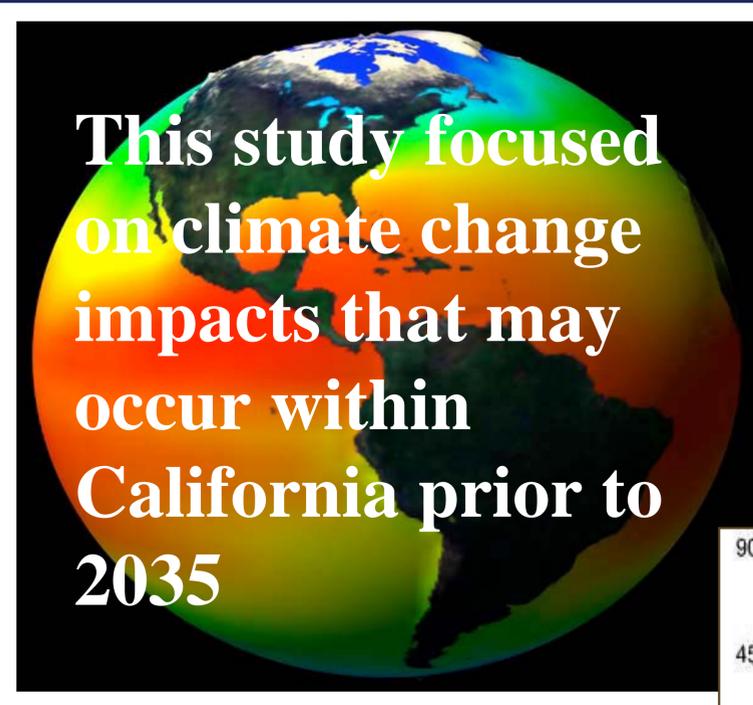
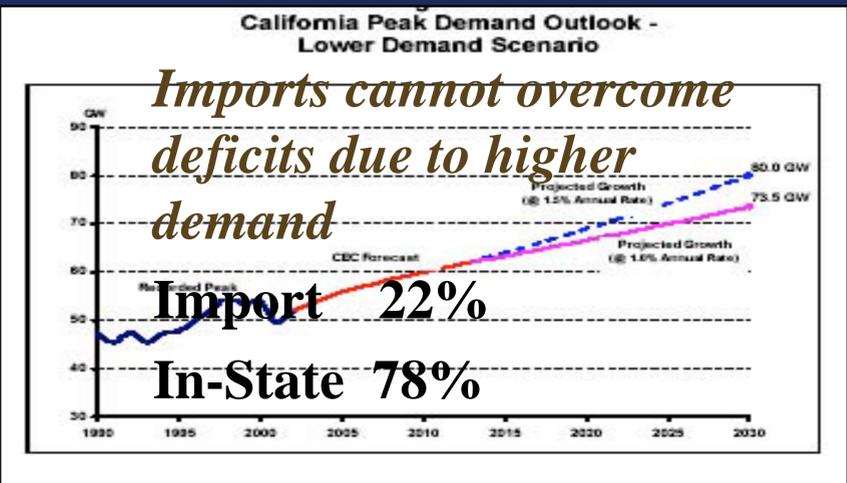


