

## **Demand Response Resource Participation – Release 1 MRTU Straw Proposal for Process**

### **Day-Ahead Demand Response Programs**

CPP

DBP

CBP

PG&E – BEC (Day-Ahead)

PG&E DR RFP (Day-Ahead)

SDG&E – Peak Day Credit

### Demand Response Initiated by:

LSE

### Demand Response Forecast

Estimated Demand Response MW will be submitted to the CAISO using Excel template by close of the Day-Ahead Market which is 10:00 a.m. Demand Response MW will be broken out by program and by RUC Zone.

### *Questions for Discussion:*

- Can DR providers break down DR MW by RUC Zone?
- What communication is needed if any from the CAISO back to the DR provider and when?
- How does the CAISO know when program event limits have been met? Can this be included somehow in the template for all program types?

### Bids and self-schedules

LSE will submit price responsive demand bids and/or self-schedules that reflect load forecast by 10:00 a.m

### Adjustment of CFCD

The CAISO will adjust the CAISO Forecast of CAISO Demand (CFCD) based on expected Demand Response for purposes of reducing RUC procurement.

### *Questions for Discussion:*

- Since the DR quantities submitted to the CAISO are estimates. What is a reasonable amount for the CAISO to adjust the CFCD? Is it 100% of the estimated DR quantity is it more like 75% of the estimated quantity?
- Will adjustment made to CFCD for RUC be undone in STUC in Real-Time? Does the CAISO need to make this adjustment twice?

### Feedback on Actual DR Received

DR provider will send Excel template to CAISO the day after the operating day confirming how much DR was received.

#### *Questions for Discussion:*

Is it possible to get an accurate assessment of how much DR occurred as soon as the following day?

What if DR is not delivered as estimated? What can/should we do to tighten up the process, if necessary, to ensure estimate closely approximates actual? What level of accuracy should be expected based on historic baseline methodologies, etc.?

### Settlements

Real Time deviations from Day-Ahead schedule are paid at the RTM LAP price.

### **Day-Of Demand Response Programs – Price Responsive**

Day of DBP

Day of CBP

#### Demand Response Initiated By:

LSE

#### Demand Response Forecast

Estimated Demand Response MW will be submitted to the CAISO using Excel template in some cases day-ahead others X # of hours prior to event.

#### Bids and self-schedules

LSE will submit price responsive demand bids and/or self-schedules that reflect load forecast by 10:00 a.m the Day-Ahead using Excel Template.

#### *Questions for Discussion:*

Can a forecast be sent to the CAISO day-ahead for these Day-of programs?

If forecast can not be determined Day-Ahead how far can a forecast be determined in advance of the event?

#### Adjustment of CFCD

If a forecast is received by 10:00 am, an adjustment can be made in RUC for the following day which includes the Day-of programs.

If received by T-75, an adjustment can possibly be made to the CFCD for planning/operating the Real-Time market.

#### *Questions for Discussion:*

- Since the adjustment to CFCD in RUC does not carry into real-time do we need to make adjustment again in real-time ?

### Feedback on Actual DR Received

DR provider will send Excel template to CAISO the day after the operating day confirming how much DR was received.

### Settlements

Real Time deviations from Day-Ahead schedule are paid at the RTM LAP price.

### **Day-Of Programs – Emergency/Interruptible**

PG&E (Non-Firm) and SCE (I-6)

BIP

OBMC

SDG&E RBRP

SDG&E Summer Saver

SDG&E CPP

SCE ACCP

SCE (AP-1)

PG&E BEC (Day-of)

### Demand Response initiated by:

CAISO – Stage 2 emergencies

LSE – Pre Emergency

### *Open Questions for Discussion:*

Is the CAISO clear on what day-of programs it can initiate? Is this important or does the CAISO simply need to request Demand Response and the LSE decides the program to initiate?

### Demand Response Forecast

Emergency Events - Sent to CAISO when Stage 2 or Stage 3 is called

Pre-Emergency Events – sent to CAISO earlier than 75 minutes prior to the operating hour

### *Questions for Discussion:*

What is the existing process for the CAISO to request Demand Response? How can this process be improved?

How does the CAISO know how many program events remain? Should we add this data to the template?

### Settlements

Real Time deviations from Day-Ahead schedule are paid at the RTM LAP price.