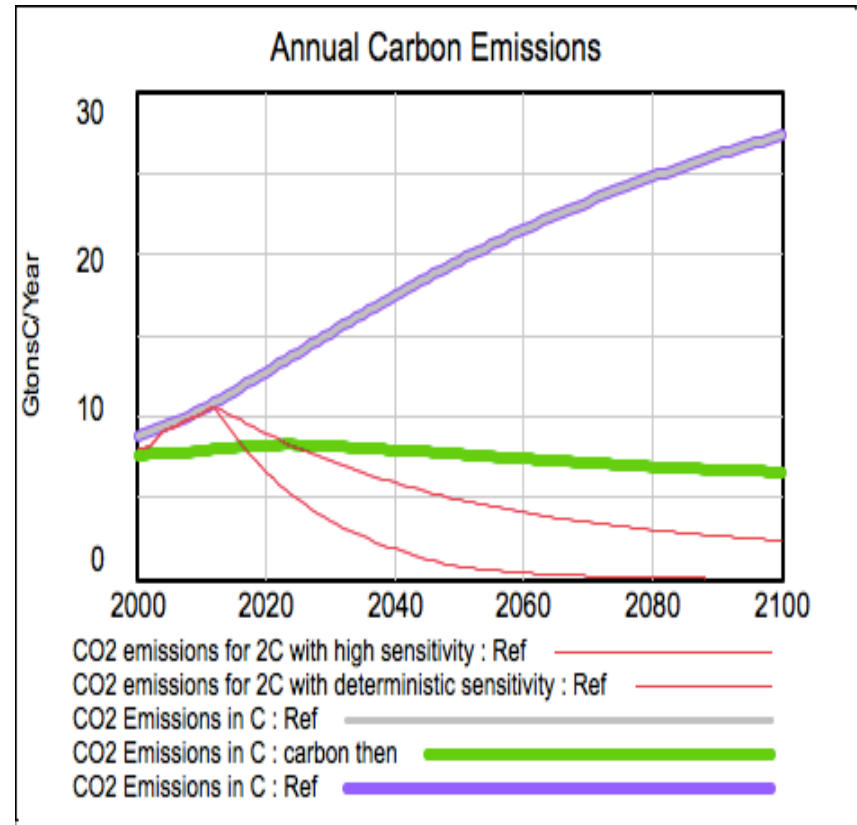


# Grim Realists: Yesterday's Reality

Our recommendations

- Start acting: **20 years ago!**
- Extreme **Performance Standard: 50%**
  - No **subsidy/tax** on **carbon producers**: near **ZERO** effect
  - No separate emission tax
- Massive **subsidies (200%)** for **Nuke/Bio/Green** energy
- Obscene **reduction (40%)** of **Other Gases** thru policy req
- Accelerated retirement: **5%**
- **Pray.**

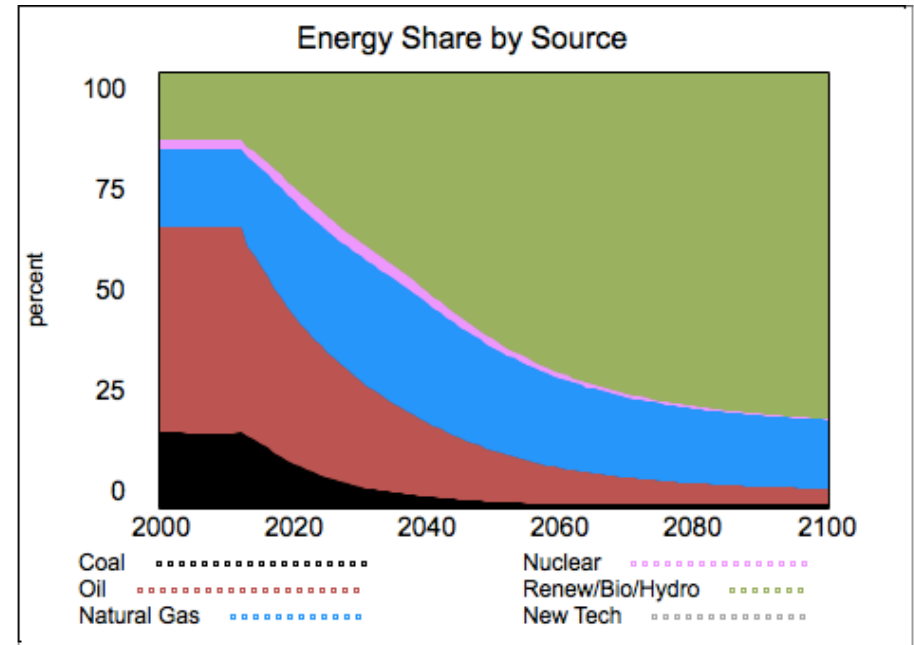


2100 Temperature Increase = **2.8 degrees**

# RG-III

## Innovative and Sustainable

- Energy Mix 80% non-carbon by 2100
- 90% reduction in other greenhouse gas emissions by 2100
- Carbon Tax: \$70/t starting 2012
- Continued GPP growth
  - 3.5% short term
  - 1% long term
- Synergistic health and quality of life gains

