



California Energy Commission

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TN 73578

AUG 06 2014

ZEVs in Other States – Status Update

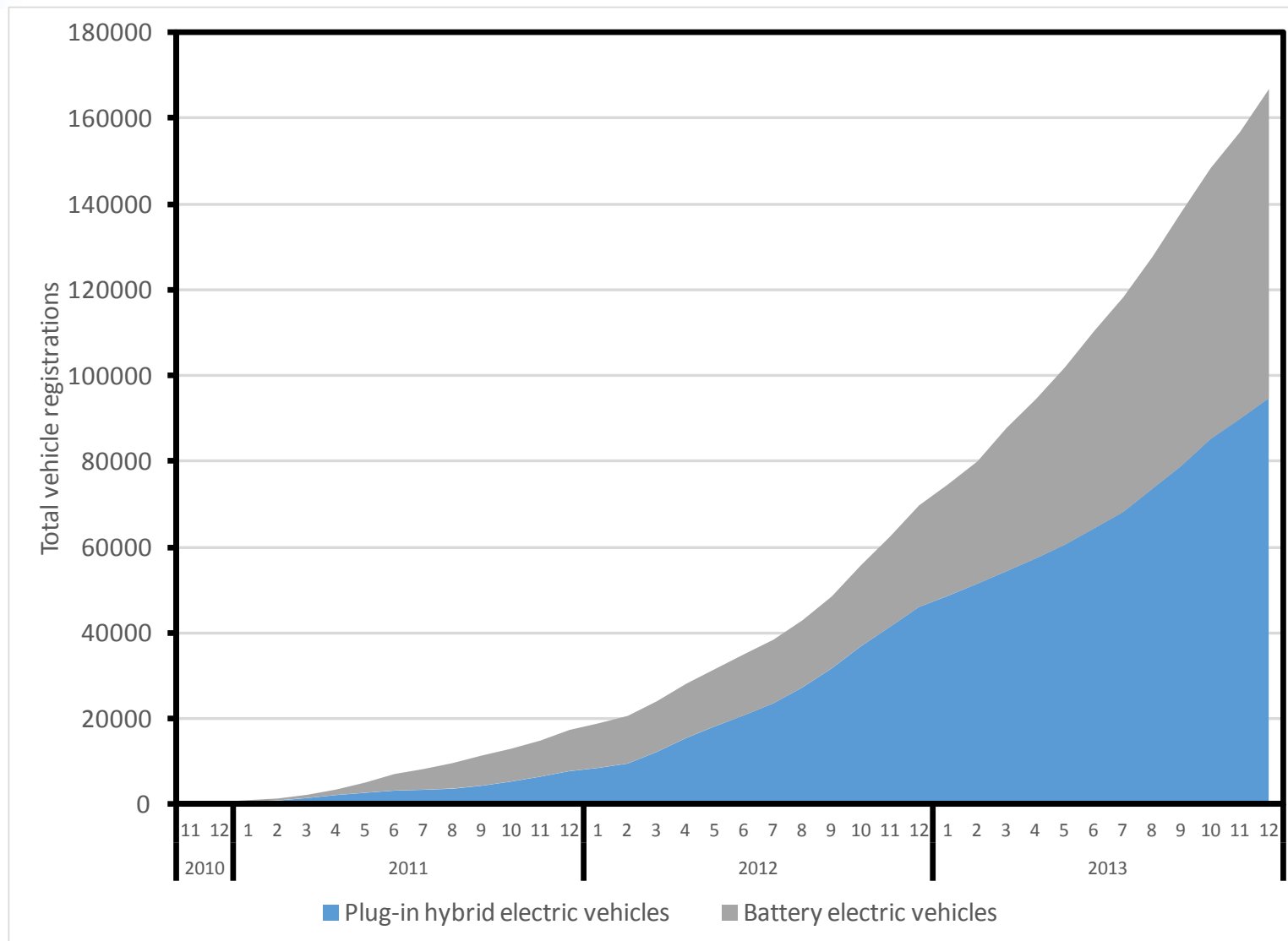
Mark Duvall

