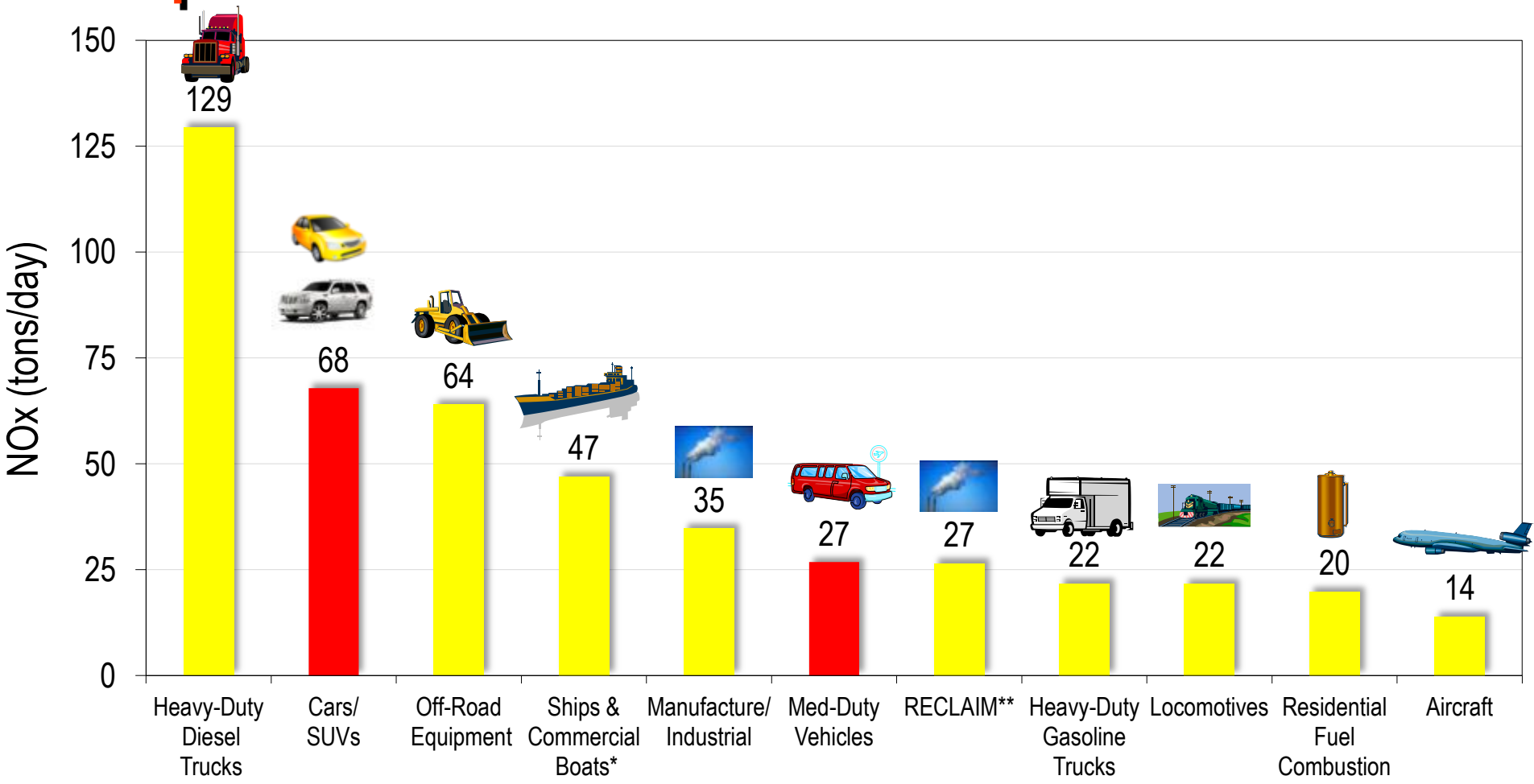
Passenger Cars, Light-Duty Trucks, Motorcycles, and Buses

