

[BLOG] UNION OF CONCERNED SCIENTISTS



A Billion Dollar Policy for Electric Vehicles that you Probably Haven't Heard Of

JIMMY O'DEA, VEHICLES ANALYST | DECEMBER 12, 2017, 4:08 PM EDT



Status of Battery and Fuel Cell Electric Buses in California Transit Agencies

(132 in operation and 655 on order, awarded or planned as of May 2018)



16,000 electric buses deployed in Shenzhen











Electric semi trucks are coming



92 miles



250 miles



100 miles



300 miles



500+ miles



500 miles



150 miles



220 miles



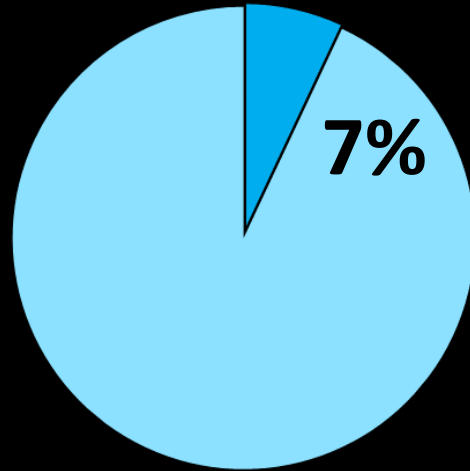
300 miles



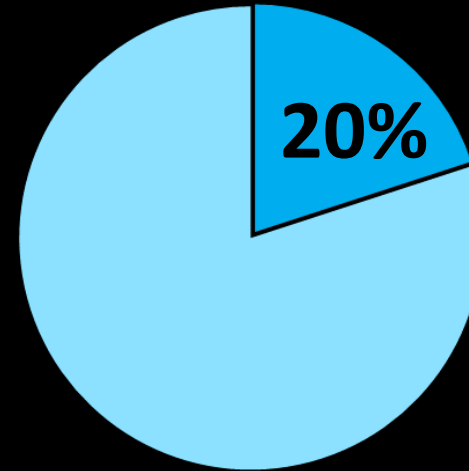


Heavy-duty vehicles in California...

