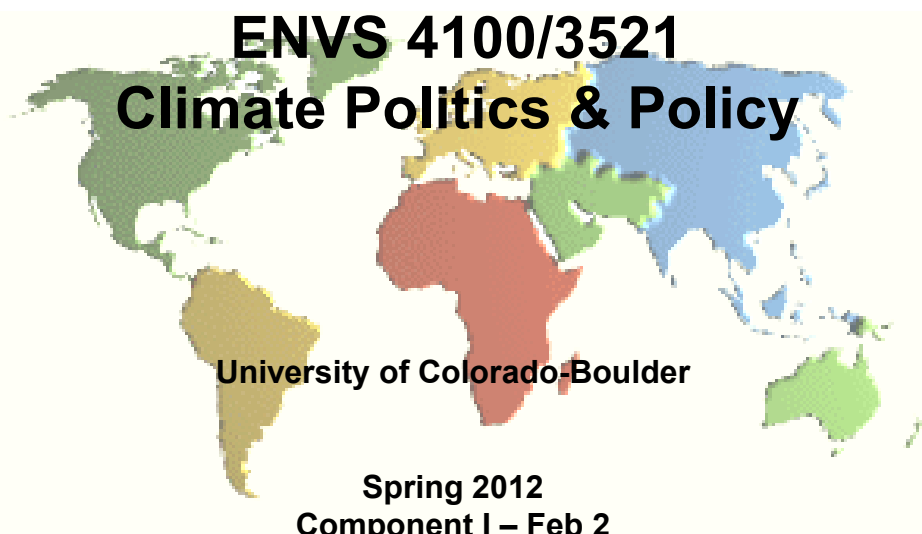


ENVS 4100/3521 Climate Politics & Policy



University of Colorado-Boulder

Spring 2012
Component I – Feb 2



BREAKING NEWS

News > Weather > United States

Punxsutawney Phil sees his shadow at Groundhog Day ceremony

Weather prognosticating groundhog predicts six more weeks of winter, but with mild weather so far, that might not be a bad thing

Associated Press
guardian.co.uk, Thursday 2 February 2012 08:59 EST
Article history



Groundhog Club handler John Griffiths holds Punxsutawney Phil, the weather prognosticating groundhog, during the 126th celebration of Groundhog Day. Photograph: Gene J. Puskar/AP

Pennsylvania's Punxsutawney Phil has emerged from his lair to see his shadow, in the process predicting six more weeks of winter.

Tweet (6)
Recommend (16)
reddit this
Comments (1)

larger | smaller

Weather
United States
World news
Pennsylvania - United States
More news

More on this story

Severe cold weather alert is issued for England
Met Office issues level-three weather warning as well as health risk alert for vulnerable people after temperatures fall to -4C

Utilitarianism [revisited]



ATTRIBUTES

- anthropocentric
- management of natural world in the name of progress
- technocentric
- can be a conservationist approach
- outcomes over process
- view of market system: efficient allocation of goods and services

IMPLICATIONS

- use of cost-benefit analyses (CBA)
- well-being is quantifiable: social welfare function
- distribution blind
- favors market systems
- basis for **efficiency standard** and efficiency approaches

carbon-based industry & society



Revkin (1992)

The Anthropocene Era
~ Crutzen & Stoermer

The 'Hydrocarbon Man'
~ Apenzeller

The 'Greenhouse Century'
~ Schneider

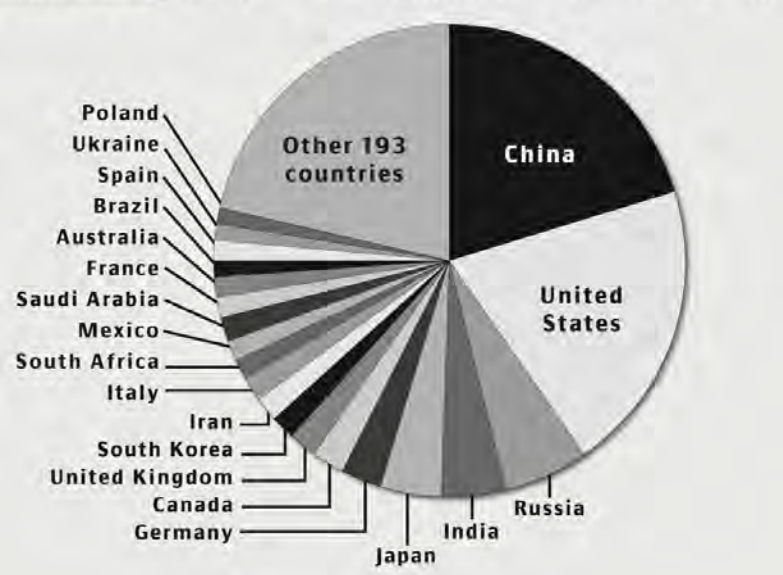
Energy, Population,
Consumption and
Inequality