Director, Energy Utilization

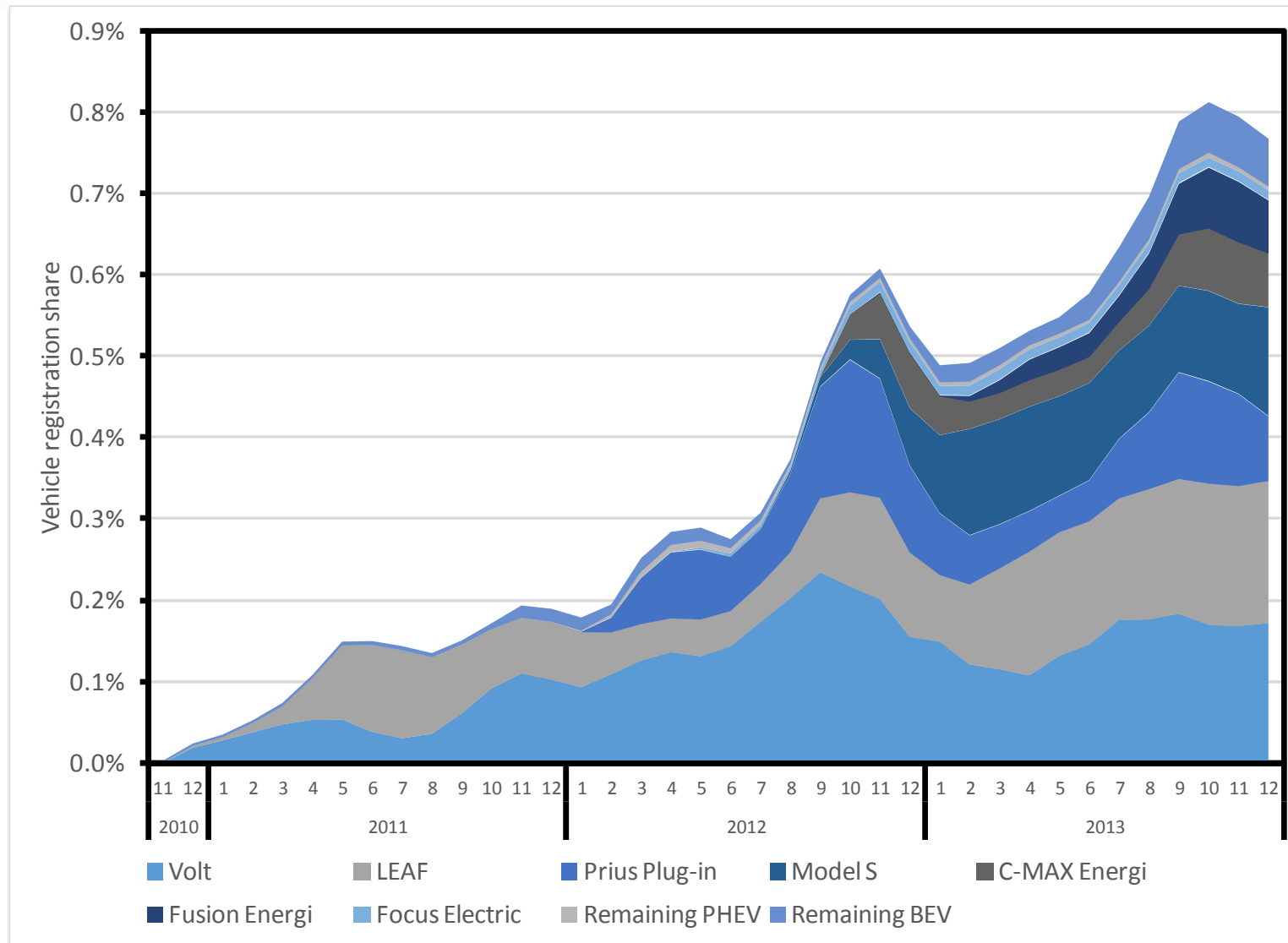
Governor's ZEV Summit

March 6th, 2014

Status of PEV Market – National

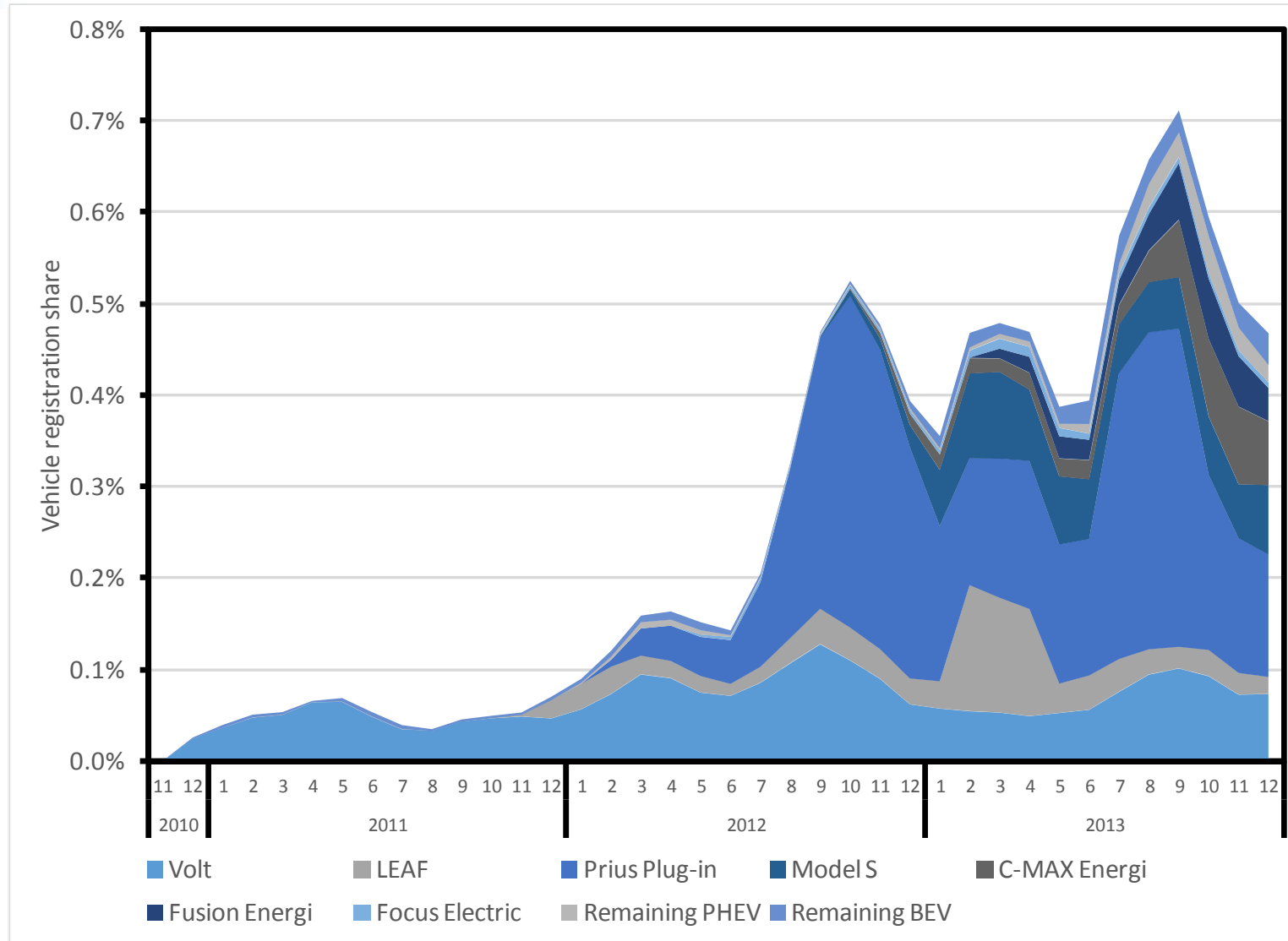


