Southern California Green Airport Fleets Partnership Workshop and Expo

San Diego County Regional Airport Authority

May 21, 2015
Commitment to Clean Air & Emission Reductions

Sustainability Policy
(Feb 2008)

GHG MOU with CA Attorney General (May 2008)

ACI-NA Environmental Goals
(Feb 2009)
Commitment to Clean Air & Emission Reductions

- Air Quality Management Plan
- Electric Vehicle Chargers
- Alternative Fuel Vehicles
Funding Opportunities

Voluntary Airport Low Emissions Program (VALE)
- FAA grant funding for GSE charging infrastructure

Carl Moyer Grant Program
- CARB grant funds for conversion to electric or clean fuel vehicles

Hybrid Voucher Incentive Program (HVIP)
- CA state HVIP vouchers (up to $40K) for eligible new hybrid trucks

CA Energy Commission AFV Funding Program
- Buy-down incentives for natural gas and propane vehicles
SDIA GSE Numbers

2014 vs 2013
## 2014 GSE Inventory Results

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Loader</td>
<td>77</td>
<td>7</td>
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<tr>
<td>Cargo Belt Tug</td>
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<tr>
<td>Baggage Tug</td>
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<td>10</td>
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<tr>
<td>Air Start</td>
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<td>35</td>
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<tr>
<td>APU/GPU</td>
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<td>20</td>
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<tr>
<td>Cabin Service</td>
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<td>Catering Truck</td>
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<td>Deicer</td>
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<td>Forklift</td>
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<td>Fuel Truck</td>
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<td>LAV Truck</td>
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<tr>
<td>Lift</td>
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<td>Pickup</td>
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<tr>
<td>Push Back Tug</td>
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<td>Sweeper</td>
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<td>Carts</td>
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</tbody>
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### Total

- **2013 GSE Inventory Results (Total = 526)**
- **2014 GSE Inventory Results (Total = 540)**
Prominent GSE by Fuel Type

- Gasoline
  - Push Back Tug: 3
  - Lift: 23
  - Diesel: 39
  - APU/GPU: 12
  - Belt Loader: 12
  - Baggage Tug: 24
  - Propane: 3

- Diesel
  - Push Back Tug: 22
  - Lift: 43
  - APU/GPU: 35
  - Belt Loader: 22
  - Baggage Tug: 38
  - Propane: 9

- Electric
  - Push Back Tug: 9
  - Lift: 59
  - Belt Loader: 38
  - Baggage Tug: 59

- Propane
  - Push Back Tug: 3
  - Lift: 0
  - APU/GPU: 0
  - Belt Loader: 3
  - Baggage Tug: 0
GSE Fuel Types

2014 Results
- Gasoline: 47%
- Diesel: 27%
- Electric: 23%
- Propane: 3%

2013 Results
- Gasoline: 46%
- Diesel: 31%
- Electric: 18%
- Propane: 5%

26% MEET Low – Carbon Fuel
GSE Vehicle Fleet 2014
Belt Loaders
Push Back Tugs
Lifts
Vans & Trucks

Electric  CNG  LNG  Biodiesel  Hybrids
Electric Bag Tugs
Electric GSE
GSE Charging Stations

Terminal 1 & Terminal 2 – 44 Units
Commuter Terminal – 23 Outlets
GSE Next Steps

1st Step

- Survey Other Airports
- Meet with Stakeholders

2nd Step

- Develop GSE Conversion Plan
- User Incentives

3rd Step

- Implement Plan & Track Progress

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Questions

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