2. What would you envision as the ideal utility role in EV charging?



## Panel Questions

3. What are the pros and cons of utilities owning and operating charging infrastructure?



## Panel Questions

4. What are the pros and cons of utilities rate basing other investments (including make-ready infrastructure or charger rebate programs)?



## Panel Questions

5. How can utility involvement impact the total availability of EV charging and the speed of market transformation? What is the impact on the third party charging industry?





## Panel Questions

6. How does utility involvement impact low and moderate income ratepayers and under-served communities?



## Panel Questions

7. How would you characterize the rate impact of EV adoption and EV programs? How can charging stations be built at the least cost?



## Panel Questions

8. Would utility involvement in EVSE (or lack thereof) have any impact on the ability to integrate EV load onto the grid?



## Panel Questions

9. Is the utility better suited to certain charging applications than others? (Medium/heavy-duty, fleets, DCFC, underserved areas, etc.)



## Audience Questions

Does the working group have any additional questions for the panel?



# Peer Discussion – Commissioners Commission Staff Only

## Facilitators

- ▶ Working Group Chair Maria Bocanegra and Illinois Commerce Commission Staff
- ▶ Working Group Vice-chair Jason Stanek and Maryland Public Service Commission Staff

# Preparatory Questions

## To Consider in Advance:

- ▶ Has your state received any utility proposals to invest in EV charging infrastructure (EVSE)? What final decision was reached?
- ▶ Who owns and operates the EVSE, if allowed?
- ▶ Do any utilities in your state have make-ready or rebate programs?
- ▶ Why did you arrive to these conclusion?

See also pages 16-24 of the NARUC report, *Electric Vehicles: Key Trends, Issues, and Considerations for State Regulators* (<http://bit.ly/EVkeytrends>)



# Discussion Questions

How do you think about the questions asked of the panelists?

1. What would you envision as the ideal utility role in EV charging?



## Discussion Questions

How do you think about the questions asked of the panelists?

1. What would you envision as the ideal utility role in EV charging?
2. What are the pros and cons of utilities owning and operating charging infrastructure?



## Discussion Questions

How do you think about the questions asked of the panelists?

1. What would you envision as the ideal utility role in EV charging?
2. What are the pros and cons of utilities owning and operating charging infrastructure?
3. What are the pros and cons of utilities rate basing other investments (including make-ready infrastructure or charger rebate programs)?





# Discussion Questions

How do you think about the questions asked of the panelists?

1. What would you envision as the ideal utility role in EV charging?
2. What are the pros and cons of utilities owning and operating charging infrastructure?
3. What are the pros and cons of utilities rate basing other investments (including make-ready infrastructure or charger rebate programs)?
4. Is the utility better suited to certain charging applications than others? (Medium/heavy-duty, fleets, DCFC, underserved areas, etc.)

# Announcements

## NARUC Report on EVs

- ▶ “Electric Vehicles: Key Trends, Issues, and Considerations for State Regulators” was released in December
- ▶ Feel free to share with colleagues:  
<http://bit.ly/EVkeytrends>



**NARUC**

National Association of Regulatory Utility Commissioners

### **Electric Vehicles: Key Trends, Issues, and Considerations for State Regulators**



Charles Harper, Gregory McAndrews, & Danielle Sazo Byrnett  
October 2019

# Announcements

April Meeting:

- ▶ Topic: Managed Charging and Vehicle-To-Grid
- ▶ Final date, speakers, and agenda to come

New EVSWG Listserv: [NARUC-EVSWG@lists.naruc.org](mailto:NARUC-EVSWG@lists.naruc.org)

Recordings of past EVSWG meetings: [www.naruc.org/cpi/cpi-past-events/](http://www.naruc.org/cpi/cpi-past-events/)