Status of PEV Market – National PEVs Share of New Vehicle Sales



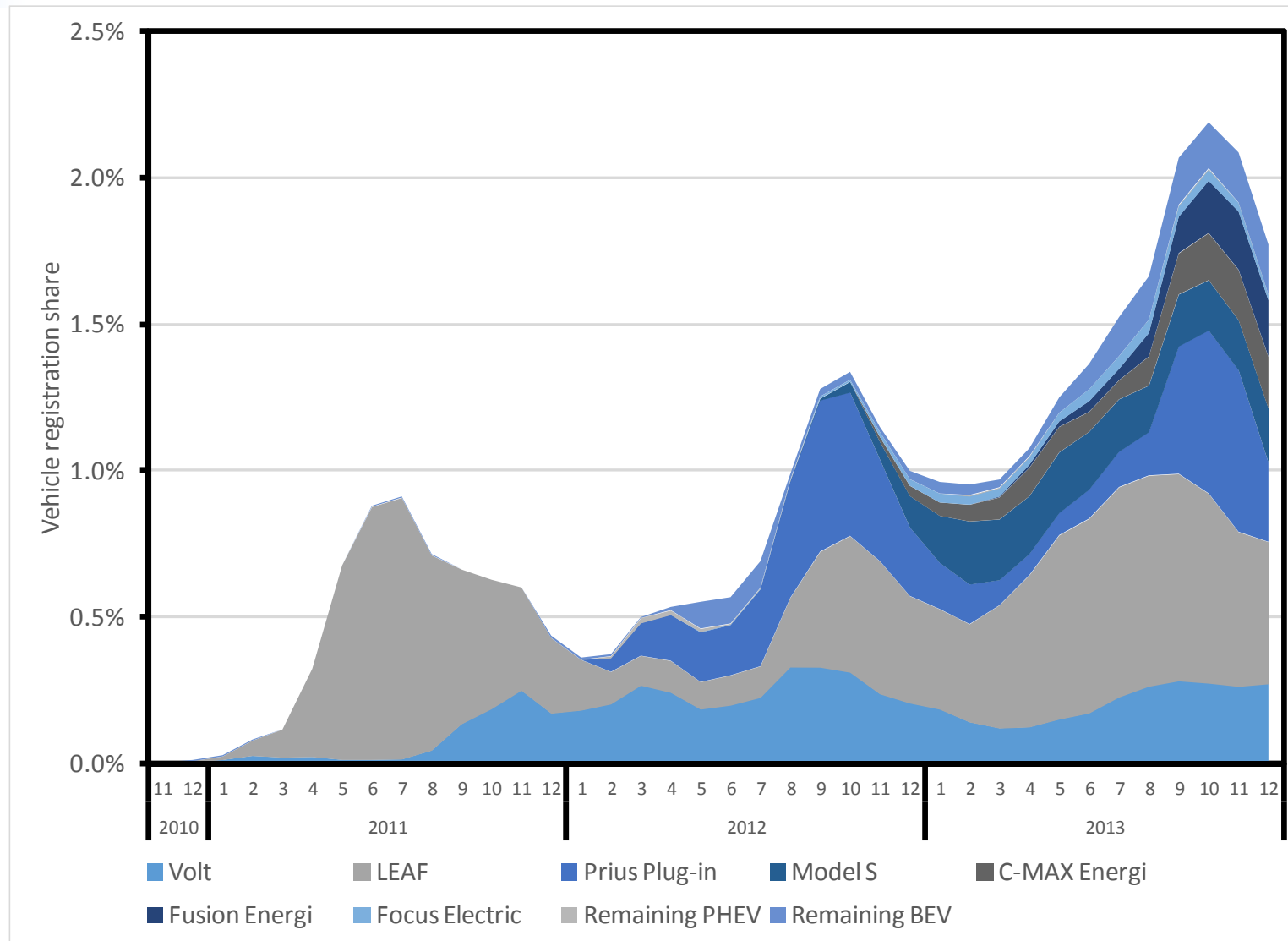
Status of PEV Market – New York

PEVs Share of New Vehicle Sales



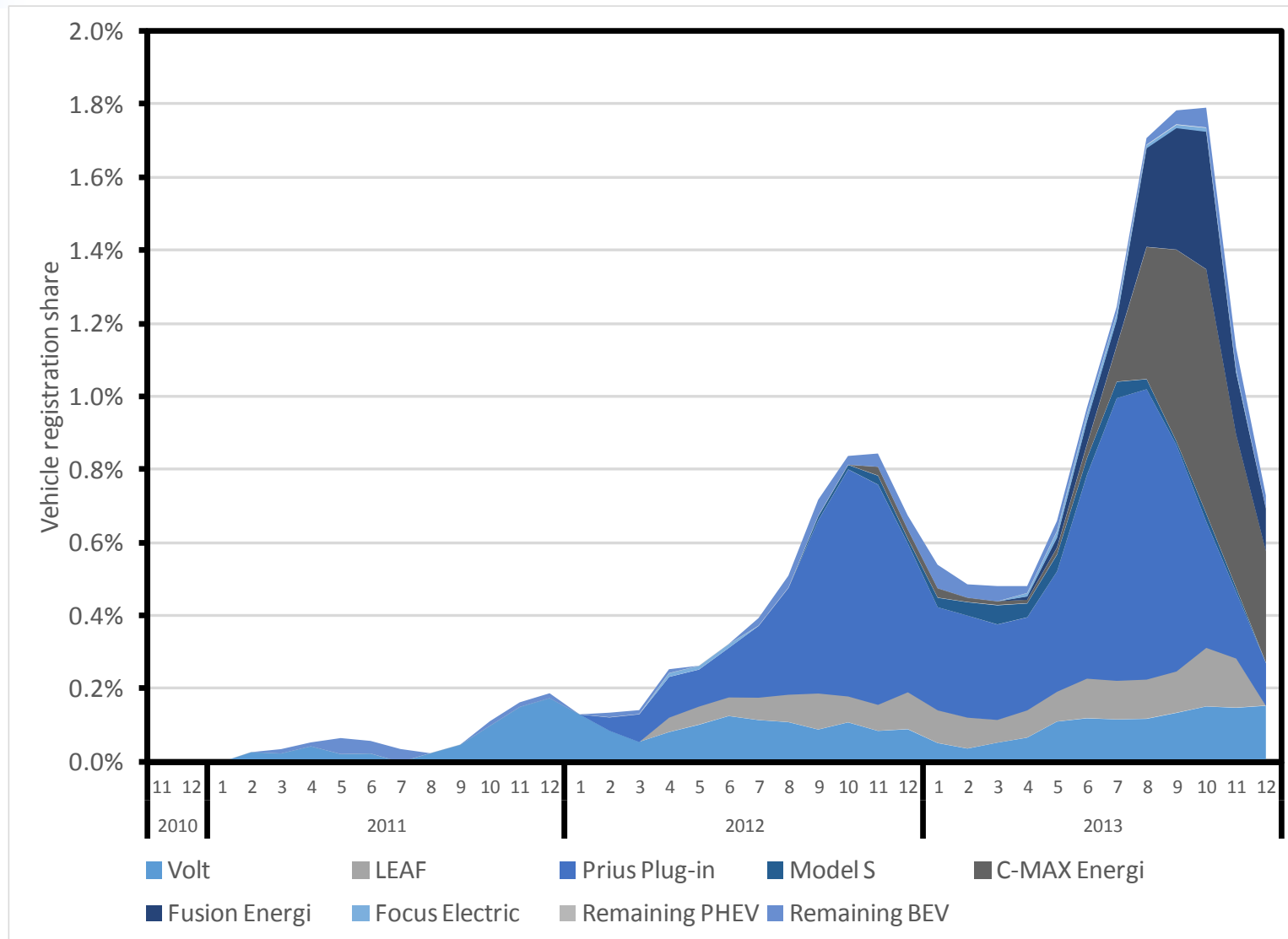
