



MANAGING RISK

DNV

A New Era in Climate Policy in the United States

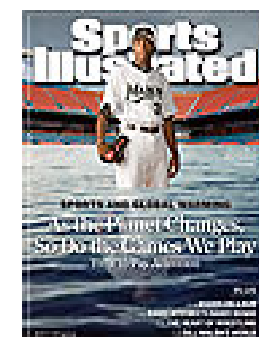
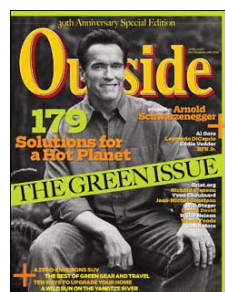


Dr. Mark C. Trexler
Director, Climate Strategies and Markets
DNV Climate Change Services North America

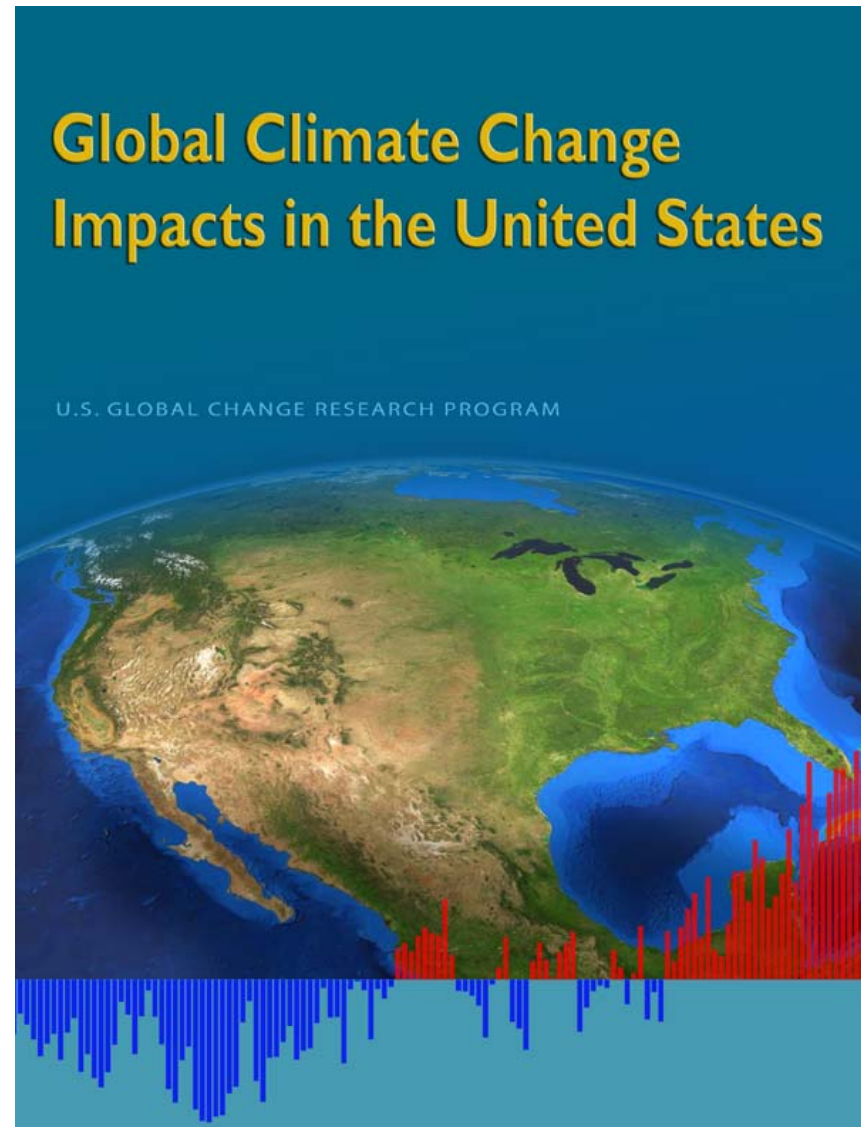
Overview

- Signs of Change
- The Drivers of Change
- Challenges to Change

It Is a New Era

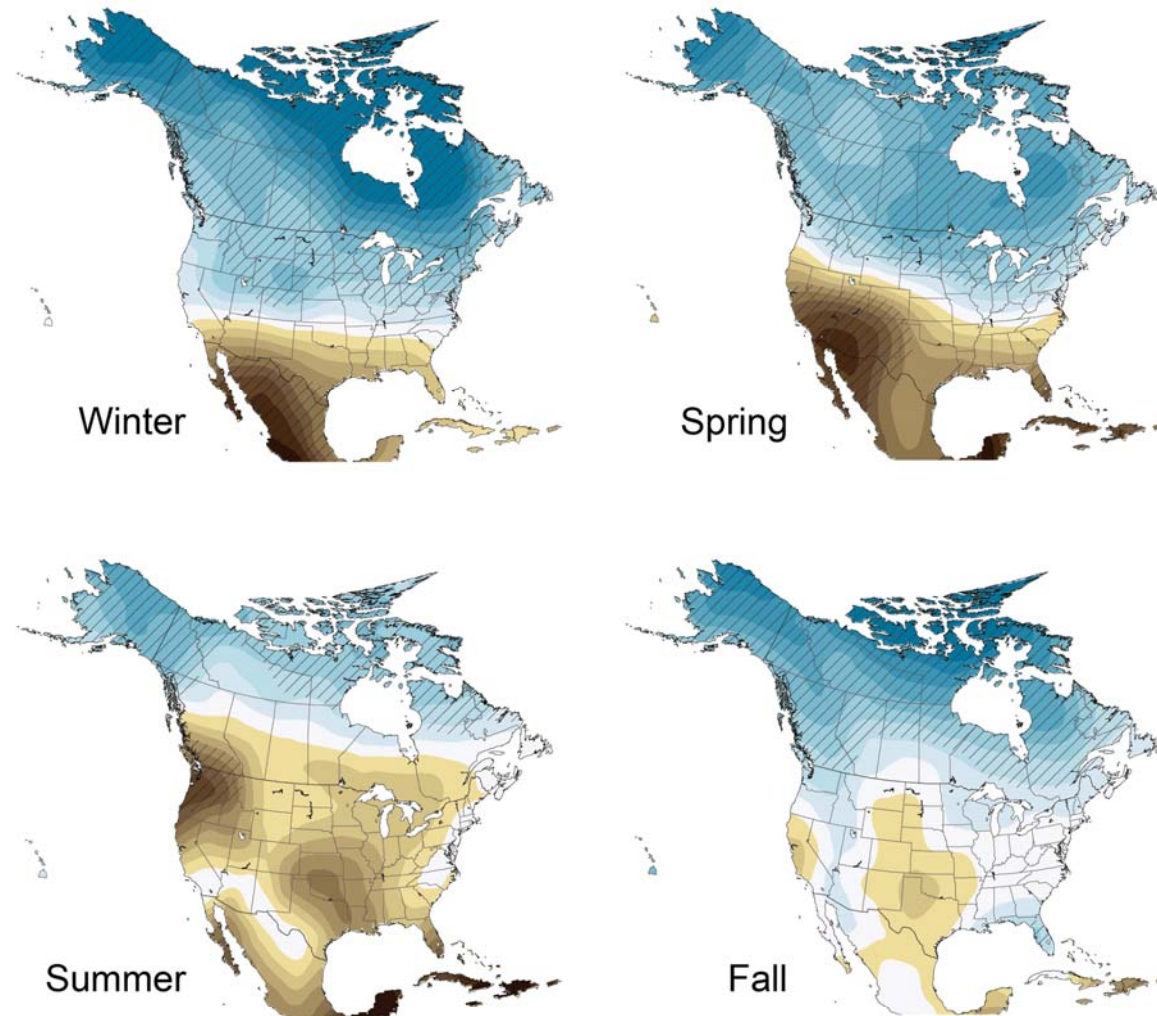


A Signal of the Change

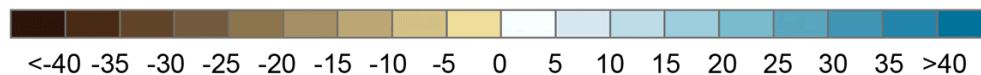


Projected Precipitation Changes

Projected
Change in
Precipitation
by 2080-90s



