Session 4: Stationary

Renewable Distributed Electricity Generation Solicitation

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South Coast Air Quality Management District

Background

- Identified need for
  - Greater electrification as a future control strategy
  - In-basin clean distributed generation
- South Coast Air Basin has great potential for renewable energy sources such as solar, wind, geothermal, and biogas

Background (cont'd)

- February 2011, the Board approved three goals and priorities for new budget year
- Priority highlighted as important in achieving AQMD's mission and goals
  - Incentivize five megawatts of in-basin renewable distributed electricity generation and storage to support electric technology applications
- RFP #P2011-21
  - Released May 6, 2011 & Closed July 1, 2011

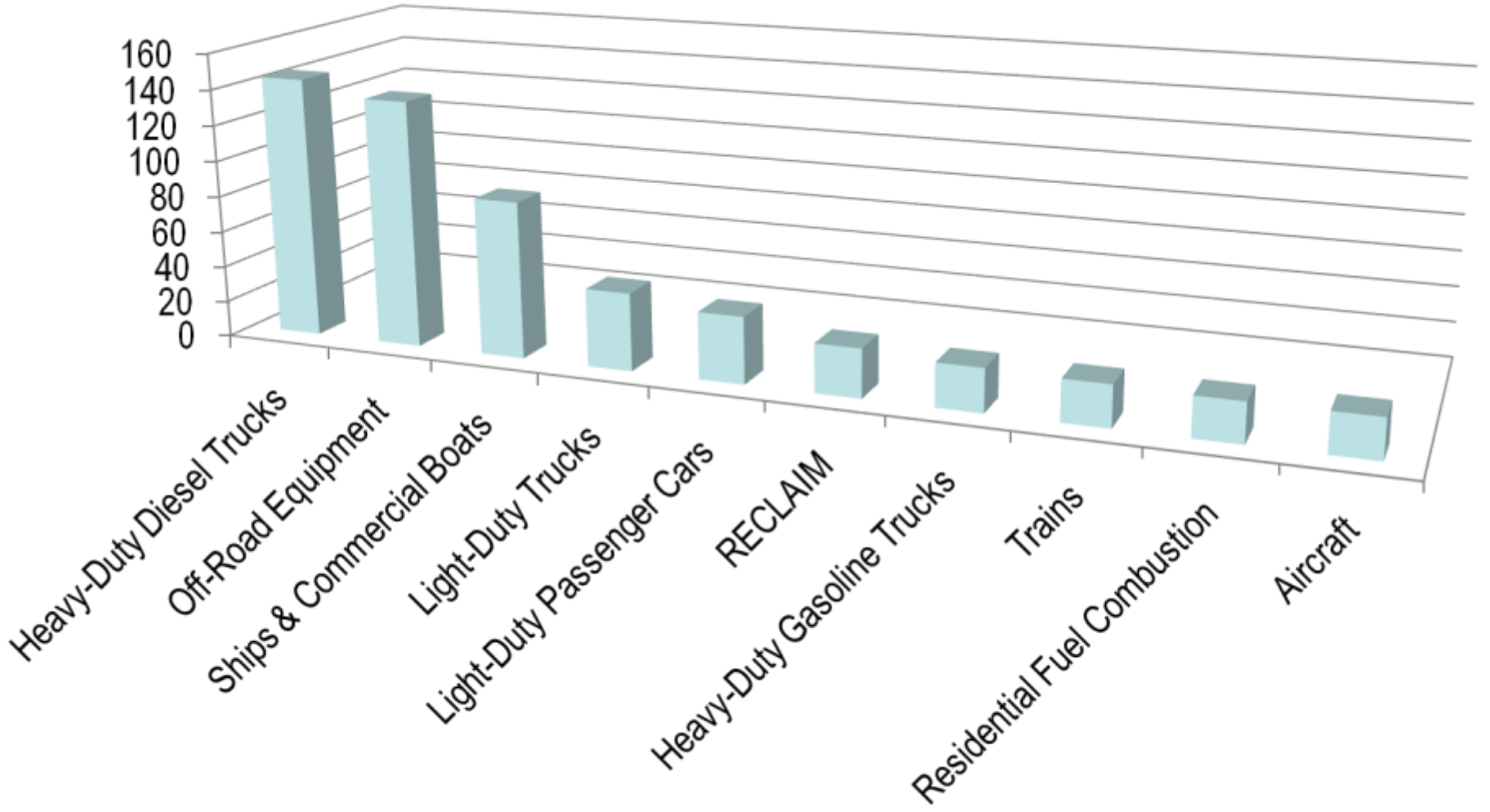
Objectives

- Incentivize clean renewable energy and storage projects
- Support electric transportation technologies
- Assist commercial, institutional, large, and small residential facilities as well as power development partnerships
- Support a diversity of projects in terms of the eligible technologies