Status of PEV Market – Oregon

PEVs Share of New Vehicle Sales



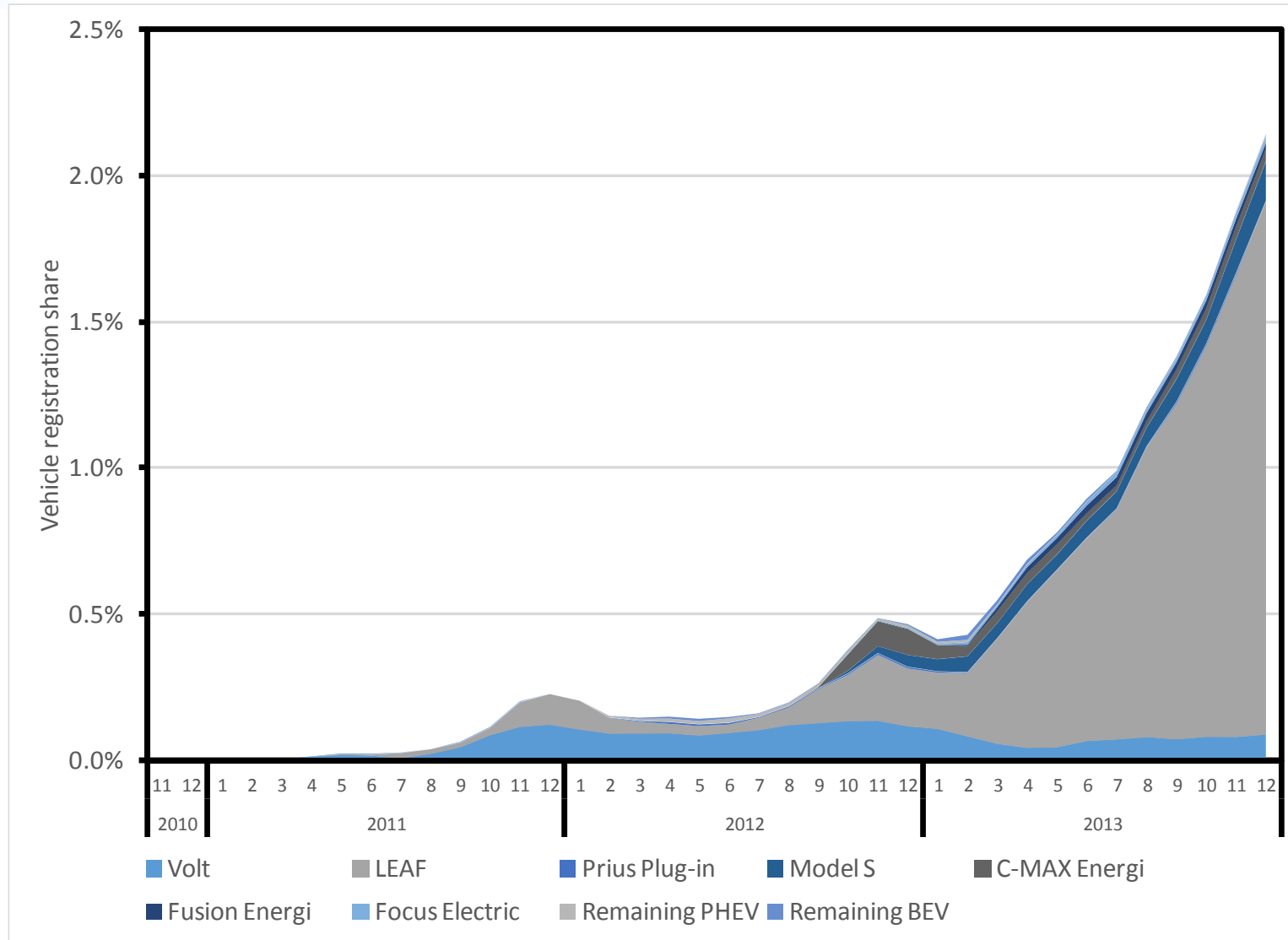
Status of PEV Market – Vermont

PEVs Share of New Vehicle Sales



