



Stakeholder Comments Template

Hybrid Resources Initiative: Metering & Telemetry Technical Workgroup

This template has been created for submission of stakeholder comments on the **Hybrid Resources Initiative, Metering & Telemetry Technical Working Group** that was held on August 27, 2019. The meeting material and other information related to this initiative may be found on the initiative webpage at:

<http://www.caiso.com/informed/Pages/StakeholderProcesses/HybridResources.aspx>

Upon completion of this template, please submit it to initiativecomments@caiso.com. Submissions are requested by close of business on **September 10, 2019**.

| Submitted by | Organization | Date Submitted |
|---------------------------------------|-----------------------------------|------------------|
| <i>Mike Pezone (415) 973-6093</i> | <i>Pacific Gas & Electric</i> | <i>9/10/2019</i> |

Please provide your organization's comments on the following issues and questions.

1. Metering Layout for Grid and Distribution Connection

There are a number of metering configurations that are available to the generating facilities that were presented during the 8/27/19 meeting. Please provide your organization's feedback on any issues related to the metering configurations discussed. Please explain your rationale and include examples if applicable.

PG&E requests that CAISO clarify the single resource ID configurations (pages 22 and 24) of the presentation. Specifically, does the configuration on page 22 represent a battery which charges from the grid and on-site solar or only on-site solar? Likewise, does the configuration on page 24 represent a battery which charges from the grid and on-site solar or only on-site solar? If there are single resource ID variations which are not included in the presentation, PG&E recommends that CAISO include them and their corresponding SCME/ISOME options in the Straw Proposal.

2. Metering Layout for AC and DC connection

There were a number of metering configurations available for AC and DC connection of hybrid resource components that were presented during the 8/27/19 meeting. Please provide your organization's feedback on any issue related to the AC and DC metering issues that were discussed. Please explain your rationale and include examples if applicable.

Regarding the metering configuration on slide 21 (*AC connection metering layout for separate resource IDs*), high side metering is still PG&E's preference. If high side metering is present (at the service delivery voltage) additional metering for the battery and PV can be optional to satisfy contractual agreements.

3. Other metering and telemetry needs

Please provide your organization's feedback on other metering and telemetry needs for hybrid resources.

No comment

Additional comments

Please offer any other feedback your organization would like to provide on the Hybrid Resources Initiative.

No comment