

US National Energy Plan: *How Can We Make a Difference?*



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4th Period Social Studies

OVERVIEW OF OUR POLICY CHOICES

- Our Energy Priorities
- Overview of Our Energy Plan
- Comparison with Previous Policies
- Comparison with the Energy Policy Act of 2005
- Justification and Impacts
- Counter-Arguments
- Conclusion





Our Energy Priorities

- Initially, the five factors that we felt should be energy priorities are:
 - Preserving the environment
 - Decreasing the amount of non-renewable energy consumed
 - Decreasing our dependency on other countries for our energy resources
 - Encouraging alternative fuels/vehicles
 - Maintaining/growing our economy

Visual Ranking of Priorities

From the priorities created and decided upon by the whole class, our top three energy priorities are:



ENVIRONMENT

- Protect for future generations
- Allow for new discoveries

ECONOMIC GROWTH

- We need to be able to have money to find and develop additional energy resources

SECURITY

- Protect our resources and future
- Be more self-reliant

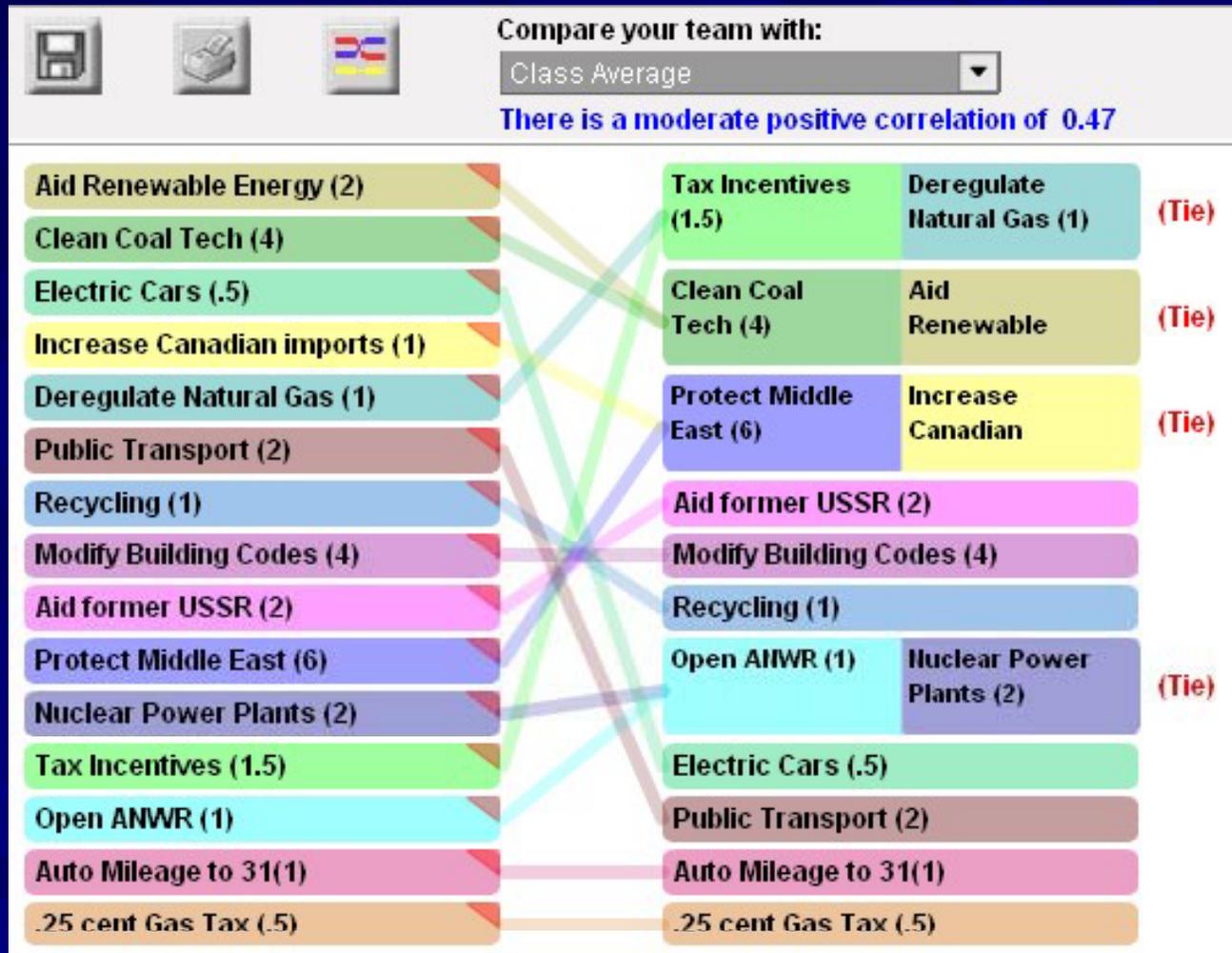
Overview of Energy Plan



- 14.5 Quads of Energy for 10 years
 - Only 1 Quad planned for “Building Codes” (less restrictive/costly)
- Fulfills our priorities and the interests of our states:
 - Promotes the environment
 - Somewhat less dependent on foreign resources
 - Helps to develop our future energy resources



