









Climate Change Policy: Overview

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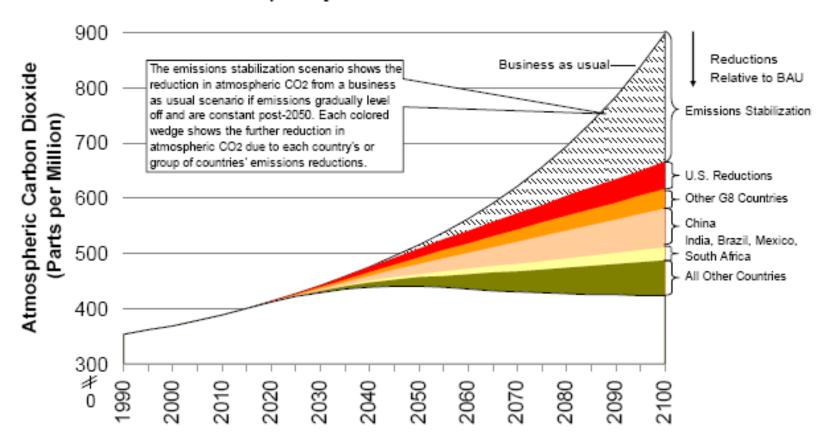








Figure 1. The Impact of Fossil Fuel CO₂ Emissions Reductions of 2% per Year for 40 Years, with a 10 Year Delay in Implementation for Non-G8 Countries.



Note: The hatched segment in Figure 1 depicts the predicted incremental reduction in atmospheric CO_2 concentrations relative to the BAU scenario, due to emissions stabilization post-2050. Each colored segment shows depicts additional reductions in atmospheric CO_2 due to emissions reductions in one or more countries.











Chain of events in process

If U.S. is necessary to stimulate global action, then . . .

- First, U.S. states activity puts pressure for federal uniformity, esp. as big emitting states begin to act
- Second, U.S. unilateral action allows constructive debate in U.N.













The U.S. is both changing every day and frozen until 2009

"Changing every day"

- Mandatory state programs growing across country
- Legislature finally serious about legislating
- Bush Administration acknowledging problem

"Frozen until 2009"

- First state programs not slated to start until 2009
- Legislature appears not ready to act until next Congress
- Bush Administration not ready to mandate reductions and does not have power to do so







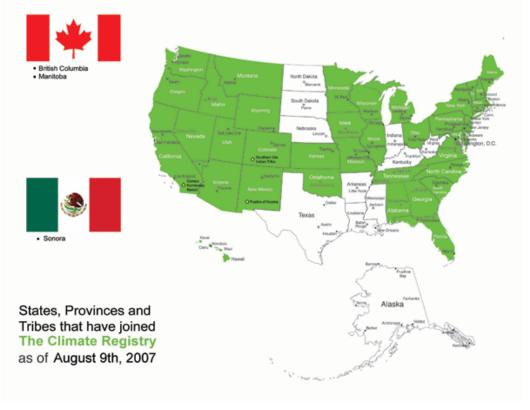






States – The Climate Registry

- May 9: 31 states to develop a common registry of greenhouse gas emissions
- As of August 9, 39 states and 2 Canadian and 1 Mexican providence have joined.















States with Emissions Targets













Movement towards climate policy in the United States since 2001 has been dramatic

- At the outset of the Bush Administration, there was no consensus for action on climate change.
 - The most recent vote on mandatory action, conducted in the context of the Kyoto Protocol in 1997, was 95-0.
 - 2003 Senators McCain and Lieberman get 44 votes for a mandatory proposal
 - 2005 53 U.S. Senators call for mandatory action
- All signs are that the U.S. Congress will create a market in greenhouse gases to secure emissions reductions.













Since January 2007, the "lid is off the bottle"

- Hearings dozens upon dozens of hearings
- Pledges The House and Senate leadership both have pledged to produce climate legislation.
- Supreme Court decision ruling flips the debate with presumption of executive power.
- Presidentials competing for green mantle.
- New constituencies calling for action companies, religious groups, farmers.













