

The California Biomass Energy Database 2008 Update

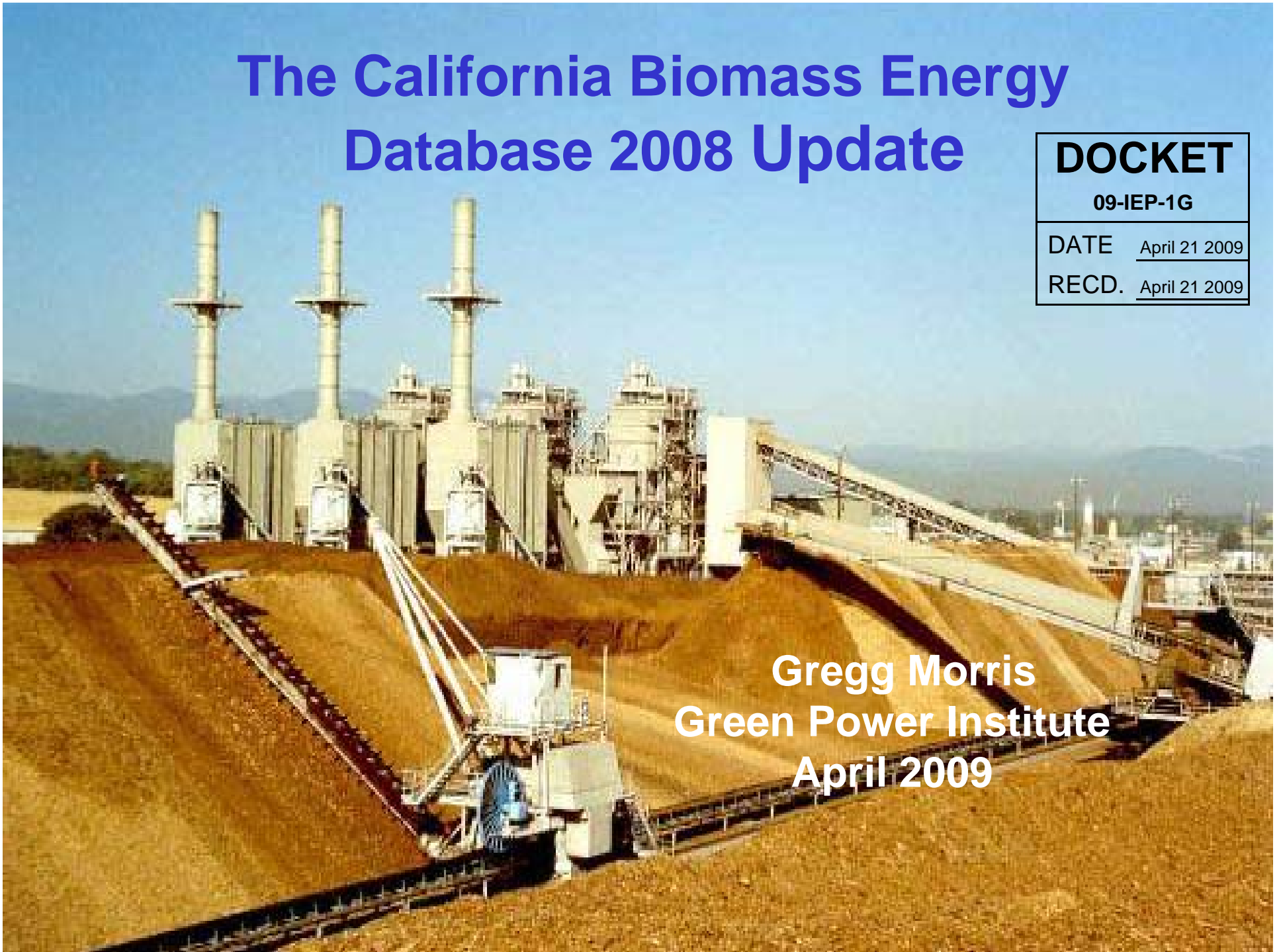
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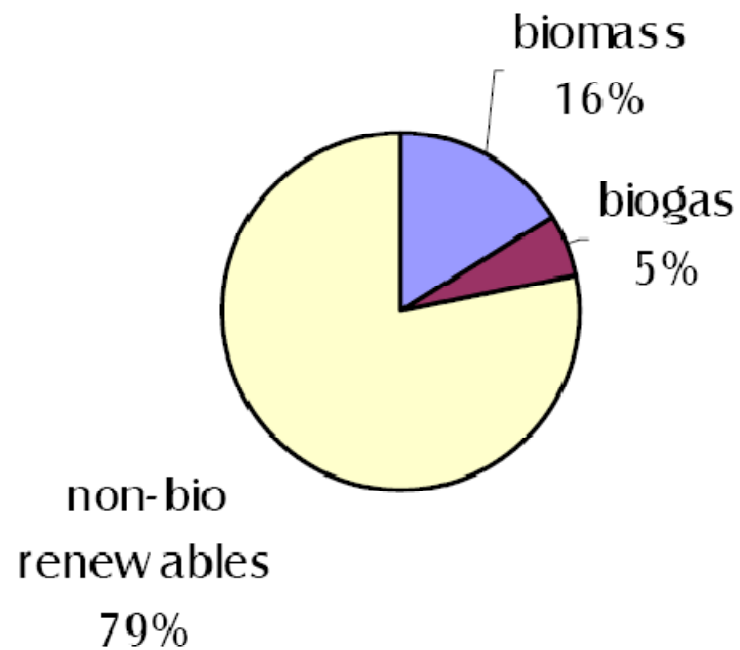
DATE April 21 2009

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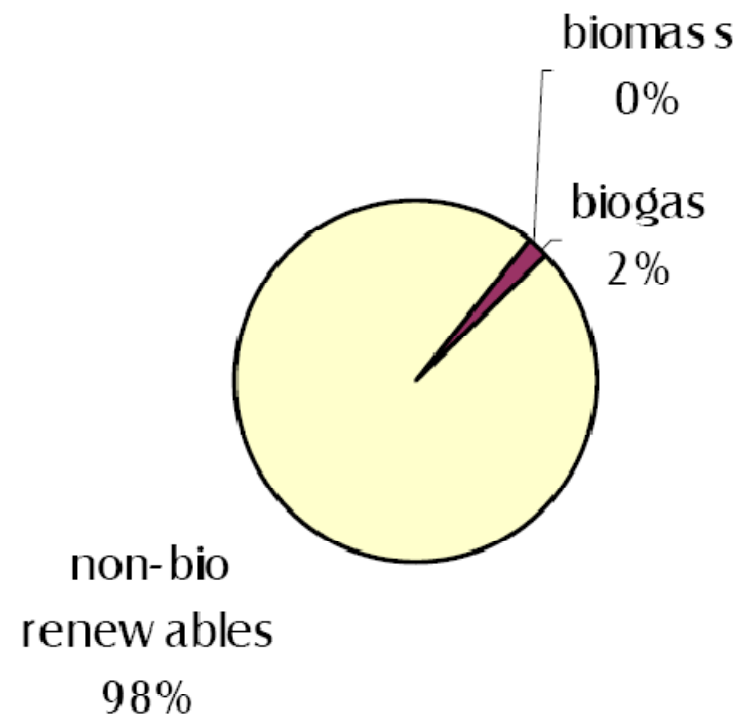
**Gregg Morris
Green Power Institute
April 2009**