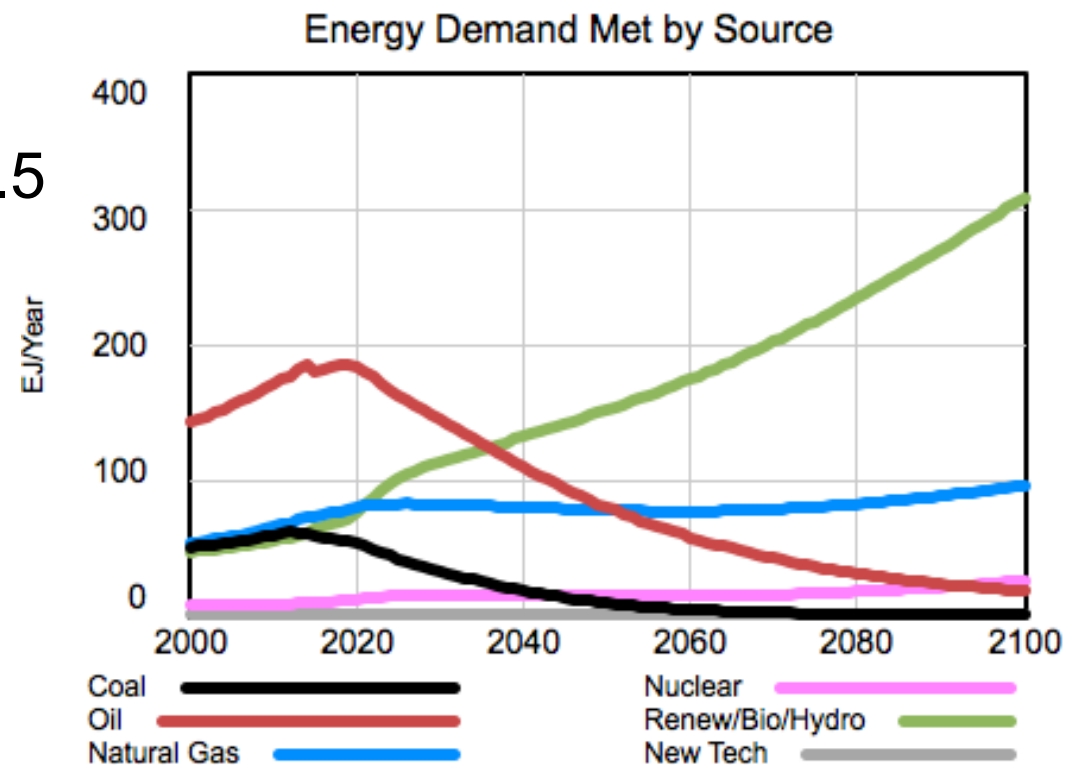


Mean global temperature increase 2000-2100: 2.1°C

# Op2.2mistic: Efficiency, performance, subsidies

Our recommendations

- **Energy efficiency: 0.05**
- **Renewable breakthrough: 0.5**  
starting in 2020
- **Performance Standard: 45**  
starting in 2018
- **Subsidy reductions: -2**  
starting in 2014
- **Land use:**  
REDD – 0.9  
Other gases – 0.9