Revkin (1992)

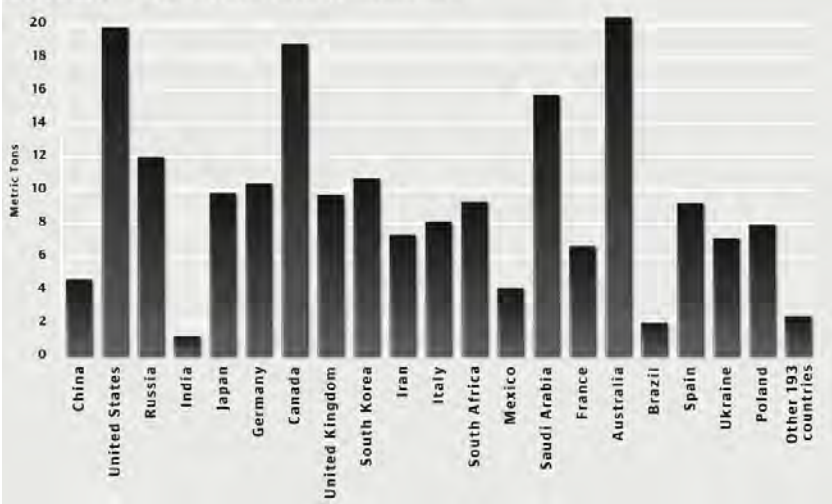
in Pielke, Jr. (2010) 'The Climate Fix'  

FIGURE 4.1 Global Carbon Dioxide Emissions 2006



in Pielke, Jr. (2010) 'The Climate Fix'  

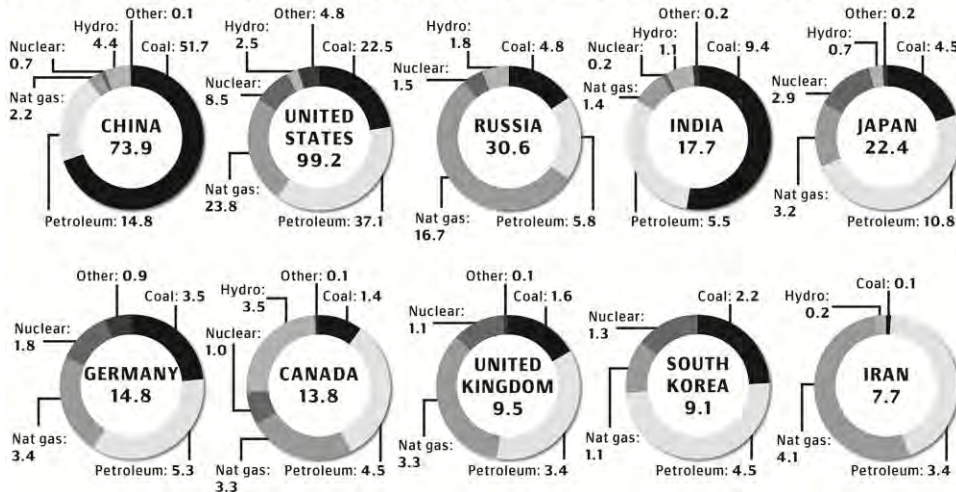
FIGURE 4.10 Per Capita Carbon Dioxide Emissions 2006



in Pielke, Jr. (2010) 'The Climate Fix'



