



# Mobile Source Update



**Henry Hogo**

**South Coast Air Quality Management District**

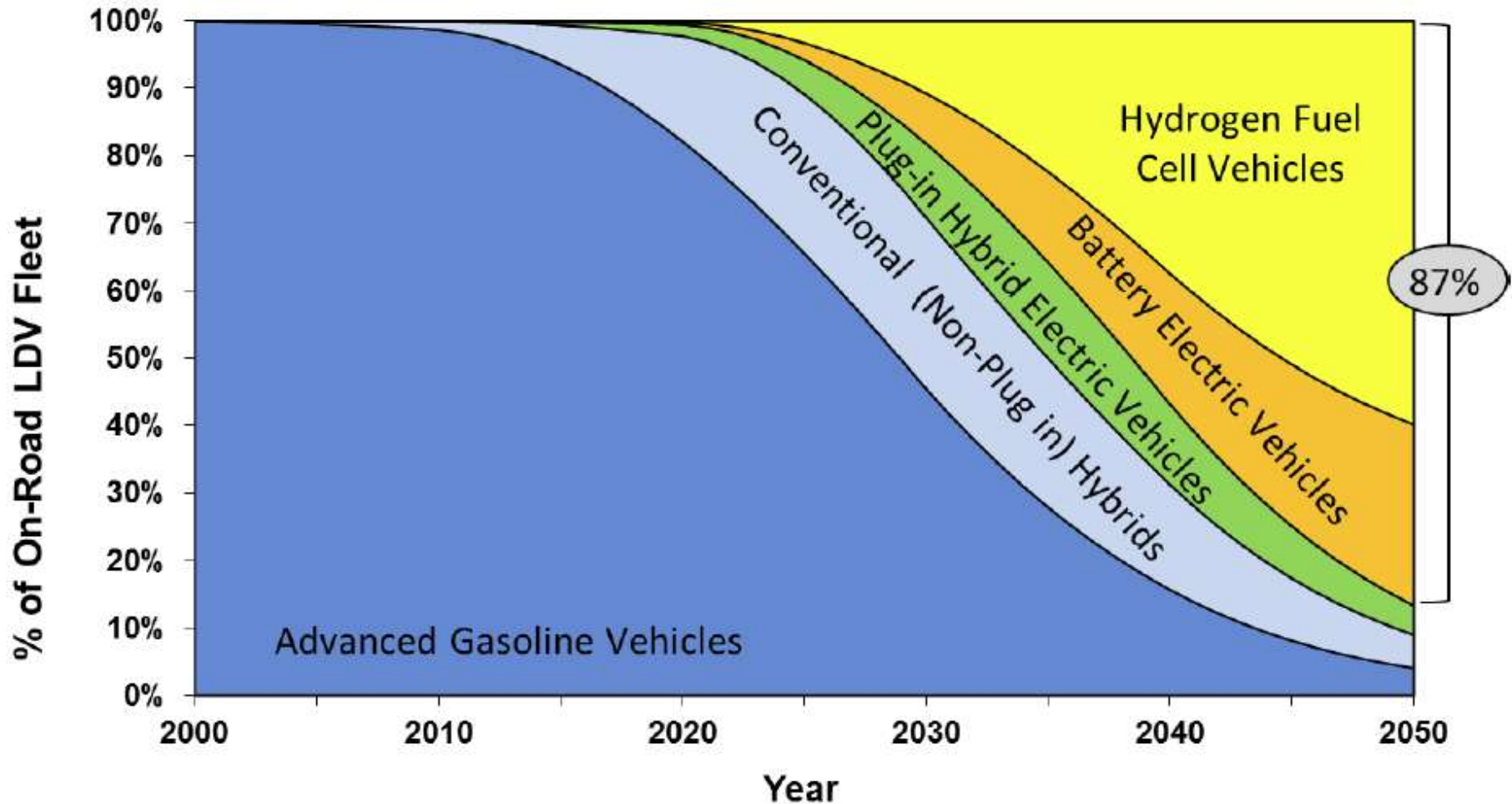
# CARB Regulatory Activities

- On-Road

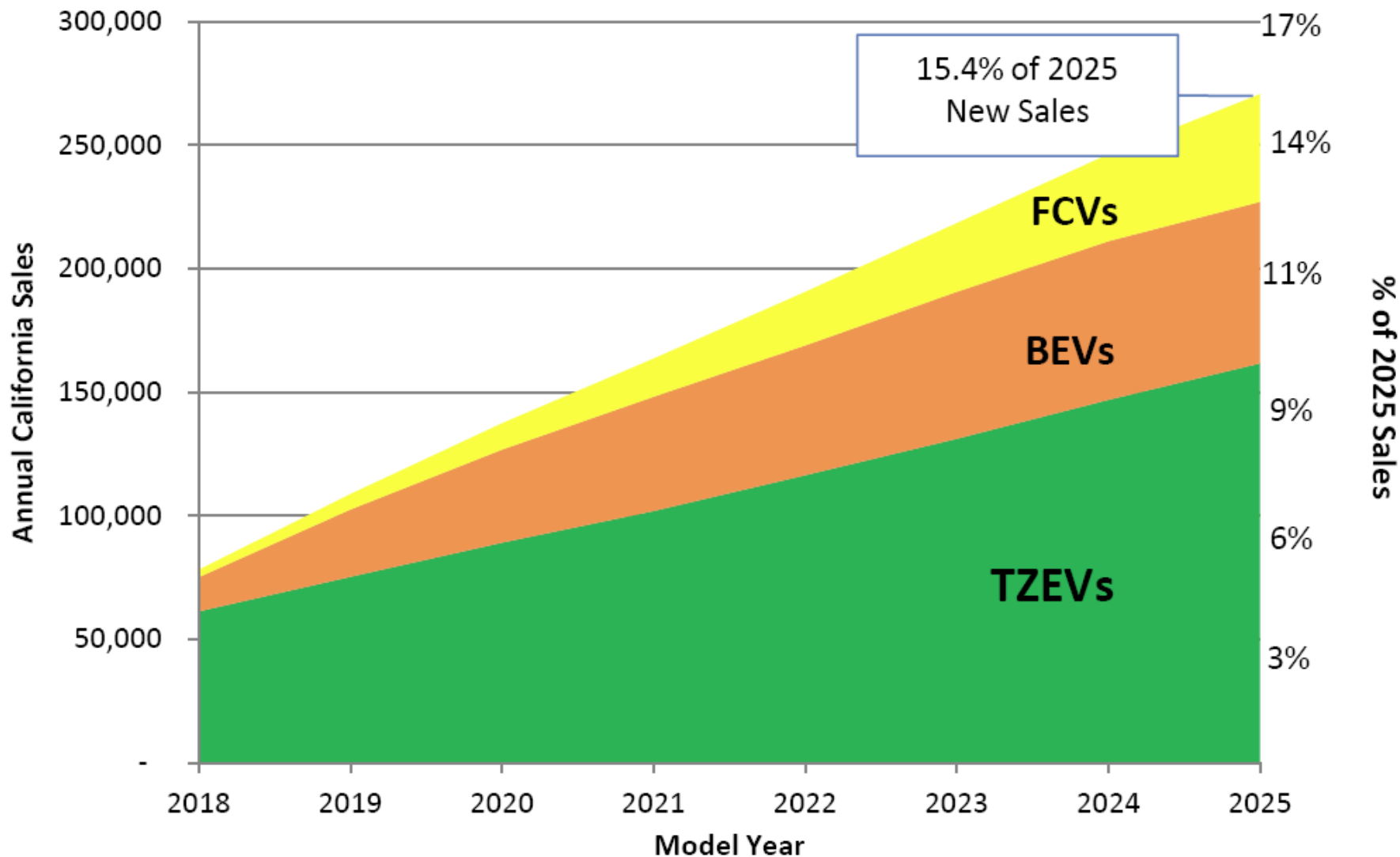
- January 27, 2012 CARB Board Actions:

- Adopted LEV III Program for MY 2015 to 2025 Light- and Medium-Duty Vehicles
    - Amended ZEV Regulation
    - Amended Clean Fuels Outlet Requirements

# Mix of Passenger Vehicles Scenario to Meet 2050 Goals



# ZEV Regulation Compliance



# CARB Regulatory Activities

- Off-Road
- 2011 Actions
  - Amendments to the Low Sulfur Marine Fuel Regulation for Main and Auxiliary Engines – June 2011
  - Amendments to the Cargo Handling Equipment Regulation – Sept 2011
  - Amendments to the Transportation Refrigeration Units Regulation – October 2011

# CARB Regulatory Activities

- Off-Road – 2012 Activities
  - Evaporative Emissions from Off-Highway Recreational Vehicle and On-Road Motorcycles
  - Spark-Ignition Marine Engine Evaporative Emissions

# Federal Regulatory Activities

- 2011 Actions

- Fuel Economy and GHG Emissions Standards for Medium and Heavy-Duty Vehicles (MY 2014 – 2018)
  - Class 2b – 8 Vehicles
  - Engine Standards (g/mi and g/bhp-hr CO<sub>2</sub>)/  
Vehicle Standards (g/ton-miles)/  
Fuel Efficiency Standards

# Federal Regulatory Activities

- 2012 Activities

- Fuel Economy and GHG Emissions Standards for Light-Duty Vehicles (MY 2017 – 2025)

