Agenda Item #4A

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**Greenhouse Gas Emissions, Energy Use, and Climate Change: DVRPC Activities** 

Presentation to: Greater Washington Metropolitan Council of Governments'

**CLIMATE, ENERGY, AND ENVIRONMENT POLICY COMMITTEE (CEEPC)** 

March 22nd, 2017

Robert Graff Manager, Office of Energy and Climate Change Initiatives Delaware Valley Regional Planning Commission Philadelphia, PA

### The Delaware Valley Regional Planning Commission (DVRPC)



Metropolitan Planning Organization (MPO) for the bi-state, 9-county Philadelphia region Home rule region: 351 municipalities; 5.5M people; land use power resides with local governments

- Regional planning: more carrots than sticks: MPO as facilitator and consensus builder
- We develop many planning tools and conduct planning projects for our member governments to encourage good thinking and pursue good practice

#### **Connections 2040: Plan for Greater Philadelphia**





fostering sustainability, equity, and innovation



#### www.dvrpc.org/LongRangePlan/

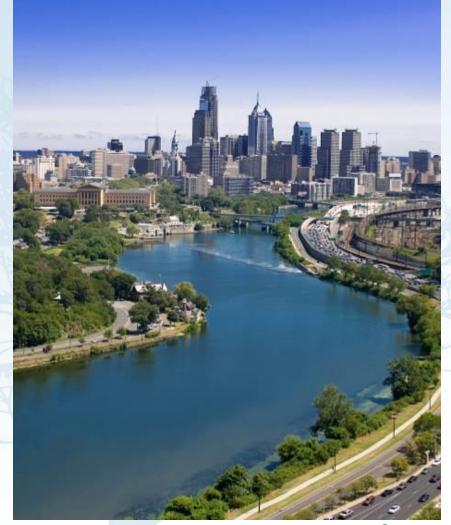
**4 Key Strategies** 

- Manage Growth and Protect the Environment
- Create Livable Communities
- Build the Economy
- Establish a Modern, Multimodal Transportation System

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### Energy and Climate at DVRPC --Throughout our work

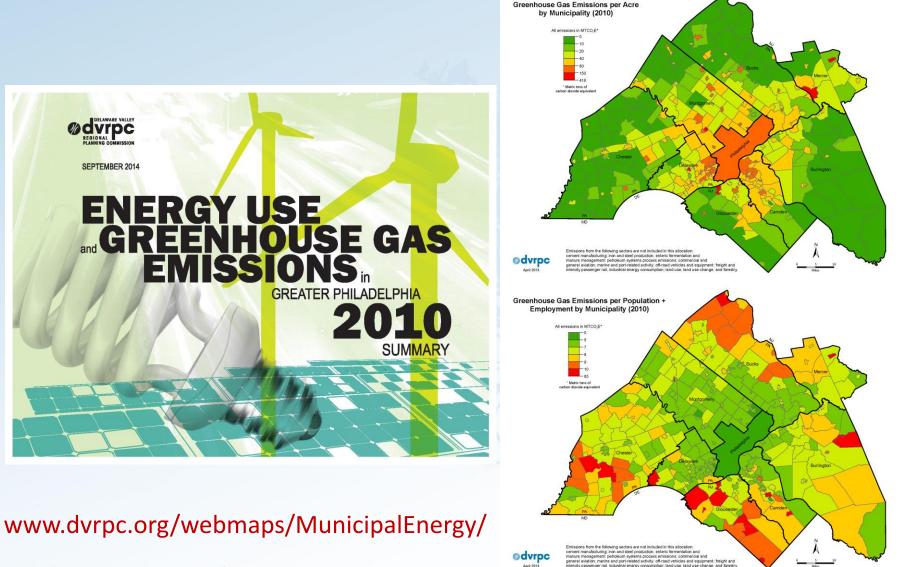
**Energy and Climate Change Initiatives Environmental Planning Smart Growth** Long Range Planning **Air Quality Congestion Management Commuter Services Transit, Bicycle, and Pedestrian** Planning



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#### **Energy Use and Greenhouse Gas Emissions Inventory**



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### Optimal Pathways for Regional Energy Transition

Advisory Committee: Project of the Kleinman Center for Energy Policy

Broad regional impacts of various pathways to reduce GHG emissions.

What is the appropriate role of regions in addressing global problems?

