

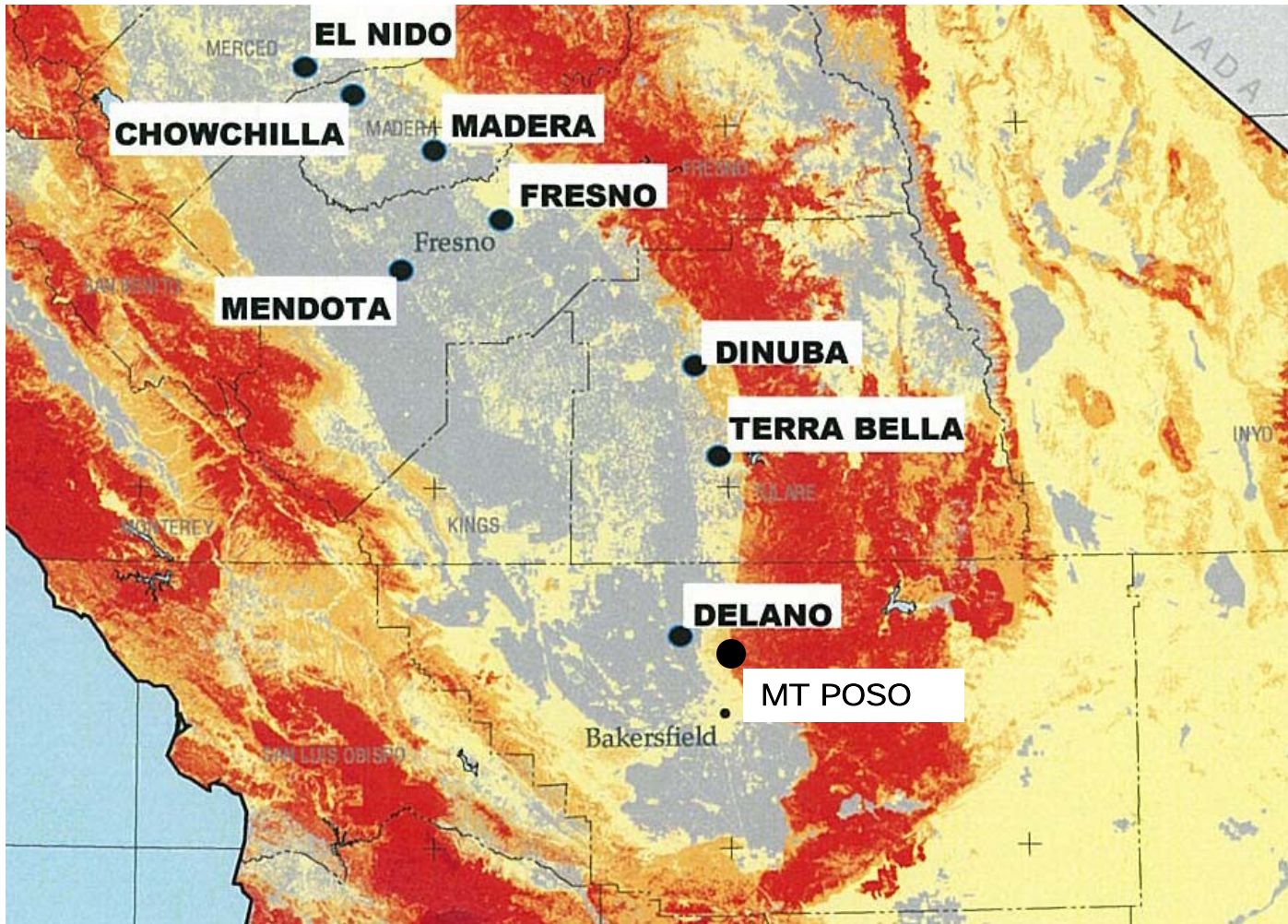
# Local Biomass Power Plant Opportunities

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(info from Tad Mason – TSS Consultants and  
<http://mtposo.com>)



Tulare, May 6 2009

# Local power plants



- El Nido – 10 MW
- Chowchilla – 10 MW
- Madera – 25 MW
- Fresno – 25 MW
- Mendota – 25 MW
- Dinuba – 11.5 MW
- Terra Bella – 9.5 MW
- Delano – 50 MW
- Mt Poso – 44 MW

Source: California Forestry Association (adapted)

# Mt Poso Cogeneration Facility



- ★ Managed by Millennium Energy
- ★ 49.5 MW coal and TDF plant (CFB)
- ★ Built 1989
- ★ Steam is pumped into oil wells to enhance recovery



Source: <http://mtposo.com>

# Project description

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- ★ Convert from coal to biomass fuel
- ★ De-rate to 44 MW
- ★ 24/7 base load electricity
- ★ BACT to minimize emissions
- ★ Currently co-firing
- ★ Full conversion by Q3 2010
- ★ Main work is wood fuel yard
- ★ Fuel requirement: ~340,000 BDT/year



## Also consider cement plants...

- ★ High energy user
- ★ High CO<sub>2</sub> emissions (from limestone and fuel)



<http://ucanr.org/woodybiomass>



# Key points

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- ★ Competitive market for fuel
- ★ Cheapest fuel wins
- ★ Will not pay for material to move from the forest
- ★ Typically agricultural and urban woody biomass sources
- ★ Open to forest sources





Source: <http://mtposo.com>

<http://ucanr.org/woodybiomass>