WELCOME!

MID-ATLANTIC ELECTRIC VEHICLE CHARGING INFRASTRUCTURE SUMMIT

April 30, 2019

Coffee is available in the foyer. Program will start at 10:15 sharp.

DVRPC-WIFI  pw: Connections2045

Please get to know each other in the meantime . . . .
OVERVIEW: MID-ATLANTIC ELECTRIC VEHICLE CHARGING INFRASTRUCTURE SUMMIT

April 30, 2019

Rob Graff, Manager, Office of Energy and Climate Change Initiatives
Delaware Valley Regional Planning Commission.
Logistics

Men’s room is to right of elevators, women’s to left.

Brief break at 11. Coffee anytime.

Lunch @ 12:30 – salads with meat & cheese add-ons.

Break around 3 – soft pretzels with mustard.

Continue conversations here or at the Independence Beer Garden – turn right when you leave our building, cross Arch Street, cross Market Street. It is on the right, under the first building.

WiFi: DVRPC-WIFI, pw: Connections2045
The Delaware Valley Regional Planning Commission (DVRPC)

- Metropolitan Planning Organization (MPO) for the Philadelphia region, created in 1965
- Bi-state (PA/NJ), nine counties
- Board made up of representatives of the counties, major cities, key state agencies, Governors’ representatives
- Staff of over 120
DVRPC Areas of Activity

Transportation, Air Quality, Smart Growth, Environmental Planning, Housing and Economic Development, Population and Employment forecasts, Long Range Planning, and...

Energy and Climate Change Initiatives:

*Understand and advance effective and practical policies to reduce greenhouse gas emissions and prepare the region for the inevitable long-term impacts of climate change, with a particular focus on the transportation sector.*
Relevant DVRPC Work

- Transportation Research Board’s Special Task Force on Climate
- Commonwealth of Pennsylvania’s Climate Change Advisory Committee
- *Ready To Roll!*, the region’s US DOE-funded electric vehicle readiness plan
- Drive Electric PA Coalition
- Electric vehicle subject matter expert for the Pennsylvania Department of Transportation
- City of Philadelphia’s EV Policy Task Force
- TCI Listening Session -- Wilmington
- Working with multiple transit agencies on BEB implementation issues
- ELECTRIC VEHICLES TODAY AND TOMORROW, November 2017 Event
Motivation for Summit

Bring DEPs, DOTs, PUCs, EDCs, top researchers, and others together without vendors.

State expenditures of VW settlement money on electric vehicles and EVSE.

Electrify America's program to provide public EVSE.

DVRPC’s work with UC Davis PH&EV Research Center

Georgetown Climate Center’s Electric Vehicle Work.

The multistate Transportation Climate Initiative (TCI) Market-Based initiative being coordinated by Georgetown Climate Center.

Various other state initiatives throughout the mid-Atlantic for greenhouse gas reductions that include promotion of electric vehicles and electric vehicle charging.
Many Unanswered Questions

How many electric vehicles are likely to be purchased?
Where and when will they be charged?
What is the expected demand for public and workplace charging?
How does pricing to recover costs affect demand for public and workplace charging?
How do larger batteries affect behavior?
Are the solutions to yesterday’s problems the solutions to today’s problems?
What strategies are most effective for to provide charging?
How can the different players work together effectively? (transportation agencies, electricity providers, environmental agencies, metropolitan planners)
Home Charging

- Consumer acceptance of smart charging and V2G: 21
- Impact on neighborhood electric supply infrastructure: 20
- Current and anticipated home charging behavior: 16
- Emissions impacts and the need to inform customers of those impacts: 1
- Funding opportunities for home chargers: 1
Public Charging (not workplace)

- Business case for charging infrastructure: 19
- DC fast chargers for local use (the gas station model): 17
- Charging at multi-unit dwellings: 17
- Free vs. paid charging: 16
- Neighborhood charging: 16
- Franchise in the public right of way (on or off-street): 14
- Network connectivity: 12
- Electric supply considerations: 11
- Level 1 vs Level 2 charging: 6
- Other charging modalities (e.g., induction): 6
- Emissions implications: 1
- Charging stations at rail stations and park and rides: 1
Ground Rules

To make the day most valuable, we want broad participation. Off-agenda topics will be recorded in the “parking lot”. We may get to them by end of the day. Or they may form the agenda for future activities.

Our intention is to keep presentations short to stimulate discussion.

Define acronyms and avoid jargon.


Discussions will (generally) be moderated.

Speakers/Panelists – Please repeat questions.
Gil Tal, Ph.D.
Director, The Plug-in Hybrid & Electric Vehicle (PH&EV) Research Center, Institute of Transportation Studies, University of California, Davis.