





The Demand Response Experience



GovEnergy
www.govenergy.gov



For More Information

- Would you like to know more about this session?
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Don't forget to fill out and drop off your session evaluations!



What is Demand Response

- Same as “curtailment”, “load shedding”
- Not the same as “load management” (permanent load shifting to less expensive hours)
- Programs typically under a utility tariff
- Programs may be managed by aggregators, third parties or utilities



Technical Approaches

- Backup generation (e.g., emergency generators)
 - May be prohibited by AQMDs
- Shut down operations (not feasible for federal buildings)
- Curtail non-critical load



Implementation of Curtailment

- Email, pager, phone communications
- Commonly day-ahead and/or day-of notice
- California Auto-DR: automatic shed by remote signal, with day-ahead opt-out ability
- Implement shed strategies manually, or by activating a program



GSA R9 Shed Strategies

- Focus on temperature curtailment, global setback to 78 deg F
- Supplement with some manual shutdowns (e.g., some lighting circuits, escalators, one elevator per bank)



GSA R9 Participation

- California ISO DRP (at time of energy crisis)
- CPA Demand Reserves Partnership through third party aggregator
- Auto-DR research program (LBNL)
- PG&E Business Energy Coalition Program (PG&E internal program)
- Just signed up for PG&E Auto-DR through third party aggregator



PG&E Programs:

- Business Energy Coalition
- PeakChoice
- Critical Peak Pricing
- Capacity Bidding Program
- Demand Bidding Program
- Base Interruptible Program
- Optional Binding Mandatory Curtailment Plan



PG&E (continued)

- Pilot Optional Binding Mandatory Curtailment Program
- Scheduled Load Reduction Program

