

PLENARY PANEL #4

LET'S PRETEND GLOBAL WARMING IS REAL:

PONDERING *REALLY BIG* ENERGY EFFICIENCY

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Panelists:

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400,000 Years of CO₂ and Temperature



Projected concentration after 50 more years of unabated fossil fuel burning

Today's CO₂ concentration



3 KEY QUESTIONS FOR OUR PANELISTS

1. What are the key challenges/obstacles to having this field (utility/buildings sector energy efficiency) deliver savings on the scale needed to truly respond to the climate crisis?
2. What are the most important actions/tasks needed in the next 1 to 5 years (particularly in their area of activity/expertise)?
3. What is your prognosis on whether we'll be able to respond at the scale needed?



THE MODERATOR'S 2 CENTS WORTH

IN THE BROADEST TERMS, THE KEY ELEMENTS OF THE CHALLENGE COME DOWN TO THESE:

- Resource Allocation
- Human Behavior
- Political Will



RESOURCE ALLOCATION

- Current U.S. Military Spending:
 - ~ \$ 630 billion/year (incl. Iraq suppl.)
- Current U.S. Utility Annual Revenues
 - ~ \$ 524 billion/year (elec. & gas)
- Current U.S. Utility Sector Spending on Energy Efficiency programs
 - < \$ 3 billion/year (elec. & gas)



HUMAN BEHAVIOR

Can we get the kind of large-scale public cooperation and participation needed???

- We get 100% compliance from tens of millions of airline passengers every year:
 - standing in long lines
 - having their belongings searched
 - taking their shoes off
 - paying an airline security surcharge fee for the privilege

Why?

- Political will to say it must be done
- People generally convinced it's an acceptable price to pay to advance public safety



POLITICAL WILL

A couple inspiring examples:

- The transformation of the economy and national mobilization for WWII
- The 'space race' and Kennedy's pledge to put a man on the moon



PROGNOSIS?

I think we can do it.