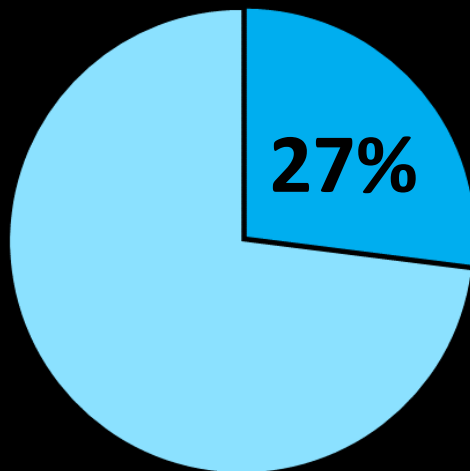
Vehicle population



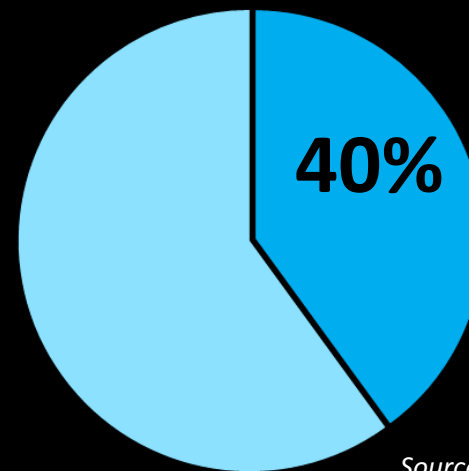
Transportation GHG



Transportation PM_{2.5}



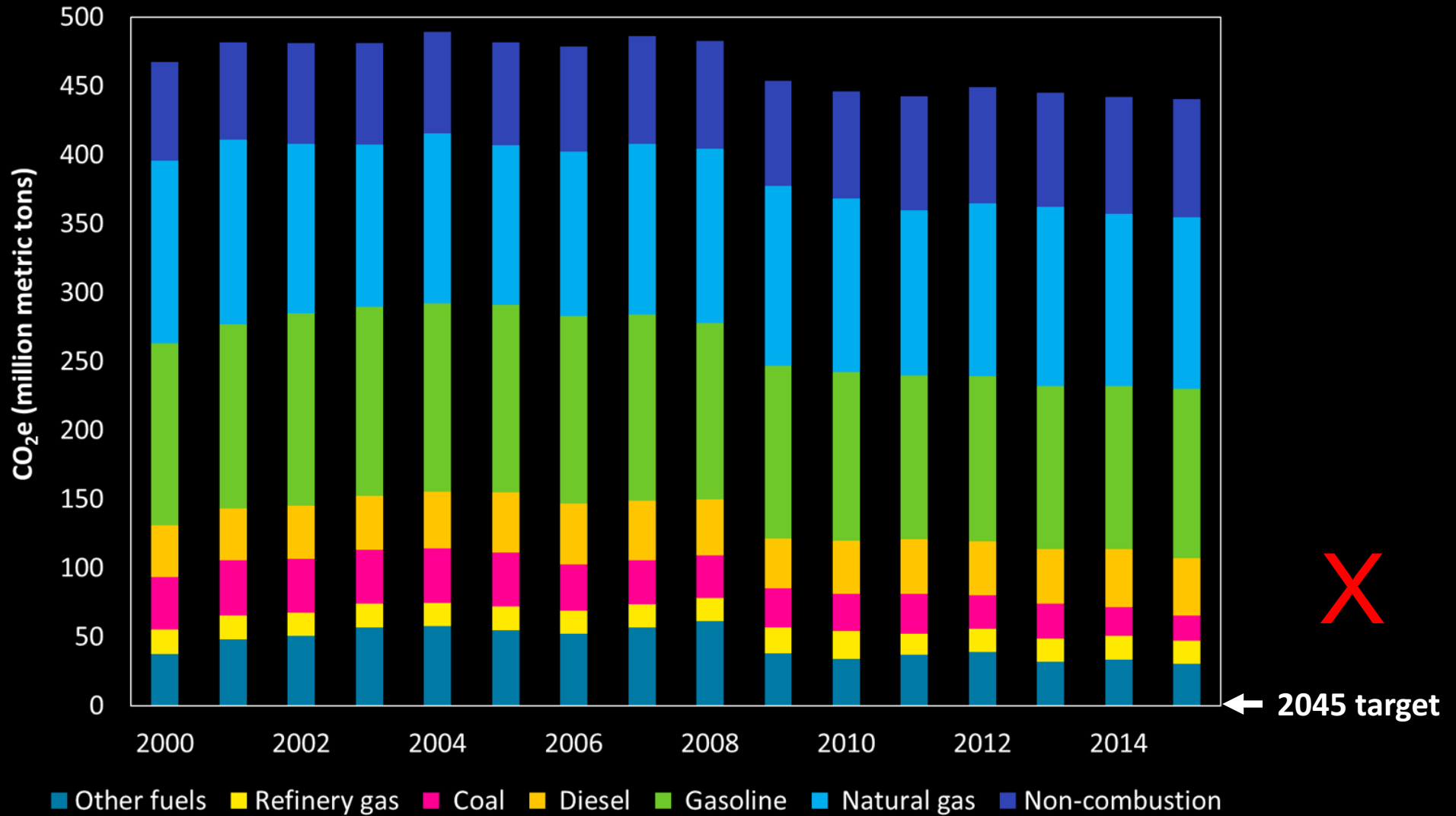
Transportation NO_x



Most polluted cities

By Ozone	By Year Round Particle Pollution	By Short-Term Particle Pollution
#1: Los Angeles-Long Beach, CA	#1: Fairbanks, AK	#1: Bakersfield, CA
#2: Bakersfield, CA	#2: Visalia-Porterville-Hanford, CA	#2: Visalia-Porterville-Hanford, CA
#3: Visalia-Porterville-Hanford, CA	#3: Bakersfield, CA	#3: Fresno-Madera, CA
#4: Fresno-Madera, CA	#4: Los Angeles-Long Beach, CA	#4: Fairbanks, AK
#5: Sacramento-Roseville, CA	#5: Fresno-Madera, CA	#5: Modesto-Merced, CA
#6: San Diego-Carlsbad, CA	#6: Modesto-Merced, CA	#6: San Jose-San Francisco-Oakland, CA
#7: Modesto-Merced, CA	#7: El Centro, CA	#7: Los Angeles-Long Beach, CA
#8: Phoenix-Mesa-Scottsdale, AZ	#8: Pittsburgh-New Castle-Weirton, PA-OH-WV	#8: Salt Lake City-Provo-Orem, UT
#9: Redding-Red Bluff, CA	#8: Lancaster, PA	#9: El Centro, CA
#10: New York-Newark, NY-NJ-CT-PA	#10: Cleveland-Akron-Canton, OH	#10: Pittsburgh-New Castle-Weirton, PA-OH-WV
#11: Houston-The Woodlands, TX	#10: San Jose-San Francisco-Oakland, CA	#11: Logan, UT-ID
#12: Las Vegas-Henderson, NV-AZ	#12: Philadelphia-Reading-Camden, PA-NJ-DE-MD	#12: Missoula, MT
#13: San Jose-San Francisco-Oakland, CA		#13: Lancaster, PA

California's GHG emissions over time, by fuel



Source: California Air Resources Board, Greenhouse Gas Inventory, 2017.

Life cycle global warming emissions, e.g. buses

