State of California	
Data Request	**R.16-07-002** **Integrated Resource Planning**
Subject: All load-serving entities are to provide an update on the resources that they originally reported in the 2017-18 IRP, along with supplemental information concerning the timing, nature, and maturity of the associated contracts.	Today's Date: July 12, 2019 • Questions about this Data Request due: July 29th, 2019 • Data Request Due Date: August 16, 2019 at 5 PM
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General Description

Decision 19-04-040 Ordering Paragraph 8 states: "[a]ll load-serving entities shall provide, by August 16, 2019 informally to Commission staff and thereafter in each subsequent individual integrated resource plan filed, detailed information about the contractual status and development status of each individual electricity resource included in their portfolios".

Pursuant to this order, CPUC Energy Division staff requests that LSEs that submitted Standard Plans in the 2017-2018 IRP cycle, resubmit the Excel baseline contract data templates originally submitted in August 2018, with additions and annotations as described below.

Staff plans to use this data to issue a progress chart aggregating and summarizing these contractual and development status updates, and showing how they compare to the adopted 2018 Preferred System Portfolio. Please note that staff will treat individual LSE's contract data as confidential, and only publicly release system-wide aggregations of the data.

Due Date

5 PM on Friday, August 16, 2019.

General Instructions

A. Please resubmit an updated, annotated version of the **baseline** resource Excel dataset you provided in August 2018 for the 2017-2018 Integrated Resource Planning cycle. Only the baseline conforming plan is required; it is not necessary to re-file alternative or preferred plans.

B. For reference, a blank copy of the original baseline resource template is available at: https://www.cpuc.ca.gov/uploadedFiles/CPUCWebsite/Content/UtilitiesIndustries/Energy/EnergyPrograms/ElectPowerProcurementGeneration/irp/2018/Data_LSEname_BaseRsrc_Identifier_yyyymmdd__revised20180618.xlsx

C. An Excel attachment, "contract_info", is provided with this data request. Please incorporate it into the baseline workbook following the instructions below.

D. Please **do not** resubmit the **new** resource template. However, as described below, staff requests that you transfer data originally reported in the new template to the baseline template.

E. This data request covers all resources under development and planned with CODs prior to January 1, 2025.

F. An example dataset for a generic LSE is also provided with the below instructions implemented for illustrative purposes.

G. Submit the files via the CPUC's Kiteworks Secure FTP application by the date specified above. Instructions for new FTP users can be found here: https://www.cpuc.ca.gov/uploadedFiles/CPUC_Public_Website/Content/KiteworksFTPExternalUsersQuickStartGuide.pdf

H. If you made multiple submissions during the last cycle to correct or clarify baseline data, please use the latest one to implement the requested changes.

I. Staff has provided a list of standardized LSE abbrevations in the attached abbreviations.xlsx file. Please use your LSE's appropriate abbreviation in the filename of your submission as follows: "[LSE Abbrevation]_contract_data_updated_2019_08_v1.xlsx". If you need to resubmit for any reason, use the same filename with the number at the end of the filename incremented by 1 (e.g. v2, v3, etc).

Detailed Instructions (Part 1)

Please update the Baseline_Resources tab using the following instructions. The purpose of this part of the instructions is to update the Baseline_Resources tab reported in August 2018, but NOT include resources that were originally reported on the "New Resources Data Template" (which will be handled in Part 2 of the instructions below).

1) Create five new columns at the right of the existing columns in the Baseline_Resources tab. The columns should be called "baseline_addition", "correction", "unspecified",

"resale", and "notes." Enter the columns as they are shown here: all lower case, with no spaces or special characters, except for the underscore in "baseline_addition."

2) Add new records at the bottom of the dataset which correspond to **one or both** of the following:

    a. Any approved contracts that the LSE entered into incremental to those that were reported in the August 2018 IRP filing. This includes all LSE-contracted/owned storage resources, both behind-the-meter and in front of the meter, regardless of whether they were reported in Energy Division's March 29, 2019 data request to identify baseline storage resources.

    b. Any in-progress contracts that the LSE did not originally report in August 2018, but that fall under one or more of the criteria described in the "Contract Status" section below.

    c. Do not include resources originally reported in the "New Resources Data Template" in August 2018 here. Instructions for those resources are in the next section (Part 2 below).

