Economic and Technology Advancement Advisory Committee (ETAAC): Presentation of Final Report to CARB

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Overview of Presentation

- ETAAC Purpose & Public Process
- Report Overview & Major Themes
- Examples of Recommendations

Source: International Council on Clean Transportation

ETAAC Purpose

- ETAAC was formed by ARB under AB32
  - Advise ARB on promising GHG emission-control technologies; and policies to advance these technologies
  - Additional responsibilities listed in AB32
  - Also asked by ARB to comment on aspects of Market Advisory Committee report

ETAAC Public Process

- 20 Technology experts appointed by ARB one year ago
  - transportation, energy, industry, agriculture, forestry, business, finance, academia, government

- Committee held nine public meetings across California
  - Bay Area, Central Valley, Sacramento, Southern California (all meetings webcast)
  - Toured R&D centers across the state
  - Received public comments in person and in writing

Source: Stanford University Global Climate and Energy Project

ETAAC Public Process (continued)

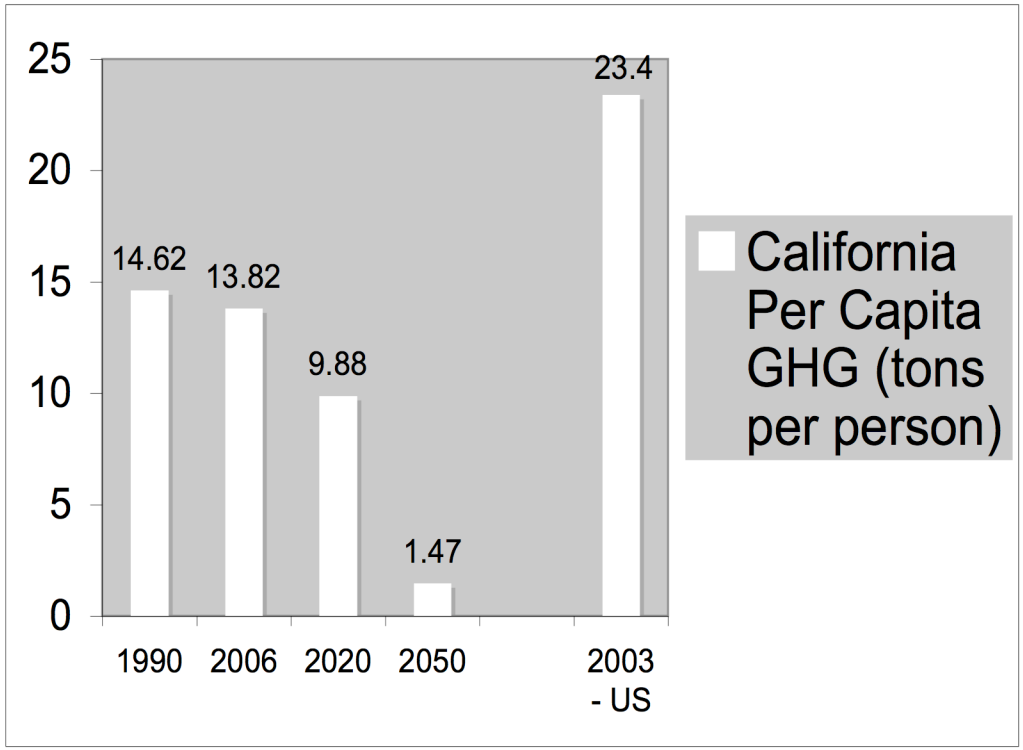
- Public review of report:
  - November 15, 2007 draft report
  - December 21, 2007 draft report

- Final report adopted at Feb. 11, 2008 public meeting

Source: Friends of the Urban Forest

Overall Vision

- Help meet GHG reduction goals for 2020 and 2050
- Environmental & economic benefits
- Repeat California's environmental successes



Overall Vision ->
55 recommendations across sectors

Five Major Strategies

- Accelerate GHG Emission Reductions
- Balance a Portfolio of Economic and Technology Policies
- Create Innovative Public Funding to Complement Private Investment
- Foster International and Domestic Partnerships
- Leadership Across State Agencies

Five Major Opportunities

- Accelerate Efficiency Measures
- Remove Carbon from Energy Sources
- Rethink Transportation to Lower Demand and Carbon Emissions
- Reduce GHG Emissions from Industry, Agriculture, Forestry and Water
- Capture Cleantech Employment, Economic, Health, and Environmental Justice Co-Benefits

Cross-cutting Innovative Ideas

Source: AC Transit

- California Carbon Trust example
  - If allowances are auctioned, or carbon fees assessed, revenues should be invested in GHG reductions & technology development

Low and Zero Emission Transportation

- Continue leadership on light-duty vehicles & expand to heavy duty

- Incentives such as feebates; fleet purchase standards/incentives

Source: US DOE

Shifting Transportation Demand

Source: AC Transit

- Link funding for infrastructure planning & development to Smart Growth

- More accurate pricing for driving
  - Pay-as-You-Go Insurance
  - Congestion Charges
  - Fuel taxes indexed to GHG & vehicle miles

- Did not assess specific technologies in depth

Energy Efficiency

Source: LED Power

- Utility programs and customer efforts
- Development & deployment of Light Emitting Diodes - general lighting
- Water conservation & reuse

Low Carbon Energy Action Plan

Source: Solel

- Energy Efficiency
- Remove barriers to development & deployment of increased renewable energy
- Zero and low carbon distributed generation
- Potential to remove carbon from fossil & biomass fuels

Waste Reduction, Recycling, Compost

Source: Good Green Graces

- Strategy to reduce GHG from waste disposal, and decreased materials extraction & processing, such as
  - Use compost for agriculture & other uses, instead of landfilling these organics
  - Better recycling service at commercial & multi-unit residential buildings

Thank you to ETAAC