Draft AQMD Energy Policy



Elaine Chang, DrPH Deputy Executive Officer April 27, 2011

Background

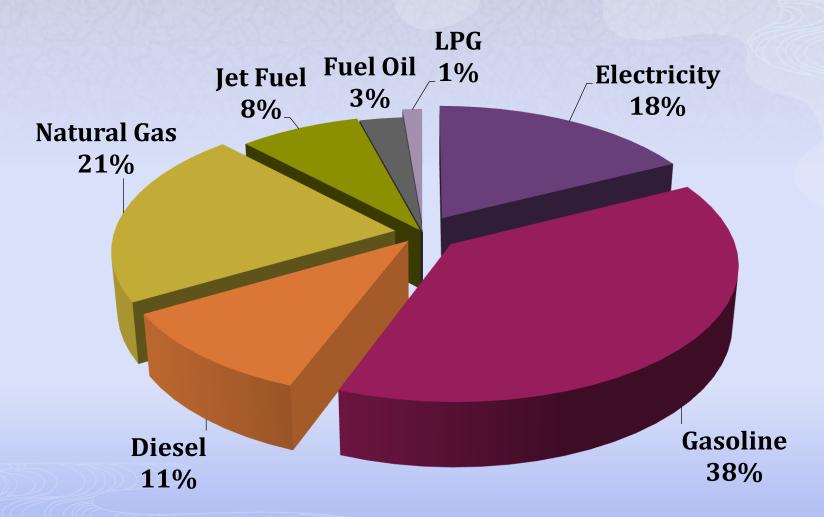
- Board direction to develop an AQMD Energy Policy
 - Integrate criteria, toxics, GHG, and energy issues
 - Criteria pollutant standards are being lowered
 - Reduce dependence on imported energy and fuel sources
 - Help achieve clean air and healthy economy

Overview

- Basin energy use
- Energy policies
- Actions

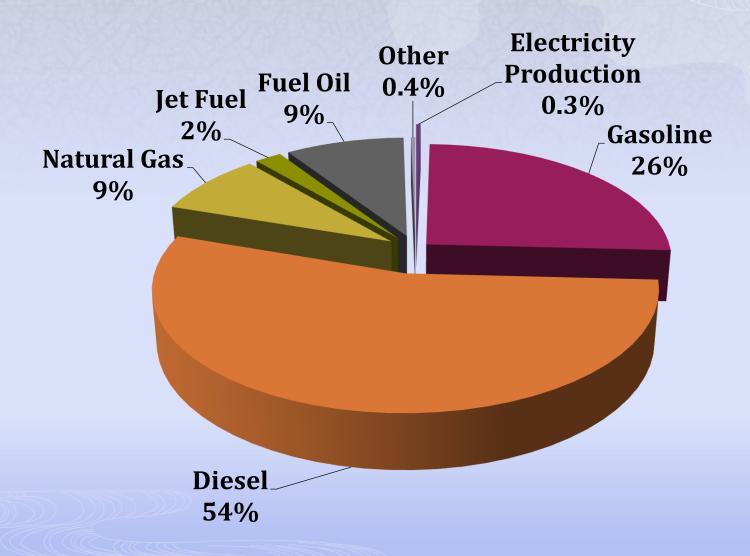


Energy Consumption in Basin



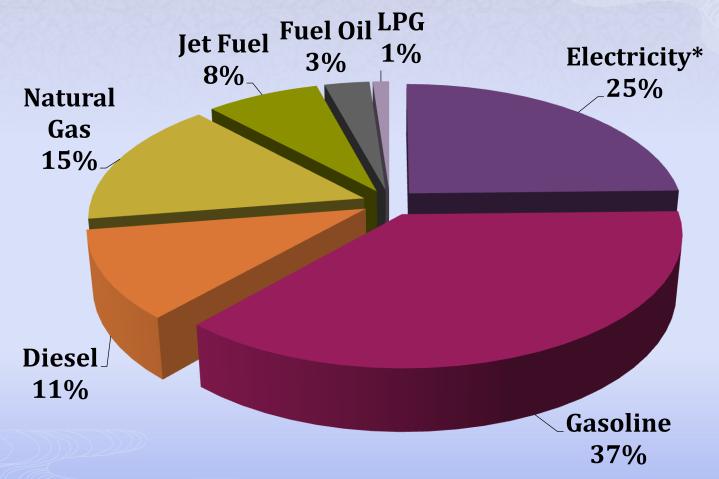
Total = 2.2 Quadrillion Btu

Basin 2008 NOx Emissions



Total = 860 Tons per day

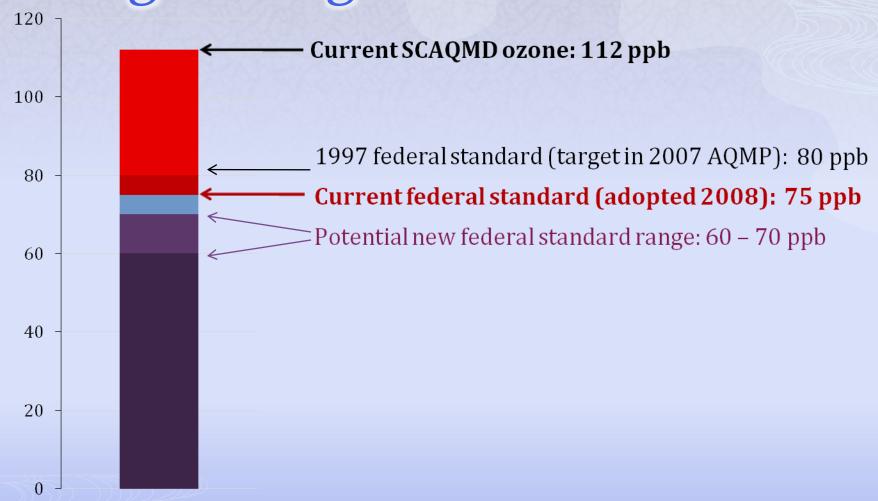
Basin 2008 CO₂ Emissions



Total = 160 million MT per year

*Includes in-basin and out of basin electricity generation

Strengthening Standards



Regional Costs

\$45 billion spent in 2008 on petroleum fuels

Gasoline avg. \$3.61, diesel \$3.92, jet fuel \$3.50, LPG \$2.50, fuel oil \$2.84 per gallon, natural gas (\$10.80 to \$12.75 per thousand scf = \$0.90 to \$1.06 per gallon depending on usage type).

\$22 billion per year due to poor air quality

 Based on The Benefits of Meeting Federal Clean Air Standards in the South Coast and San Joaquin Valley Air Basins, J. Hall, V. Brajer, F. Lurmann; 2008.

Energy Policies

- Integration of air quality, energy security and climate change objectives
- Promote zero and near zero emission strategies
 - Electrification, or
 - Other ultra low emission technologies
- Energy Demand
 - Energy efficiency
 - Load shifting

Energy Policies (continued)

- Energy supply
 - Reliable, affordable, cleanest, and sustainable
 - Distributed renewable generation
 - Energy storage
 - Role of fossil generation
- AQMD rulemaking
- Community mitigation
- Consumer choice

Actions

- Electrification strategy
 - Studies to identify needs and benefits
 - Action plan
 - Identify measures for transportation incentives and funding mechanisms
- Participate and promote AQMD Energy Policy
- Vehicle recharging
 - Workgroup to standardize installation of electric vehicle rechargers
 - Advocate separate rate structure for off-peak vehicle charging
- Partnerships utilities and local governments
 - Promote energy conservation and efficiency