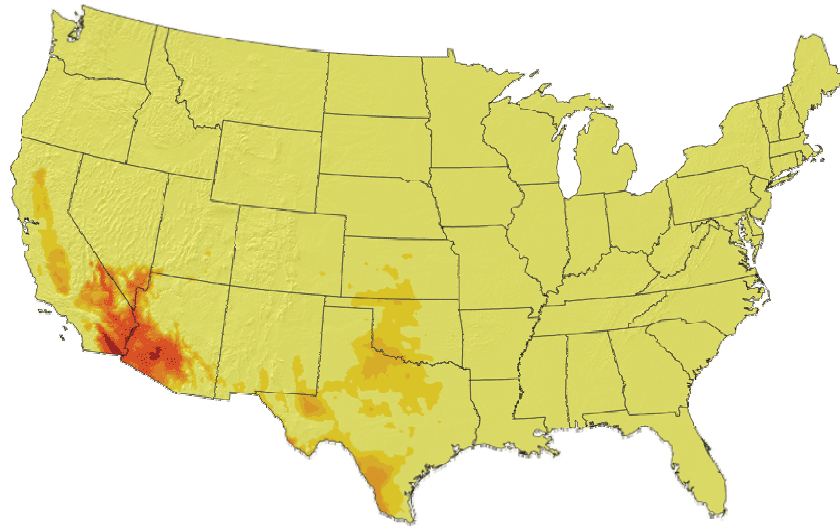
Percent Change



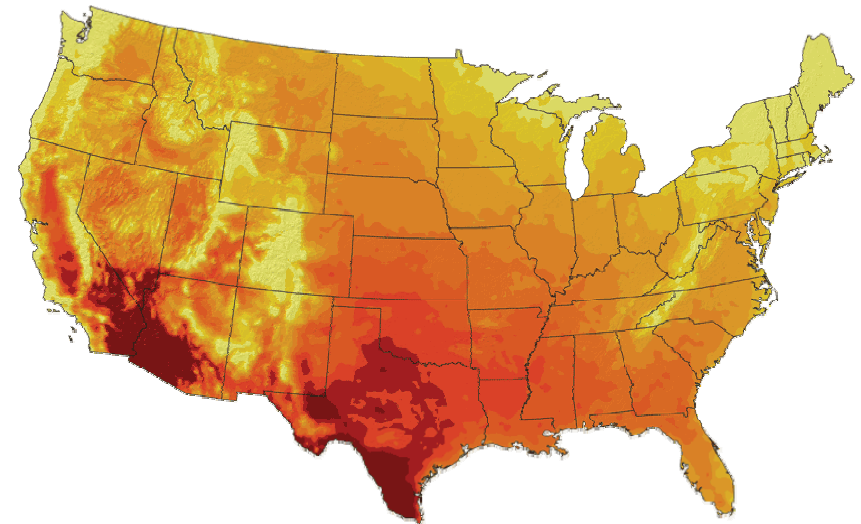
Projected Temperature Impacts

Number of Days Over 100°F

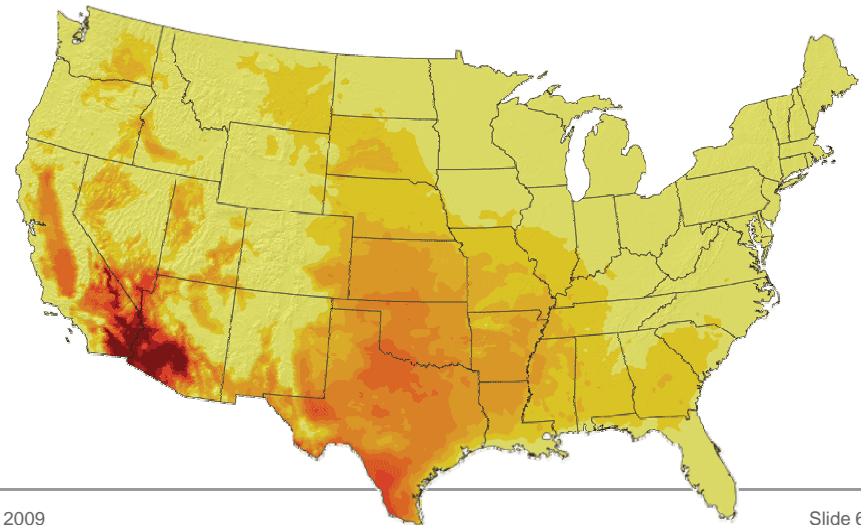
Recent Past, 1961-1979



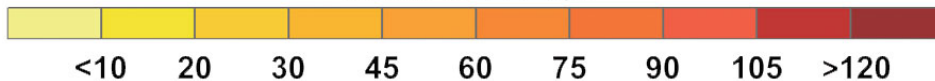
Higher Emissions Scenario, 2080-2099



Lower Emissions Scenario, 2080-2099



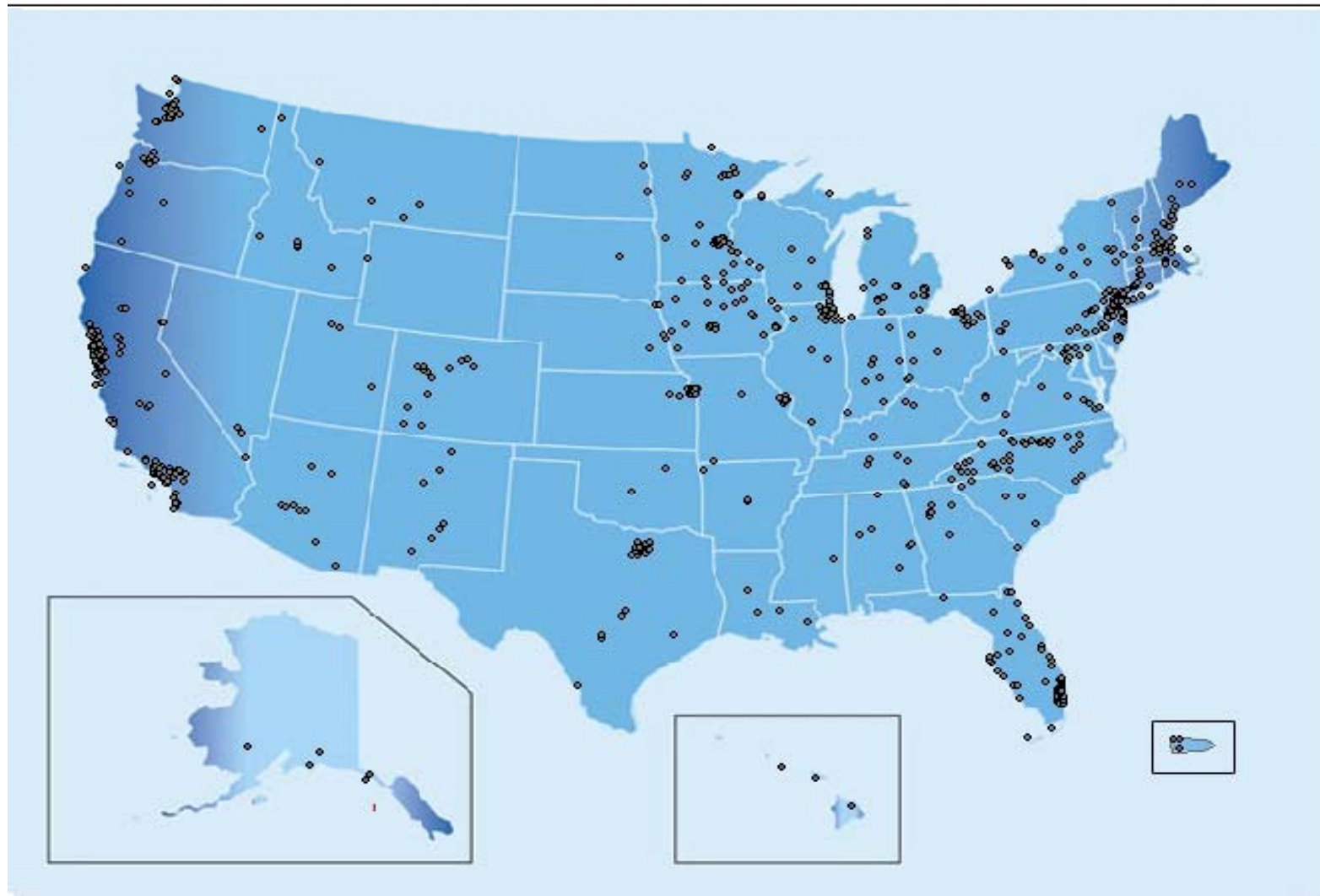
Number of Days



Changes in the Debate

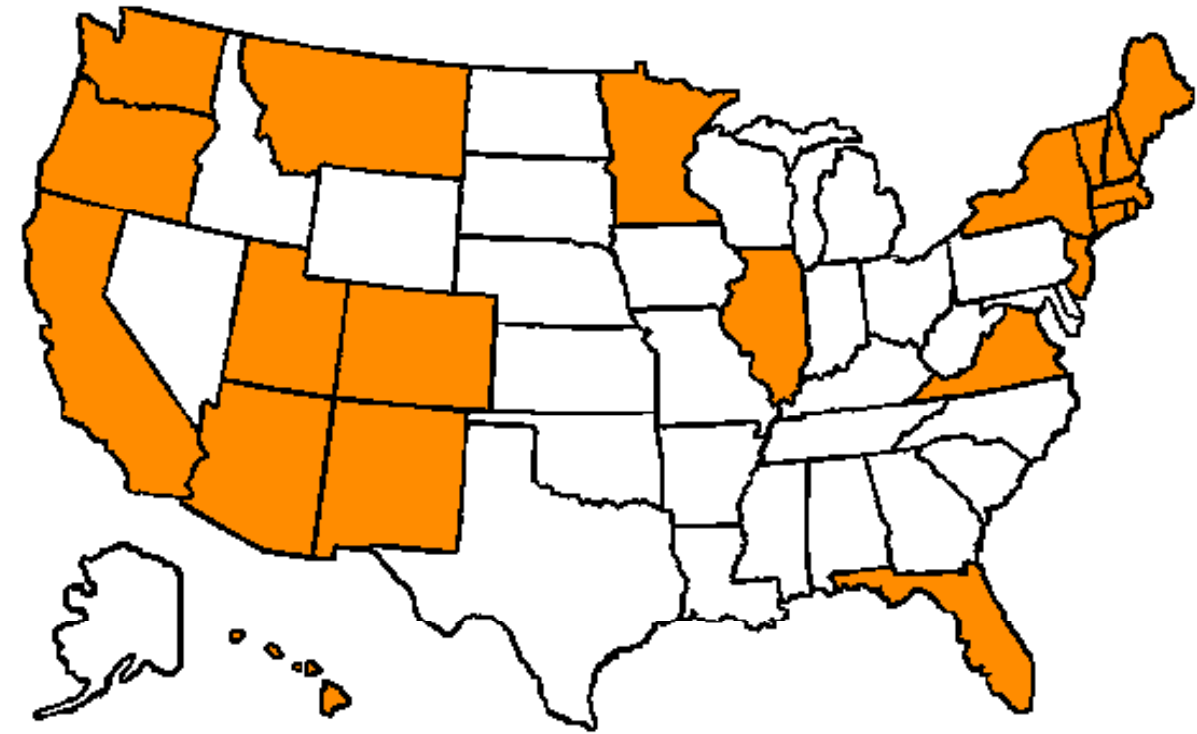
- **Paul Krugman - Betraying the Planet – NY Times Op Ed**
- And as I watched [Waxman Market debate]. . . I couldn't help thinking that I was watching a form of treason — **treason against the planet.**
- [T]he planet is changing faster than even pessimists expected: . . . a rise in temperature so large as to be almost unthinkable — can no longer be considered a mere possibility.
- [W]e're facing a clear and present danger to our way of life. . .
- But if you watched the debate on Friday, what you saw . . . were people who show no sign of being interested in the truth. They don't like the political and policy implications of climate change, so they've decided not to believe in it.
- If there was a defining moment in Friday's debate, the declaration that climate change is nothing but a "hoax" that has been "perpetrated out of the scientific community."
- Still, is it fair to call climate denial a form of treason? Isn't it politics as usual?
- Yes, it is — and that's why it's unforgivable.
- Yet the deniers are choosing, willfully, to ignore that threat, placing future generations of Americans in grave danger, simply because it's in their political interest to pretend that there's nothing to worry about. If that's not betrayal, I don't know what is.

