

**Western Governors' Association**  
**Electric Group Break out Session**  
**October 11, 2007 / Warwick Hotel**  
**Denver, CO**

**PARTICIPANTS:**

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**ADDITIONAL RECOMMENDATIONS:**

- Where opportunities for expanding new or existing facilities such as rest or safety stops and state facilities, encourage DOT's to establish electric and alternate fuel fueling infrastructure.
- Support local government, such as Metro Planning Organizations, investment in alternate fuel vehicle demonstrations and installation of public infrastructure, such as public lots with electricity access and other renewable-source re-fueling projects.

**CROSS CUTTING RECOMMENDATION:**

- Establish alternate fuel access on transportation corridors in the Western States.
- WGA states develop lessons learned and technical database from early entry data from 2008 thru 2015. Make this data available to policy makers and consumers.
- WGA states develop a common metric to measure, validate and report annually the electrical vehicle miles traveled, energy consumed and emissions reduced.

**IMPLEMENTATION ADVICE:**

**Detailed implementation advice:** (#'s refer to policy recs as circulated by working group)

**Common Metric:** Advise the governors to work with PUC's, transportation agencies and utilities to determine how to ascertain the data collection metric.

**Education** (15, 22): Governors work with the secretaries of education (or other appropriate agencies) to explain the value proposition for electric vehicle acquisition to consumers and fleet operators.

**Fleet purchase** (2,3, 18): Governors mandate that all new vehicles funded with state or federal resources be alt fuel compliant including EV when available. Coordinate regional purchasing including feds. EO 13-423 is an example for federal fleets.

**R&D** (1, 16, 20): Governors work with federal representatives to ensure sustained research funding focus on advance battery and electric drive technology. Governors to establish a state R&D initiative with similar focus with their internal resources that leverage, enhance and not duplicate federal activities.

**Utility-PUC Coordination/Market Penetration:** Coordinate region-wide working group to execute off peak pricing structure that drives market interest in electric drive vehicles. The group should include utility executives and PUC's. Their charge is to maximize the penetration of EV starting in 2010 by providing incentives for nighttime charging and smooth integration to grid. This is critical due to vehicle industry commitment of providing EV vehicles by 2010

**Incentives:** Each state should consider the appropriate array of incentives to enhance market penetration for on and off road vehicles utilizing electricity as a fuel.

#### **BUDGET IMPLICATIONS:**

- Education: \$50-100K per year per state for 5 years.
- Fleet purchases: Assuming 5000 plug in electric vehicle being available.  
It is suggested that WGA states would need to purchase at least 2000 vehicles to help prime the pump.  
    \$40K per vehicle in the 3-5 class (pickup to urban delivery trucks).  
    \$10K per light duty vehicle.
- Data Collection:  
    \$250K for planning of how to implement the metric.  
    Annual cost to collect data is estimated to be 5M per year across the 19 WGA states.
- R&D  
    \$200M per year for 5 years in the federal budget and states should consider a 20% match.

#### **SUGGESTIONS FOR DEMONSTRATION PROJECTS:**

A plug in hybrid electric vehicle demonstration study to acquire 100 vehicles, pool resources and track usage in no more than 5 geographical areas addressing the unique attributes of the WGA states spanning at least 1 year. This will include a consumer preferences study to expand and eliminate barriers, grid interaction and charge profiles. (\$3M per demonstration)

Advanced infrastructure demonstration project addressing smart grid/smart vehicle infrastructure needs in one area including ITS. (5M)

**TECHNICAL MILESTONES:**

Team is multi fuel (Plug in hybrid vehicles is multi-fuel by definition (electricity and any other available alternate fuel), Battery electric and non-road electric vehicles utilize all alternate and renewable fuels for electricity generation.