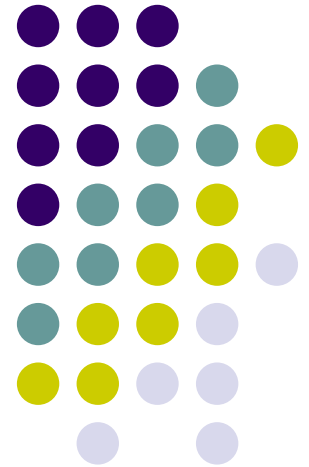
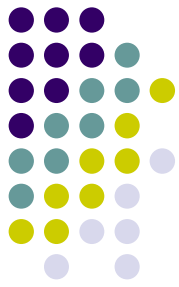


Local Large Scale Green Power

April 1, 2010
Community Meeting



How did we get to this point?



- 2002: California Green Power Law: Renewable Portfolio Standard (RPS) – 20% by 2017
- 2006: California Greenhouse Gas Reduction Law: AB32 Global Warming Solutions Act – green power cuts GHG
- 2007: California Green Power Law: Legislation accelerated RPS at 20% by 2010
- 2009: Governor Executive Order -- accelerate RPS to 33% by 2020 ...mainly to hit GHG targets

4/1/2010

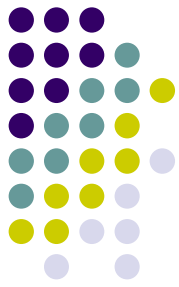
MID's Green Acquisitions To Date



- 2004: Acquired wind
 - 2 projects: Rio Vista and Columbia River Gorge
- 2008: Issued public Request For Offers for renewable energy
 - More wind: Columbia River Gorge
 - Solar PV: Shortlisted and negotiated with SunPower
- 2010: MID's renewable portfolio by year end
 - All wind, All in remote locations: totals 26%
 - Local large scale green possibilities: solar pv and biomass
- MID Public Workshops On Green Power: average 3 each year since 2004
 - Large scale: about 1 MW we also do customer scale PV

4/1/2010

Add Local Green



- 33% green under 10 cents/kwh is possible
...but 26% of it is worst fit
- Green power 2-way hedge:
 - Hedge against natural gas market...input\$
 - Hedge against carbon regulation...output\$
- Generation Down In Our System
 - Save losses
 - Unloads lines...so we can import more if we want/need
- Local PV and Biomass: better fit to customer load

Electric Supply Strategy



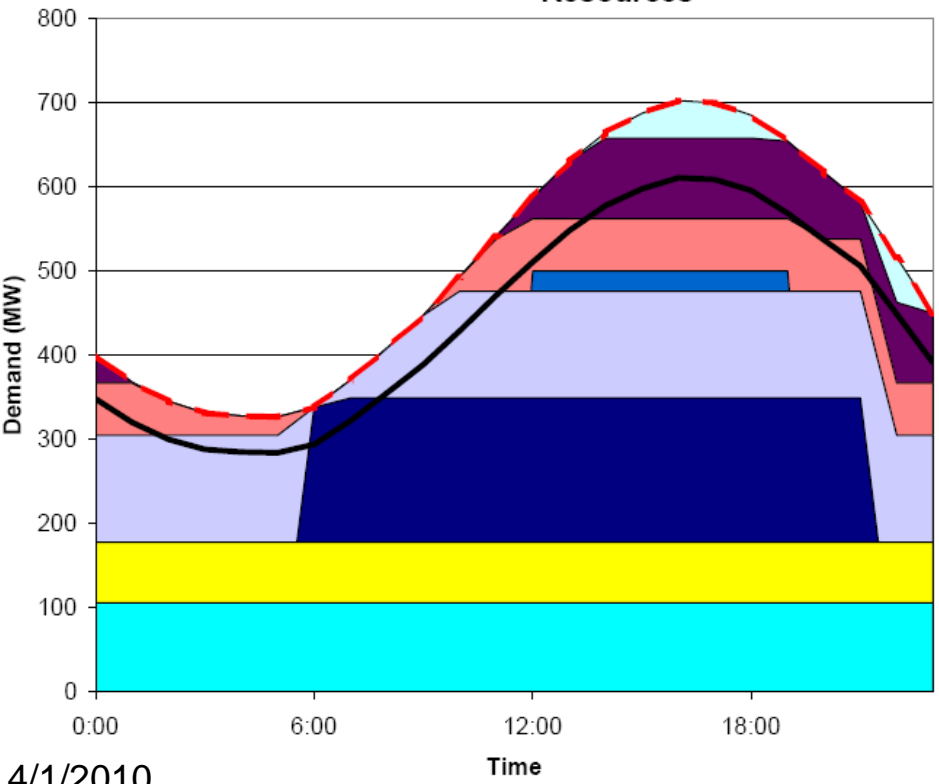
- Electric service to customers:
 - Highest reliability at the lowest cost
 - Generation supply: about 2/3 of total
- Generation Additions
 - Least Cost Best Fit whether brown or green
 - Best Fit: does generation profile fit customer needs?
 - Brown power cost range: 5 cents to 20 cents/kwh
 - Wind... least cost worst fit
 - Biomass...medium cost medium fit
 - Solar PV...highest cost best fit