EO S-06-06: Biomass 20% of RPS



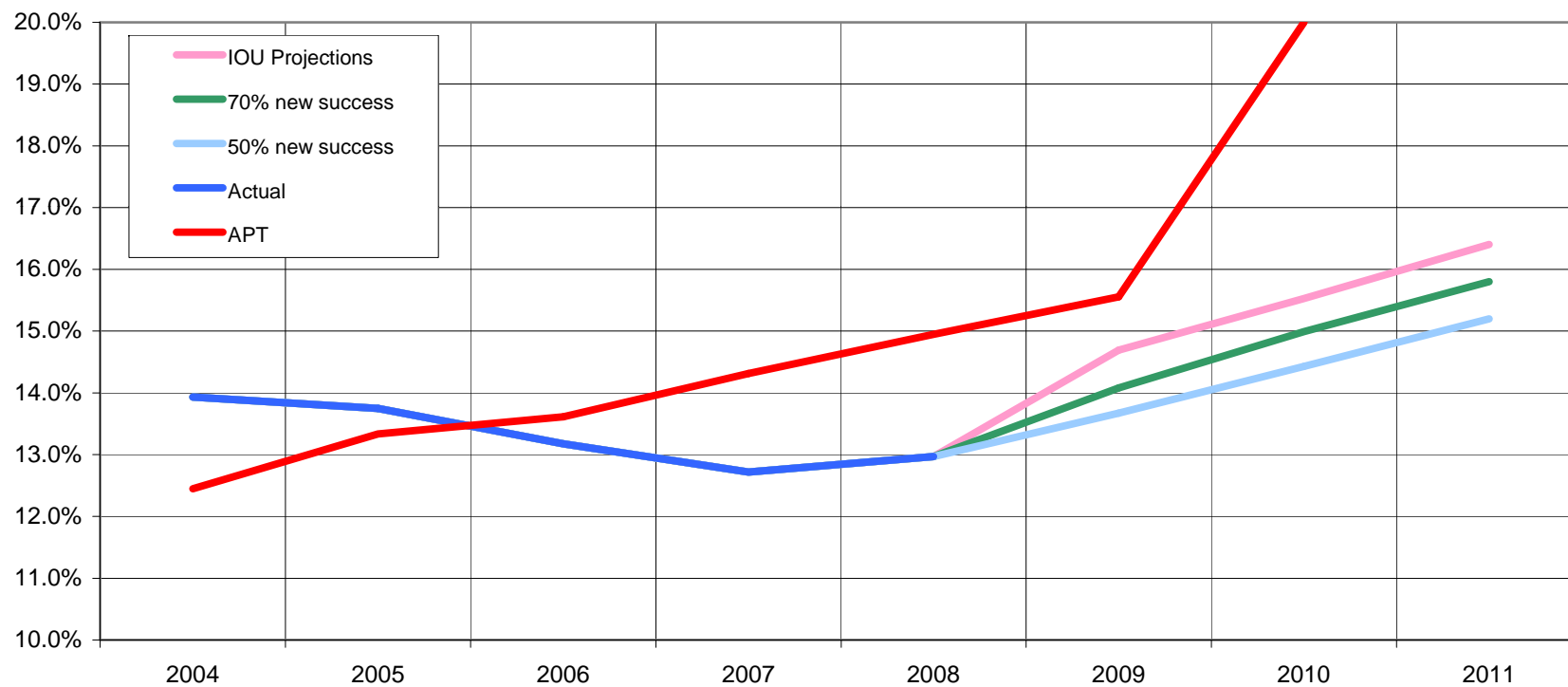
2008



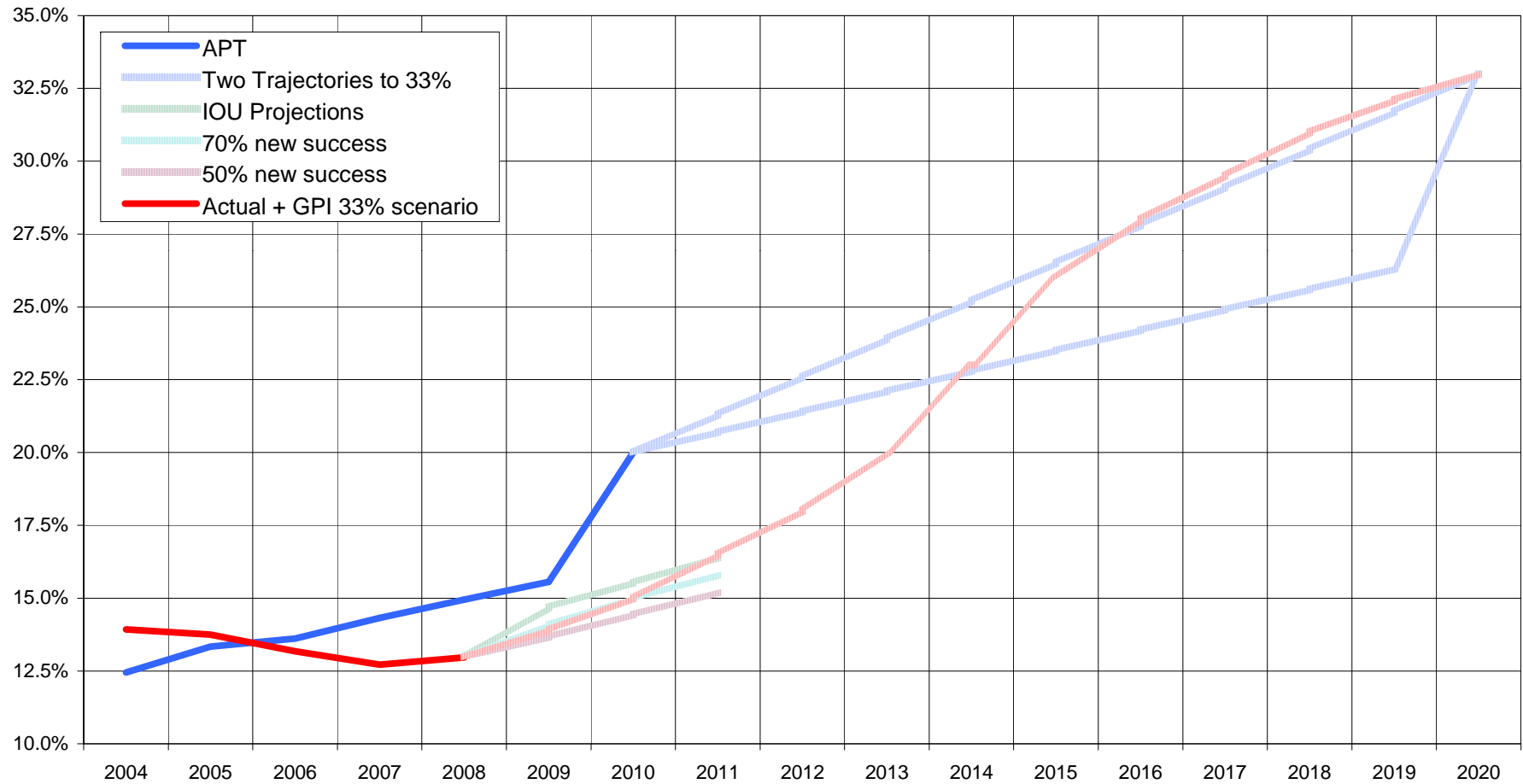
projected new

**The RPS Itself is
Not on Track**

California RPS Progress (3 IOUs)



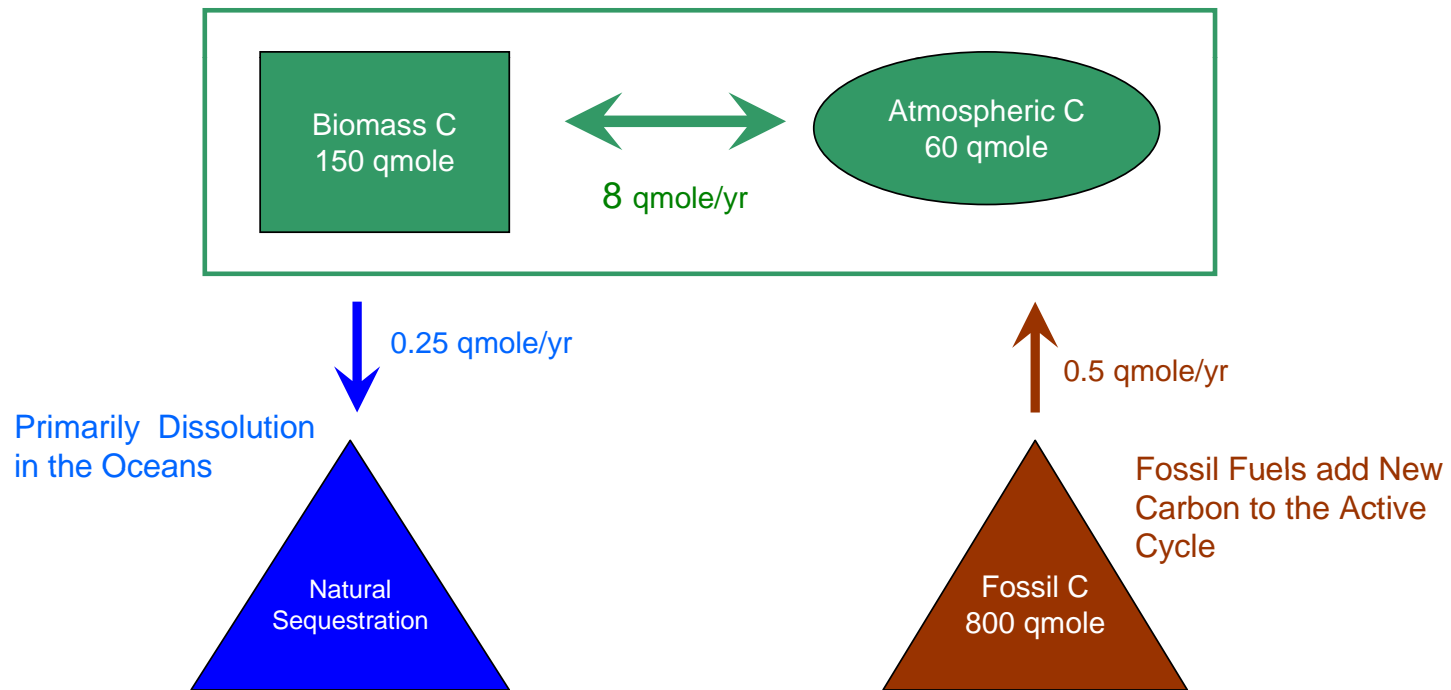