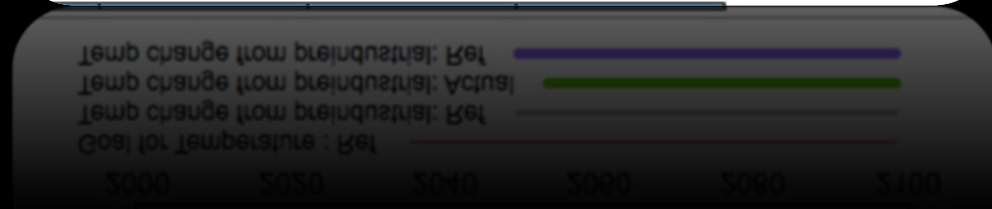
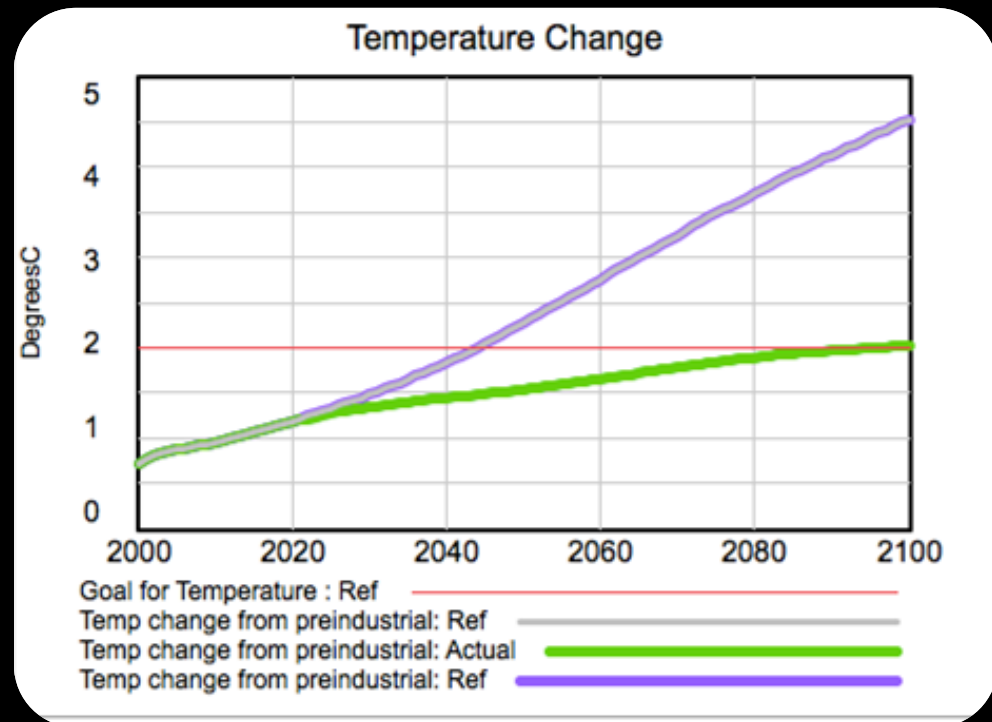


2100 Temperature increase = 2.2 degrees C

# Int'l Energy Court: Reward the Good and Punish the Bad

## Our recommendations:

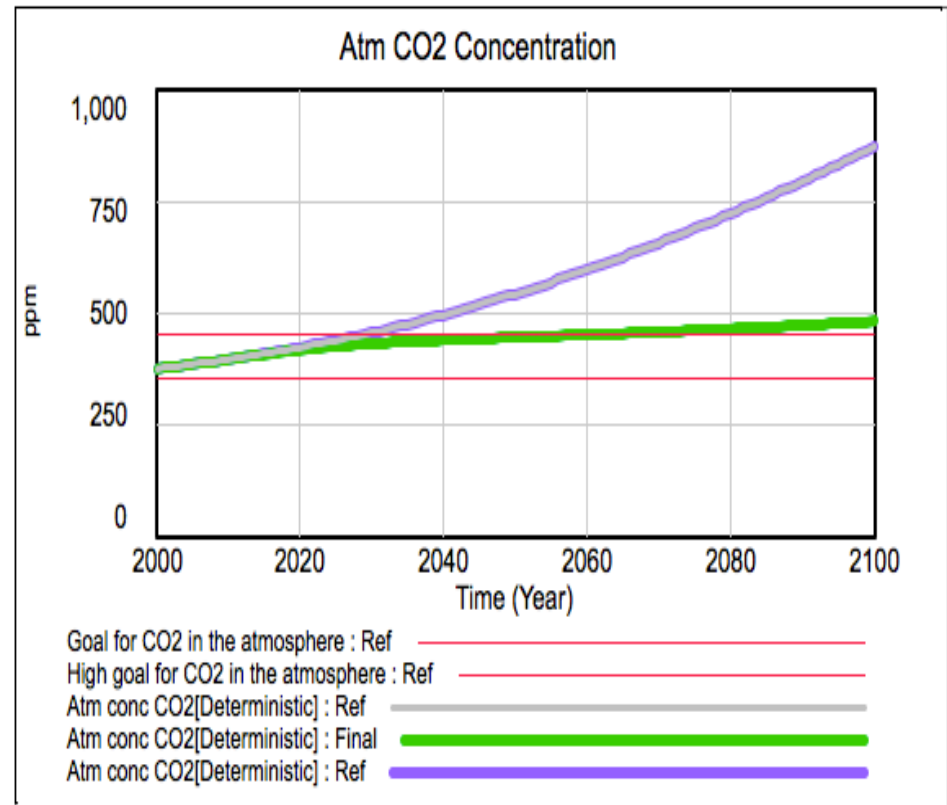
1. "Other gases" and "REDD" to 1.
2. "Improve... rate of capital" to 0.07.
3. "Carbon tax" to \$50 (over 20 years).
4. "Performance Standard" to 60.
5. "Subsidy or Price" to -5 for oil, coal and +5 for renewables.
6. "Accelerated retirement" for coal to 0.06.