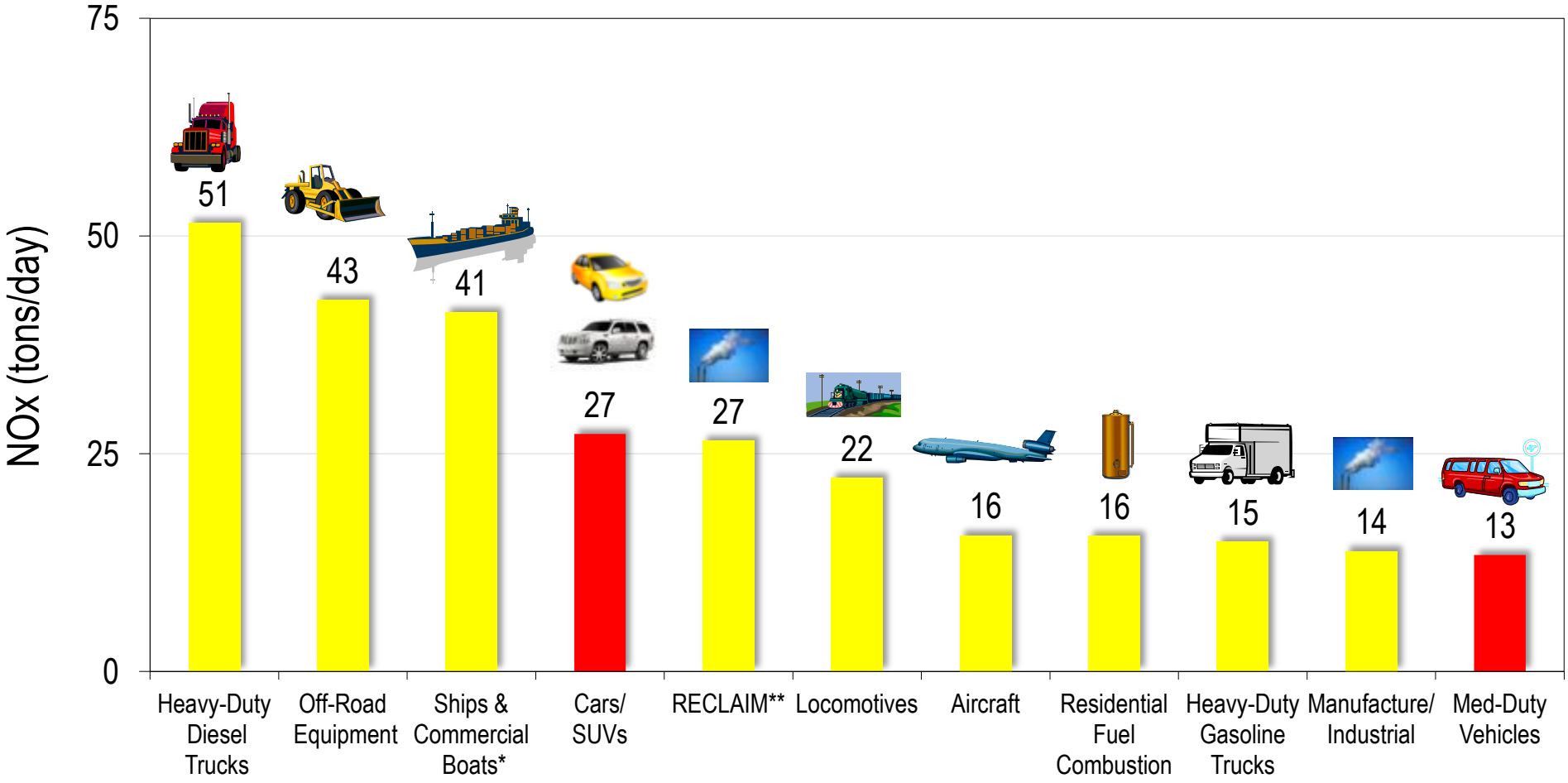
Top NOx Emissions Sources in 2014



* Ocean-going vessels = 35 tons/day

**RECLAIM: 320 largest stationary sources, including all refineries and power plants

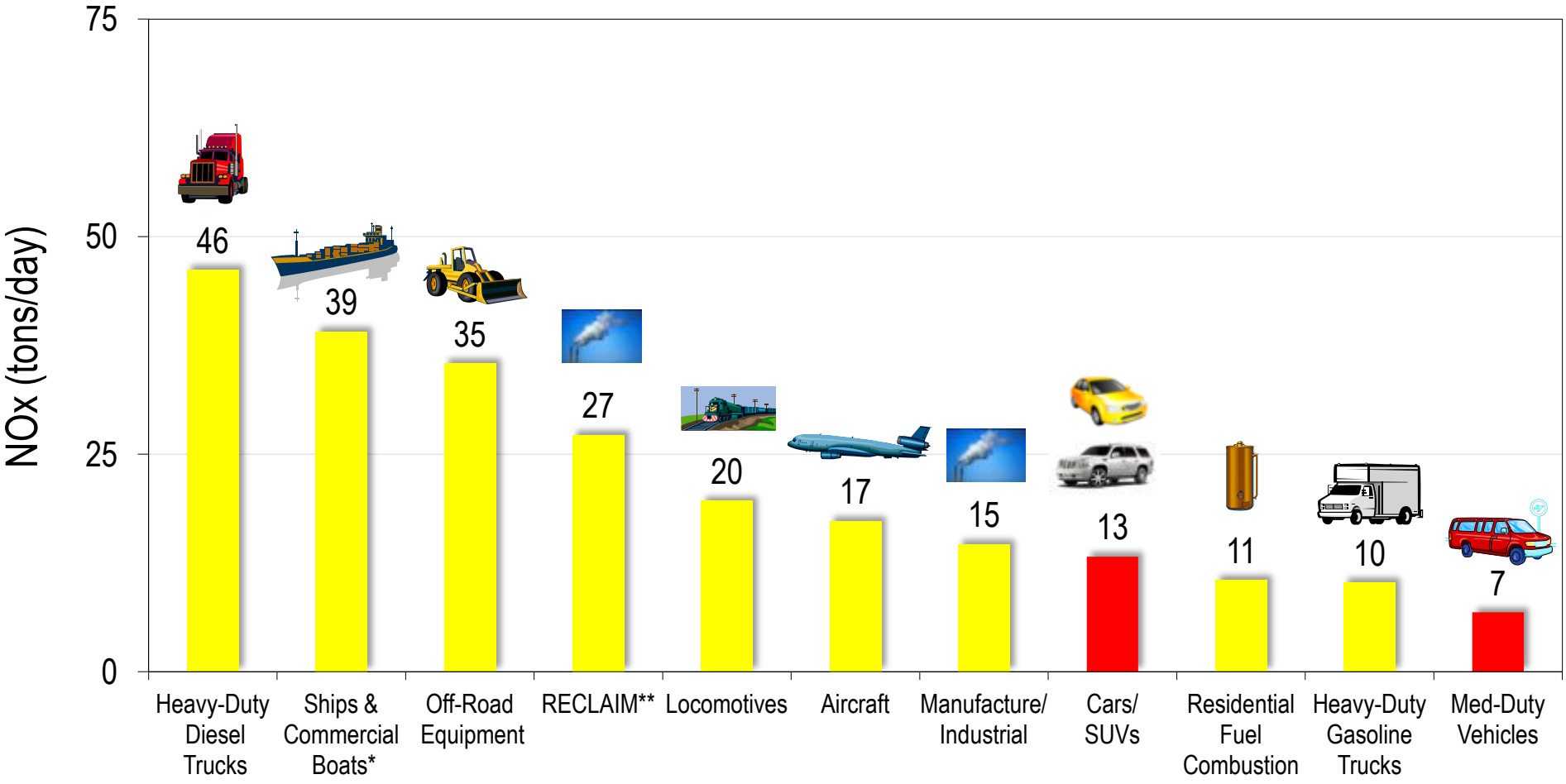
Top NOx Emissions Sources in 2023



* Ocean-going vessels = 32 tons/day

**RECLAIM: 320 largest stationary sources, including all refineries and power plants

Top NOx Emissions Sources in 2032



* Ocean-going vessels = 29 tons/day

**RECLAIM: 320 largest stationary sources, including all refineries and power plants

SCAQMD Fleet Vehicle Rules

- 1191 - Light- and Medium-Duty Public Fleets
- 1192 -Transit Buses
- 1193 - Refuse Collection Vehicles
- 1194 - Commercial Airport Ground Access
- 1195 - School Buses
- 1196 - Heavy-Duty Public Fleet Vehicles