California RPS Progress Projected to 2020 (3 IOUs)



Biomass and Greenhouse Gases

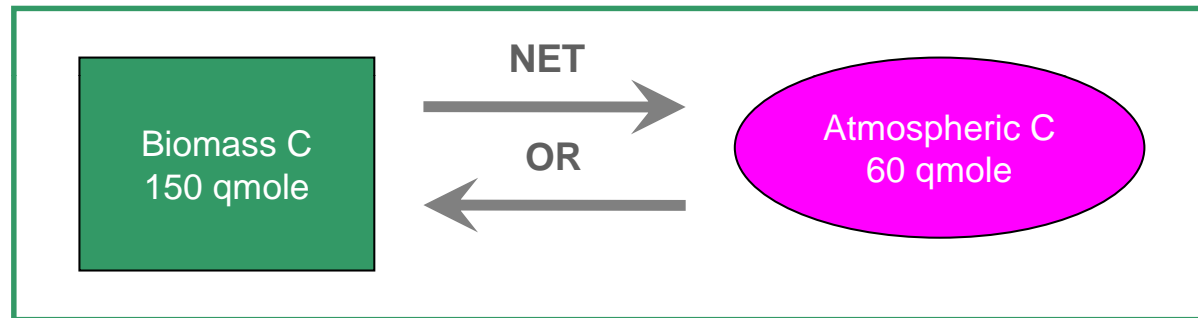
Global Carbon Cycle

Carbon stocks in the biosphere and atmosphere are linked and in rapid exchange.