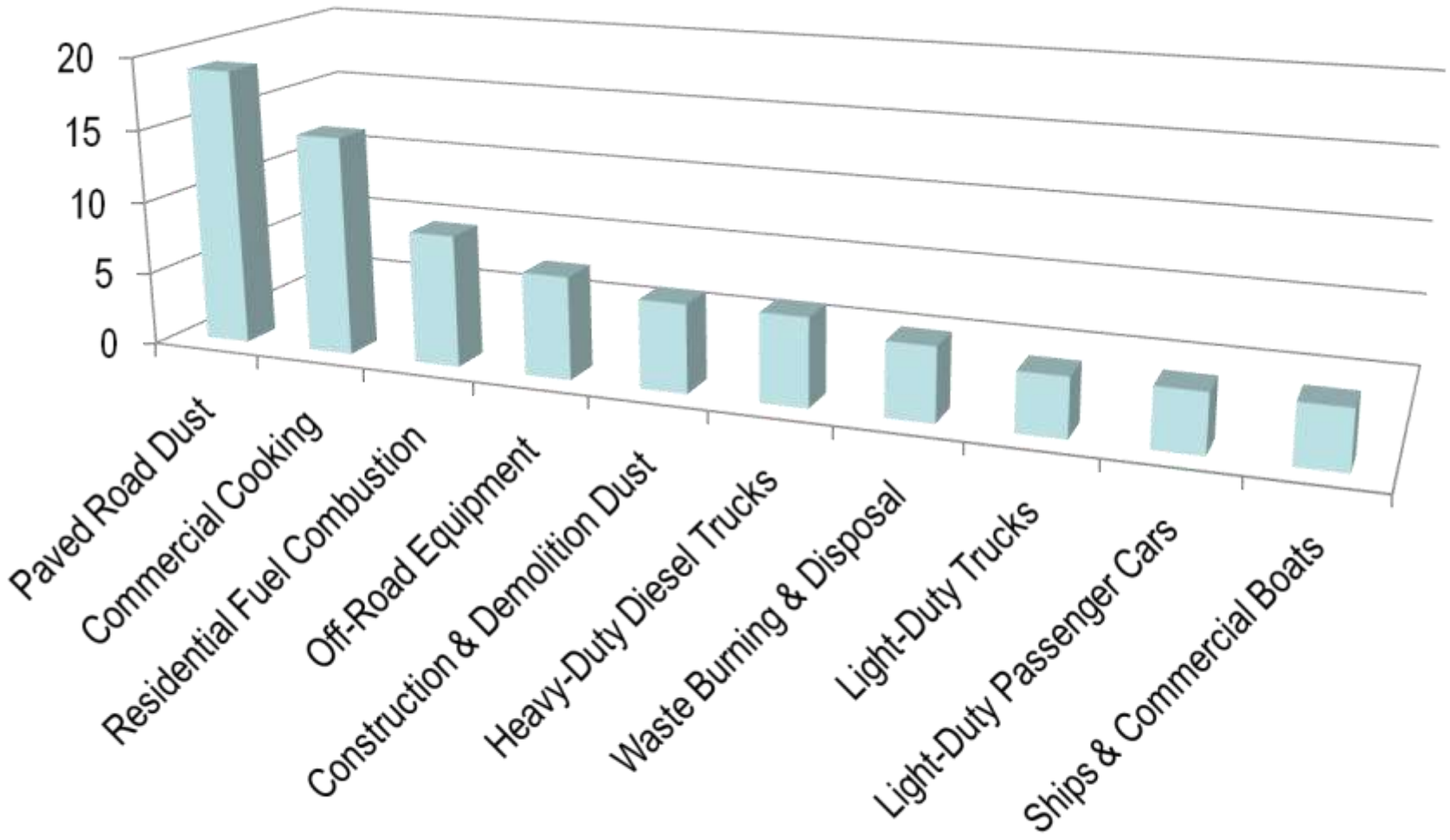
Objectives (cont'd)

- Support AB32 – State's comprehensive program to reduce greenhouse gas emissions from all sources
- Reduction in criteria pollutants

NOx Emissions (2014)
Top 10 Categories (tpd)



PM2.5 Emissions (2014)
Top 10 Categories (tpd)



Status

- Received 46 proposals
  - 16 Solar PV
  - 15 Solar hybrid
  - 10 Fuel Cell biogas/ directed biogas
  - 1 Wind
  - 1 IC Engine biogas
  - 1 Ice thermal
  - 1 Waste to Energy
  - 1 Lithium Storage
- $193M AQMD Funding requested
- $458M total projects cost
- $260M cost-share
- 102 Megawatts of total generation

Schedule and Funding

- Proposals currently being reviewed by technical review panel
- Structured to achieve a diversity of projects in terms of the eligible technologies that qualify for the Self-Generation Incentive Program, California Solar Initiative Program and other sources of funding
- Governing Board in early 2012

Schedule and Funding (cont'd)

- Expected funding $15M - $30M
- Anticipated technology funding
  - 30-50% Solar
  - 20-40% Solar Hybrid
  - 20-30% Fuel Cell
  - 10-20% Wind and other renewable DG
- Priority on projects with energy storage features