Range of proposals and systems

- Lieberman/Warner "hybrid" cap-and trade, with obligation on "downstream" point sources and "upstream" oil refiners
- Bingaman/Specter "upstream" on fossil fuel generators with safety valve.
- Carper utility only
- Dingell Carbon tax
- Dingell/Boucher cap-and-trade



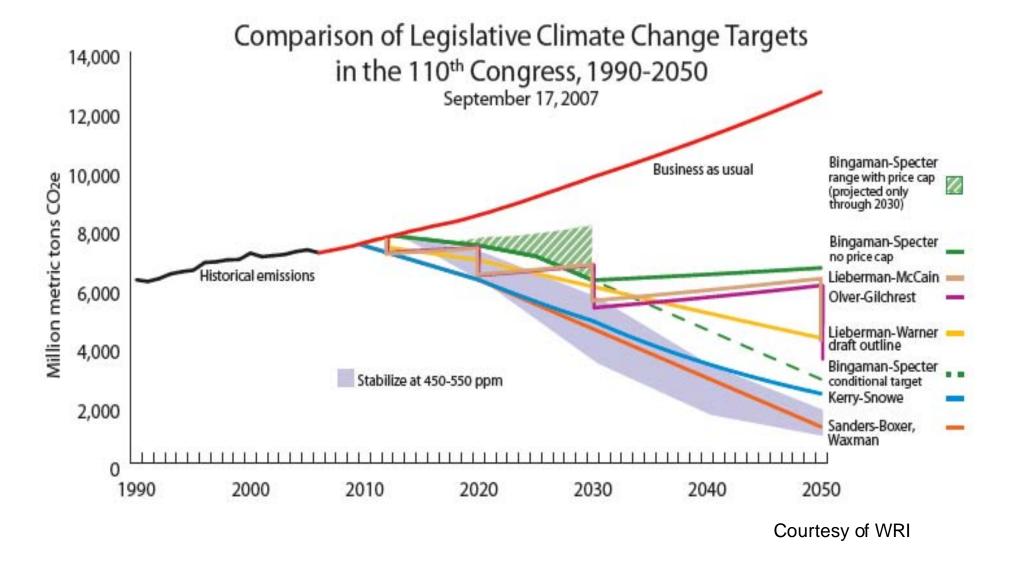










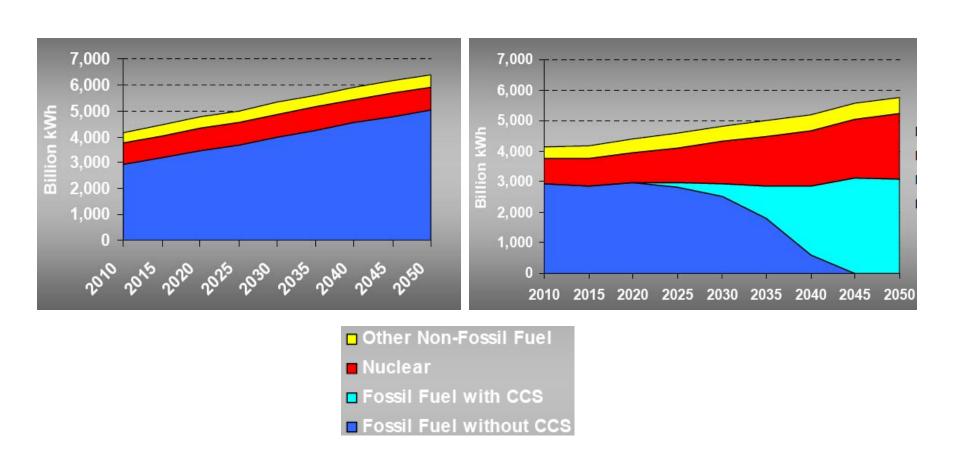


The Senate is the Center of the Debate

- Switch of momentum from House to Senate
- Lieberman/Warner the current moving proposal in the Senate
 - Subcommittee approval last Thursday
 - Full committee before the Bali conference
 - Floor action when?
 - Akin to a Presidential election how do you secure gains in the committee/primary that can still allow the bill to pass the floor/general?