Drivers – Local Mayors



Drivers – State Initiatives

- 21 states have established GHG emissions targets

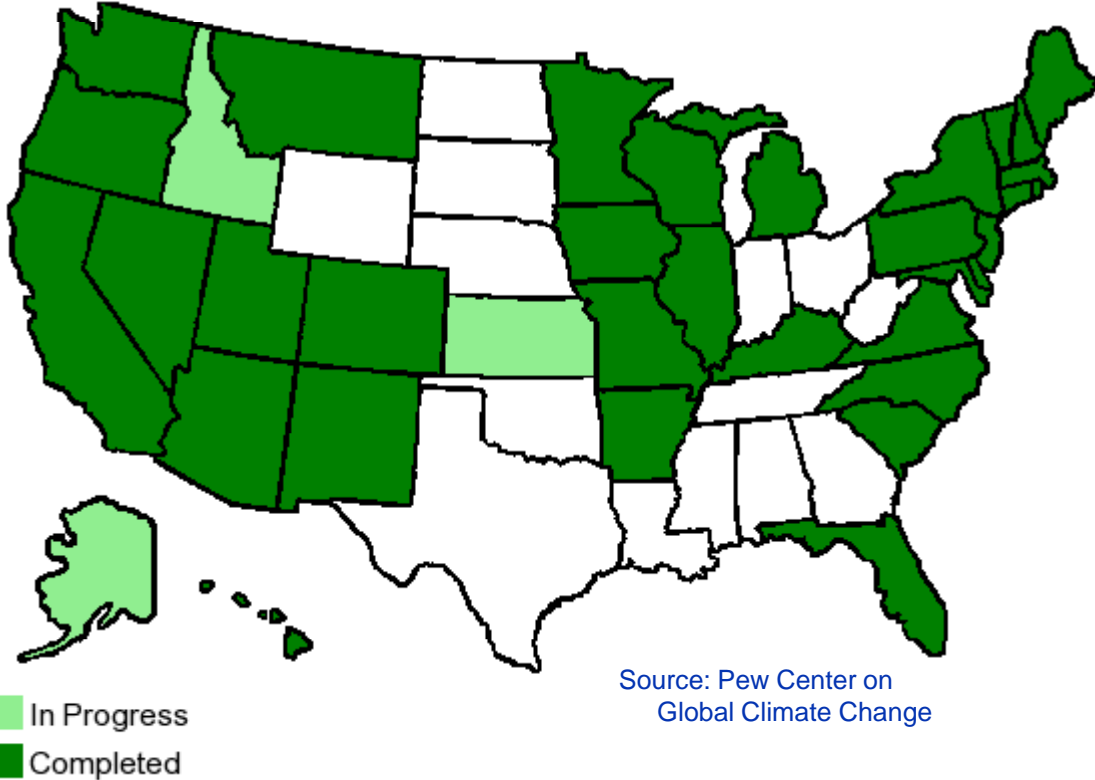


 States with GHG Emissions Targets

Source: Pew Center on Global Climate Change

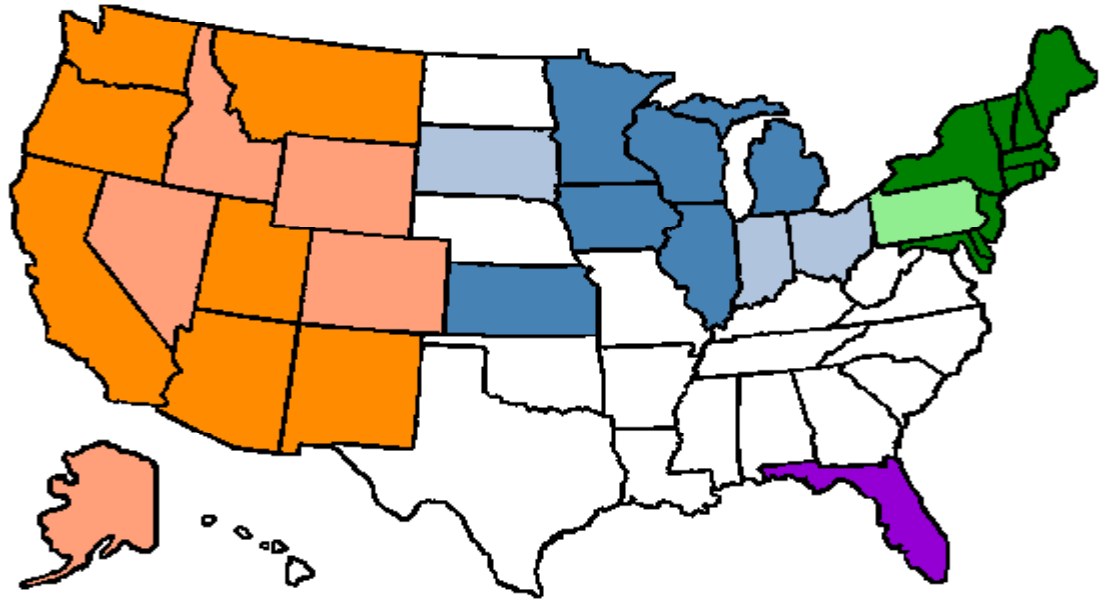
Drivers - State Policy

- 36 states have climate action plans



Drivers – Regional Initiatives