3) Enter 1 into the "baseline_addition" column if this line item was not originally reported in the August 2018 filing.

4) Enter 1 into the "unspecified" column if the line item does not represent a specific generating resource. Examples include imports, firmed and shaped renewable portfolios, or "block" energy contracts with no specific delivery times.

5) Enter 1 in the "resale" column if your LSE is purchasing energy from another LSE (for example, many CCA's have contracts with IOUs). Enter -1 (negative 1) in the resale column if your LSE is selling energy to another LSE.

6) If the August 2018 submissions contained any errors you wish to correct, please put the correct value in the appropriate row/column, and write 1 in that row of the "correction" column.

7) If you correct an error, please write a note in the "notes" column in the row of the corrected record, explaining what the source of the error was and what was done to correct it.

Detailed Instructions (Part 2)

The purpose of this section is to combine the updated "Baseline Resources" from the previous step with the "New Resources" items that were originally reported on the "New Resources Data Template" into the same worksheet, and eliminate duplicate rows.

8. Import the attached “contract_info” sheet to the baseline data Excel workbook, adding it as a new tab called “contract_info.”
9. In Columns A-D of the “contract_info” tab (the blue cells), create a <u>unique</u> list of all combinations of resource_id, owner_contract_type, resource_name, and resource_type from the baseline data. Each combination of these four items should appear exactly once, with each row representing one contract. You can do this by copy-pasting these columns into a blank sheet and using Excel’s “Remove Duplicates” command or using any programming language. **NOTE:** In the example filled-out template, in Columns T and onward, staff has provided example formulas for testing to make sure the contract_info is entered correctly. Staff recommends that you implement this or similar checks to avoid data entry errors.
10. In addition to the baseline data just described, add rows comprised of a unique list of the resources originally reported in the August 2018 New Resources Data Template to columns C and D. For these resources, use the value originally reported from Other_New_Description for the resource_name in Column C, and New_Resource_Type for resource_type in column D. For these resources, do not fill out columns A and B. Mark these resources with 1 in the from_new_data column F.
11. In Column E, if the resource is a hybrid resource (e.g. solar+storage), write a text description with approximate sizes of the technologies and their names (e.g. 10 MW battery, 100 MW peaker)
12. In Column G, contract_status, enter the resource’s contract status as described in the left-hand column of Table 1, “Contract Status Categories,” below. Please match exactly one of the 5 **bold** strings in the left-hand column of the table below. If a contract does not fall into any of these categories, please explain in the “notes” column and leave this field blank.
13. In Column H, “notes,” provide any notes to explain changes relative to August 2018. If the project is intended to be developed jointly with other LSE(s), please indicate your LSE MW share and name other joint developers.

Table 1: Contract Status Categories

Status	Description
online	Contract has been signed (or LSE owns the resource) and the resource is online.
development	Contract has been signed and approved by CPUC or LSE's highest decision-making authority (or LSE owns the resource), but resource is still under development and not yet online. If the resource is planned to come online in phases, report Commercial Operating Date for each phase in the Notes column.
review	Contract has been selected and is under review by LSE's highest decision-making authority (e.g. board of directors). For LSE-owned resources, this means that the decision-making authority is reviewing whether to authorize an LSE-owned resource. This includes contracts shortlisted as a result of an RFO or a similar procurement method. It can also include bilateral contracts not resulting from a Request for Offer (RFO).
planned	Contract (or decision to own resource) is planned for the future, and is not captured by the previous categories. Report both planned bilateral contracts and planned RFOs here. Only report resources with an expected online date prior to January 1, 2025.
canceled	Contract (or LSE-owned resource) was originally planned as of August 2018 data submission, but has since been canceled.