July 2009 Available Resources

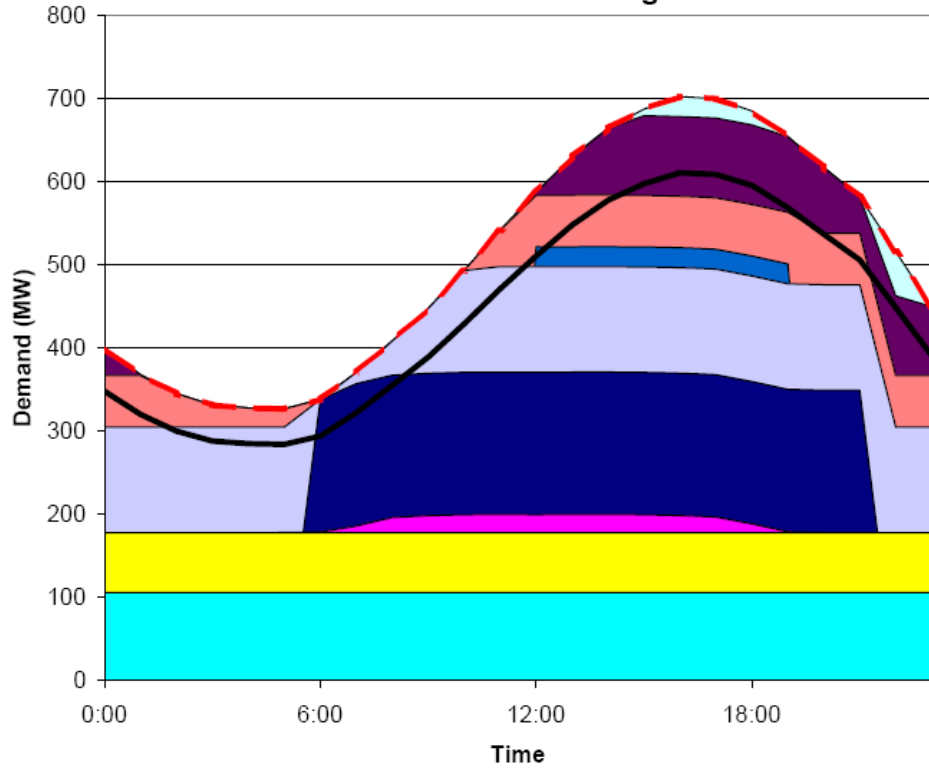


- McClure
- Ripon
- Don Pedro
- Super-Pk Purchases
- Woodland
- On-Pk Purchases
- 25MW Solar
- Coal
- BaseLoad Purchases
- Load Including Reserves
- Load

