Wind Energy Policy: A View From Political Science

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Preview

- Policy history
- National policy
- State/regional policy

Why Support Wind?

Meets several political goals:

- Domestic energy production
- 2 Environmental concerns
- 3 Economic development

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But it involves government intervention into the market.

Policy History

Motivated by energy prices, but not cost competitive. Focuses on 4 keys areas:

- Tax Policy
- 2 Renewable Energy Standards (RES)
- Transmission
- 4 Siting

Policy History

- Energy Policy and Conservation Act of 1975
- Public Utility Regulatory Policies Act of 1978
- Renewable Energy and Energy Efficiency Technology Competitiveness Act of 1989
- Energy Policy Act (EPACT) of 1992
 - Renewable Electricity Production Tax Credit
 - Renewable Energy Production Incentive
- Energy Policy Act of 2005
- American Reinvestment and Recovery Act of 2009

Mechanisms

The problem is that wind energy is too expensive

Mechanisms

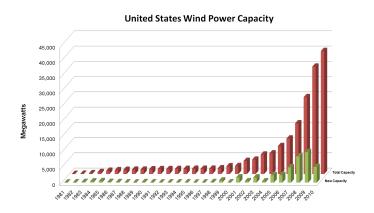
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Mechanisms

The problem is that wind energy is too expensive Two solutions: mandates or lower costs

- Tax incentives for development
- Tax credits for production

Success of PTC



Success of PTC

Creates strong incentives for development of wind power

- Makes wind cost competitive
- Lead to massive increases
- Capacity increased 45 percent in 2007

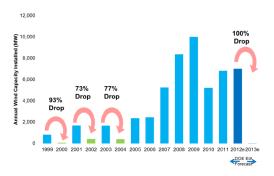
Problems

Predictability of PTC:

- Created in 1992
- Lapsed from June to December 1999
- Lapsed from December 2001 to March 2002
- Lapsed from December 2003 to October 2004
- Expires December 2012

Wind energy has doubled during this time

Result of uncertainty



PTC will expire

- Set to expire at end of year
- Will make wind competitive only in the best locations
- Already developed

Public opinion matters

- Members of Congress fear for reelection
- Public opinion matters for voting (sometimes)
- MC's pay attention to opinion when it matters for elections

Opinion about wind energy:

• Popular: 87 percent support

Opinion about wind energy:

- Popular: 87 percent support
- Shallow support
- 18 percent know that it costs more
- Information matters for opinion

MC's aren't afraid of opposing wind energy

The nature of our political institutions.

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- Unitary president
- Majoritarian House
- Supermajoritarian Senate

- Each player get a veto
- Policy is gridlocked if any prefers the status quo

Think of policy along a single left right dimension. Everyone has a preferred location on this dimension.

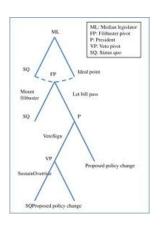
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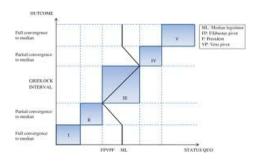
Actor votes for a policy if it is closer to his or her ideal point than the status quo.

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Institution passes if veto player approves.



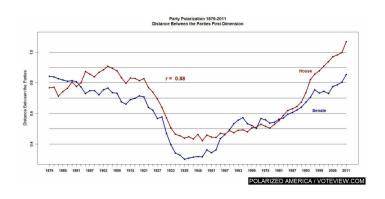


When have we seen policy activity?

- 1975: Ford and post Watergate
- 1978: Carter and Democratic Congress
- 1989: Bush I and Democratic Congress
- 1992: Bush I and Democratic Congress
- 2005: Bush II and Republican Congress
- 2009: Obama and Democratic supermajority.

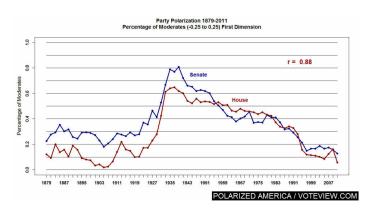
Why not now?

Congress is more polarized than ever:



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IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Why not now?

Opposition:

- Heritage Foundation action
- Wind is now competing
- Gas and coal
- Less support for all "subsidies"

Action often linked to external events (oil embargo, Exxon Valdez)

Not just national policy

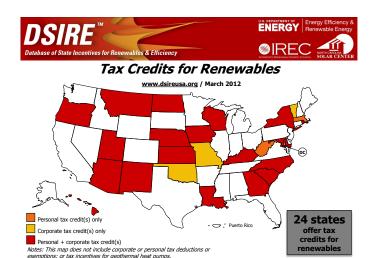
Energy policy is federal-state, local, and regional matter too

- 1 Tax Policy
- Renewable Energy Standards (RES)
- Transmission
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Key State Policies

- Greenhouse gas emission targets (22 states)
- Tax policy
- Regional initiatives
- Renewable Portfolio Standards

Tax Credits



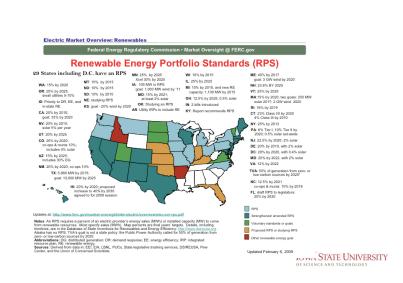
Regional initiatives

- Cap and trade based
- Politically unstable



Renewable Portfolio Standards

Mandate a minimum of renewable energy from utilities



Renewable Portfolio Standards

- Rapidly expanding (lowa first)
- Vary on what "counts"
- Encouraging federal action
- Several need to be updated

What explains state policy?

- Problem severity
- Capacity
- Politics

Capacity

- Fiscal status
- Institutional
 - Legislative
 - Q Gubernatorial
 - 8 Bureaucratic

Politics

- Citizenry
- Interest groups (on both sides)
- Political control over institutions
- Diffusion
 - Learning
 - 2 Competition
 - Internal pressures
 - 4 Federal involvement