Class Average



Comparison with Previous U.S. Policies

■ Similarities – Focus on:

- Conservation
- Renewable energy
- Decreasing pollution of energy resources

■ Differences:

- Nuclear energy (our group was split)
- Specific gasoline conservation goals
- Restricting foreign oil imports



- Atomic Energy Act of 1946 - Develop the use of atomic energy for civilian and military purposes¹
- "Energy Policy and Conservation Act" (1975) - Reduce dependence on imported oil and increase energy efficiency²
- "Energy Tax Act" (1977) - Tax credit for wind and solar power and other renewable energy²
- 1980 - Reduce overall petroleum consumption and establish a maximum amount for importing foreign oil³
- Clean Air Act Amendments (1990) - emissions-reduction program, specifically targeted at coal²
- National Energy Policy (2001) - Funding of research and development into renewable technologies²

Comparison with the Energy Policy Act of 2005

- Similarities:
 - Electric cars
 - Alternative energy
 - Clean coal
- Differences
 - Daylight savings time
 - Nuclear power
- Tax break for hybrid (electric) vehicles
- Loan guarantees for “innovative technologies”
 - Advanced nuclear reactor designs
 - Clean coal
 - Renewable energy
- Clean coal as an energy source
- Subsidies and provisions for encouraging renewable, alternative energy producers
 - Wind, wave, tidal, geothermal
- Extends daylight savings time by four weeks
- Six new nuclear power plants



Cost estimate: **\$1.6 billion** directly and reduced revenue by **\$12.3 billion** between 2006 and 2015⁴

Justification and Impacts

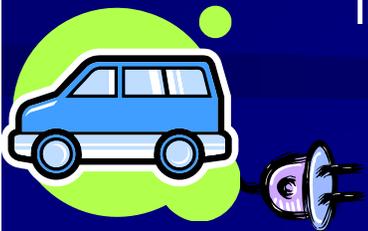
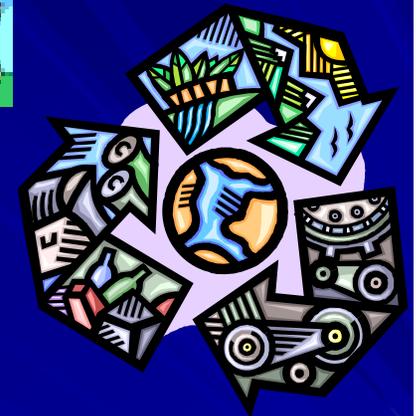
■ Healthy Environment

- What else have we got?
- Need to make changes now for the future
- Support recycling, clean fuels, electric cars
- Cost is an issue, but worth it



■ Economic Growth

- Plans are not too restrictive or burdensome
 - Example: less restrictive building codes than initially proposed
- Allow the market to choose alternatives--with incentives from government
 - Example: Hybrid cars – Costs more to buy and maintain, but tax incentives, carpool lane access in some locations, and gas savings
 - 81% increase of sales in 2004 over 2003 ⁵
 - 2005 already doubles 2004 figures
 - Calif. buys 4.5 times more than any other state⁶



Justification and Impacts

■ Security

- Less dependent on foreign resources
- Developing resources to be more self-reliant in the future
- Use of coal
 - Plentiful resource that doesn't need to be imported
 - New methods in the near future
 - Produces electricity and hydrogen
 - Clean use – gasifies coal before burning, captures carbon dioxide⁷



■ Supports the needs/priorities of our states

- Supports our current policies and available renewable resources
 - California - Wind, solar, hydroelectric, and geothermal resources/programs
 - Massachusetts – Solar, wind, and hydro programs/resources (small)
 - Wisconsin - Wind, hydroelectric, and solar programs/resources
 - Idaho – Solar, wind, and geothermal programs (small), but greater potential resources available⁸

Counter-Arguments

■ Cost

- Government spending is huge (estimates of \$13.9 billion over 8 years for the Energy Policy Act of 2005⁴)
- People don't like anything that might cost them more money like recycling or more expensive cars



■ Out of People's "Comfort Zones"

- People don't want weird houses or cars—especially if they will cost more

■ Industry and Big Business Resists

- Powerful lobbies in Washington D.C. prevent change



Conclusion

- We were surprised that much of the class chose what we view as “anti-environmental” measures.
- Protecting the environment is much more complex.
 - Need more policies to promote change and new ideas, rather than just producing more of the same
 - We need to develop renewable alternatives *before* we run out of non-renewable resources
- Use of clean domestic resources, such as coal, will help our more immediate energy needs
- Energy choices have broad-range and long-term impacts.

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