



#### **Joan Rohlfs**

# Metropolitan Washington Council of Governments ("COG")



Metropolitan Washington

Region Forward is our vision. It's a commitment by COG and its 21 member governments, who together seek to create a more accessible, sustainable, prosperous, and livable National Capital Region.

# **Kick Start from Stimulus-funding**

#### ChargePoint America Program , 2009

- Coulomb Technologies \$30 mill from DOE ARRA
- Partners GM, Ford, and SMART
- 5,000 Level II chargers at no cost to 9 metropolitan areas
- Washington Region: DC, Prince George's Co,
- Frederick, Montgomery County; in VA: Alexandria, Manassas and Vienna

#### The EV Project, 2009

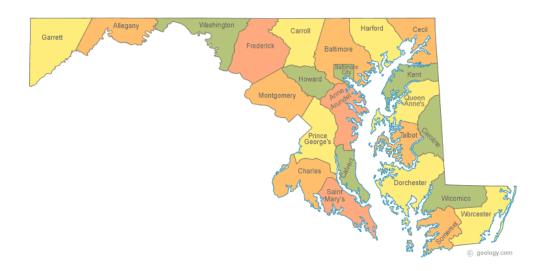
- ECOtality North America –DOE award
- Initially \$99.8 mill; additional \$15 mill
- Partners Nissan and GM
- Install 14,000 Level II charges in 18 cities and the District
- No cost residential charger to qualifying participants of the program
- Majority of installation paid for by project





## Maryland EV Grants, 2010

- MD Electric Vehicle Infrastructure Program (EVIP)
  - ARRA stimulus funds, \$1,000,000 awarded to MEA
  - <u>Electric Re-Charging Infrastructure (ECI)</u>: 65 charging station awards
    - Baltimore Electric Vehicle Initiative (BEVI), Montgomery County, Prince Georges' County, Frederick
  - <u>Truck Stop Electrification (TSE)</u> grants for the installation of Truck Stop Electrification units at facilities throughout the State, I-95 Corridor



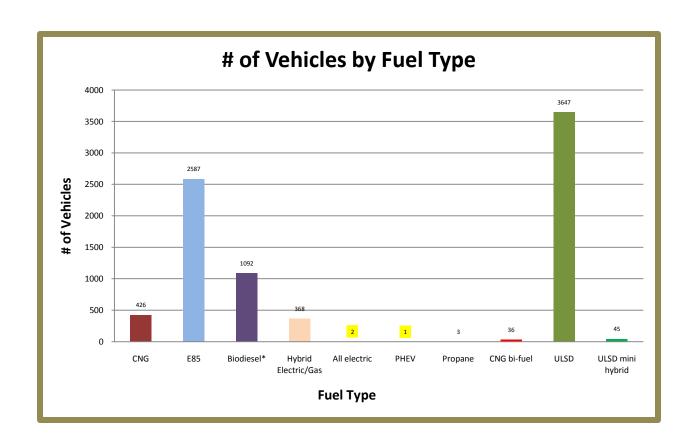


# EV Planning in Washington, DC-MD-VA Region

- Local government interest in EV
  - EVSE and OEMs introducing EV's to region
  - Stimulus grants: Chargepoint America, Ecotality
  - Questions about permitting, infrastructure, location of charging stations
  - Request for Regional Coordination

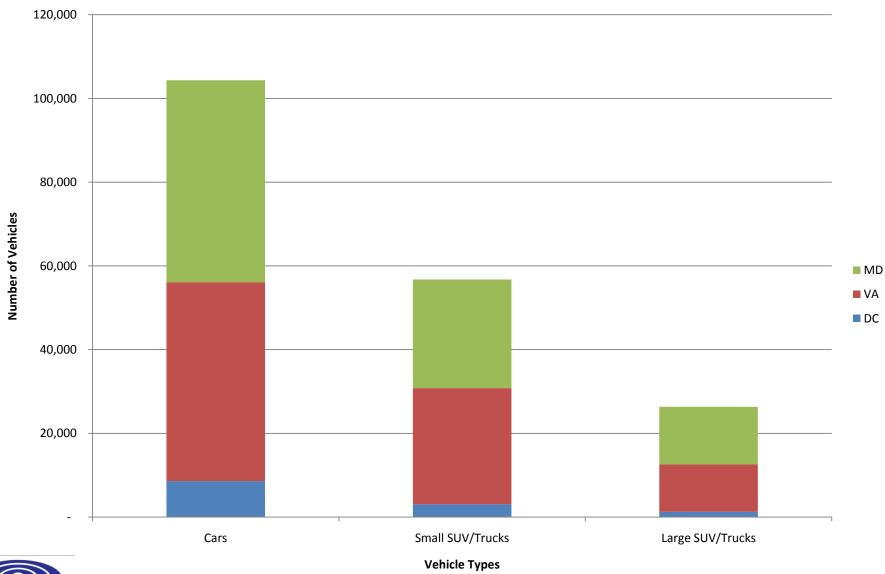


## Fleet Survey Results, Jan.2011



FUELS: CNG: Compressed Natural Gas, E85: Ethanol, Biofuels, Hybrid electric, All-electric, PHEV: Plug-in hybrid Electric Vehicle, Propane, ULSD: Ultra low sulfur diesel

