



The Times They Are A Changin'

David D. Doniger
STAPPA/ALAPCO

October 26, 2005



Real change this year



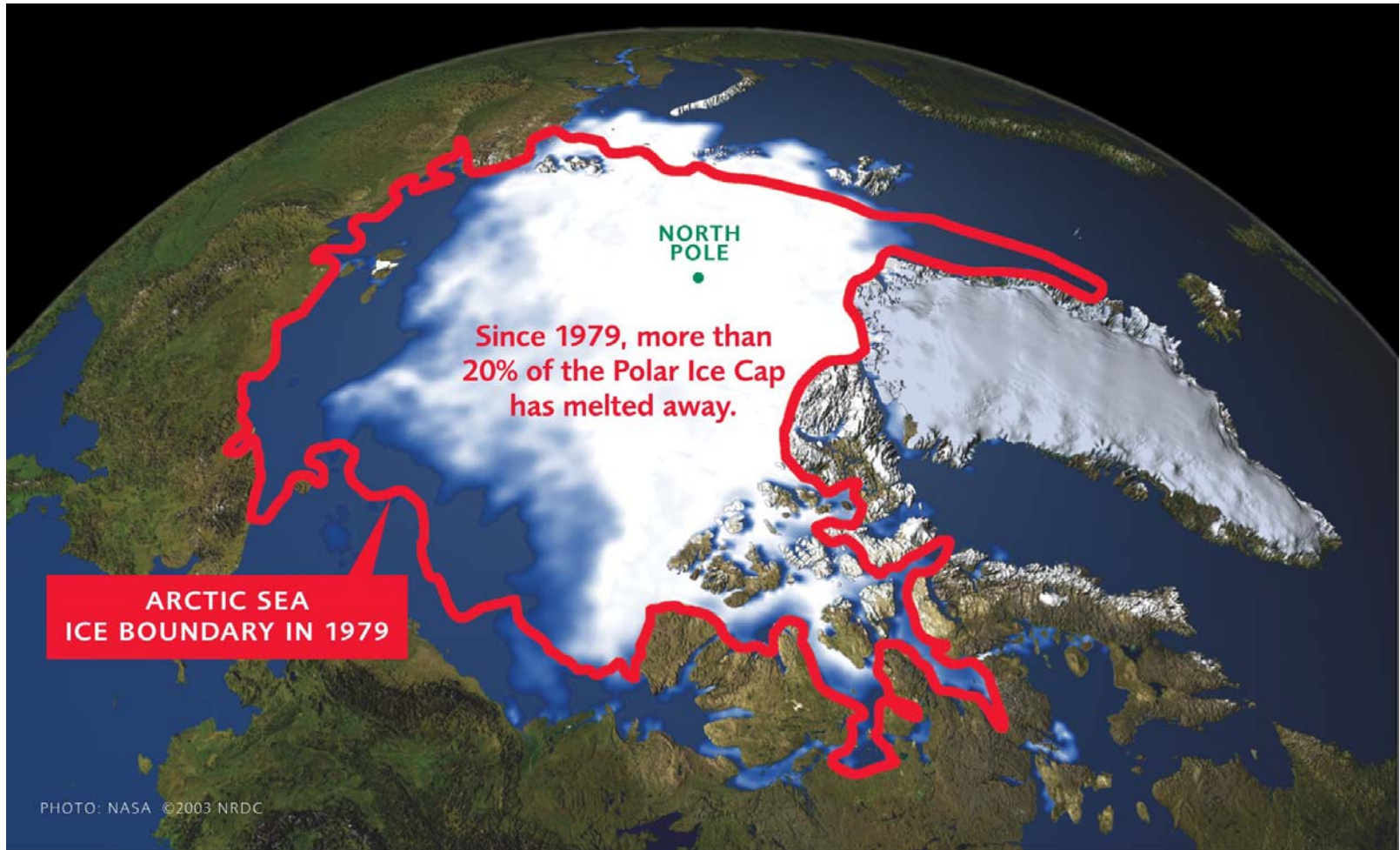
New Scientific Findings

State Action Picks Up Speed

New Business Voices