- 3 regional initiatives establishing emissions trading programs



- Regional Greenhouse Gas Initiative RGGI
- RGGI Observer
- Midwest GHG Reduction Accord
- MGGRA Observer
- Western Climate Initiative
- Western Climate Initiative Observer
- Individual State Cap-and-Trade Program

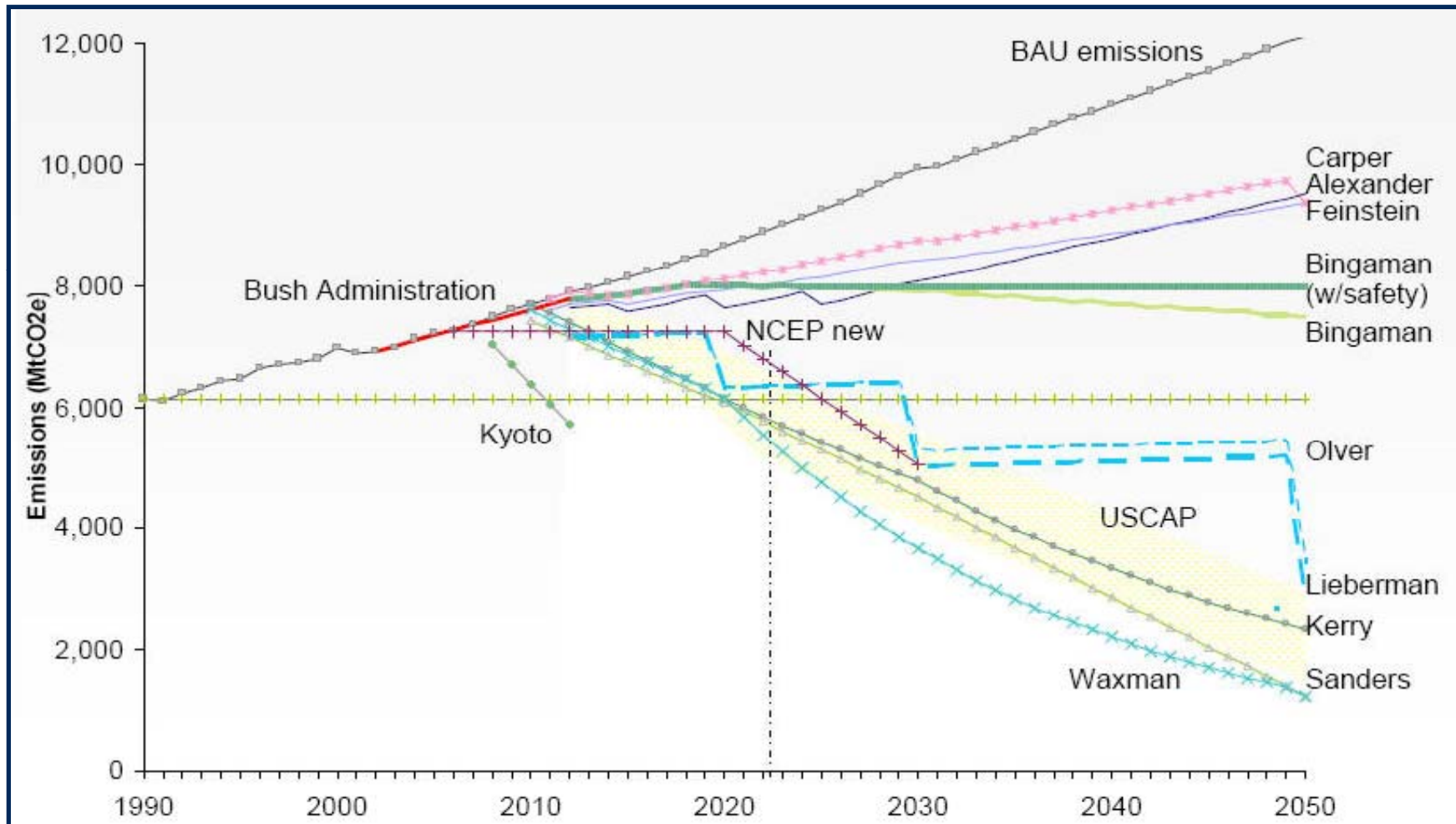
Source: Pew Center on Global Climate Change