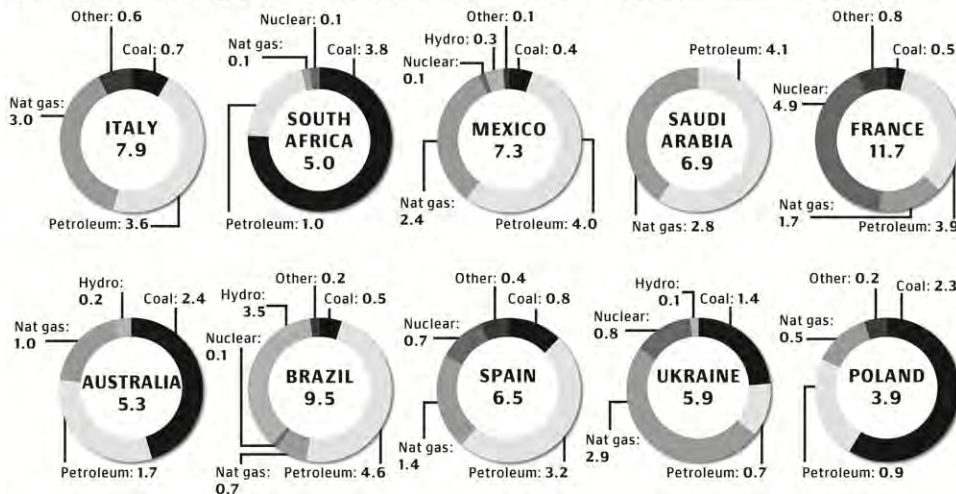
FIGURE 4.11 Breakdown of energy consumption (quads), top 1-10 global emitters of carbon dioxide



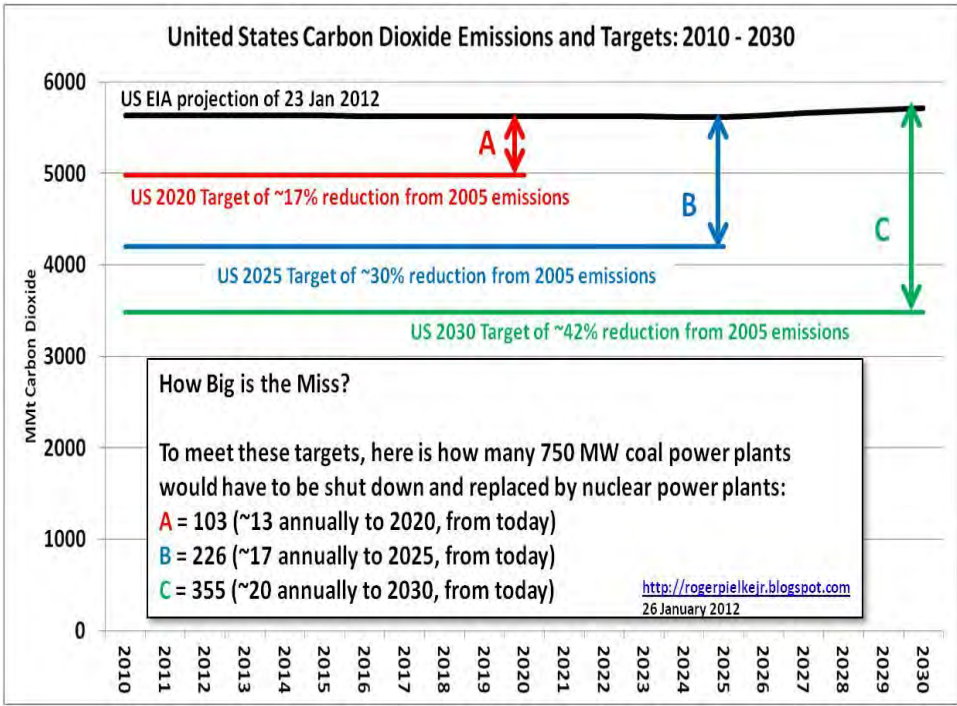
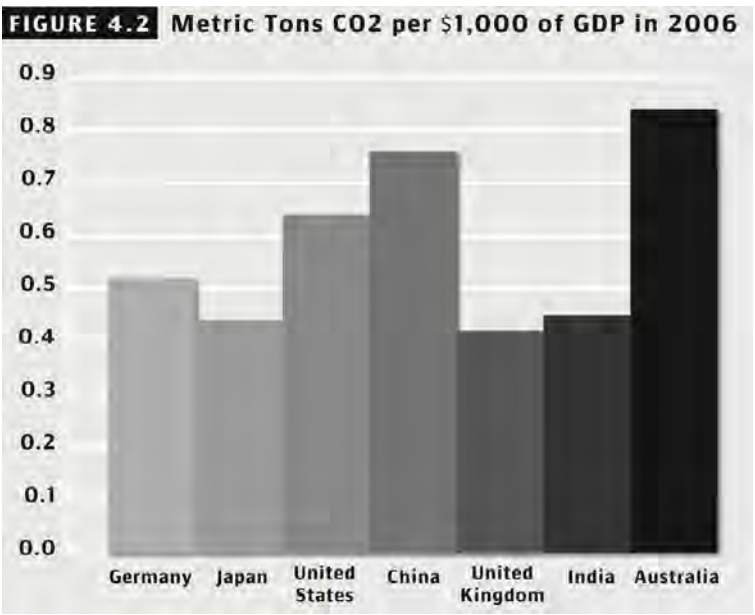
in Pielke, Jr. (2010) 'The Climate Fix'