Weekday July 2009 (102 °F)
Resources

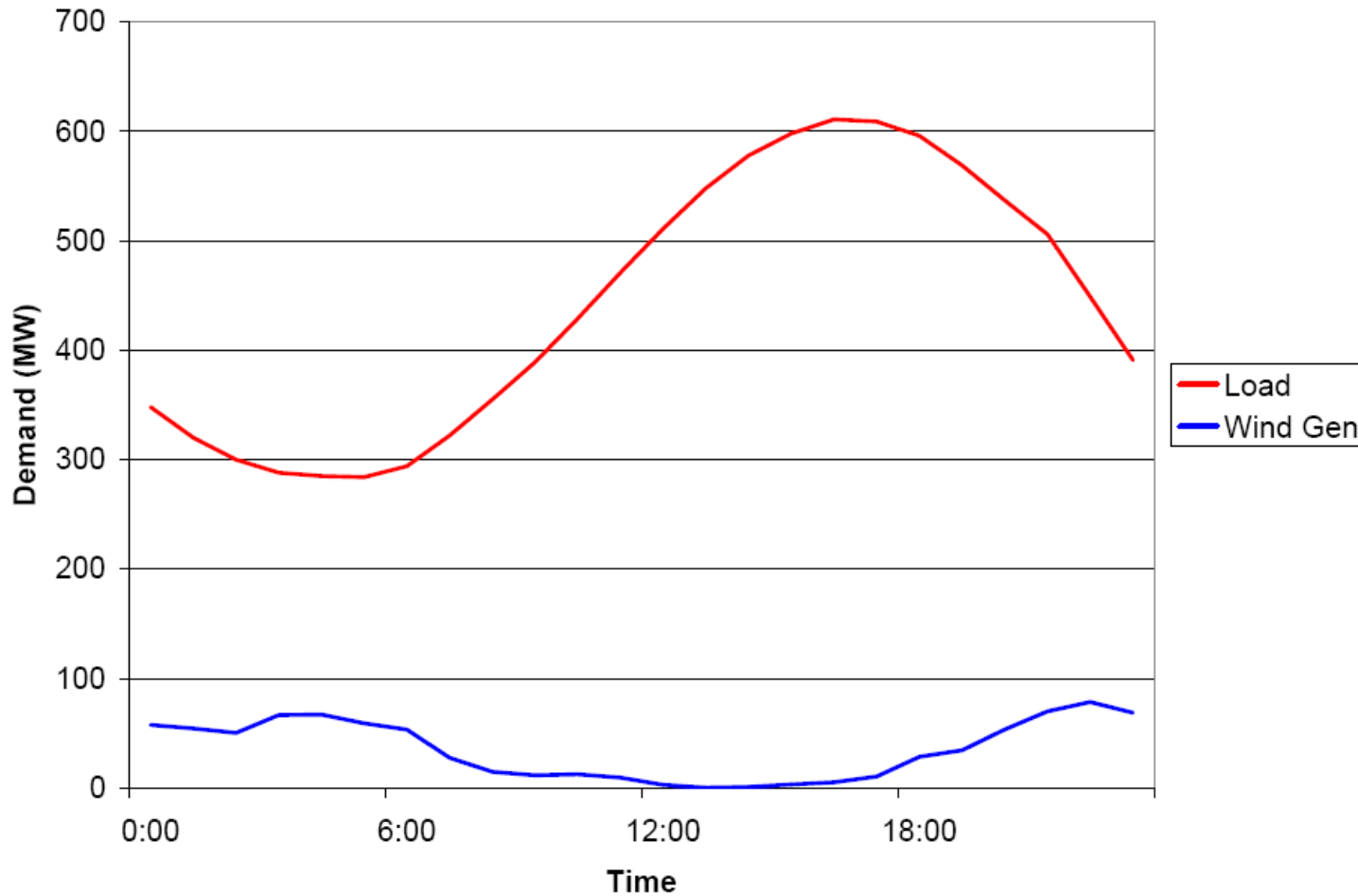
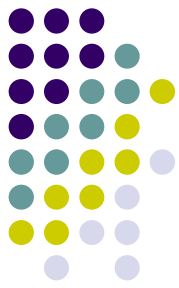


Weekday July 2009 (102 °F)
Resources Including 25MW of Solar



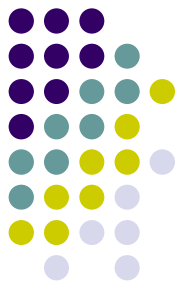
4/1/2010

How July Wind Generation Compares to Demand



4/1/2010

MID Green Power Procurement Strategy



- MID asked for offers...any technology...any location
- Each developer looks at several sites before they settle on one to define their project
- Site consideration includes proximity to MID's electric system, load and whether or not there is a willing land owner
- California Environmental Quality Act Process

The McHenry Solar Farm