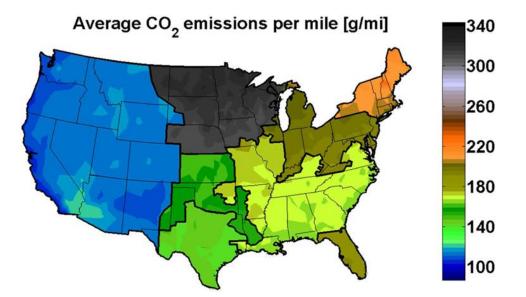
Is "80 by 50" feasible and desirable? Using DVRPC regional data DVRPC will publish results

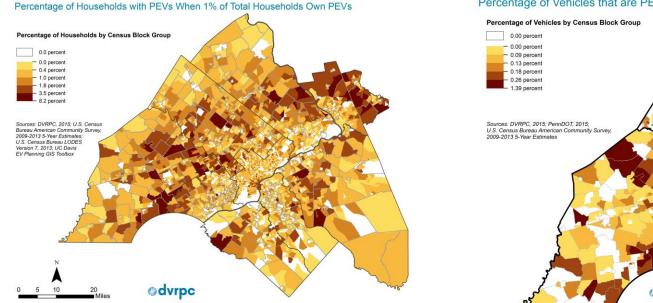


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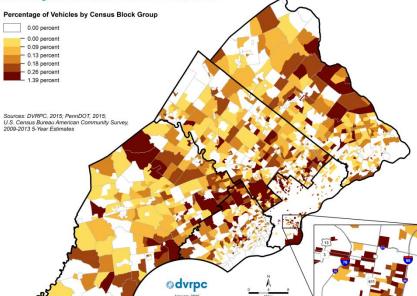
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#### **Electric Vehicle Greenhouse Gas Emissions Tool**

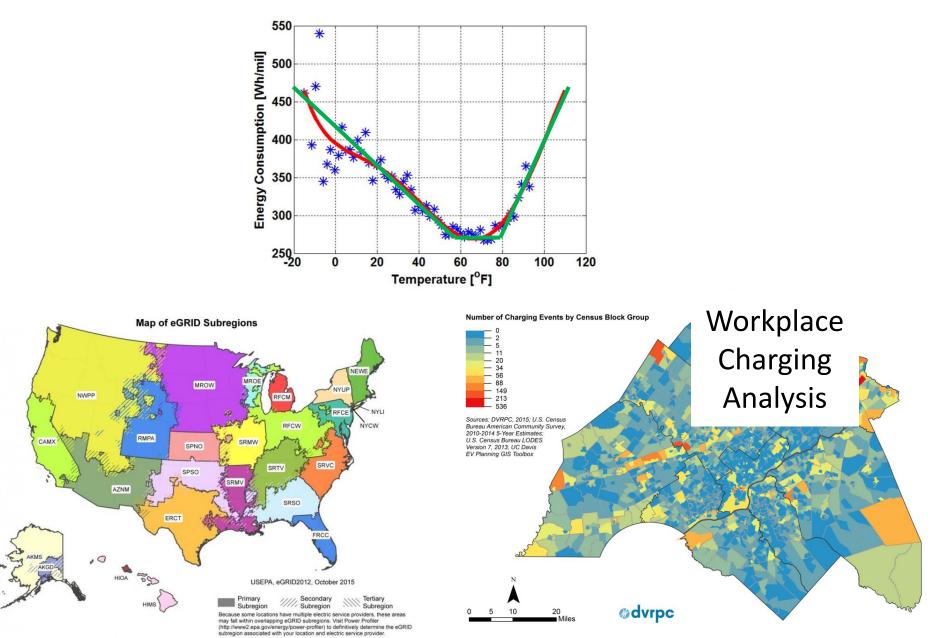




#### Percentage of Vehicles that are PEVs, 2015



### **Electric Vehicle Greenhouse Gas Emissions Tool**



### **Climate Change Adaptation Community of Practice**

Half-day solutions-focused workshops, two to four times per year.

Convene professionals engaged in preparing for climate change.

Professionals present on activities addressing a particular climate change adaptation issue.



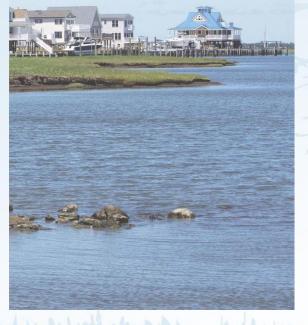
- October 2016—Forests, Urban Trees, and Climate Change
- February 2017—Public Health and Climate Change

Future topics:

- Waterfront Development in a Changing Climate
- **Green Stormwater Infrastructure**
- Urban Heat Island Solutions, Microgrids, Landscaping with Climate Chage in Mind, and Assuring Transportation System