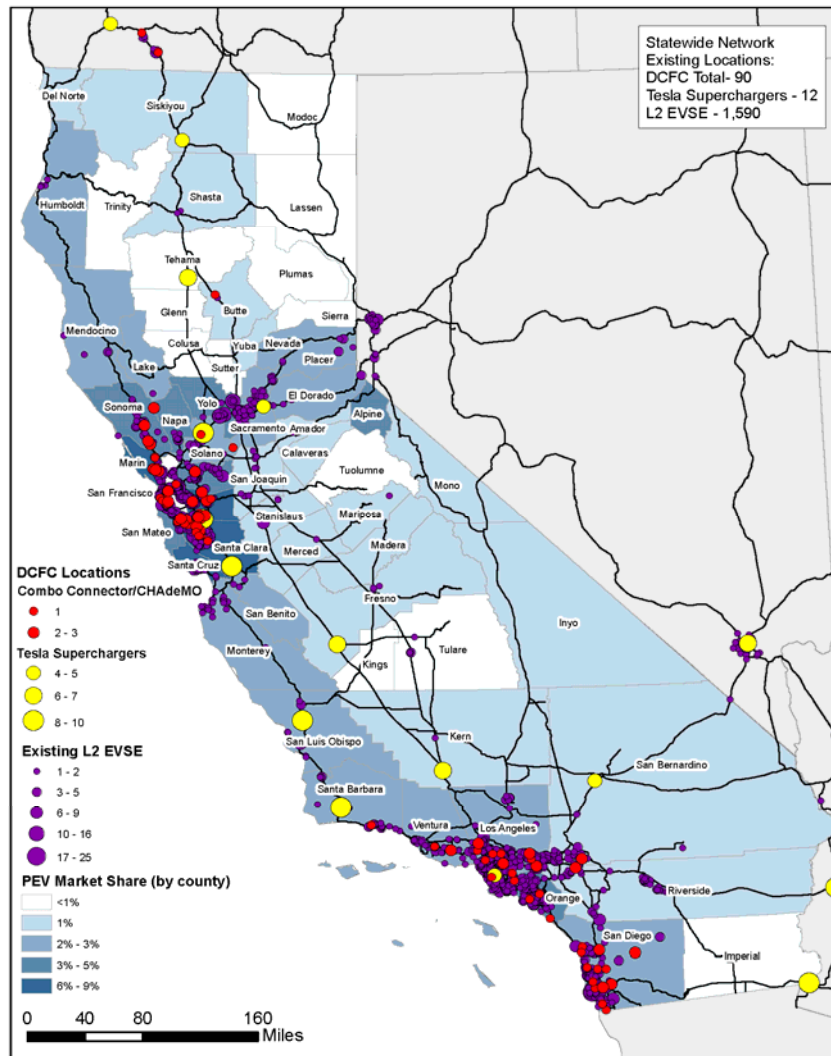
Status of PEV Market – Georgia

PEVs Share of New Vehicle Sales

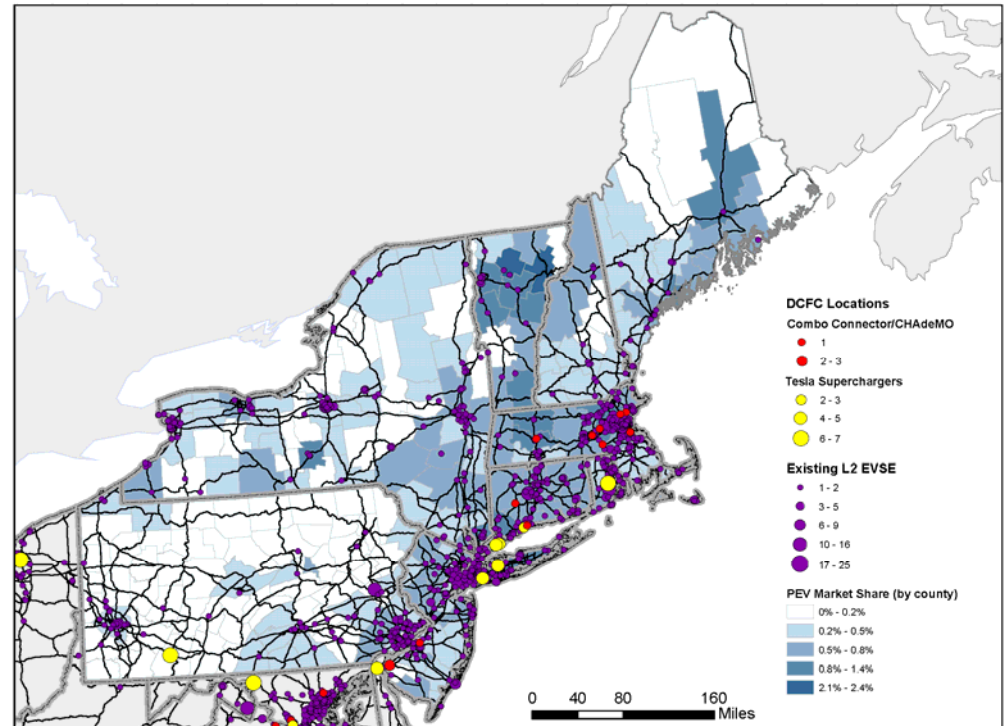


A Tale of Two Infrastructures

California - PEV Market Share (2013)