FIGURE 4.12 Breakdown of energy consumption (quads), top 11-20 global emitters of carbon dioxide



in Pielke, Jr. (2010) 'The Climate Fix'



the Kaya identity



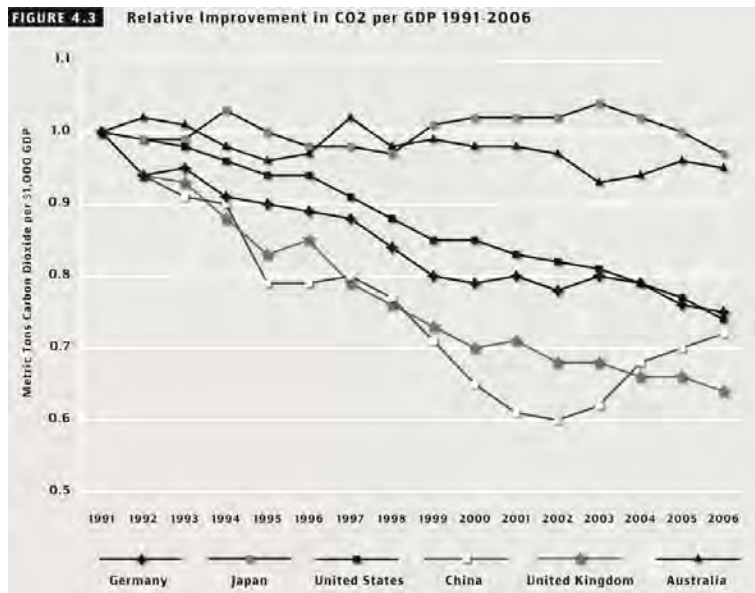
- elements shaping human impact on climate by way of CO₂ emissions
- developed by Japanese economist Yoichi Kaya
- distilled to 2 main considerations:
 - consumption (noted by GDP per capita)
 - energy use (noted by carbon intensity of energy)

$$\text{global anthropogenic CO}_2 \text{ emissions} = P \times G \times E \times F$$

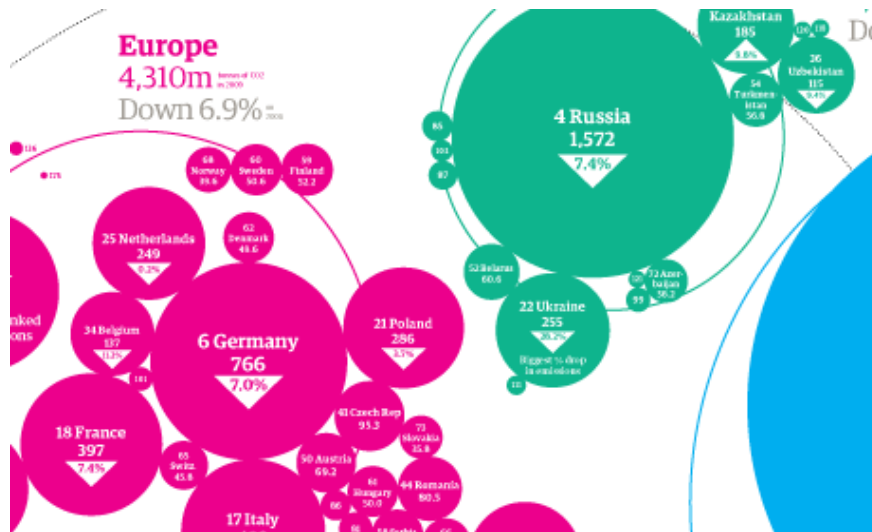
P = global population E = global energy consumption
 G = world GDP F = carbon intensity of energy

