

PG&E Demand Response Programs Dispatch and Availability Matrix (2014)

Program Name	Failure to reduce or direct control?	Economic or Reliability Program?	Specific Triggers?	Ability to dispatch locationally?	Advanced Notification Time?	Availability?	Sustained Response Period?	Response time?	Events Callable per day per week per month?	Recovery Period?
Base Interruptible Program (BIP)	Financial Penalties	Reliability	CAISO: 1. Publicly issued Warning notice and has determined that a Stage 1 emergency is imminent 2. During a Stage 1, Stage 2, or Stage 3 emergency 3. Based on its forecasted system conditions and operating procedures 4. In the event of a transmission system contingency PG&E: 1. In the event of a transmission system contingency 2. Test events	Yes by sublap	30 minutes	365 days 24/7	≤ 4 hours	Full response by start of event	Day ≤ 1 event Month ≤ 10 events Year ≤ 180 hours	N/A
Capacity Bidding Program (CBP)	Financial Penalties with option for direct control	Economic	PG&E: 1. Market Heat Rate ≥ 15,000 BTU/kWh 2. Insufficient resources 3. Forecasted temperature ≥ trigger temperature 4. Test events	Yes by sublap	Day Of: 3 hours Day Ahead: 1500	May 1 – Oct. 31 Mon-Fri, No Holidays 1100-1900	1-8 hours	Full response by start of event	Day ≤ 1 event Month ≤ 30 hours	N/A
Aggregator Managed Portfolio (AMP)	Financial Penalties with option for direct control	Economic	PG&E: 1. Market Heat Rate ≥ 15,000 BTU/kWh 2. Insufficient resources 3. Forecasted temperature ≥ trigger temperature 4. Test events	Yes by Local Capacity Area (note: a PFM has been filed to change to subLAP)	Day Of: 30 min Day Ahead: 1500	May 1 – Oct. 31 Mon-Fri, No Holidays 1100-1900	4-6 hours	Full response by start of event	Day ≤ 1 event Year ≤ 80 hours	N/A
Peak Day Pricing (PDP)	Financial penalties with option for direct control	Economic	CAISO: 1. Special Alerts PG&E: 1. Forecasted peak temperature (5-station average) ≥ 98°F 2. Forecasted “high CAISO prices” 3. Meet minimum calling requirements 4. Test events	No	Day Ahead: 1400	365 Days/Year 1200-1800 Or 1400-1800	4 hours Or 6 hours	Unknown	Day ≤ 1 event Year ≤ 9-15 events	N/A
SmartRate	Financial penalties with option for direct control	Economic	CAISO: 1. Special Alerts PG&E: 1. Forecasted peak temperature (5-station average) ≥ 96°F 2. Forecasted “high CAISO prices” 3. “Extreme” system conditions 4. Meet minimum calling requirements 5. Test events	No	Day Ahead: 1500	May 1 – Oct. 31 Mon-Fri, No Holidays 1400-1900	5 hours	Unknown	Day ≤ 1 event Year ≤ 15 events	N/A

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SmartAC	Direct Load Control	Reliability	<p>CAISO:</p> <ol style="list-style-type: none"> Publicly issued a Warning notice and has determined that a Stage 1 emergency is imminent Emergency or near-emergency situations CAISO day-ahead energy price for the PG&E Default Load Aggregation Point is \$1,000/MWh <p>PG&E:</p> <ol style="list-style-type: none"> Emergency or near-emergency situations CAISO day-ahead energy price for the PG&E Default Load Aggregation Point is \$1,000/MWh Test events 	Yes by sublap	None required	May 1 – Oct. 31 24/7	≤ 6 hours	90-second for full response	Day ≥ 1 event Year ≤ 100 hours	N/A
Optional Binding Mandatory Curtailment Plan (OBMC)	Financial Penalties	Reliability	<p>CAISO:</p> <ol style="list-style-type: none"> When the CAISO states a firm load curtailment is required within the PG&E service territory Initiated or is planning to initiate firm load curtailments in a local geographic area <p>PG&E:</p> <ol style="list-style-type: none"> Initiated or is planning to initiate firm load curtailments in a local geographic area 	Yes by Local Electric Emergency Plan Zone	15 minutes	365 days 24/7	During the entire rotating outage	15 minutes for full response	Unlimited	
Demand Bidding Program (DBP)	No Penalties with option for direct control	Economic	<p>CAISO:</p> <ol style="list-style-type: none"> Issues an Alert notice or is expected to issue a Warning or higher level notice for the following day <p>PG&E:</p> <ol style="list-style-type: none"> CAISO load forecast ≥ 43,000MW Insufficient resources Forecasted temperature ≥ trigger temperature Test 	Yes by sublap	Day Ahead: 1200	365 days / year Mon-Fri, No Holidays 12:00-20:00	8 hours	Full response by start of event	Day ≤ 1 event Year - Unlimited	N/A