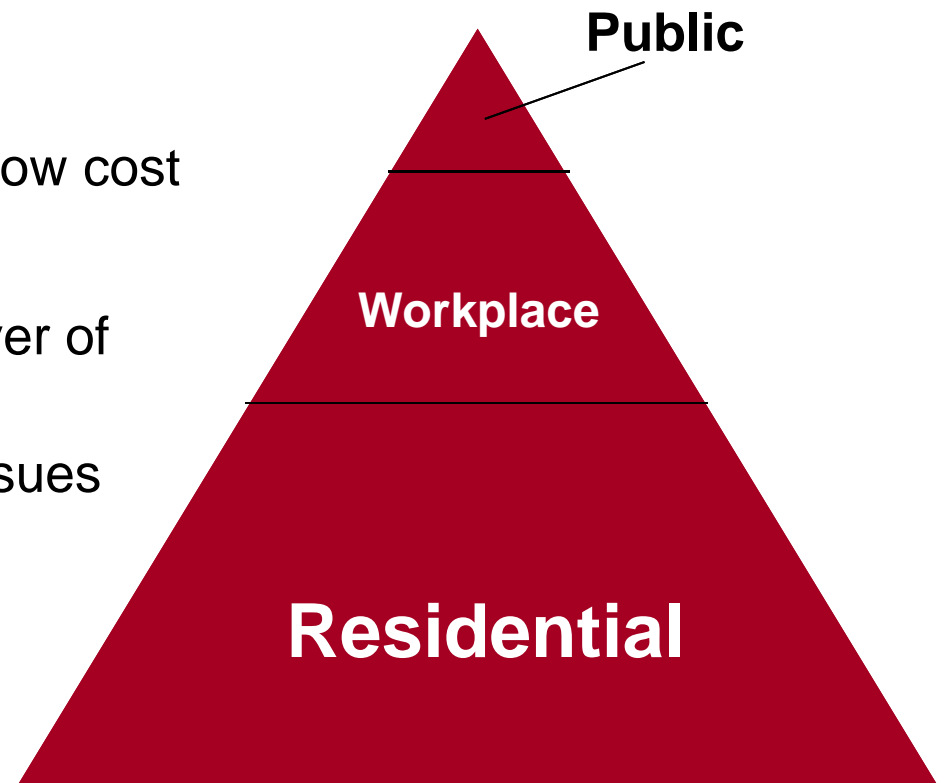


Northeast USA - PEV Market Share (2013)



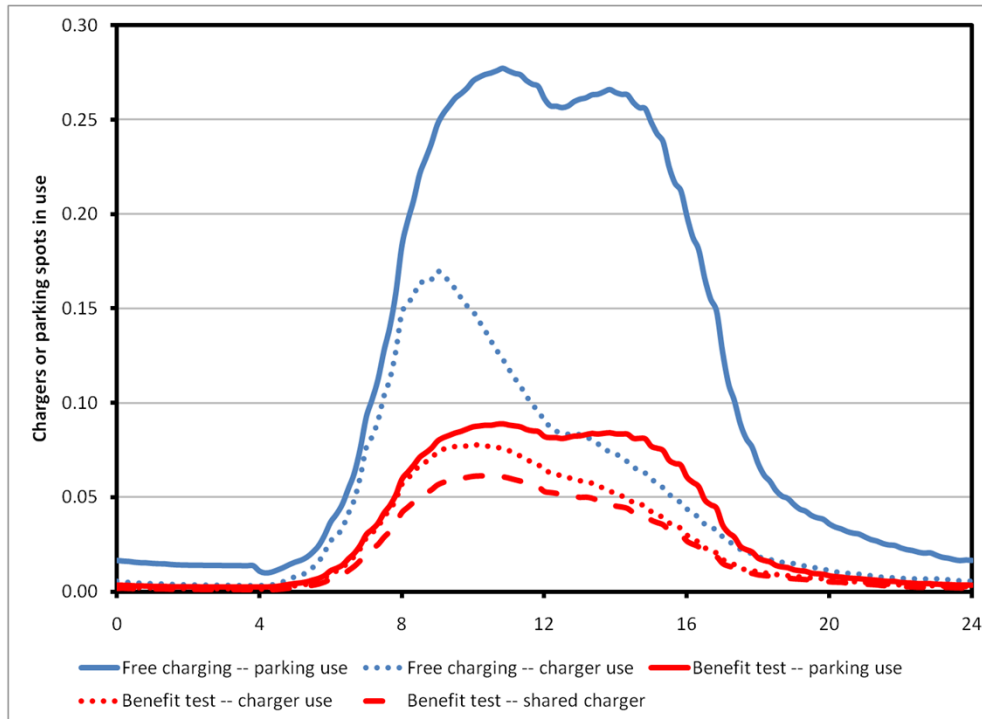
What Have We Learned to Date?

- Residential issues
 - Multi-unit and tenant dwellings
 - Relatively high initial costs
 - High adoption of Level 1 at very low cost
- Workplace
 - Potential has grown—see as driver of adoption
 - High installation costs, scaling issues
- Public Charging
 - Clustering – need to build out networks
 - Long-term sustainability of infrastructure
 - Underestimated difficulties of locating infrastructure