Senate Consensus for Mandatory Limits

Arctic ice cap is shrinking



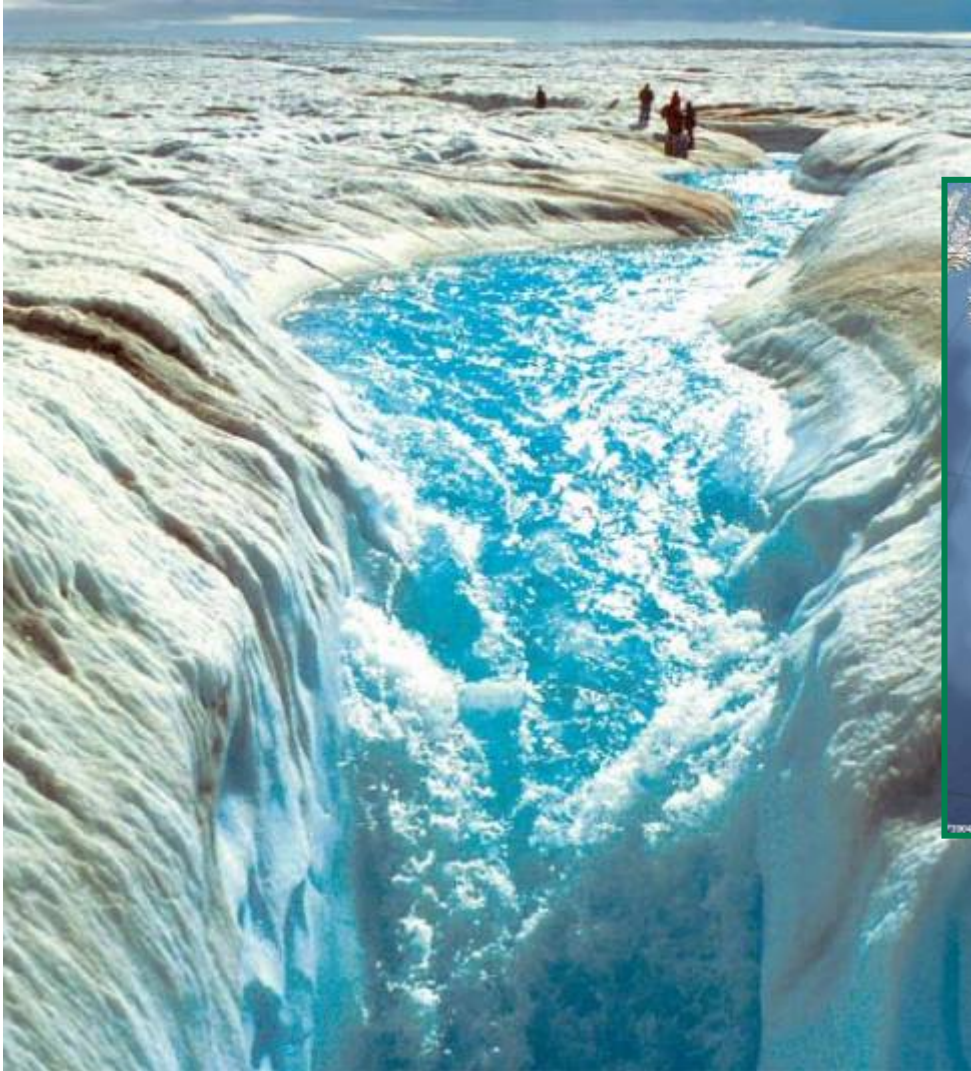
Polar bears at risk



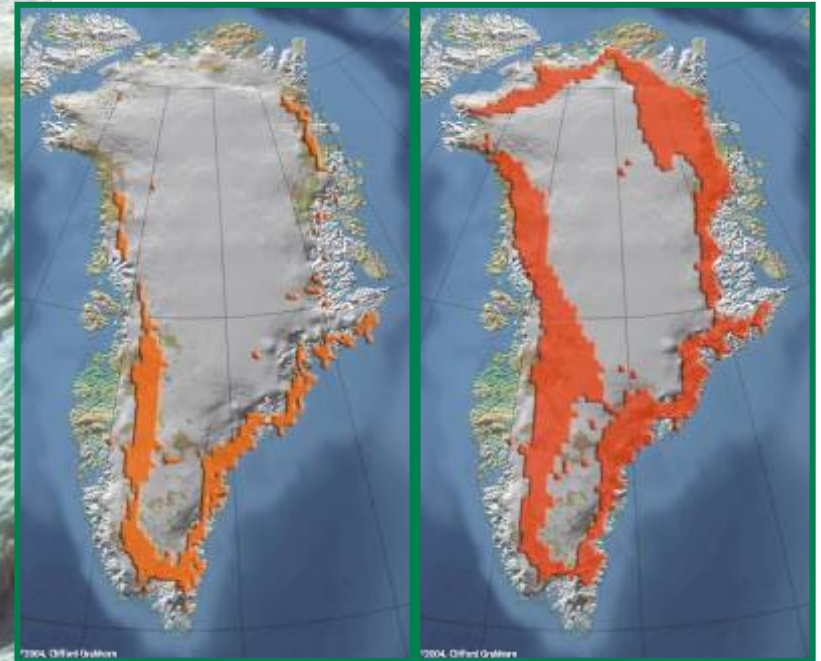
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Glaciers & ice sheets are melting