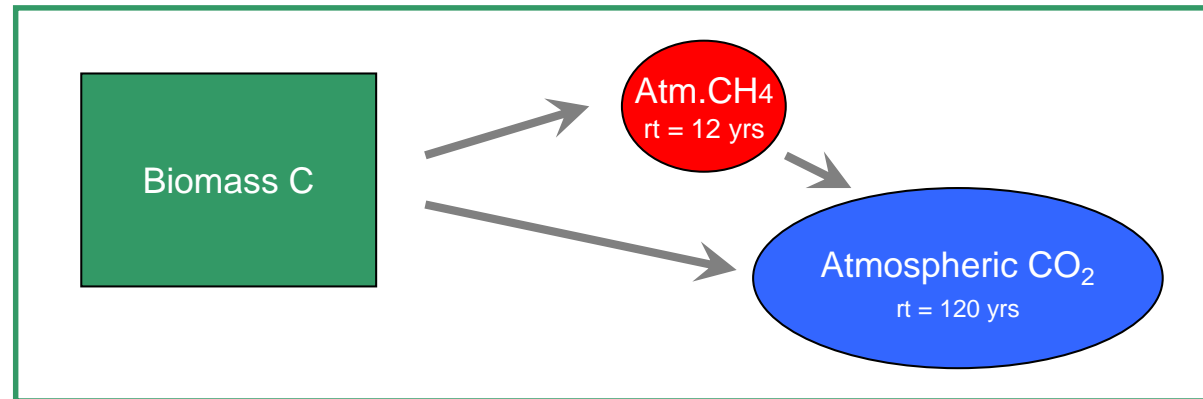


Offsets for Biomass

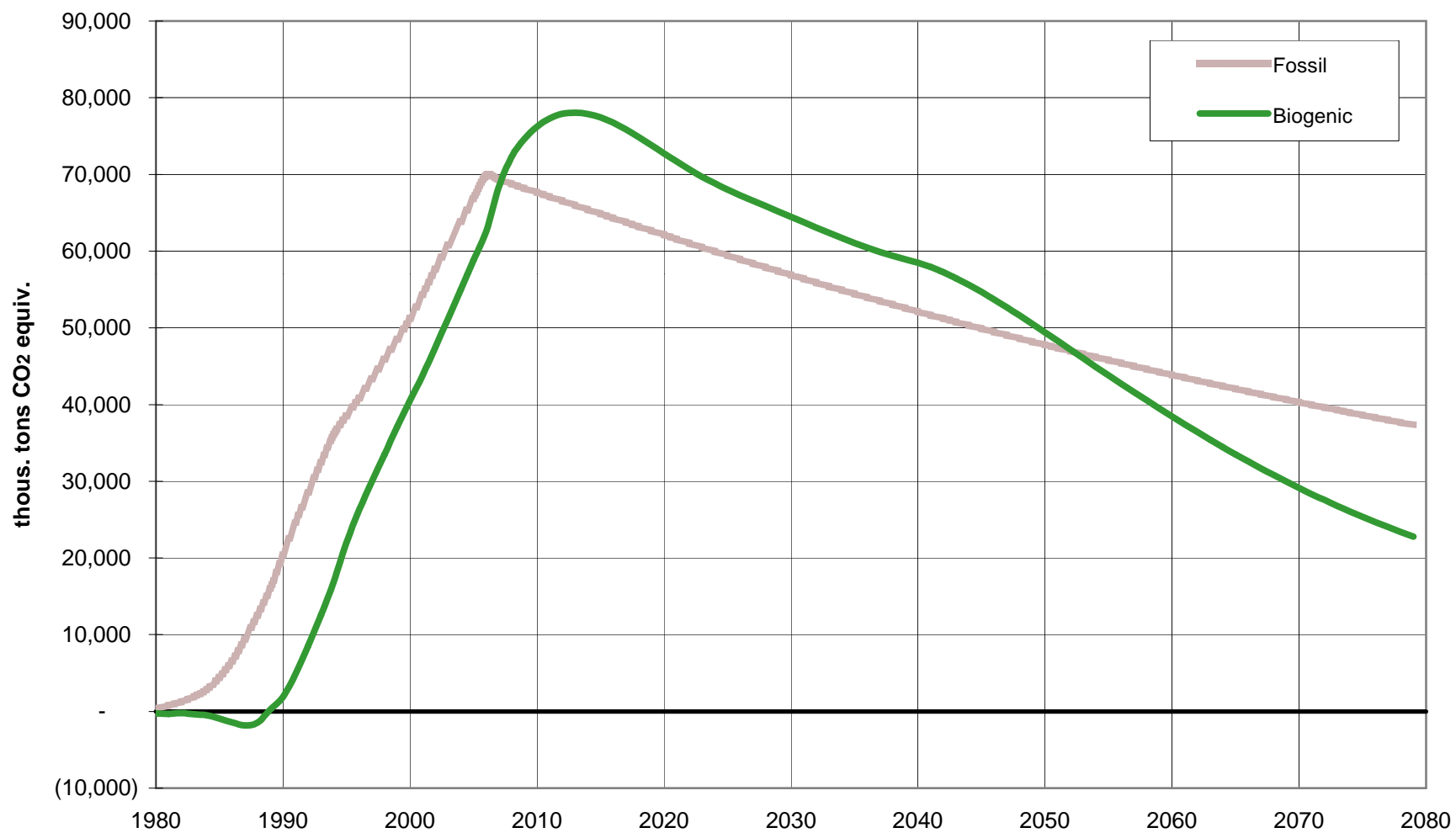
The transfers of carbon between the atmosphere and biomass can be out of balance on a global scale, increasing or decreasing the amount of carbon in the atmosphere



CH₄ is 25 times more potent as a ghg than CO₂, although it has a shorter residence time.