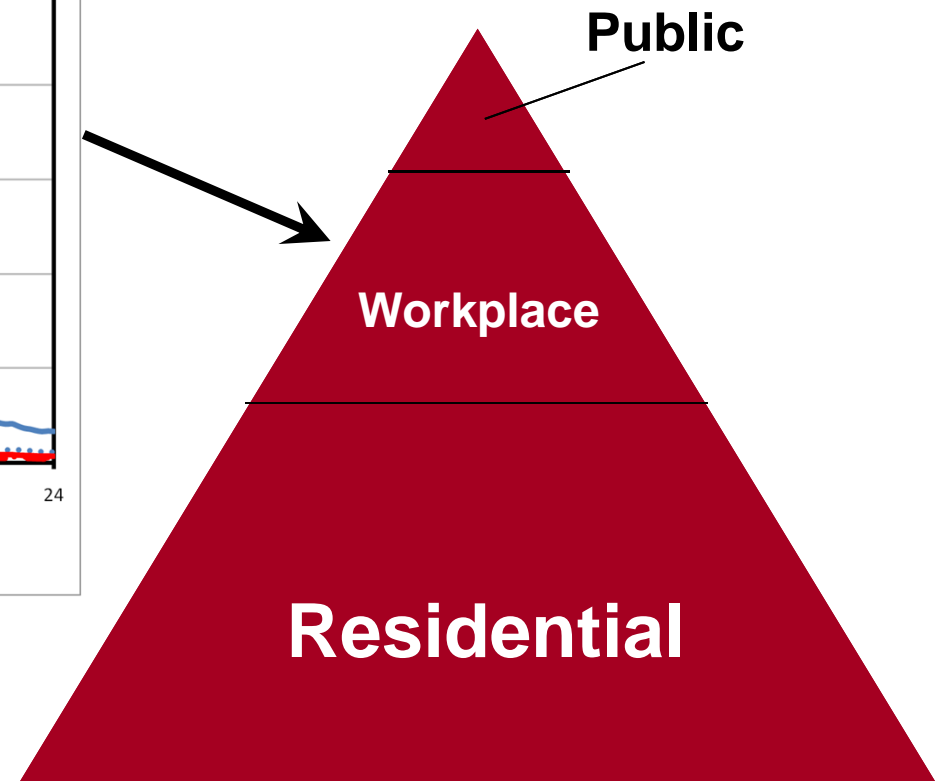
What Does Sufficient Infrastructure Look Like?

Quantity, Location, Technology



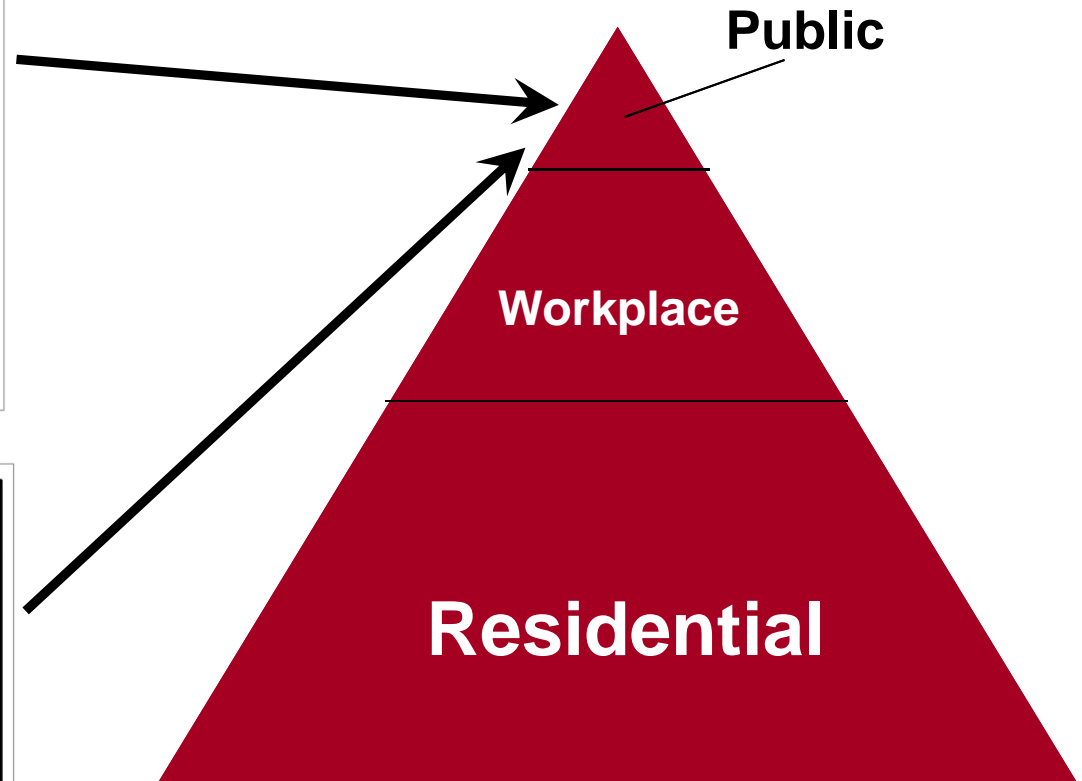
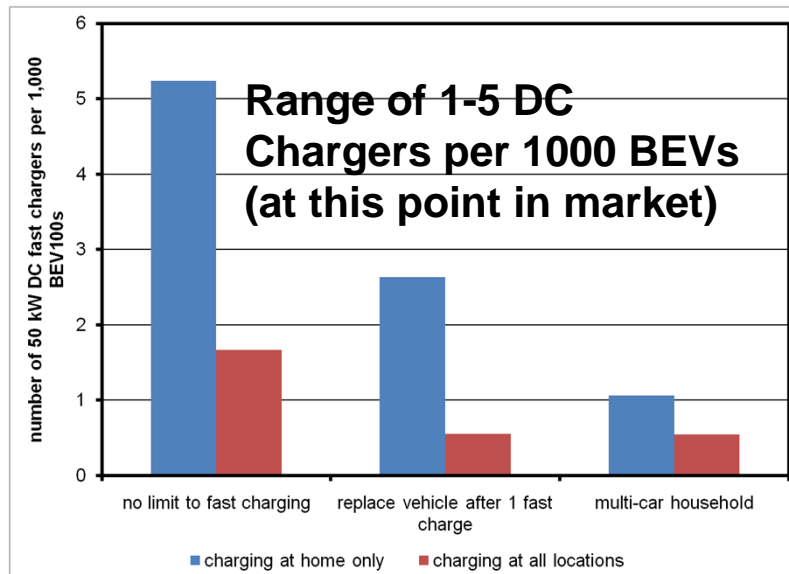
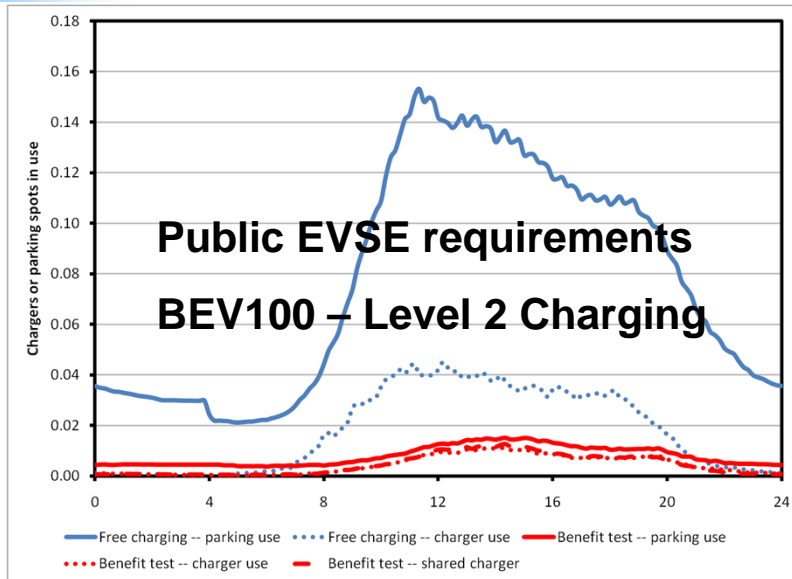
Local workplace EVSE requirements