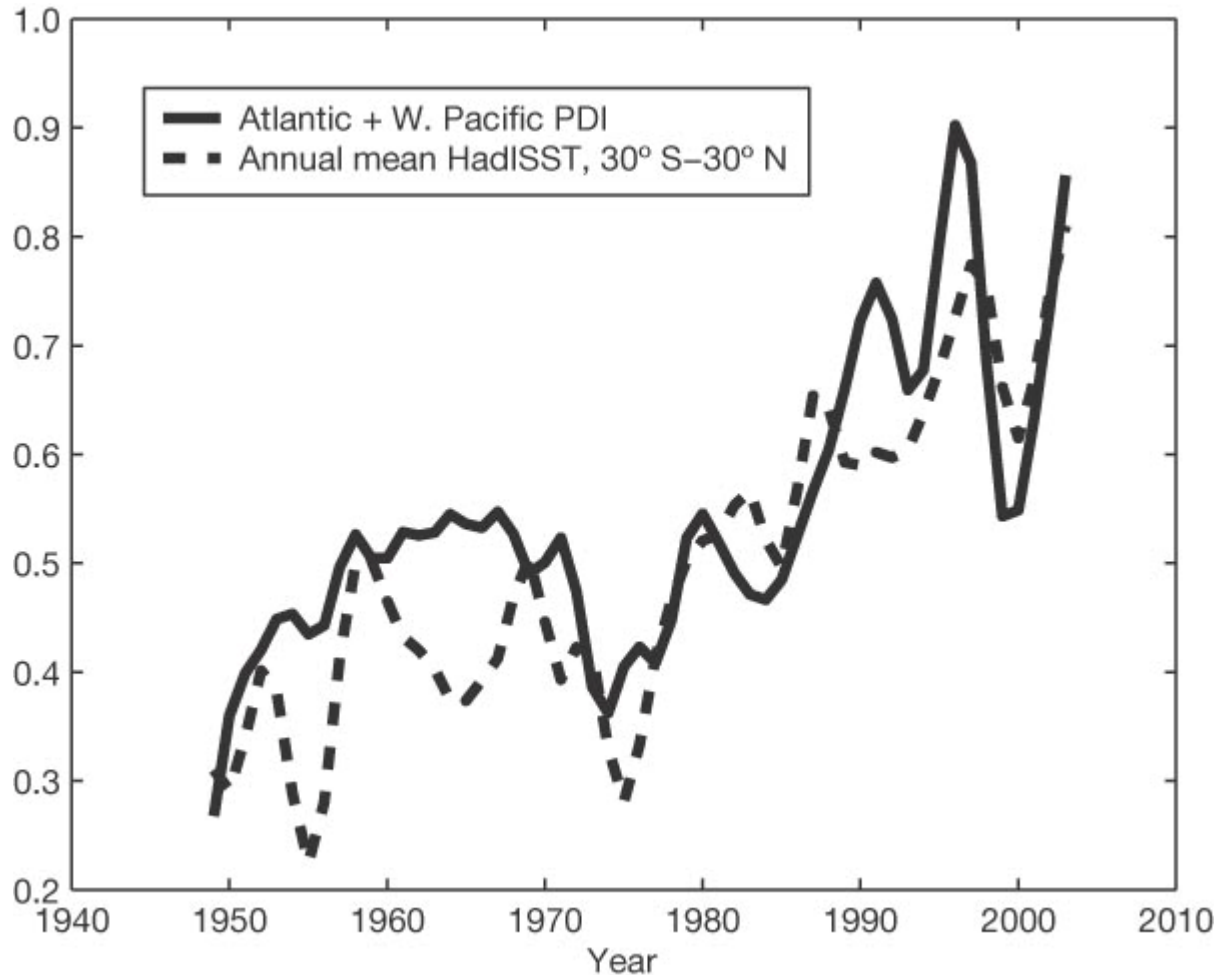
Melt Area



1992

2002

Hurricanes are getting stronger



Kerry Emanuel
Nature 436, 686-688 (4 August 2005)

Naysayer claims have collapsed

Ocean heat accumulation confirms that earth is absorbing more heat than it emits due to excess CO₂ & other gases

J. Hansen et al., *Science* **308**, 1431; published online 28 April 2005

Corrected satellite record matches ground-based temperature record

C.A. Mears and F.J. Wentz, *Science*; published online 11 August 2005

“Hockey-stick” shape of 1000 year temperature reconstruction confirmed by independent scientists

