Energy and Environment

Recent Research Initiatives

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Eight Measures Achieve Half of California’s GHG Targets
Energy Price Vulnerability in California Agriculture

Figure 1. Direct and Global Cost-Price Pass Through: Oil & Gas

- Agriculture Slope = 2.5
- Food Processing Slope = 14.5

Global Effect vs. Direct Effect
Carbon Multilateralism

Kyoto Commitments vs. Emerging Economy Emission Growth

OECD+Russia 30% Reduction on 2009 Emissions

China, India, ROW Growth in Emissions 2009-2030, IEA Projections

IEA Projections for India and ROW, Author's Projection for China

OECD+Russia Reductions China India ROW Net Reductions in Global CO2 Emissions
China’s Carbon Challenge

Aerosol Optical Depth: NASA-TERRA Satellite

China’s Electricity Plans

Capacity added over 2005-2030 will exceed existing capacity of the EU.
Things to Come

- Biofuel,
  - Food and fuel tradeoffs
- biofuel,
  - Agriculture in the energy economy
- biofuel
  - Ag-biotech, energy research, and the R&D supply chain