# ReVIVE: Renewable energy, Vehicles, Incentives, Value Carbon, Efficiency

Our recommendations

- **Renewable Energy**
  - Breakthrough 0.6, 2020
- **Vehicles**
  - Price on oil -5, starting 2012
- **Incentives**
  - Subsidize RE by 5, starting 2012
- **Value Carbon**
  - Emissions price \$50/ton CO<sub>2</sub> beginning 2012
- **Efficiency**
  - Efficiency Improvement 0.06



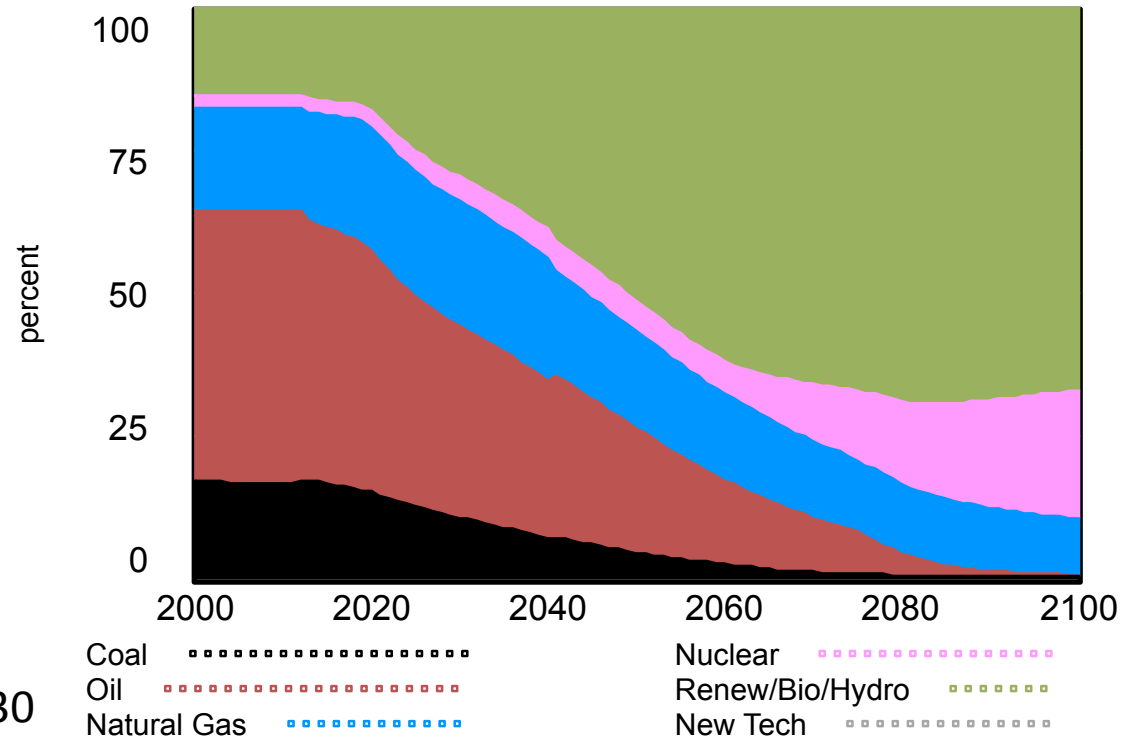
**2100 Temperature Increase = 2.4°**

# Team Panda Express: Taxes, Timing, and Gas

Our recommendations:

- Carbon Tax of \$100 integrated over 40 years
- Performance standard of 20 beginning in 2018
- Annual Improvement Rate of New Capital: 5%
- Other Gases: 0.6
- Price on Gas: -5 beginning in 2040 **but** w/ 0.2 Breakout Cost Reduction(BCR) in 2012 (Fracking)
- Nuclear Subsidy: \$3 per GJ for 30 yrs starting in 2012
- Nuclear BCR: 0.4 in 2050
- Renewable Subsidy: \$5 per GJ until 2060 and BCR of 0.3 in 2040

Energy Share by Source



2100 Temperature Increase = 2.4° C