E. R. Wahl and C.M. Ammann, *Climate Change* (2005) (forthcoming).

<http://www.ucar.edu/news/releases/2005/ammann.shtml>

The science debate is over

USA TODAY, June 13, 2005

The debate's over: Globe *is* warming

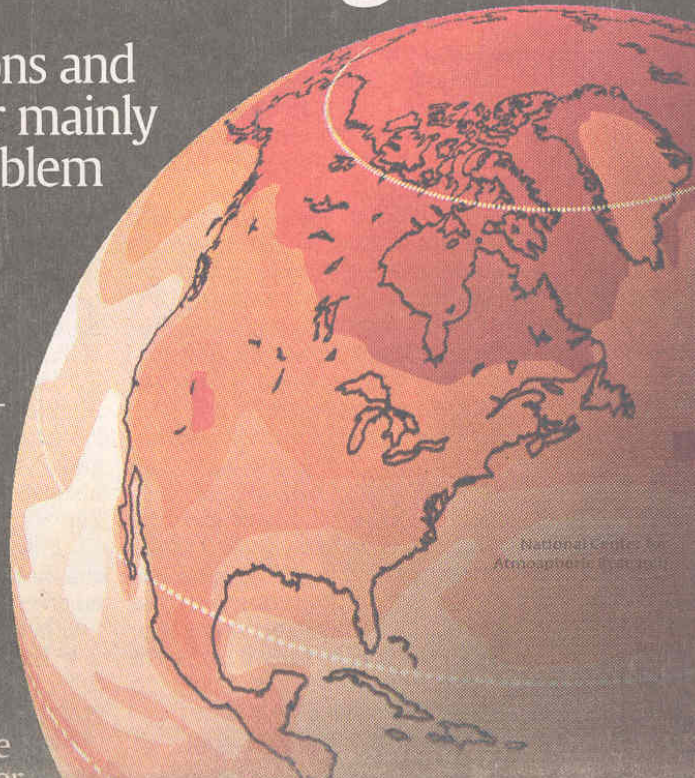
Politicians, corporations and religious groups differ mainly on how to fix the problem

By Dan Vergano
USA TODAY

Don't look now, but the ground has shifted on global warming. After decades of debate over whether the planet is heating and, if so, whose fault it is, divergent groups are joining hands with little fanfare to deal with a problem they say people can no longer avoid.

