

California's Climate Change Policies

Dian M. Grueneich, Commissioner
California Public Utilities Commission
www.cpuc.ca.gov
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Governor Schwarzenegger's Executive Order S-3-05 CO₂ Emissions Reduction Targets

Date	CO ₂ Emission Goals
2010	2000 levels (reduction of 59 million tons)
2020	1990 levels (reduction of 145 million tons)
2050	80% of 1990 levels

Climate Action Team Draft Report

- ❖ Report to the Governor and the Legislature on strategies to achieve Governor's GHG reduction goals

	GHG Saving (Million Tons CO ₂)	
	2010	2020
10 Strategies Underway	22	67
33 Strategies to be Pursued	35 – 40	115 - 120
Total Potential Reductions	57 - 62	182 - 187

- ❖ Impact of climate change on California
- ❖ Preliminary economic impact analysis of strategies shows net benefit

Climate Action Team's Major Policy Recommendations

- ❖ Mandatory climate change emissions reporting
- ❖ Public goods charge for transportation
- ❖ Coordinated investment strategy for state funds (e.g. the state pension system, public interest energy research)
- ❖ Development of a policy to provide early action credit

GHG Emissions Reduction Strategies Already Underway

Strategies	GHG Savings (Million Tons CO ₂)	
	2010	2020
Vehicle Climate Change Standards	1	30
Diesel Anti-idling	1	1.2
Accelerated Renewable Portfolio Std (33% by 2020)	5	11
California Solar Initiative	0.4	3
Investor Owned Utility Energy Efficiency Programs	4	8.8
Statewide 50% Recycling Goal	3	3
Building Energy Efficiency Standards	1	2
Appliance Energy Efficiency Standards	3	5
Fuel-efficient Replacement Tires & Inflation Programs	1.5	1.5
Green Buildings Initiative	0.5	1.8
Hydrogen Highway	Not yet estimated	
Total Potential Emission Reductions	22	67

Energy Efficiency Programs

Cumulative state-wide targets (2004-2013)

- 26,506 GWh/yr
- 5,000 MW off peak
- 444 MMth/yr

- ❖ Eliminates need for 10 new power plants and 8.8 million tons of CO₂ emissions (equal to 1.8 million cars)

- ❖ Over 55 percent of incremental energy needs

- ❖ \$2 billion in funding for Program Years 2006-2008
 - Funding from utility procurement dollars and Public Goods Charge
 - Levelized cost of 3 cents/kWh and 21 cents/therm
 - \$2.7 billion in net savings to consumers

Renewable Energy Programs

❖ Renewable Portfolio Standard

- ❖ Currently require load serving entities to provide 20% renewables by 2010
- ❖ State's Energy Action Plan II sets goal of 33% by 2020

❖ California Solar Initiative

- ❖ \$2.9 billion over 10 years/Goal of 3000 MW
- ❖ \$2.80 per watt effective Jan. 1, 2006, declining by approximately 10 percent annually
- ❖ Average rate impact of \$12/year for residential electricity customers

California's Energy Action Plan II

- ❖ “Loading Order” of Resource Additions
 - ❑ Energy efficiency and demand response are preferred resources
 - ❑ Renewable generation
 - ❑ Distributed and self generation
 - ❑ Clean, conventional generation and transmission
- ❖ Climate Change - ensure that energy supplies are consistent with the Governor's climate change goals

CPUC GHG Standards

- ❖ GHG Adder of \$8 per ton – December 2004
 - Utilities use adder only in ranking bids
 - Reflects potential cost of future regulation

- ❖ Policy Statement on GHG Performance Standard for Utility Procurement – October 2005
 - All Utility owned generation and purchase contracts exceeding three years
 - GHG Emissions profile that is no greater than the emissions from a combined-cycle natural gas plant

Procurement Incentives Framework

January 2006 Draft Decision

- ❖ Establishes framework to guide future IOU procurement efforts with a focus on reducing GHG emissions
 - Load based cap on GHG emissions
 - Offsets for direct utility related activities only
 - Flexible compliance mechanism with performance penalties
 - Power purchase contracts permitted only with suppliers that register with, and report emissions to, the California Climate Action Registry