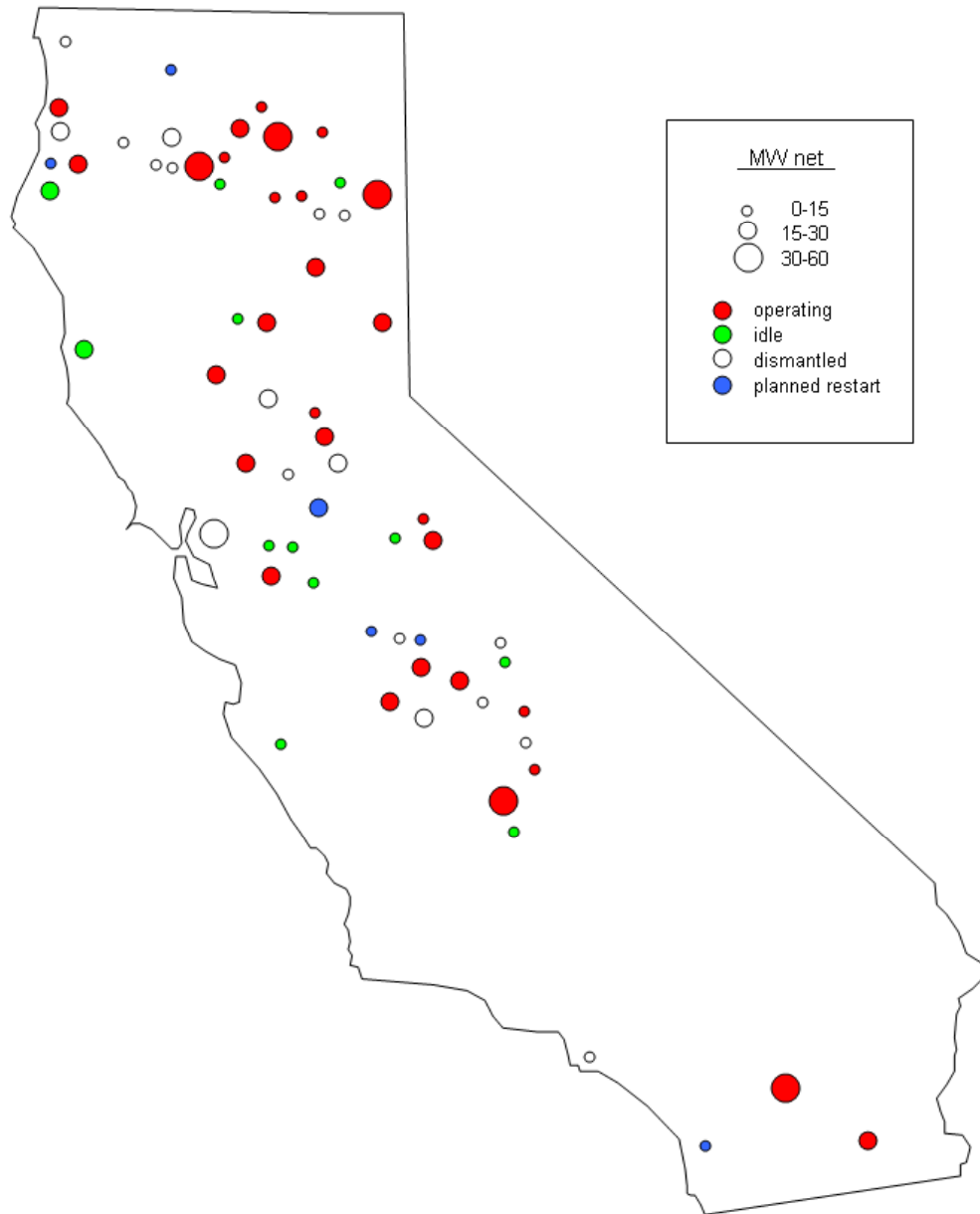


GHG Benefit from Operations of the CA Biomass Industry, 1980 - 1986

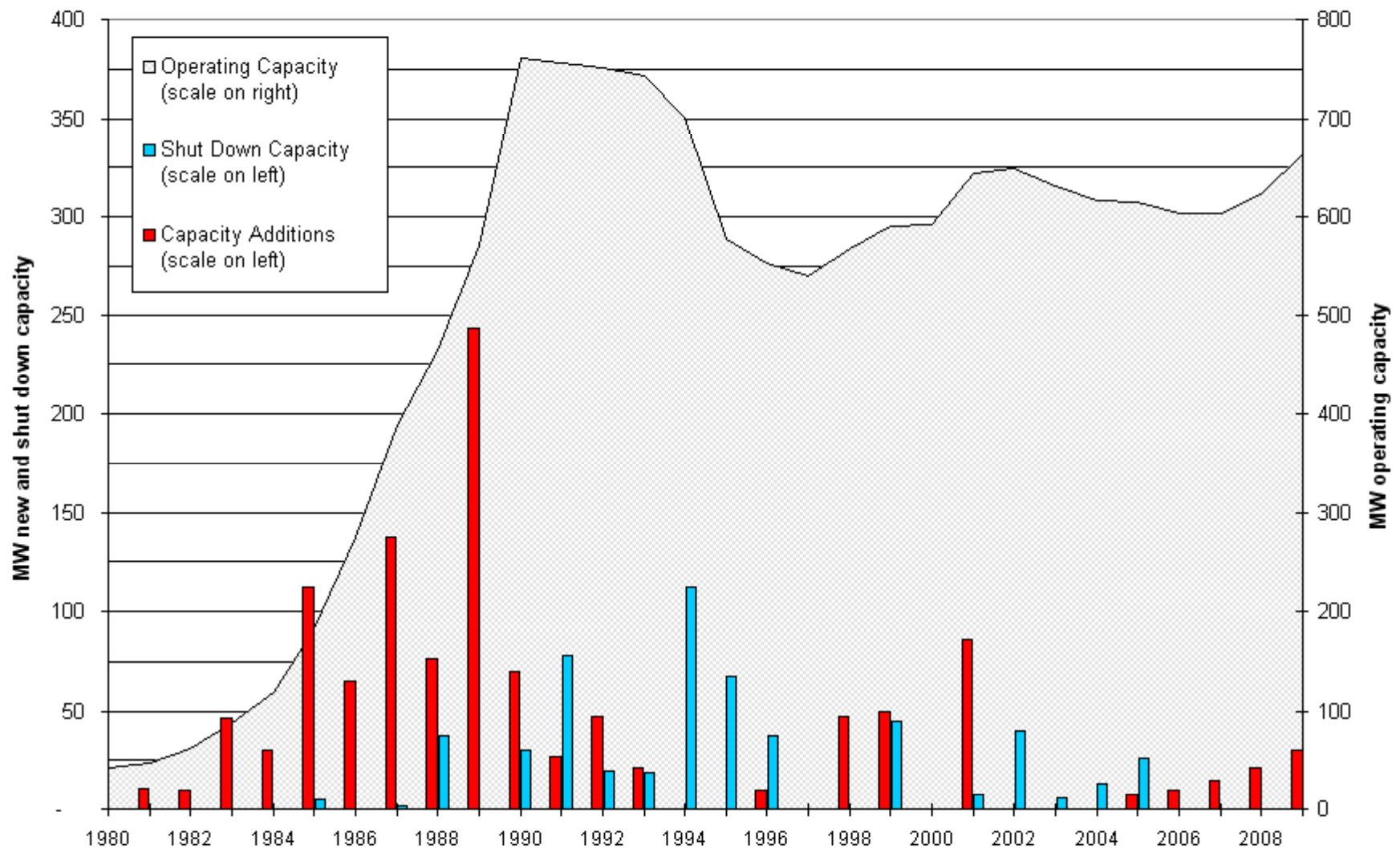


Biomass in California Today

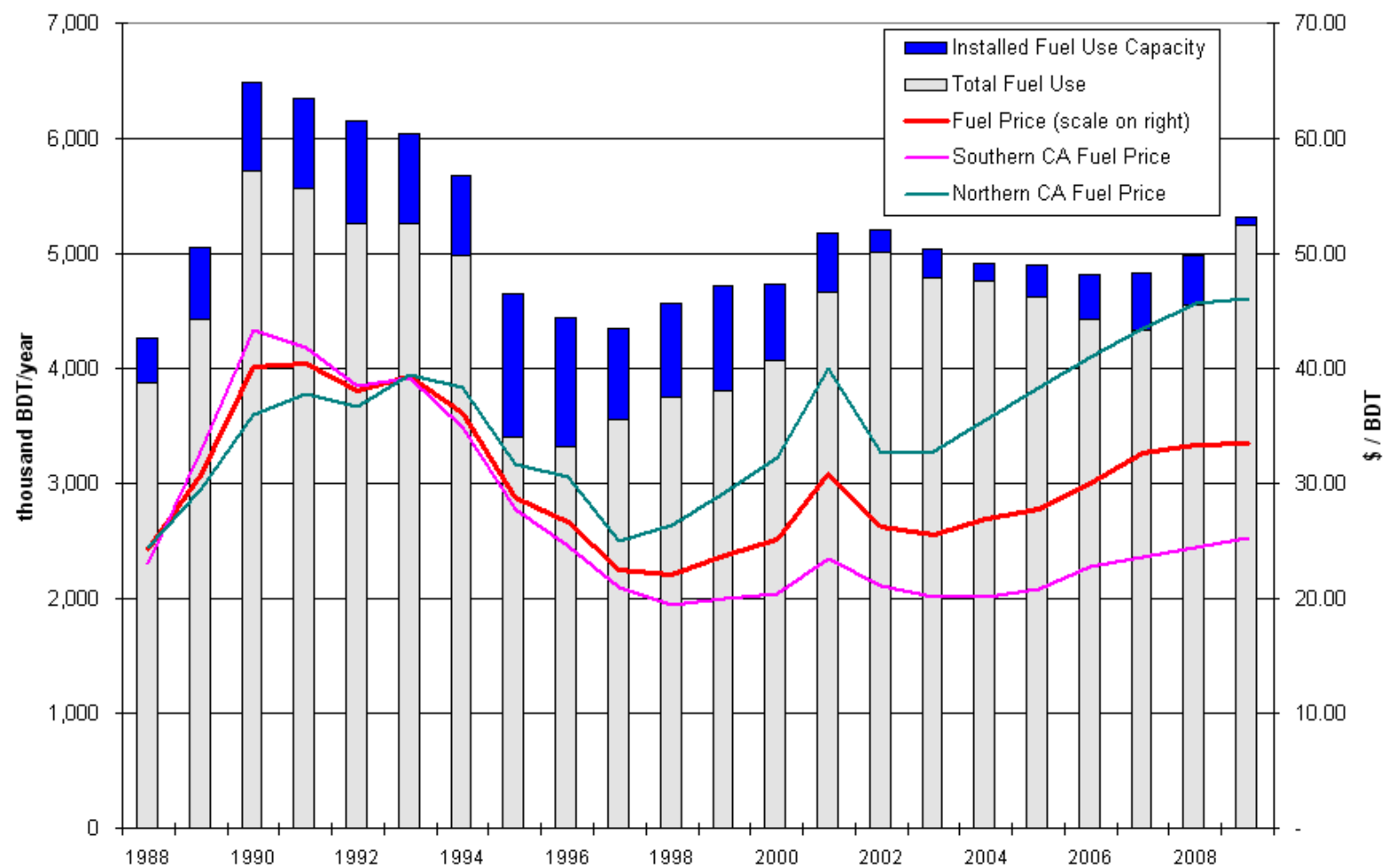