Cover story

General Electric is the latest big corporate convert; politicians at the state and national level are looking for



Industry leaders joining consensus

John Rowe, CEO of Exelon Corp.: “We accept that the science on global warming is overwhelming.” And: “There should be mandatory carbon constraints.” -- Business Week

American Electric Power, the nation’s largest power company: “Enough is known about the science and environmental impacts of climate change for us to take actions to address its consequences.” -- American Electric Power

Susan Tomasky, AEP CFO: “We don't expect Kyoto timeframes to be enforced in the United States but we do expect the international consensus on this issue will prevail in the United States.”

Wayne Brunetti, CEO of Xcel Energy: “Give us a date, tell us how much we need to cut, give us the flexibility to meet the goals, and we’ll get it done.” -- Business Week

Consensus is spreading

Paul Anderson, Duke Energy CEO: “We have great faith in American innovation... Set the right goals, and Americans can – and will – lead the way... I'm troubled that our international competitors – motivated by mandatory emissions reductions – have gotten a head start.” -- Charlotte Business Journal's 10th Annual Power Breakfast, April 2005

Jeffrey Immelt, GE CEO: “I know that protecting our environment and building our economy go hand in hand. And I know that green is green.” -- Speech launching Ecomagination, May 2005

World Economic Forum (including CEOs/Presidents of Ford, Cinergy, Rio Tinto and BP): “Because of the cumulative nature and long residence time of greenhouse gases in the atmosphere, action must be initiated now... With properly designed programs and incentives, we can unleash the power of the market to accelerate the deployment of low carbon technologies, engaging both producers and consumers alike.” -- WEF, June 2005

California clean car standards

Requires 29% reduction in global warming pollution per mile by 2016

Technologies pay for themselves in <5 years

Other states can opt in ... 10 so far

Message to Detroit: Innovate, don't litigate



Eastern and western power plant initiatives

9 States – Maine to Delaware

California and western state initiatives

Regional cap and trade programs to reduce power plant carbon dioxide emissions

Other states can opt in

Message to Washington:

We can do this



Partnerships with states



Power plant litigation

- Federal common law case to limit CO₂ emissions of top five companies (on appeal)

Vehicle advocacy and litigation

- Helping defend California's vehicle standards against auto company litigation
- Working for adoption in other states

Holding industry accountable

Blocking new conventional coal plants

- >100 new coal plants on drawing boards
- Broad national coalition forming to oppose conventional coal plants
- Meeting energy needs with efficiency, renewables, and cleaner coal (IGCC with carbon capture and storage)