Drivers - Federal

- New Administration, New Perspective
- EPA's Endangerment Ruling – Direct Regulation Now Feasible
- International Expectations
- Corporate Pressure – At a Minimum, Looking for Predictability

Where We've Been

Comparison of US 2007 Climate Change Bills: Emissions versus targets

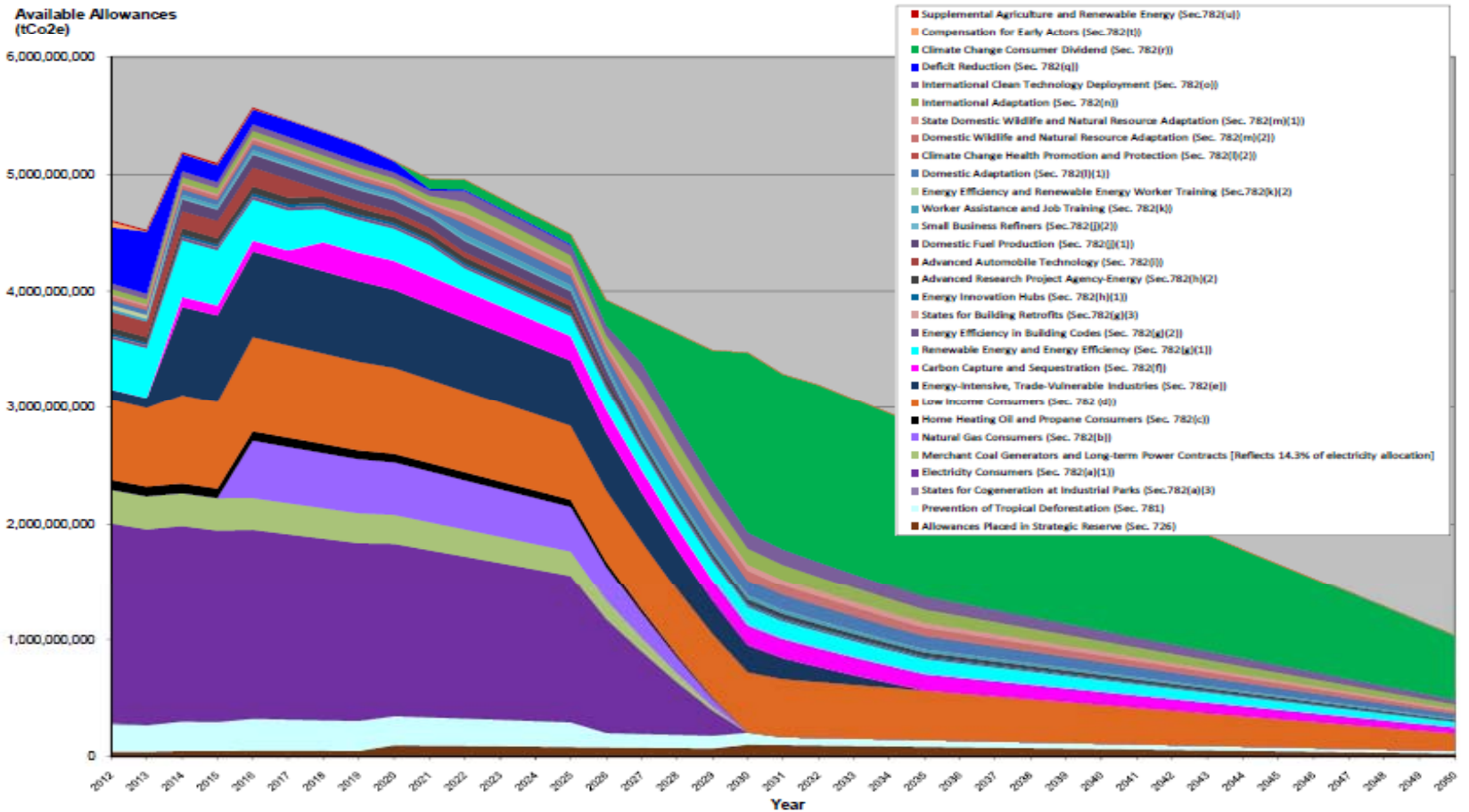


Source: New Carbon Finance. Projections based on EIA and BEA data, and NEF extrapolations

Where We May Be Headed



Distribution of Allowances American Clean Energy and Security Act of 2009 (H.R. 2454 - Waxman-Markey as Passed by U.S. House of Representatives)



- Potential Economic Impacts of Policy?
 - “You run the risk of sending jobs from our country... to other countries that have lower emissions standards” – Senator Bayh
- Senate Resolution Requiring That Climate Bill Does Not Impact Energy Prices
 - EPA estimates 20% electricity and 13% natural gas hike in 2030
- Climate Bill As “Ticket Back To The Majority” For Conservatives, And Playing Up The Cap-and-**tax** Rhetoric
- Weakening the Policy to Make it Politically Acceptable?

Challenges - Basic Issue Politics

Global Warming a Low Policy Priority

Percent rating each as a "top priority" (Jan. 2008)

<u>Republicans</u>		<u>Democrats</u>		<u>Independents</u>	
Job situation	43	Global warming	47	Middle class taxes	44
Government ethics*	42	Morality	44	Government ethics*	42
Environment	39	Illegal immigration	43	Morality	39
Global trade	37	Tax cuts	37	Global warming	38
Problems of poor	34	Global trade	37	Global trade	38
Insuring the uninsured	27	Military	37	Military	34
Global warming	12	Government ethics*	36	Tax cuts	31

* Reducing the influence of lobbyists and special interests in Washington

Global Warming: How Serious a Problem?

	<u>Total</u>	<u>Rep</u>	<u>Dem</u>	<u>Ind</u>
	%	%	%	%
Very serious	44	22	57	46
Somewhat serious	29	29	28	29
Not too serious	13	24	7	12
Not a problem	11	23	5	9
Don't know	3	2	3	4
	100	100	100	100

Number of respondents 1502 412 521 462

U.S. Policymakers

Poll Respondents

SOURCE: PEW RESEARCH CENTER

Pushing a New Era in U.S.