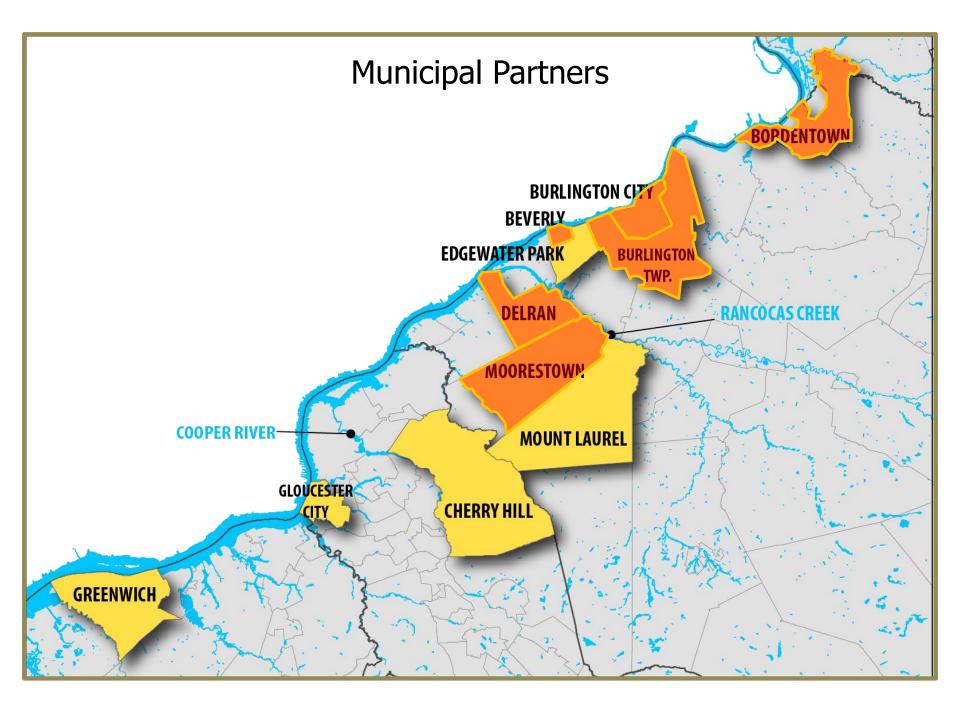
#### **New Jersey Resilient Coastal Communities Initiative**

RESILIENCY PLANNING and the NJ COASTAL MANAGEMENT PROGRAM

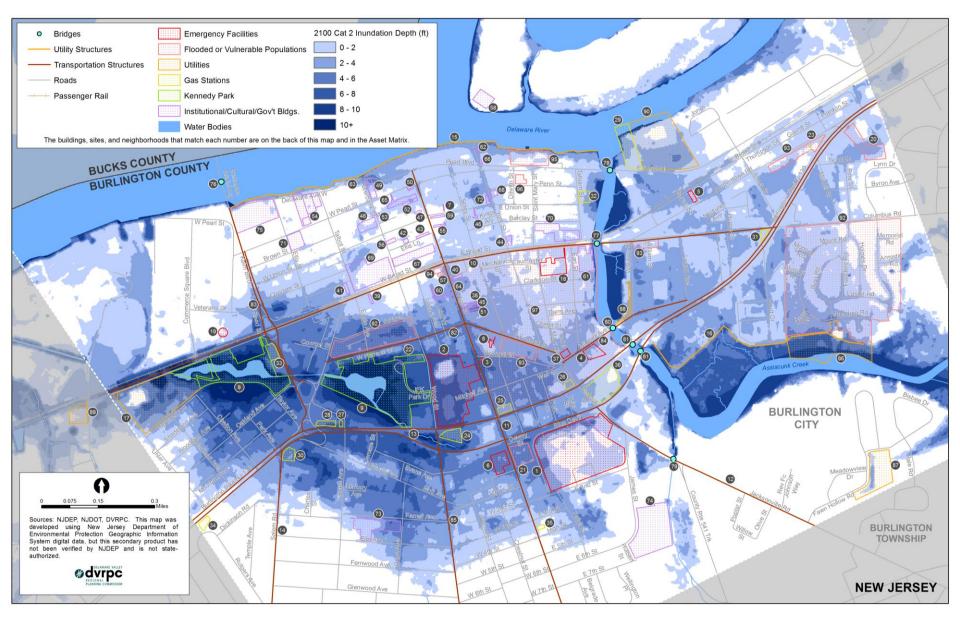




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#### Burlington City: Highly Vulnerable



## Integrating Hazard Mitigation Planning and Comprehensive Planning

FEMA Region III Funding
Met individually with each county
Workshop held at DVRPC
Follow on outreach to municipalities forthcoming, based on CCACOP and RCCI work

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# **Other Activities**



#### pennsylvania Dematriation interferences

#### PENNDOT EXTREME WEATHER VULNERABILITY STUDY

#### **STUDY REPORT**

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Michael Baker

DRAFT VERSION - JANUARY 2017

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Robert Graff, Manager Office of Energy and Climate Change Initiatives rgraff@dvrpc.org 215.238.2826

www.dvrpc.org/EnergyClimate