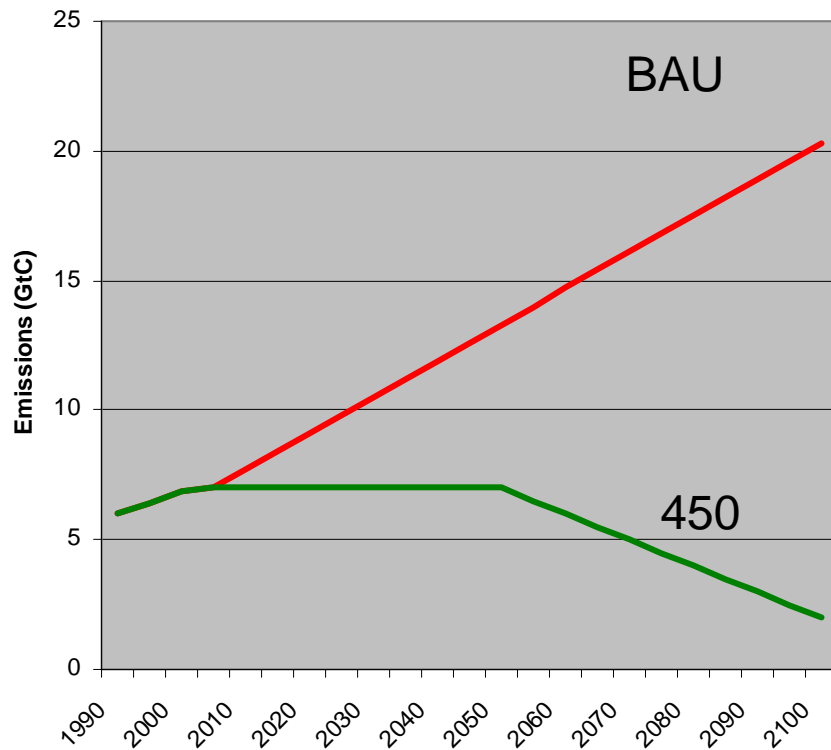


But action is urgent

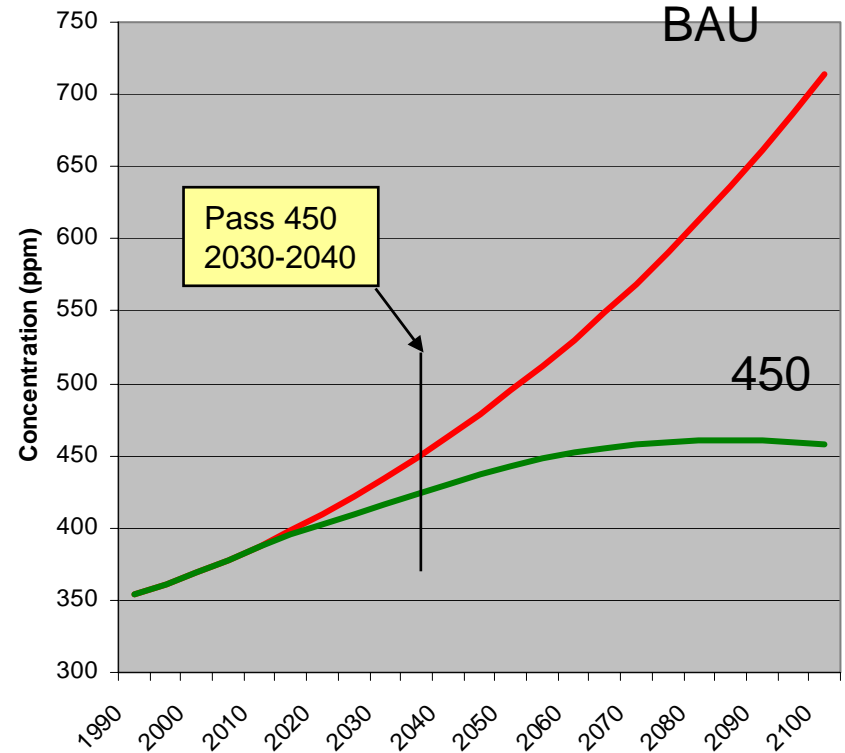


We must bend the curve ... soon

Carbon emissions



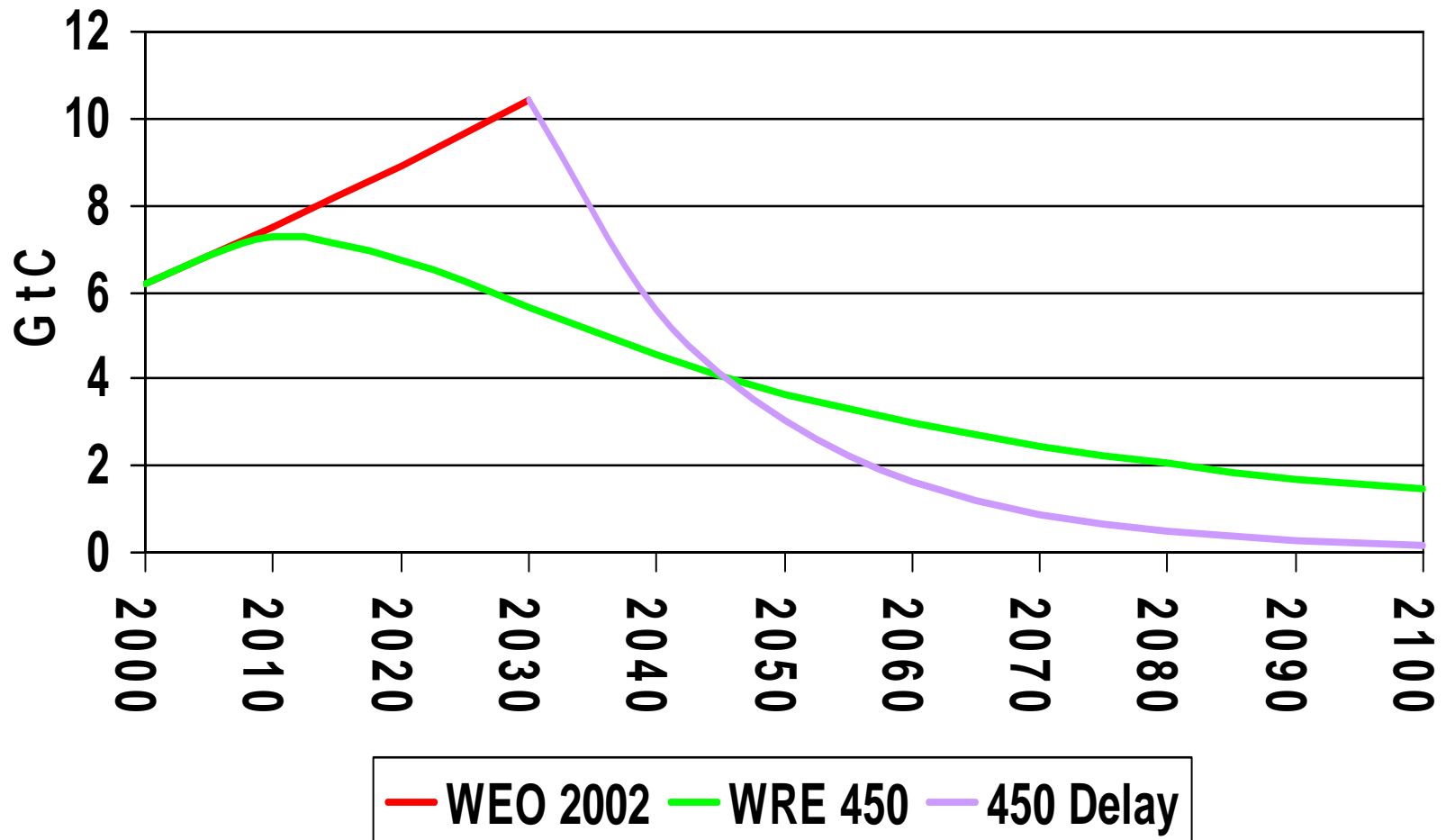
CO₂ concentration



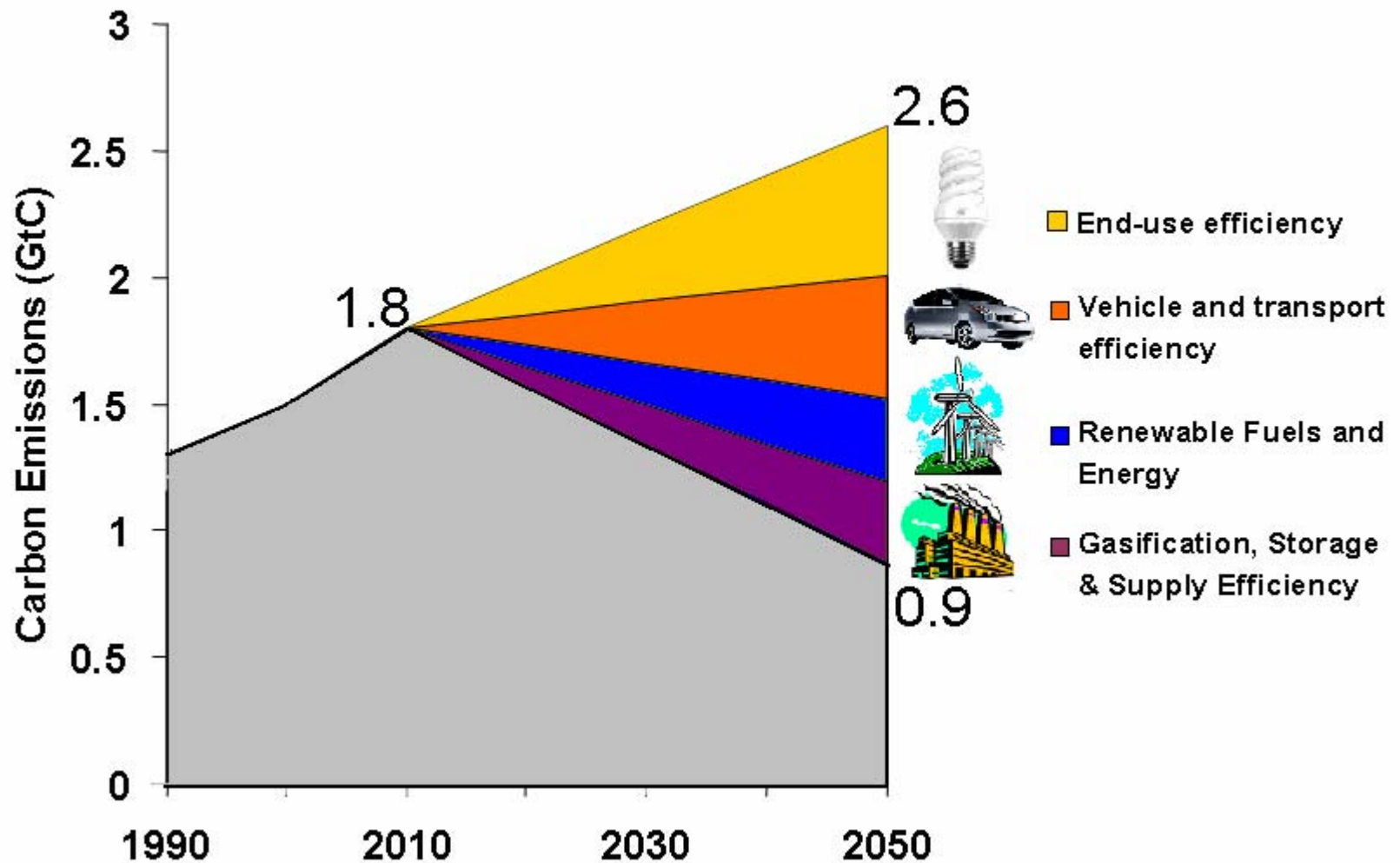
Global Emissions

Slow start means crash finish

Energy Carbon Emissions



How to cut global warming emissions by half



Signs of change in Washington

Senate majority supports mandatory limits

SENSE OF THE SENATE.—It is the sense of the Senate that Congress should enact a comprehensive and effective national program of mandatory, market-based limits and incentives on emissions of greenhouse gases that slow, stop, and reverse the growth of such emissions at a rate and in a manner that—

- (1) will not significantly harm the United States economy;
and
- (2) will encourage comparable action by other nations that are major trading partners and key contributors to global emissions.

Passed 53-46, June 21, 2005.

New possibilities



Renewed effort by McCain and Lieberman

Bingaman-Domenici/NCEP process

Members views are shifting

“I have come to accept that something is happening with the Earth’s climate. I am looking for a solution, but I am not going to join the crowd that thinks it will be simple, [or] that thinks Kyoto was the solution...So we’ve got to talk about something else.”

Sen. Domenici, Chair, Senate Energy Committee

A grand bargain is possible



Formula for success:

A clear, binding, long-term path for U.S. global warming emissions

coupled with

Investments to deploy domestic energy resources that enhance security, grow the economy, and reduce global warming

Global warming won't wait. Will we?