- Agreement between U.S. EPA, NHTSA, CARB and Auto Manufacturers
- MY 2025 (166 g/mi CO<sub>2</sub>)

- Tier 3 Light- and Medium-Duty Vehicles

- Proposals Anticipated Spring 2012



# South Coast AQMD Activities

- Implementation of the Surplus Off-Road Opt-In for NO<sub>x</sub> (SOON) Program
- Implementation of AQMD Fleet Rules
- Scrap & Replacement Programs (HEROS II, AB 118, Unocal Settlement)
- Outreach to Local Governments on Fleet Rules and Use of AB2766 Funds
- Provide Technical Assistance to 2012 AQMP Development

# A Vision for Clean Air: 2012-2050

# Overview

- Objective – Short- and Long-Term Mobile Source Control Strategy
- Coordinated Planning – SCAQMD, CARB, and San Joaquin Valley
- Multi-pollutant Goals – Criteria Pollutants & GHG
- Key Years – 2023, 2035, 2050
- Air Plans Will Be Able to Draw Upon

# “Powering the Future”



# Key Sectors

- Passenger Transportation
- Freight Movement
- Energy and Industrial
- Off-road
- Agriculture (San Joaquin)

# Technology Vision

- Scoping Scenarios to Achieve Zero- or Near-Zero Emissions
- Link Scenarios to Multi-pollutant Goals and Milestones
- Develop Paths (Research, Development, Demonstration, Deployment)
- South Coast Goal – Potential Quantification of Black Box

# Vision Document

- Draft Document - June 2012
- Informational Briefings to Respective Boards – Summer 2012
- 2012 AQMP/SIP Revisions –  
Draw on Document