California Biomass Power plants 2008



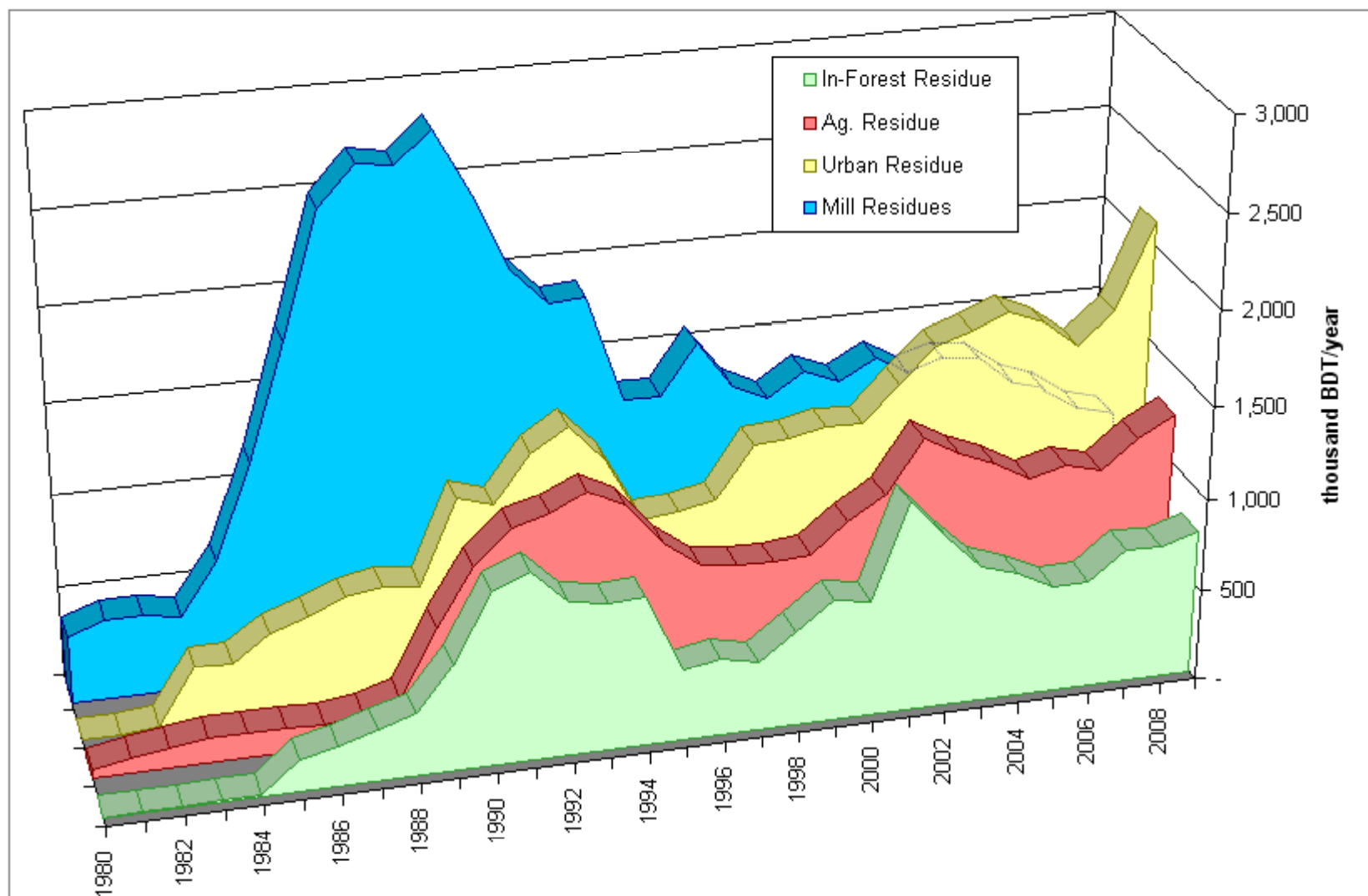
California Biomass Power Capacity



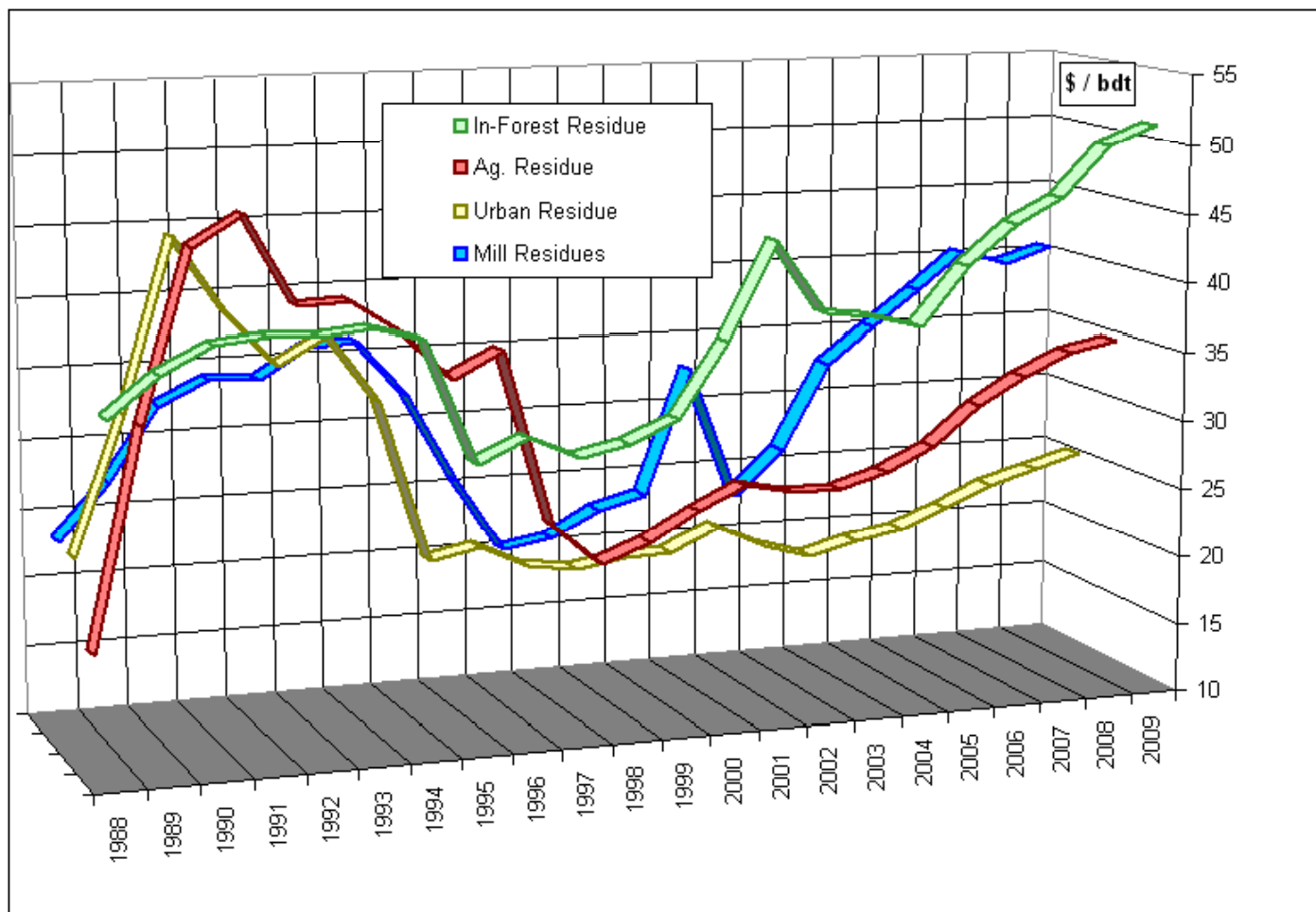
California Biomass Fuels Market



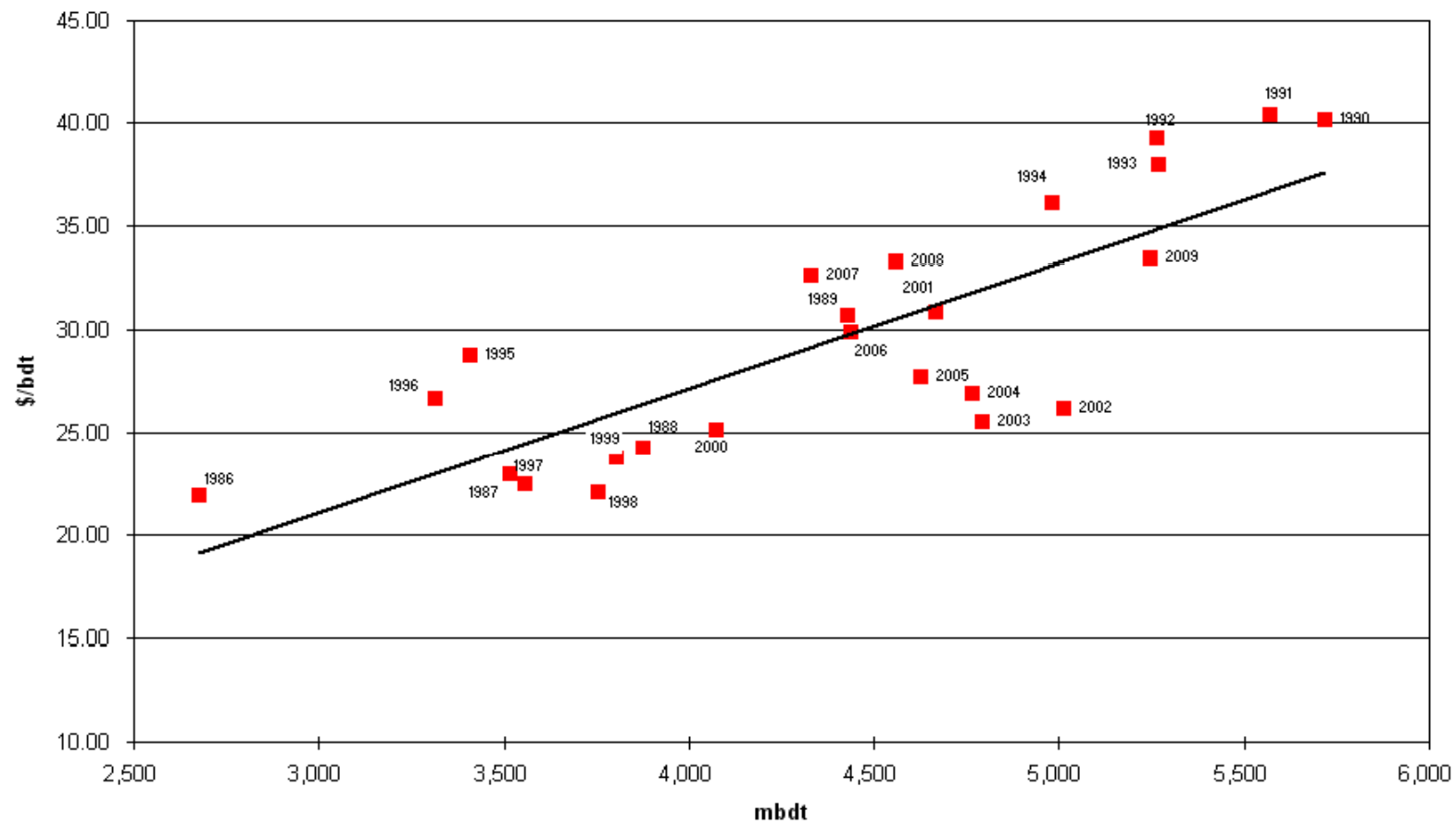
