# Use of Metrics for Emission Reduction Project Funding


South Coast AQMD

Matt Miyasato, Ph.D.
Deputy Executive Officer
Science & Technology Advancement

# Commercial vs. Emerging Tech

- Commercial technologies have well-established cost-effectiveness formulae ($/ton)
  - Carl Moyer
  - Proposition 1B
- Emerging technologies
  - Prioritize based on different factors, including
  - Reduction potential, proponents, cost-share, co-benefits, leveraging, etc.

# Research, Development, Demonstration & Deployment

**Research**

- Basic Research
- Lab Bench
- Proof-of-Concept

**Development**

- 1st Generation Demonstrations
- System & Component Integration ("Balance of Plant")
- Proof-of-Technology

**Demonstration**

- 2nd/3rd Generation Demonstrations
- Durability & Acceptance
- Proof-of-Product

**Deployment**

- Pre-commercial Demonstrations
- Market Readiness
- Proof-of-Commercialization

Commercialization

# How do we prioritize?

- Low criteria pollutants
- Support policy
- Energy diversity
- Low GHGs

Mission

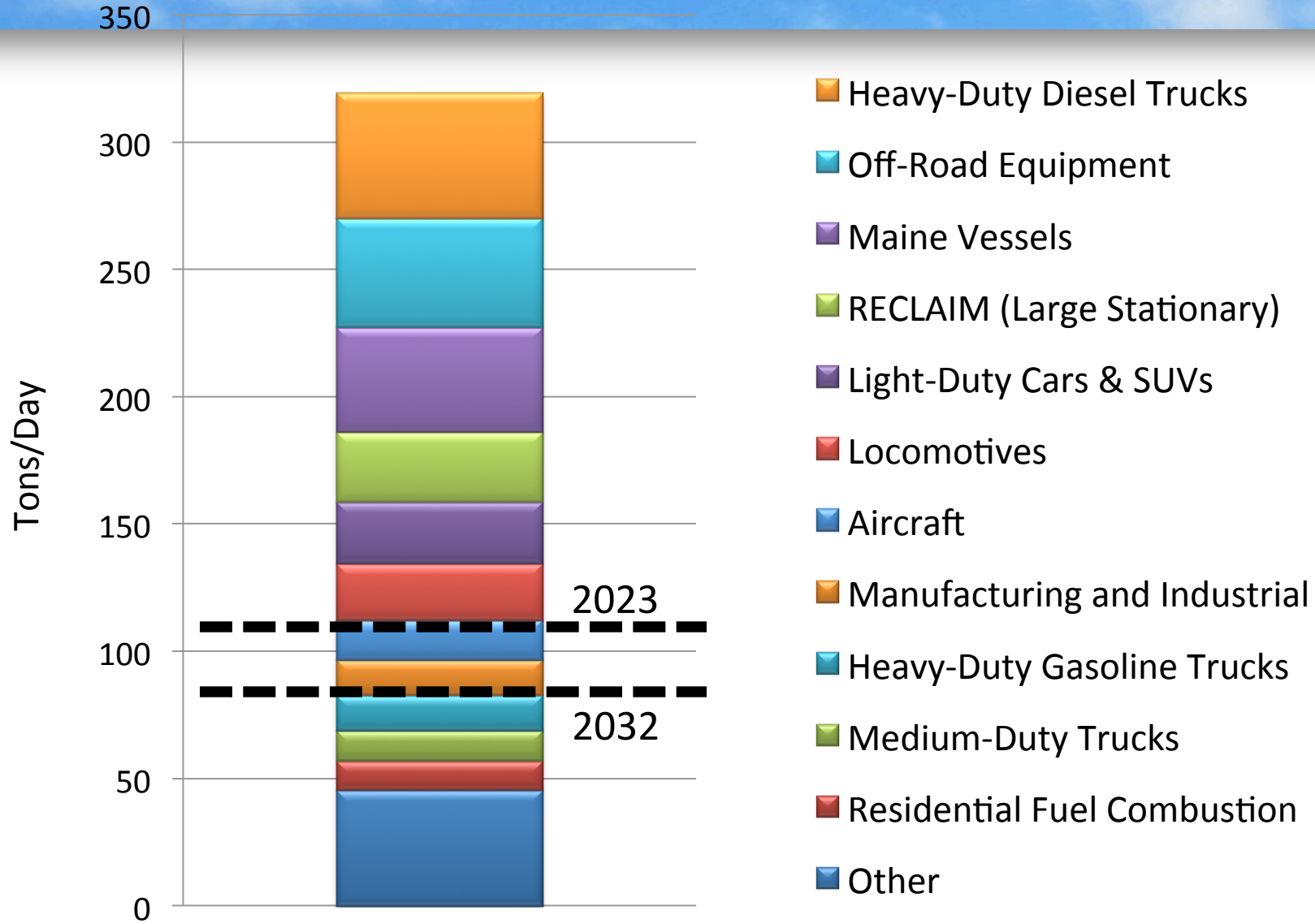
Timing

- Enable availability of technology
- Leveraging opportunity with others

- Funding effect or impact
- Large possible population

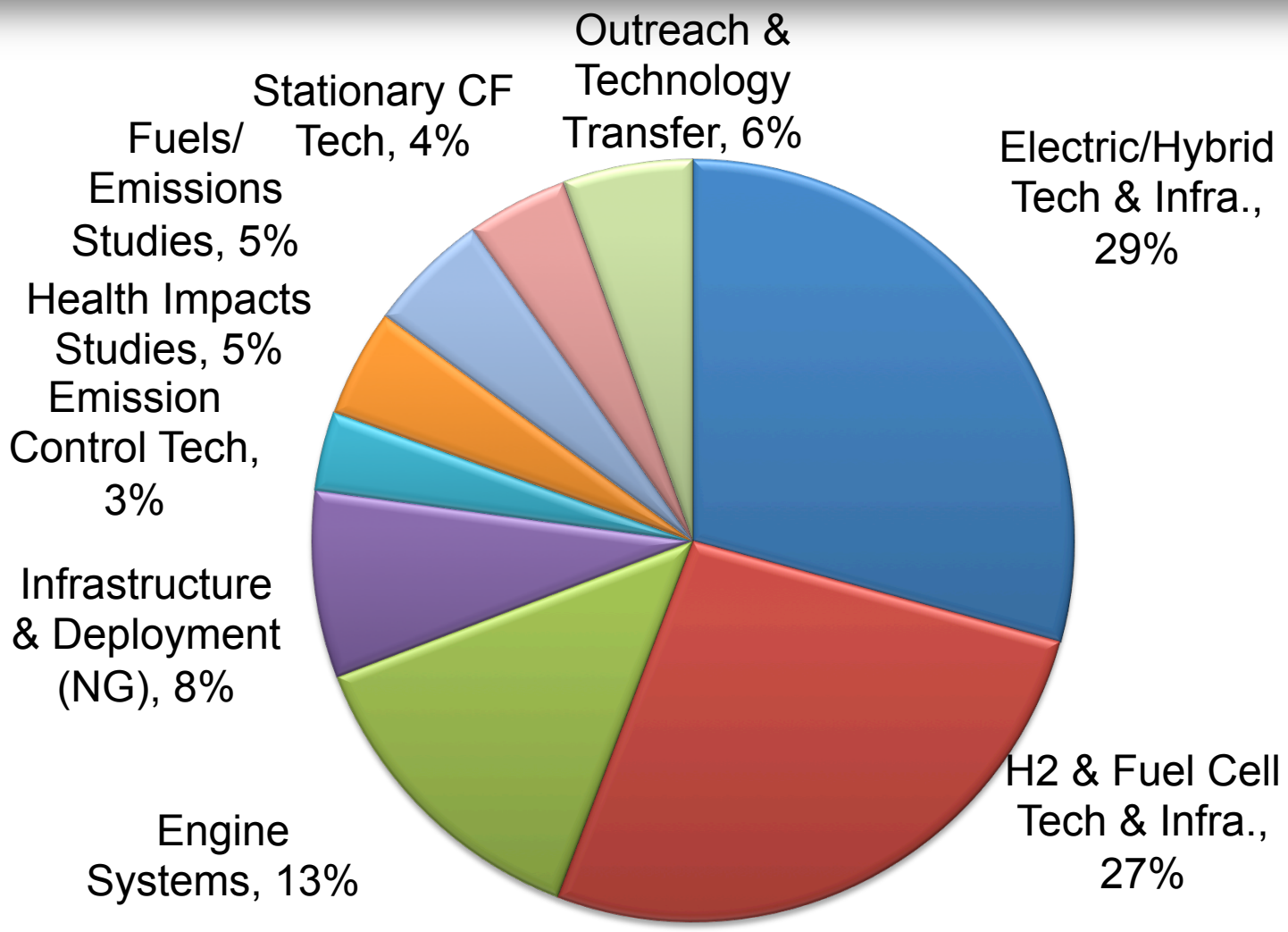
Effect

# Top NOx Sources in the Region




In 2023 with all regulations implemented

# Portfolio Approach
# 2014 Plan Update




$16.4M Total