

Clean Cities Program

DISCLAIMER NOTICE: The following is an accessible outline of the July 20, 2023 PowerPoint presentation by the Sacramento Clean Cities Coalition. To view a webcast recording of the presentation, visit the BAR Advisory Group page at www.bar.ca.gov.

Slide 1: Sacramento Clean Cities Coalition

- Gina O'Neal, Co-Director
Sacramento Clean Cities Coalition
Associate Planner, Sac Metro Air District
(916) 622-8433
goneal@airquality.org
- Tim Taylor, Executive Director
Sacramento Clean Cities Coalition
(916) 206-2911
ttaylor@cleancitiessacramento.org
- Overview - Clean Cities Coalitions: Reduce Use of fossil petroleum in transportation and energy
- Projects
 - Fleet & Community Educational Events
 - Technical Training
 - Automotive: Journey and Entry-level Electrician: Chargers/Infrastructure
 - Transportation Programs
 - Auto Sales Incentive Programs
- www.cleancitiessacramento.org

Slide 2: Clean Cities Mission: Reduce Fossil Petroleum in Transportation and Energy

- Fleet Education – Regulations, Grants
- Workforce Development
- Grant Development
- Evaluate Transportation Needs and energy choices to determine the most impactful and cost-effective vehicle options, fuels, technologies, and best practices that make sense for specific stakeholder applications;
- Decarbonize Transportation Sector by shifting to vehicles, fuels, and technologies that reduce transportation greenhouse gas emissions;
- Reduce Transportation Emissions that contribute to air pollution and harm public health;
- Advance Environmental Justice priorities by maximizing project benefits that flow to underserved communities and minimize project burdens that affect underserved communities; and
- Promote Higher MPG Vehicles
- Promote Reduced Idling

Slide 3: Alternative Fuels

- Biodiesel
- Electricity
- Ethanol
- Hydrogen

- Natural Gas
- Propane
- Carbon intensity of fuels (unit = gCO_{2e}/mi)

Fuel Type	CI	Company (ID)
Renewable Diesel	16.21	Neste Singapore Pte Ltd
Renewable Gasoline	38.86	PHILLIPS 66 COMPANY
Renewable Propane	20.5	REG (Chevron)
Renewable Electricity	0	Wind or Solar
Renewable Natural Gas	-532.74	Various Providers
California Grid	76.73	Utility Companies

Slide 4: 2023 Outreach and Education

- 23-01-11_La Familia Workgroup
- 23-01-12_Phillips 66 Renewable Fuels
- 23-01-25_CA Auto Business Council
- 23-02-14_Canoo EV Pickup & Van
- 23-02-21_PEV & Trans Hub
- 23-03-01_Microtransit Listening Session
- 23-03-06_La Familia Microtransit & Job Training
- 23-03-06_La Familia Workforce Development
- 23-03-09_Trainee Cohort Two SMUD Sites
- 23-03-21_Nikola Heavy-duty ZEV
- 23-04-23_Earth Day
- 23-04-27_BAR Advisory Group
- 23-05-11 or 12_EV Power Pod
- 23-06-01_Coast-to-Coast EV
- 23-06-11 to 14_EVS36
- 23-06-12_GiddyUp_SacRT_Power Inn
- 23-06-19 & 20_H2 Business Council
- 23-08-22-24_GTSE Tacoma, WA
- 23-XX-XX_Mack Refuse Truck ASL Demo
- 23-XX-XX_Pepsi Tesla Semi PR Event
- 23-XX-XX_First Responder Training
- 23-XX-XX_Hyundai Event
- 23-XX-XX_Resilience Forum
- 23-XX-XX_Upcoming CARB Regulations
- 23-XX-XX_Upcoming CEC Regulations
- 23-XX-XX_Grants and Incentives
- 23-XX-XX_Grant Writing
- 23-XX-XX_Real World Experience with ZEVs
- 23-XX-XX_ZEV Power Management
- 23-XX-XX_Educating Governing Boards on Cost

- 23-XX-XX_ Hydrogen Implementation
- 23-XX-XX_ Serving DACs
- 23-XX-XX_ Leasing for Capital Management

Slide 5: Advanced Clean Cars II Regulation on OEMs

- ZEV and PHEV percentage of new vehicle sales by model year (2026-2035)

Slide 6: Advanced Clean Fleet Regulation on Fleets

- Two Compliance Paths
 - State and Local Government Agencies
 - 50% of all vehicles acquired over 8,500lb GVWR must be ZEV beginning in 2024
 - 100% of all vehicles acquired over 8,500lb GVWR must be ZEV beginning in 2027
 - Private Companies with more than 50 vehicles over 8,500lb GVWR or with \$50M in annual revenue
 - Same compliance requirements, or
 - Fleets must meet a fleet average percent of ZEVs

Slide 7: EV Tech Training is a Challenge

- Vehicle Manufacturer (OEM)
- National Fire Protection Association (NFPA) 70E
- OSHA 1910.302-308
- OSHA 1910.269

Slide 8: Electric Vehicle Virtual Reality Workforce Training Demo

- VR hand holding removed fuse holder
- VR hand holding power wrench to remove a bolt
- 1st bolt unscrewed, VR hand and wrench working on next bolt
- Aura Planning
 - Angelina Rahimi, Aura Planning Trainer
 - Angelina@auraplanning.com

Slide 9: Trainee Pre-Training “Tours”

- Five Groups of 20: 1 - Refugees; 2 - Women; 3 - Construction/Electrician; 4 - Automotive; 5 - Youth AGED 18 – 25
- SMUD Maintenance Corp Yard
- SMUD Power Academy
- American River College Auto Tech Program

Slide 10: Afghan Refugees Seeking Training

Image showing a refugee group with facilitator Angelina Rahimi

Slide 11: Serving Disadvantaged Communities (DAC)

- Image showing map of Sacramento area
- Image showing people viewing vehicles

Slide 12: Parting Thoughts – Infrastructure

- Large EV fleet requirements in perspective

Slide 13: Questions for Dealers

- Can we establish a mechanism for streamlining the acquisition of new and used EVs and PHEVs for the CC4A Program?
- Are any shops interested in Apprenticeship or Intern Program if stipends are provided for both the dealership and the Apprentice/Intern?
- Are dealerships and customers comfortable with the fact that combustion (in vehicles, dealerships, repair facilities) being eliminated by regulation?
- Are dealerships aware of the costs associated with the upfits to buildings, parking areas, repair facilities, etc. that will be necessary?