

## South Coast AQMD

- Over 44% of CA population
- Ports of Los Angeles and Long Beach – 6<sup>th</sup> largest in world
- 1.5 million medium and heavy-duty vehicles
- 10 million passenger cars



## 12/12/2011















1 Preliminary emissions estimates based on data updated from 2007 AQMP where available: CARB 2010 emissions projections for trucks and off-road equipment; IMO Tier 1 – 3 for ocean vessels; IPA 2008 rule for locomotives; 2007 AQMP short-term measures for other categories. Range for oceangoing vessels (20-52) based on varying deployment assumptions for IMO Tier 2 and 3 vessels and range of ports' cargo forecasts. 9

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ozone standard

Heavy Duty Buses

Service/Commercial







## <section-header> School Buses Acaigest in Nation(3rd largest in Nation) 100% CNG in January 2011 School Buses Replaced close to 1,000 pre-1987 with new CNG buses since 2001 Largest number of replacements in CA (\$150 million) Refuse Haulers 34% alternative fuel Waste Management has largest fue of the nation







17

## MD/HD Technology Strategy

- "One-size-fits-all" does not apply
- Near-term focus on toxics/health effects
- Longer-term focus on regional attainment
- Identify high potential duty-cycles for zero or near-zero emissions (hybrids, catenary, AER)
- If path to zero is not feasible or takes too long, need other mitigation strategies
- Infrastructure