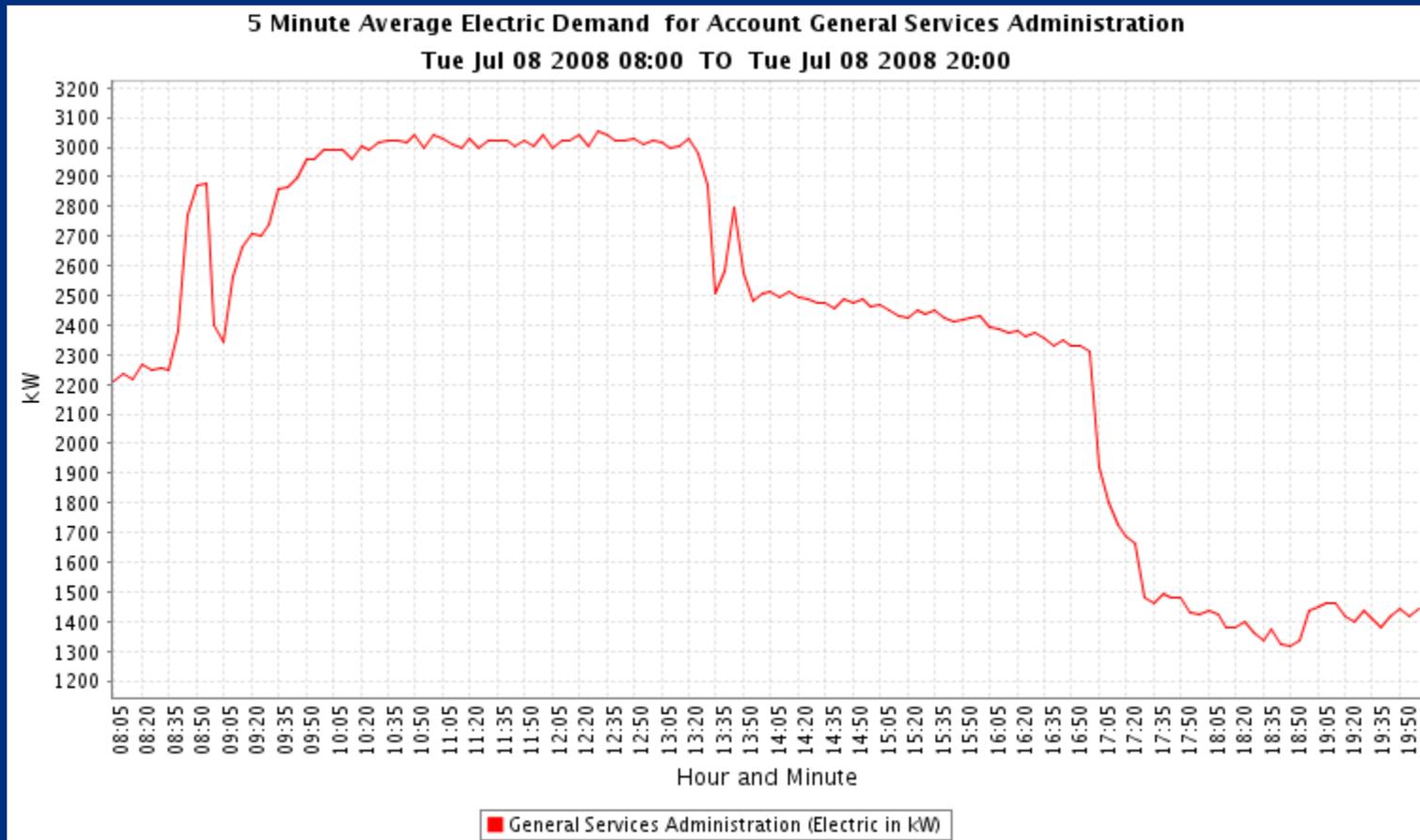


Major Variations in Terms

- Baseline method
- Penalties?
- 3rd party aggregators versus utility
- Degree of notice
- Payment structure (reservation, reduction, other)

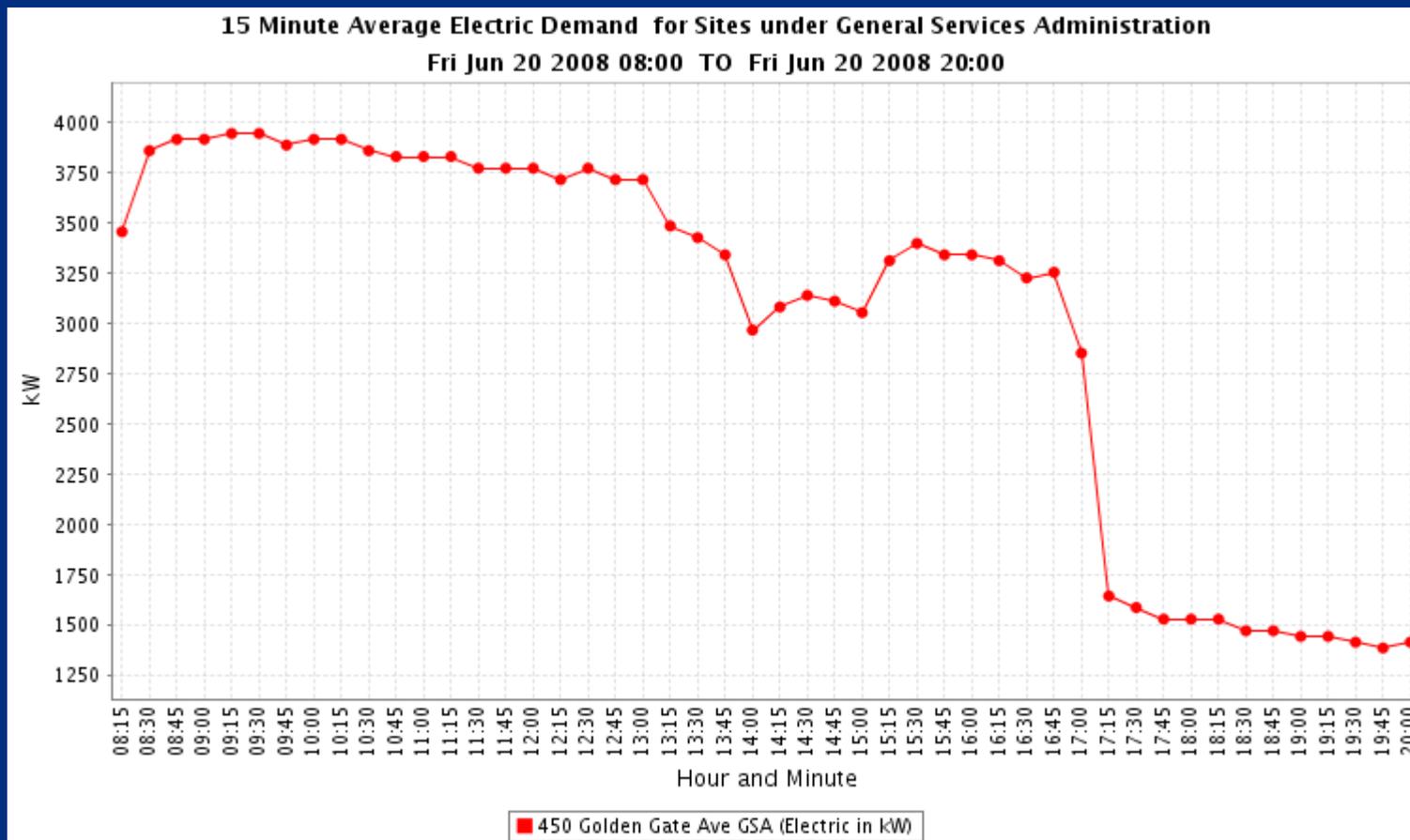
← BACK

7/8 Curtailment, Oakland FB



← BACK

6/20 Curtailment, Burton FB





Acquisition Issues

- Indemnification clauses
- Utility vs. Aggregator/ 3rd party
- Rules for aggregator/ 3rd party selection
- Dollar value of agreement
- Treatment of penalties
- Retention of funds



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