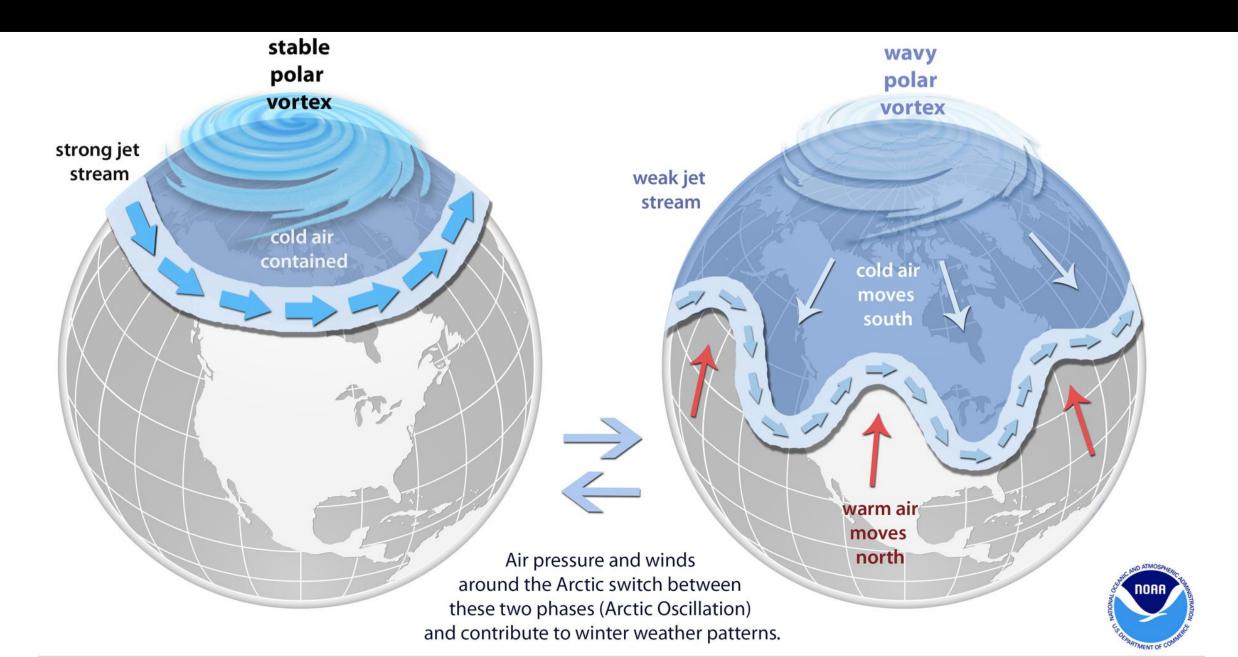
Table 2:

The Texas Deep Freeze: Can the Free Market Adequately Cope with Climate Crises?

Arthur Grinath (Economics) and Diane K. McDaniel (Geology)







Anthropogenic Climate Change

Cause: ↑ greenhouse gases (GHG). E.g.,

<u>CO</u>₂ – fossil fuels—<u>transportation</u>, <u>electricity</u>, <u>manufacturing</u>.

<u>CH</u>₄ – agriculture—<u>beef</u> / <u>rice</u>, especially.

Some consequences:

rising temperatures

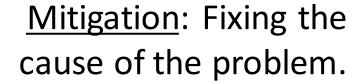


Responses-Two Types:

<u>Adaptation</u>: Preparing for consequences.

even as we continue mitigation, adaptation is

necessary.



Slow down GHG emissions





Adaptation

migration: a last resort with severe effects on people, society.





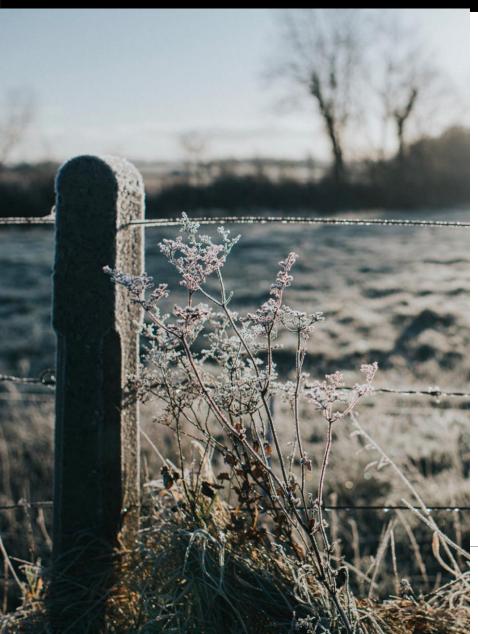
Adaptation

migration: a last resort with severe effects on people, society.

when uncontrolled, accompanied by homelessness, upheaval of families, cultures.

Climate Refugees





The Economics of the Freeze

What went wrong economically?

What can and can't markets do?



Texas farm field: Getty Images



U know what's good for U

- You make the best decisions for you
 - Might adapt for personal protection
 - Will use alternative energy if cheaper

- These may not be best for society
 - Not likely to mitigate for a shared resource



Houston, Texas: Go Nakamura, Getty Images



Demand & Supply & Cold

Demand increased

- Supply decreased
 - Little excess capacity
 - Disconnected power grid



Killeen, Texas: Joe Raedle, Getty Images



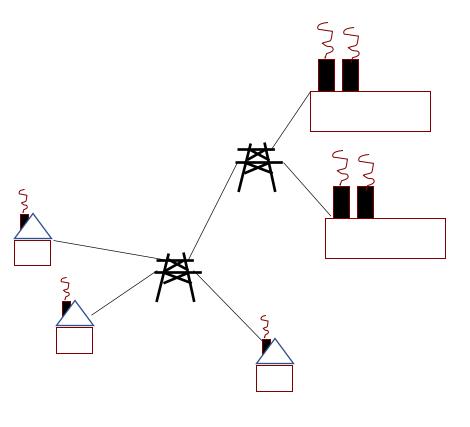
The Role of High Prices

Should reduce quantities demanded

Should increase quantities supplied

• But...





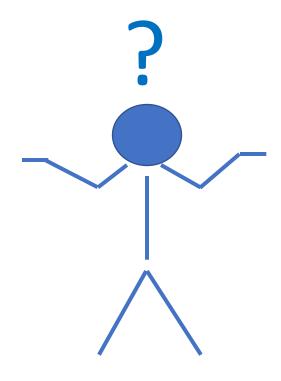
Market Limits

- The Grid is a shared resource
 - Individuals don't have a lot of control

Lack of information & Moral Hazard

Economies of Scale and competition





What can an individual do?

- Let's list some actions you personally could take if you lived in Texas to avoid this situation in the future
- What are the advantages and disadvantages of each of these?
- Are we willing to let people live with their decisions?





What can Government do?

 Let's list some actions government could take that individuals cannot

- What are the advantages and disadvantages of each of these?
- Don't "privatize the gains and socialize the losses"



Austin, Texas: Thomas Ryan Allison, Getty Images