Local and State Initiatives **Consumer Behaviors and Pressure**

Corporate Initiatives and Pressure **Copenhagen COP/MOP**
Scientific/Political Concern

Putting a Price on Carbon **Regional Cooperation in North America**

Technology Breakthroughs?

Safeguarding life, property and the environment

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Does Blood Type Pose Risk for our Children?

By:

[Mark Perloe](#)

Question :

I'm planning on getting pregnant soon. However, my husband and I are the same blood type: A positive. Someone told me that our having the same type of blood will cause the baby to be defective. Is this true? If so, is there treatment for it?

A.C.

Answer :

There is absolutely no risk to sharing the same blood type. The pregnancy risk normally associated with blood type has to do not with the ABO factor (the letter designation in blood type) but with the Rh factor (the "positive" or "negative" designation). A woman who is Rh negative may develop antibodies to her baby's blood if the father -- and thus the baby -- is Rh positive. Untreated, these antibodies can attack the blood cells of the fetus. This is easily prevented with an injection of a substance called RhoGAM that blocks the formation of these antibodies in the mother. In rare cases, an intrauterine blood transfusion may be necessary. Blood testing and RhoGAM shots (when

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necessary) are a standard part of prenatal care.

We often recommend pre-pregnancy screening for Rh and other, rarer abnormal blood antibodies that may affect a pregnancy. Testing the man is necessary only if the woman's test reveals abnormal antibodies. Luckily, the presence of antibodies that can cross the placenta and attack the baby are quite rare. If you do have such antibodies, or if you have had a prior pregnancy in which hemolytic disease (in which antibodies attack the fetus) occurred, then you and your husband may want to consider using donor sperm to avoid this risk to the fetus.



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