Effects of Climate Change on California's Energy Security

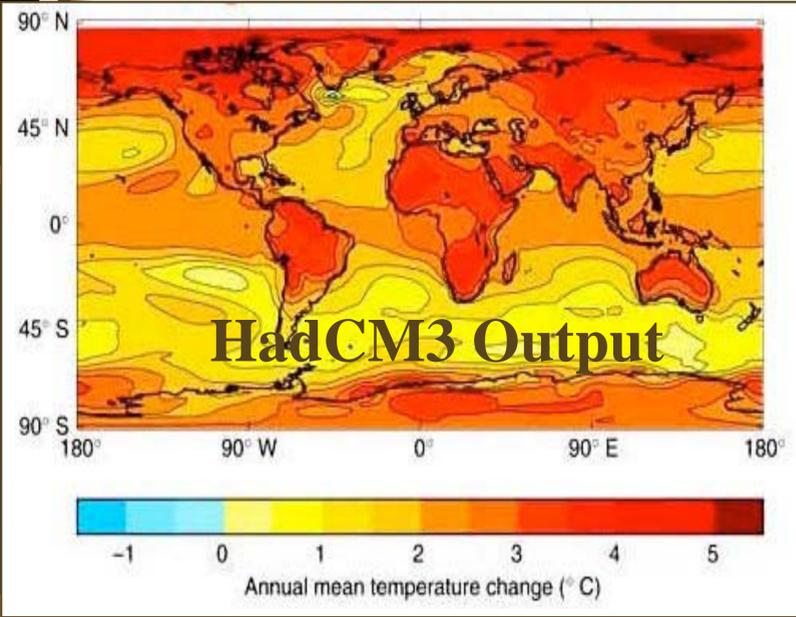


Results from the UK Met Office HadCM3 climate model were used as drivers for a comprehensive electric energy model

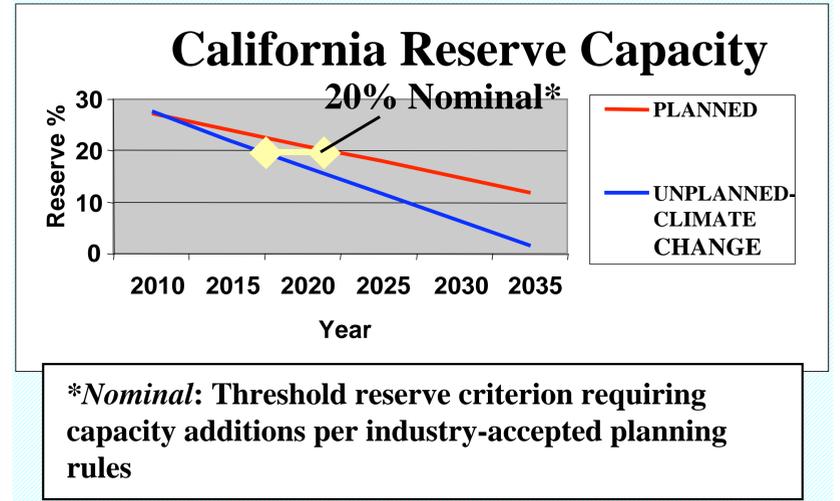


Research Issues:
Energy Security

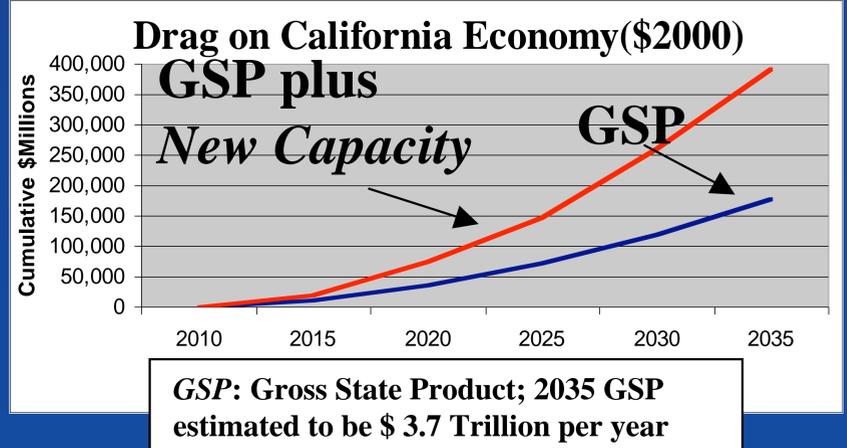
- Adaptable system reserve margin



11,000 Megawatts of additional generation capacity costing \$64 billion per year (including fuel) will be required after 2015 *due to climate change*



Temperature rise predicted for the California region in the 2015-2035 timeframe will result in higher electric demand, compared to the CEC's expected case



- Siting, fuel availability and timing of new generating capacity
- Electric import dependency