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MAR 26 2014

Transportation Transformation for Clean Air & Public Health

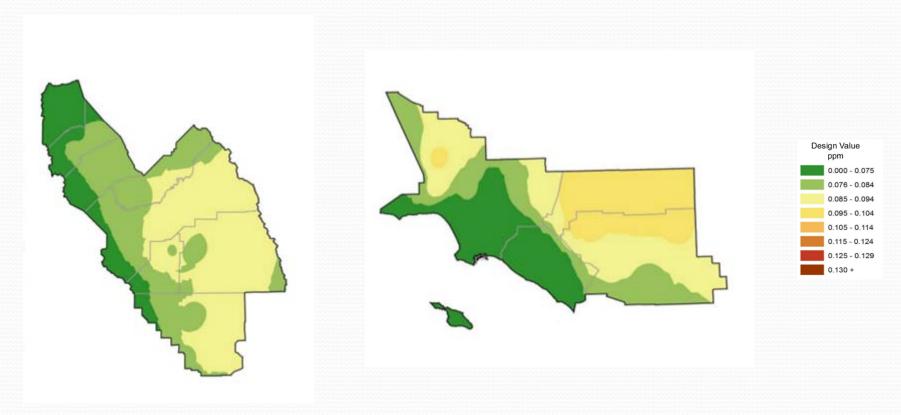
Sandra Berg Board Member, Air Resources Board

CEC IEPR Workshop March 27, 2014

California Environmental Protection Agency



Strong Progress ... Now for the Challenge

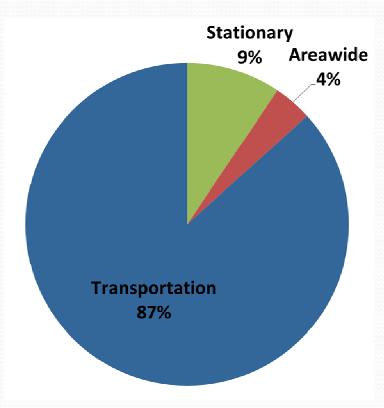


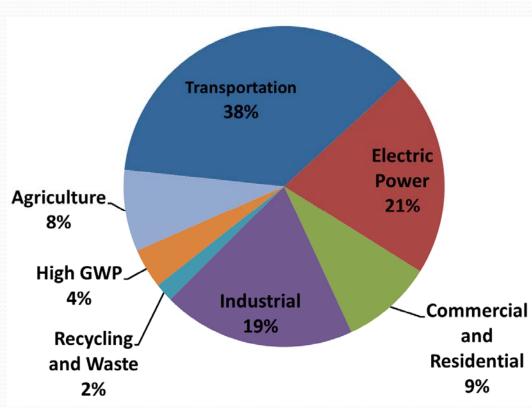
2013 San Joaquin Valley and South Coast Ozone Levels

Transportation is a Key Driver

South Coast NOx Emissions

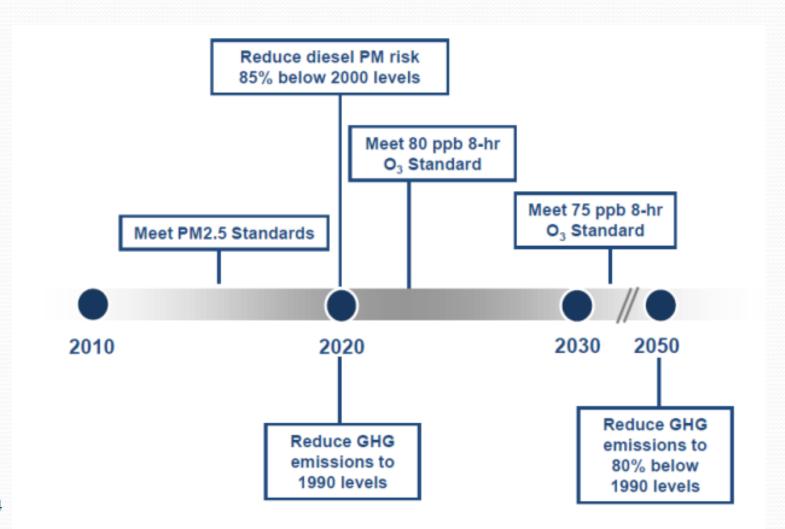
Statewide GHG Emissions





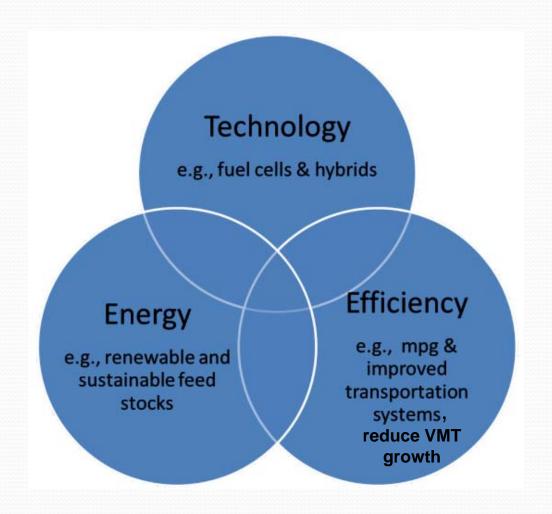
2020 Attainable....2050 Transformational

Timing is Critical & Requires Visionary Leadership



Transformational Inter-Agency Effort

Using Multi-faceted Portfolio Strategy



Challenge is Innovation to Commercialization Why Transformation is the Path

Let's take Light Duty Vehicles for Example..... Vehicle Technology & Infrastructure

 ~90% of todays fleet of ICE vehicles will need to transition to zero or near-zero technologies such as PHEVs, BEVs, and FCVs along with the infrastructure and consumer behavior to support such a dramatic change.

Fuels

- Electric grid meeting growing demand AND cleaner than 2020 target
- High volume of innovative fuels such as biofuels to meet the demand of the new transportation technology and energy needs in a low carbon lifestyle.

Lifestyle – Reduce VMT Growth

- Plan and build sustainable communities to reduce VMT growth
- Innovative smart transportation/mobility options to reduce VMT growth

Momentum, Momentum, Momentum Closing the Gap to Commercialization

- **Transformative Mobility** through alternative vehicles, fuel markets and smart mobility which need to be launched over the next 5-10 years with growth (2025-2050) comparable to that of the *IT* world...think *iPhone*.
- Transformative Industries/Markets through encouraging, supporting and rewarding key innovation.
- Transformative Citizen/Consumers & Infrastructure
- Transformative Leadership to envision and develop strategic, purposeful, integrated, dynamic, clear, multi-stakeholder public policy.

"We can not solve our problems with the same thinking we used when we created them."

- Albert Einstein