PHEV40 – Level 1 Charging



What Does Sufficient Infrastructure Look Like?

Quantity, Location, Technology

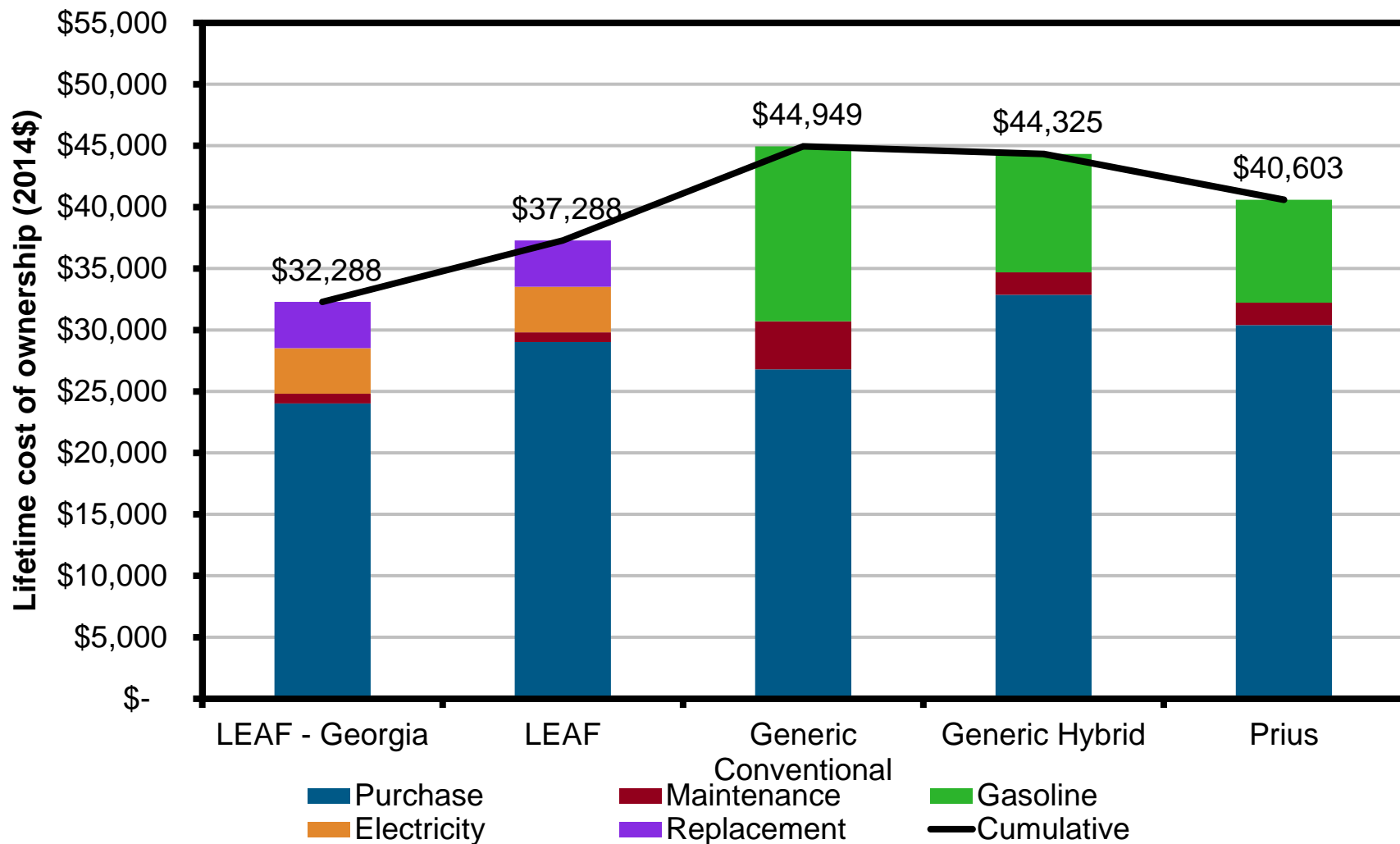


Assumptions

- 150,000 mile lifetime
- Incentives:
 - \$7,500 Federal Tax Incentive
 - \$5,000 State of Georgia
- Replacement Fuel Economy – 24 MPG
- National Rolling Average for Gasoline & Electricity
 - \$3.62/gallon
 - \$0.12/kWh
- Comparison vehicles were matched based on feature-package and dimensions
 - Generic Hybrid: Prius, Camry, Fusion Hybrid, Civic Hybrid
 - Generic Conventional: Honda Civic, Cruze, Focus, Volkswagen
- Prius is a III/IV

An Example of BEV Total Cost of Ownership

2013 Nissan Leaf



Status of PEV Market – Georgia

PEVs Share of New Vehicle Sales

