Electric Vehicle Charging
Infrastructure Grants

Board of Directors
Santa Barbara County
Air Pollution Control District

Molly Pearson
Planning & Grants Supervisor
August 20, 2015
Overview

- California’s Electric Vehicle (EV) efforts
- Status of EV Charging Infrastructure in SB County
- Existing District grant program
- Proposed changes and additional funding
Electric Vehicles in California

- Zero Emission Vehicle (ZEV) Mandate and goals
- California Energy Commission grants for EV readiness planning and charging infrastructure
- California Vehicle Rebate Program
  - Additional funding to disadvantaged communities
  - Federal tax rebates are also available
- Approximately 150,000 EVs on the road in California today
EV Infrastructure in Santa Barbara County

- **Level 1 – 120 V AC**
  - readily available at homes and offices
  - trickle charge; many hours for a full charge

*Source: plugshare.com*
**EV Infrastructure in Santa Barbara County**

- **Level 2 – 240 V AC**
  - Full charge can take 6 to 8 hours
  - Available at workplaces, government buildings, residences
  - More being installed under Energy Commission grant

Source: plugshare.com
EV Infrastructure in Santa Barbara County

• **Level 3 - DC “fast charge”**
  – Close to full charge in 20 to 30 minutes
  – Two different charging “standards” used by vehicle manufacturers
  – One way to address vehicle range concerns

Source: plugshare.com
# Tri-Counties Electric Vehicle Data

<table>
<thead>
<tr>
<th>County</th>
<th>EV</th>
<th>PHEV</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Luis Obispo</td>
<td>454</td>
<td>228</td>
<td>682</td>
</tr>
<tr>
<td>Santa Barbara</td>
<td>667</td>
<td>390</td>
<td>1057</td>
</tr>
<tr>
<td>Ventura</td>
<td>1387</td>
<td>1561</td>
<td>2948</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>2508</td>
<td>2179</td>
<td>4687</td>
</tr>
</tbody>
</table>

PHEV = Plugin hybrid electric vehicle  
Source: Polk Automotive data, 2014
Current District Grant Program

• Approved by your board in 2011
• Initial spending authority of $100,000 (95% spent)
• Level 2 and Level 3 charging
• Max of $10,000 per charging station
• Equipment and/or installation costs
• Grants to several public entities, more are interested
Proposed Changes to District Program

• Increase the spending authority from $100,000 to $300,000 ($200,000 increase, pending budget approval)
• Increase the funding amount for Level 3 DC fast charging
• Make funding available to private entities as long as stations are publicly accessible
• Two standard grant agreements:
  – Private entities
  – Public entities
Targeted Outreach

• Expand network in northern SB County
• Continue to pursue grants with groups that have expressed interest
• Private entities can play a role
  – Hospitals
  – Shopping centers
  – Employment centers
Questions?