Compendium of Existing and Proposed Near-Term Air Quality
Task 2: Compendium Update

- “Compendium of Existing and Proposed Near-Term Air Quality Improvement Strategies for the 1-710 Corridor” created in 2006
- Intended as information baseline to inform I-710 EIR/EIS process
- Identified air quality measures in:
  - I-710 MCS Tier 2 Community Advisory Committee: Strategy Recommendations
  - Gateway Cities COG Clean Air Program
  - Gateway Cities COG Safety Action Initiative
  - Ports-ACTA Truck Trip Reduction Program
  - Port of Long Beach Green Port Policy
  - Port of Los Angeles Clean Air Program
  - NRDC and CCA Recommendations to Ports
  - CARB strategies
Task 2: Compendium Update

- Methodology
  - Review original compendium
  - Review regulations and other documents created over last 5 years
  - Interviews with Port of Long Beach and Port of Los Angeles staff

- For each of 154 measures
  - Brief status update
  - Identify as Implemented, Partially Implemented, or Not Implemented
  - Identify responsible agency and relevant regulation(s)
Task 2: Compendium Update

• Measures with significant emissions benefits adopted since 2006
  • ARB OGV At-Berth Auxiliary Engine Regulation (2007)
  • ARB OGV Main & Auxiliary Engine Low-Sulfur Fuel Regulation (2008)
  • ARB On-Road Heavy-Duty Diesel Vehicles In-Use Regulation (“Truck and Bus Rule”) (2008)
  • ARB Drayage Truck Regulation (2009)
  • U.S. EPA Locomotive and Marine Engine Standards (2008)
  • IMO North American Emissions Control Area (2010)
  • SPB Ports Clean Air Action Plan and Clean Truck Program (2006 and 2010)
Task 2: Compendium Update

Summary of Findings

<table>
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<tr>
<th>Sector (Emissions Source)</th>
<th>Implemented</th>
<th>Partially Implemented</th>
<th>Not Implemented</th>
<th>Total</th>
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<td>Trucks</td>
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<td>Rail</td>
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<td>5</td>
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<td>Ocean Going Vessels</td>
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<td>Cargo Handling Equipment</td>
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<tr>
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<td><strong>31</strong></td>
<td><strong>17</strong></td>
<td><strong>154</strong></td>
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</table>
Task 2: Compendium Update

• Examples of measures Partially Implemented
  • Identify the level of air quality impacts from increasing trucking, rail and shipping
  • Require all rubber-tired gantry cranes to be electrified
  • Require all ships to shut down all diesel engines and use shore electric power
  • Develop new near-dock rail yard
  • Implement on-road heavy duty truck alternative fuels program
  • Repower or replace all switching locomotives that do not meet EPA Tier 0 Standards with electric-hybrid or alternative-fuel engines
Task 2: Compendium Update

- Examples of measures **Not Implemented**
  - Require all trucks using the truck lanes on the I-710 to use alt fuels or other pollution controls.
  - Electronic screening of commercial vehicles
  - Virtual container yard
  - Alameda Corridor electrification
  - Shuttle trains
  - Graduated harbor fee system for ships
  - Biofuels for harbor craft
  - Install LNG terminal within the port