

STRATEGIES UNDERWAY IN CALIFORNIA THAT REDUCE CLIMATE CHANGE EMISSIONS

Table 1 below lists climate change emission reduction strategies that are already underway in California. These strategies, when fully implemented, significantly reduce greenhouse gas emissions in the state. The strategies will bring California approximately half way towards meeting the 2010 and 2020 targets.

Strategies Already Underway in California

TABLE 1		GHG Savings ¹ (Million Tons CO ₂ Equivalent)		
Agency Responsible	2010			2020
Strategies				
Air Resources Board				
Vehicle Climate Change Standards		1	30	
Diesel Anti-idling		1	2	
Public Utilities Commission/Energy Commission				
Accelerated Renewable Portfolio Std (33% by 2020)		5	11	
Million Solar Roofs		0.4	3	
Investor Owned Energy Efficiency Programs ²		4	8.8	
Integrated Waste Management Board				
Achieve 50% Statewide Recycling Goal		3	3	
Energy Commission				
Natural Gas Efficiency Improvements		1	6	
Appliance Efficiency Standards		3	5	
Fuel-efficient Replacement Tires & Inflation Programs		3	3	
Business Transportation and Housing/CalEPA				
Reduced Venting and Leaks in Oil and Gas Systems		1	1	
State and Consumer Services/CalEPA				
Green Buildings Initiative		0.5	1.8	
Air Resources Board/CalEPA				
Hydrogen Vehicles		Not yet estimated		
Total Potential Emission Reductions³		23	75	

- 1 These are approximations that best reflect our current knowledge given a committed and coordinated effort with strong state leadership in partnership with industry.
- 2 Through 2013.
- 3 Rounding may cause this number to be slightly different than the sum of the numbers for each strategy.

Summary Descriptions for Each Strategy

Vehicle Climate Change Standards

Emissions savings from implementation of vehicle climate change regulations are based on August 2004 ARB Staff Report.

Diesel Anti-Idling

Reduced idling times and use of truck stop electrification can reduce diesel use in trucks by about 4%, with significant air quality benefits.

Accelerated Renewable Portfolio STD (33% by 2020)

20% of electricity sold by 2010 and 33% by 2020 would be generated from renewable resources.

Million Solar Roofs

Rebate programs would encourage the construction 1 million new solar homes in 13 years, and commercial installations (rebates through 2007).

Investor-Owned Energy Efficiency Programs

Programs to achieve electricity and natural gas energy conservation goals through 2013 as established by the Public Utilities Commission.

Achieve 50% Statewide Recycling Goal

Achieving the State's 50% recycling goal will reduce climate change emissions associated with energy-intensive material extraction and production, as well as methane emissions from landfills.

Natural Gas Efficiency Improvements

Natural gas efficiency savings from the industrial sector and from buildings are providing benefits currently and can be built upon for future reductions.

Appliance Efficiency Standards

Standards are currently being proposed for new appliances not currently regulated.

Fuel-Efficient Replacement Tires & Inflation Programs

Initiatives and education programs to encourage the purchase of low-rolling resistance tires and to maintain adequate tire pressure can reduce climate change emission.

Reduced Venting and Leaks in Oil and Gas Systems

Strategies to reduce methane lost to the atmosphere in oil and gas production, processing, transmission, and distribution are being evaluated.

Green Buildings Initiative

Incentives or further building standards can encourage designs with significantly lower energy use and other sustainability benefits. Long-term savings potential could be significant.

Hydrogen Vehicles

Hydrogen fuel cell vehicles may offer major emissions savings after 2020, especially if hydrogen is produced from low climate change emission sources.