



Alameda County & Cities Climate Forum

CALIFORNIA Climate Risk & Response

F. Noel Perry

January 23, 2009



About Next 10

- Founded in 2003
- Independent, Nonpartisan, Nonprofit
- Focus: Budget, Infrastructure, Green Economy
- Commissions expert research to educate, engage and empower Californians
- Website: www.next10.org

Budget Challenge

CoolCalifornia.org

Expert Research

Index Senior Advisors

Ralph	Cavanagh	Natural Resources Defense Council
Michael	Hanemann	CA Climate Change Center, UC Berkeley
Hal	Harvey	The William & Flora Hewlett Foundation
Elliot	Hoffman	New Voice of Business
Van	Jones	Ella Baker Center
Dan	Kammen	Renewable & App. Energy Lab, UC Berkeley
Bruce	Klafter	Applied Materials
Joel	Makower	Executive Editor, GreenBiz.com
Jason	Mark	The Energy Foundation
Walter	McGuire	McGuire & Co., Inc./ Flex Your Power
Joe	Nation	Former State Assemblyman, District 6
Manuel	Pastor	Professor of US Studies & Ethnicity, USC
Fran	Pavley	Assemblymember (2000-2006), Author AB 32
Wendy	Pulling	Pacific Gas & Electric Company
Carol	Whiteside	Great Valley Center
Tim	Woodward	Nth Power



California Climate Risk and Response

- Most Authoritative & Timely Climate Damage Science
- Translated to Seven Economic Sectors: Water, Energy, Transportation, Real Estate & Insurance, Agriculture, Tourism & Recreation, Public Health
- Assets at Risks & Damages
- IPCC Global Warming Scenarios



The Most Expensive Thing We Can Do Is Nothing

ECONOMIC DAMAGE AND ASSET RISK ESTIMATES FOR CALIFORNIA (2006 USD billions)

	Damage Cost/Year		Assets at Risk
	Low	High	
Water	NA	0.6	5
Energy	2.7	6.3	21
Tourism and Recreation	0.2	7.5	98
Real Estate	0.2	1.4	900 Water
	0.1	2.5	1,600 Fire
Agriculture, Forestry, Fisheries	0.3	4.3	113
Transportation	NA	NA	500
Public Health	3.8	24.0	NA
TOTAL	7.3	46.6	



The Most Expensive Thing We Can Do Is Nothing




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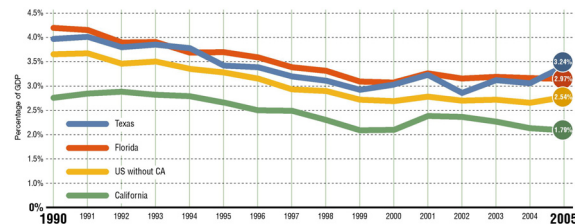



Smart Mitigation Is A Powerful Economic Stimulus

- 1972-2006 California Energy Efficiency Policies
- \$56 billion in consumer savings
- Redirected to Instate Goods & Services
- Generated 1.5 million fulltime jobs
- \$45 billion in payroll
- Just 1% annual increase in energy efficiency can generate over 400k jobs and \$76 billion GSP



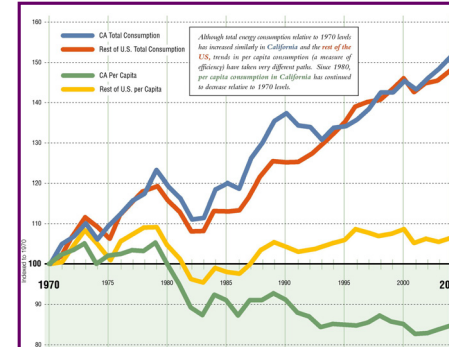
STATEWIDE ELECTRICITY BILL



Expressed as a fraction of GDP, CA spends half as much on electricity as Texas -- a difference of **\$25 billion** each year that Californians can spend on other things.



TOTAL ENERGY CONSUMPTION



Like the US: total consumption continues to rise.

Unlike the US: CA is more energy efficient now than in 1970.



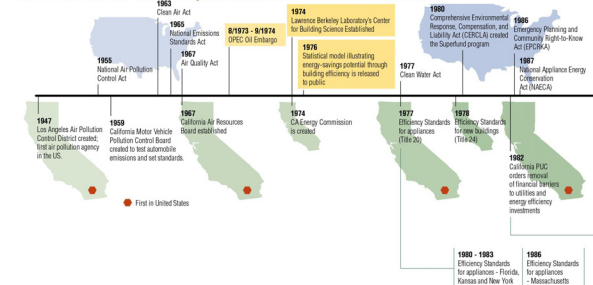
Smart Proactive Planning & Policy Are Imperative

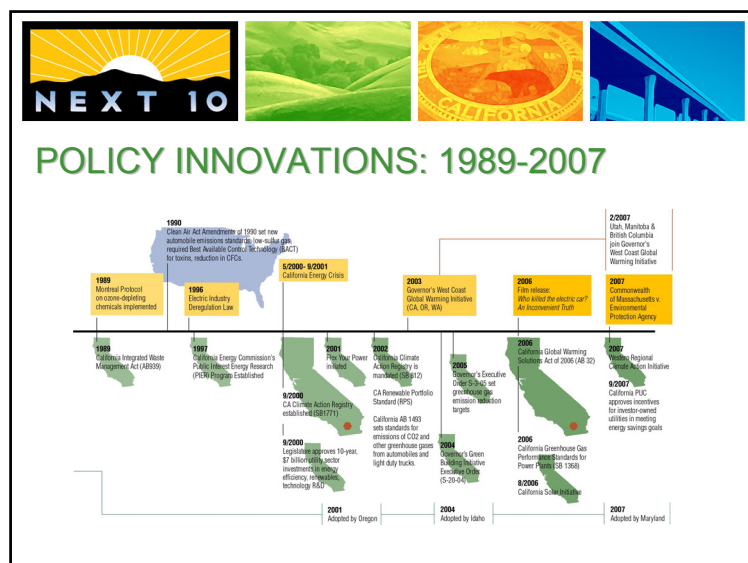
- Expand technical assessment of climate risk and policy options
- Strategically begin to re-deploy existing resources for infrastructure renewal and/or replacement
- Provide incentives for private investment to promote long term adaptation, climate security and energy independence



POLICY INNOVATIONS: 1947-1987

California Policy Innovations Over Time (Regulatory, Investment, Incentives)
Set in Context with U.S. Policy Innovations and Other Historical Events





California Leadership

- Adversity to Opportunity
- The Most Expensive Thing We Can Do Is Nothing
- Smart Mitigation is a Powerful Economic Stimulus
- Smart Proactive Planning Is Imperative

WWW.NEXT10.ORG