U.S. Electricity Generation: Lieberman/Warner

Baseline Generation Mix Lieberman/Warner Scenario













Yet things are still messy, with many issues to resolve

- Cost containment
- Trade/Competitiveness
- Transportation sector coverage
- Complementary technology programs
- Allocation of allowances
- Offsets
- Harmonization of state programs
- Political credit







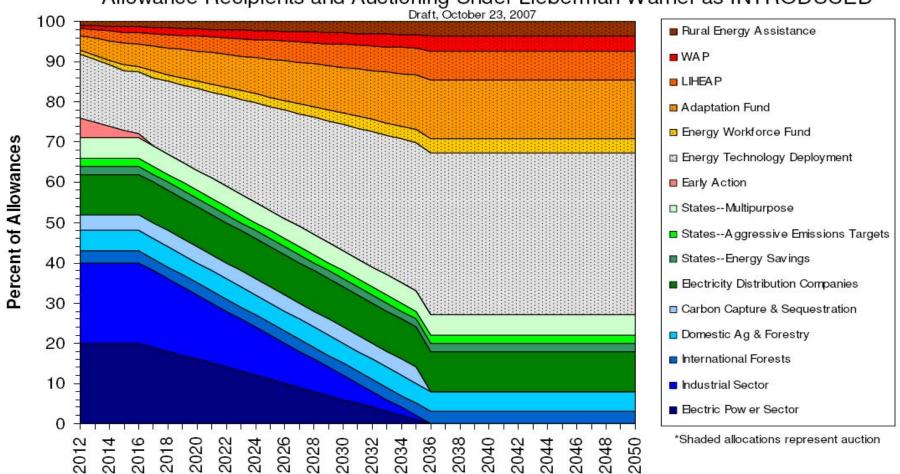






Allocation: No Public Health Purpose

Allowance Recipients and Auctioning Under Lieberman-Warner as INTRODUCED

















- Released agenda on October 31 with 4 major priorities:
 - Ensuring American low-income families do not shoulder a disproprionate financial burden
 - Ensuring disaffected workers are helped to adjust to the new economy
 - Ensuring disaffected communities in the developing world can adapt to climate change.
 - Ensuring that developing countries have the resources for economic developing <u>and</u> reducing greenhouse gases



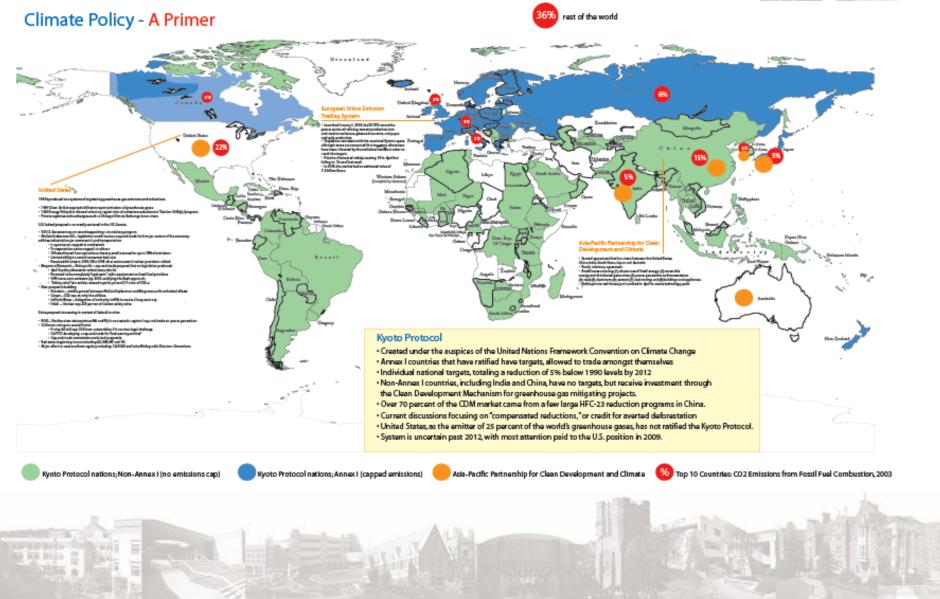






















International Negotiations

- Little chance of a post-Kyoto system until 2009
 - Who will play poker when you don't know who is going to sit at the table?
 - Possible progress on REDD/averted deforestation credited in the U.S. bills
 - Will the U.S. allow post-Kyoto process to go forward?
 - Opposition to international trading in the White House













Thank you.

More information at: www.nicholas.duke.edu/institute