- 1186.1 - Less-Polluting Sweepers



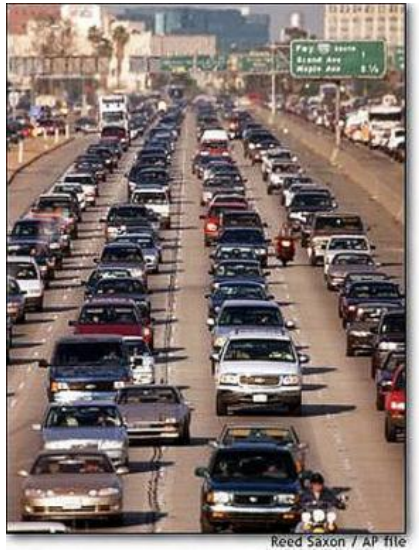






Key Challenges Moving Forward

- Significant Number of Cars, SUVs, and Light-Duty Trucks
- Zero-Emission Technologies More Readily Available for Light- and Medium-Duty Vehicles
- Need to Expand to Larger Vehicle Sizes
- Battery Storage Technology
- Incentive to Purchase Zero-Emission Technology



Near- Zero and Zero Emission Transit Buses

- 0.02 g/bhp-hr NOx Engine Development
  - Co-Funding – CEC and Gas Company
- Battery Electric Buses
  - Foothill Transit – Proterra Buses
  - L.A. Metro – BYD Buses
- Fuel Cell Buses
  - SCAQMD Long History with Fuel Cell Technologies
  - Sunline Transit Agency – First Fuel Cell Bus
  - New Generation Fuel Cell Buses
    - Advanced Technology Fuel Cell Transit Bus
    - American Fuel Cell Bus