California Biomass Fuels Market by Category



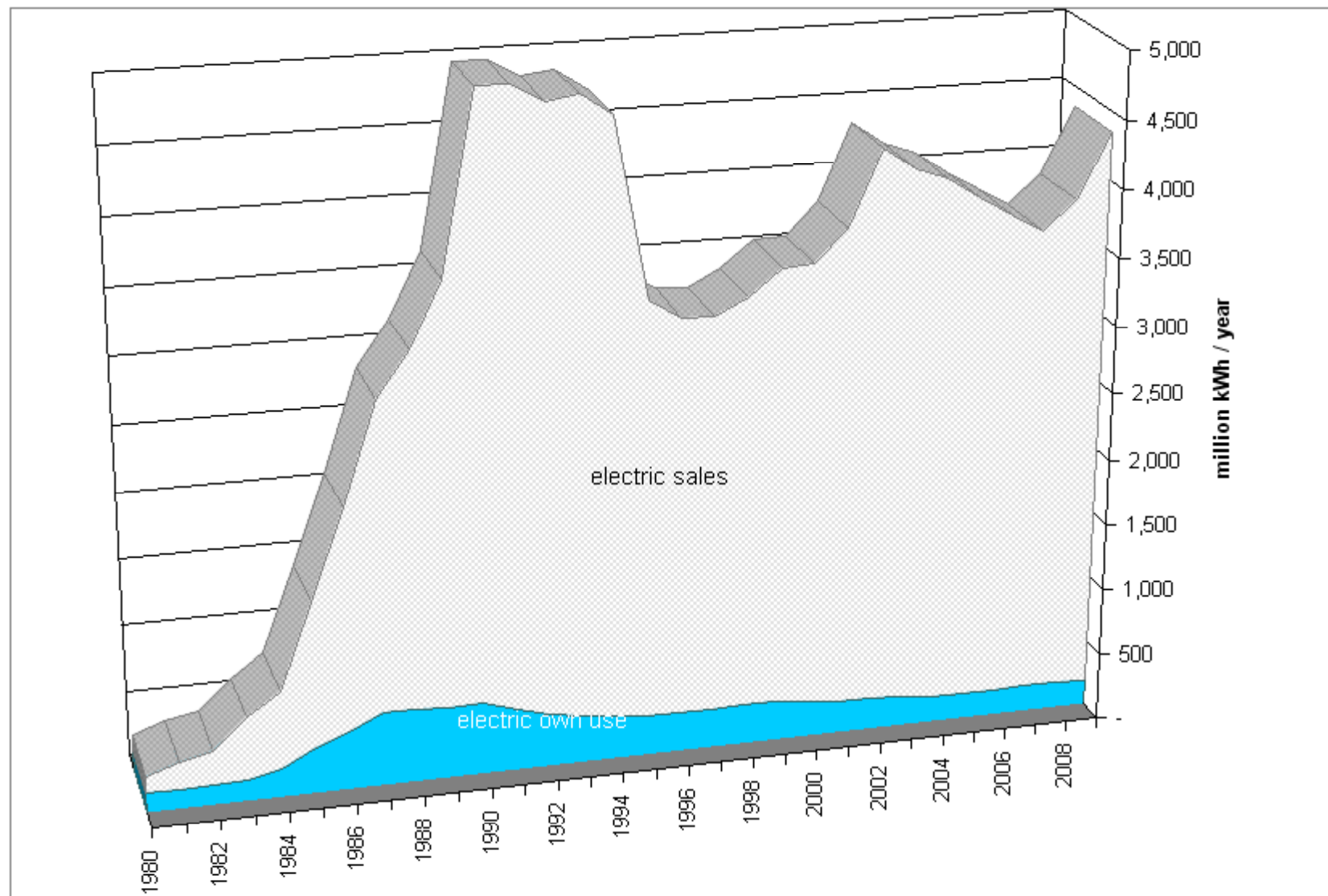
Biomass Fuel Prices by Category



California Biomass Fuel Supply Curve



California Biomass Electricity Production



Renewables Need a Jumpstart

- The RPS program needs reform, including elimination of the MPR.
- Renewables are carbon neutral and should be exempt from Cap and Trade.
- Biomass and biogas are a special case. GHG offsets are one way to provide the necessary incentive.