#### **Potential Vehicle Annual Turnover**





# **EV Workshop April 29, 2011**

## Purpose

- To examine successful local and regional EV readiness strategies
- To begin the conversation on a regional level on how to effectively and collectively transition to EV transportation technology

## Content and Participants

- Role of area utilities
- National and regional perspectives by DOE and industry experts
- Vehicle showcase of EV technology

## **Expected Outcome**

A draft framework to establish a regional EV readiness network









# Why We Need a Regional Network and Strategy

- Coordinated approach will smooth way for EV deployment & adoption
- Success of effort benefits the entire region
- Manage impact on the transmission grid as EV adoption grows



## **NYSERDA Proposal**

- Northeast Regional EV Network Planning
  - In response to Clean Cities Solicitation
- Partners
  - TCI
  - Northeast & Mid Atlantic Clean Cities
  - Georgetown Climate Center
  - NASEO
- Deliverables
  - Establish stakeholder advisory group
  - Literature review of market barriers, electric grid impacts and existing plans
  - Data analysis of locations
  - Guidance and training documents for local building and , electrical code officials
  - List of recommended training courses for EV installers, permitters and inspectors



# EV Planning, Washington Region

- COG and GWRCC partners in EV Planning
- Washington Regional EV Coalition
- EV Planning Workgroups formed, 9/27/11
  - Planning & Policy (permits, zoning, building codes, rates)
  - Infrastructure Planning (demand, location of charging stations, private/public investment)
- Membership:
  - Local govts, utilities, EVSE manufacturers, Wal-mart,
    Zip Car, etc.

# EV Planning Workgroup Participants



#### **Participants**

- Local government transportation and energy planners
- EVSE manufacturers
- Georgetown Climate Center
- Electric Drive Transportation
  Association
- Electric Vehicle Association of Greater Washington DC
- Kick-off Meeting: Sept. 27<sup>th</sup>
- Next Meeting: Oct. 18<sup>th</sup>

## **COG In-house Data**

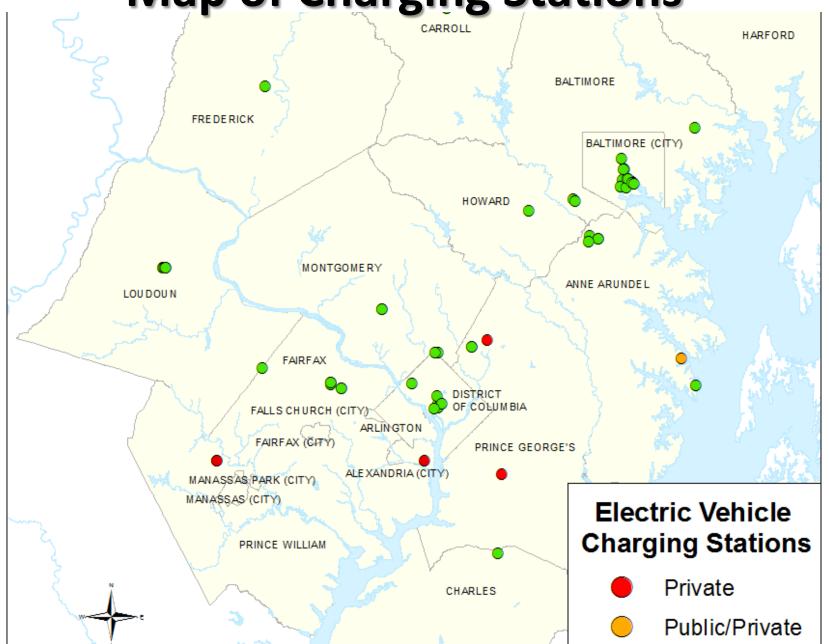
- Travel Demand Model
- Household Survey
  - Both used to depict intensity of vehicle usage patterns
- Potential Vehicle
  Turnover Rate
  - Provides potential # of replacements by vehicle classification







**Map of Charging Stations** 



### **COG EV Planning Team**

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