...a case for innovation policy & decarbonization

in Pielke, Jr. (2010) 'The Climate Fix'



An Atlas of CO₂ Pollution



energy information administration (2011)

top themes in today's readings



Hulme – Chapter 4 *The Endowment of Value*

- 4.1 *economic applications to climate policy decisions*
 - measures of welfare
 - cost-benefit analyses (CBA)
 - discounting the future
 - uncertainty, risk and precaution
- 4.3 *The Stern Review and its Critics*
 - e.g. “discount rate too low”...climate policy considerations need to be more closely tied to markets – William Nordhaus
 - e.g. “The Stern authors maintain allegiance to an economic orthodoxy which perpetuates the dominant political myth that traditional economic growth can be both sustained and answer all of our problems” – Clive Spash

Economies must grow for the climate change fight

The "climate problem" suffers from a more powerful and enduring force: economic stagnation

Maxwell Boykoff
guardian.co.uk, Monday 16 January 2012 03:00 EST

[A larger](#) | [smaller](#)
[Article history](#)



The "climate problem" suffers from a more powerful and enduring force: economic stagnation. Photograph: Bei Feng/EPA

These days, dormant climate policy in Washington DC is like Mitt Romney's coiffure: seemingly no prospects for change. And, with the 2012 US presidential election on the

**debate:
economic
growth
&
climate
policy
action**

SESSION TUESDAY, FEBRUARY 7



GUEST LECTURE

Jessica Weinkle – climate change & disasters: signals & noise?

A CASE-STUDY AT THE HUMAN-ENVIRONMENT INTERFACE & ENROLLING POST-NORMAL SCIENCE

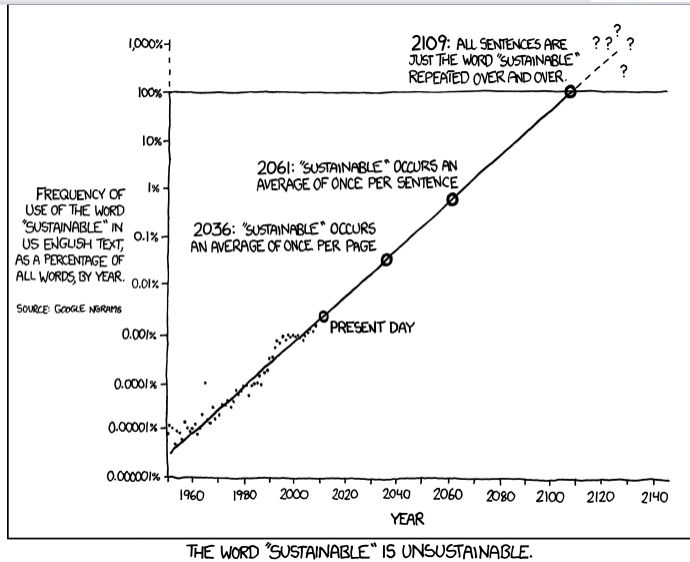
“intended to provide guidance through the new perplexities of the uncertainties, value-loadings, and commitments that characterize contemporary policy-related science”
~ Silvio Funtawicz and Jerry Ravetz

(1) beyond assumptions that science is **certain & value free**

(2) recognizes contemporary science-policy interactions as

- A. Uncertain facts**
- B. Disputed valued**
- C. High stakes**
- D. Politicized alternatives for action**

REMINDER: Thursday, FEBRUARY 9



- <http://xkcd.com/1007/>

REMINDER: Thursday, FEBRUARY 9



assignment #1 due at start of class

ENVS COLLOQUIUM SERIES 2012

Managing Towards Sustainability

3:30 - 5:30 PM
CIRES Auditorium
Spring 2012

one scientist. one humanist.
one policy expert. one topic...
not your ordinary talk.

Environmental problems are interdisciplinary by nature. They jump fences. They cross boundaries. They don't respect borders. So what happens when you mix scholars from different backgrounds and ask them to comment on one topic?

All sessions will be held in the CIRES Auditorium 3:30 - 5:30 PM.
Free and open to the public. Undergraduates welcome!

today @ 330pm, CIRES Auditorium!
PRODUCING WILDLIFE: MANAGING A CONSERVATION RESERVE IN INDIA DURING THE ANTHROPOCENE
 by Paul Robbins School of Geography and Development, University of Arizona