

Wednesday • 10:00am - 11:00am

ROUNDTABLE: ELECTRIC VEHICLES: WHEN THEY MAKE SENSE AND HOW TO IMPLEMENT THEM

Facilitated by Kevin Devery, City of Tempe, AZ
and Mark Stevens, City of Sacramento, CA



WHERE PUBLIC FLEET
PROFESSIONALS CONNECT

New Orleans

City of
SACRAMENTO

Fleet Management



**WHERE PUBLIC FLEET
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New Orleans

Fleet Facts

- 2400 vehicles/equipment
- 75 FTE's
 - 11 Administrative Staff
 - 4 Shop Supervisors
 - 60 Shop Personnel
- 5 Maintenance Shops
 - 2 – daytime shift
 - 3 – daytime and evening shift
- 1 Build – “Upfit” shop
- Fuel Management
 - 44 above and below ground fuel tanks
 - 4 LNG Tanks
 - 3 propane tanks
 - Construction of 100 post CNG station
- Fiscal Year 2017/18 Actuals:
 - \$26.6 million Operating Budget
 - \$26.8 million Vehicle Replacement Budget



Electric Motorcycle



Hydrogen Fuel Cell



Renewable Diesel



Battery Electric Vehicle



CNG Powered

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NEC

Fleet Sustainability Policy

On 10/23/07, City Council adopted a comprehensive Fleet Sustainability Policy (3 revisions)

Emission Reductions

- Annual budget will include a minimum replacement of 50% for alternative fuel and/or alternatively powered vehicles by 2018 and 75% by 2025
- Expand alternative fuel and ZEV infrastructure to facilitate the increase of alternative fueled vehicles and ZEVs

ZEV Acquisitions

- A minimum commitment for annual light-duty purchases to be 50% ZEV by 2018 and 75% ZEV by 2020

Fuel Consumption

- Reduce fuel consumption by 5% annually (accounting for potential fleet growth)

Vehicle Operations

- Encourage reduced idling, trip reduction and route efficiency
- Reduce fleet size by removing under-utilized units

Cost Efficiency

- Actively seek grants and rebates for implementing alternative fuel, infrastructure and new technology

Monitoring and Reporting

- Enhance systems and implement new technology to reduce fossil fuel consumption and ‘right sizing’ the City Fleet

City of Sacramento EV Strategy Policy

- EV Strategy adopted by the City Council in December 2017
- Actions to promote zero-emission mobility will be initiated by 2020 and fully implemented by 2025
 - Car Sharing
 - Curbside Charging
- Primary Focus on Low-Income and Disadvantaged Communities
- As of October 2018 – programs included in the strategy will be open for application
- Early 2019 – Launch of new EV Car Share Program

Electrify America

Created by VW Group of America to Administer Efforts to Offset Emissions Scandal

City of Sacramento chosen as the First Green City to showcase ZEV technology



Gig Car Share

- Convenient. Pick-up and drop-off a ZEV almost anywhere
- Affordable. Electricity, insurance, and parking are included
- Equity. 260 ZEVs serving a 13 sq. mile HomeZone within Sacramento including 70% low income and disadvantaged communities²



Envoy Car Share

- Round trip ZEV car share
- Serving 71 multi-family properties within Sacramento
- Each property to have at least 2 ZEVs
- Installation of 142 Level 2 chargers at 71 Envoy properties
- Properties located throughout Sacramento including 75% of the properties located within low-income and disadvantaged communities²



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EV Infrastructure

- 28 stations
- Room for 28 more
- Room for DC Fast charger



Gasoline vs EV - Operating Costs

- Sedans (gasoline)
 - \$2,173,828 LTD
 - 9,023,694 miles
 - **\$.24/mile**
- EV (Chevrolet Bolt)*
 - \$5,782
 - 99,783
 - **\$.06/mile**

* Minimal time In service

Starting a Sustainability Program

- Establish a goal and quantify operational cost savings (fuel use reduction, ZEV reduction in operating costs)
- Meet with top agency officials to create a Policy or Resolution
- Work with local Clean Cities Coalition, Air Quality Management District, or any other local agency designated for environmental impact programs
- Research government grants and incentive programs
- Review public and private partnerships

BOTTOM LINE

