

## **10/20/21 and 11/03/21 RA Track 3B.2 Workshops Resource Counting Questions**

In order to assess the various proposals to implement a slice of day approach, CalCCA and IEPA have developed the following questions that presenters should address within their proposal/presentation. Not all questions may be applicable to a specific presentation, but these questions can serve as a starting point for evaluating options.

### Resource counting and slice definition

1. Resource capability for resources like wind, solar, and hydro can vary considerably at different times of day and from the beginning to end of a season. How does the proposal account for this?
2. How often will slices be re-defined? Will resource counting updates follow the same timeline? How granular will the calculations be (i.e., different exceedances for each slice)?
3. How would a resource count if slice duration does not align with resource duration? For example, a four-hour minimum duration requirement and four-hour slices align. If the slices are shorter or longer than four-hours, how is the resource counted?
4. If a net load approach is used, how will wind and solar resource contributions be deducted from an LSE's gross load? Will this be top down based on LSEs getting a share of aggregate wind/solar profiles or bottoms up based on an LSE's specific resources under contract? Who will review and validate the contributions under each approach?
5. How will LSEs get credit for the slices procured through the local purchases made by the CPE? How would CPE crediting to LSEs work under a net load approach when the CPE is procuring RA from wind or solar?
6. Will each resource be assigned an NQC for each slice?

### Energy Sufficiency

1. How does the proposal ensure energy sufficiency in all hours (beyond the peak or net-peak hour of a slice)?
2. How does the proposal address use-limited resources that have limitations (i.e., daily, monthly, annual use limits) that impact the energy they can provide?
3. How does the proposal treat storage, including:
  - a. How does the proposal account for the need to charge storage?
  - b. Can storage resources count in consecutive buckets given the need to recharge after they have been dispatched?

- c. How will the charging hours account for battery inefficiency?
- d. How does the proposal apply to storage with different durations (i.e., 4-hour storage and storage with longer durations)?

### Transactability

1. Are slices (or slice obligations) bundled or can a resource sell to multiple LSEs for different slices?
2. If unbundled, how would RA showings be validated to account for resources selling the same capacity to different LSEs in different slices?
3. If bundled, how does the proposal prevent over-procurement where individual LSEs are long for certain slices because they cannot closely tailor their portfolios' generation profiles to their loads and are unable to sell the excess capacity other LSEs?
4. If SCE's hourly approach were adopted, would LSEs be able to sell hourly blocks of RA in hours in which they are long to other LSEs?