Viability Data

- Please fill out orange columns I-S, which concern the viability of future projects, as appropriate. If the project has a status of "online" or "canceled", or the contract does not correspond to a physical resource (i.e. if you marked it as an "unspecified" contract or a "resale" in part 1), write "N/A". However, if the project has any other status, you must fill this field out. The fields are described below. Some fields must only be filled with allowable values; those are listed below. If the item does not apply, write "N/A".

Contract Counterparty

- Name of counterparty (to the LSE) on the contract. The name of the special purpose entity can be included in this field. If the resource is owned rather than contracted by the LSE, this should be stated. If neither contracted nor owned by the LSE, state the project proponent's name.

Interconnection Type

- Enter what part of the electricity network the resource connects to: Distribution network, Transmission network, or Behind-the-meter of the primary electricity user ("BTM"). In the case of BTM storage, enter whether the aggregated storage is radially connected to a distribution or transmission substation. Allowable values are: dist , trans, btm_dist , btm_trans.

Interconnection Tariff

- Enter the process under which the resource is/will be interconnected.
- Allowable values are the following **bold** items: **IID**: Imperial Irrigation District, **BPA**: Bonneville Power Administration, **WDAT**: Wholesale Distribution Access Tariff, **Rule 21**, **GIDAP**: Generator Interconnection and Deliverability Allocation Procedures, **GIP**: Generator Interconnection Procedure, **LGIP**: Large Generator Interconnection Procedure, **SGIP**: Small Generator Interconnection Procedure, **Unknown**

CAISO Cluster ID

- For projects in CAISO Cluster process, enter Cluster Number. Enter "TBD" if developer hasn't applied yet. Leave blank if a project never needed a cluster number (e.g. Legacy QF contracts, REC only), if the queue position is unknown as the contract is already online or if project is out of CAISO area.

Interconnection Queue Position

- Queue position assigned by CAISO, ISO, or Utility. Enter "TBD" if developer hasn't applied yet. Enter "N/A" if a project never needed a queue position (e.g. Legacy QF contracts, REC only), if the queue position is unknown as the contract is already online or if project is out of CAISO area.

Substation Name

- Input the name of the substation for the point of interconnection of the project, as assigned by the Participating Transmission Owner.

Status of Interconnection Agreement

- Status in process of signing the interconnection agreement. If a project goes through multiple interconnection processes, track the information associated with whatever level of deliverability is required to achieve COD under the contract.
    - For example, if a PPA requires full capacity to achieve COD, then report information on the status of the full capacity interconnection process. If full capacity is not required to achieve COD, then report on the energy only interconnection process.

    - Use N/A for all projects that do not have to conduct a Feasibility Study (e.g. facilities that are not being studied because they have existing interconnections, or have passed the fast track tests).
- Allowable values for this field are:
    - Not started,
    - Developer has submitted its Interconnection Request Application,
    - Developer has submitted requirements for maintaining queue position,
    - Project accepted through Fast Track Process,
    - Project has technical scoping meeting,
    - Project is undergoing Phase I Study,
    - Developer has received results of Phase I Interconnection Study,
    - Developer filed application for Phase II Interconnection study,
    - (GIDAP) ISO performs reassessment study based on developer decisions from phase I results,
    - Project is undergoing Phase II Interconnection Study,
    - Developer has received results of Phase II interconnection study,
    - (GIDAP) Developer has received results and submitted affidavits attesting to progress on specified milestones,
    - (GIDAP) CAISO provides TP Deliverability allocation results to customers for eligible projects,
    - Project is negotiating its GIA,
    - GIA executed and developer has posted 2nd IFS,
    - Project makes third financial posting at start of construction activities,
    - Self Perform,
    - Complete,
    - Withdrawn,
    - N/A,
    - Unknown

Note: The following fields should only be filled with 1, 2, 3, 4, or N/A. Please only use these numbers below for this response, as appropriate by field.

cod_ reasonableness

- 1 - Interconnection Phase II study complete; permitting application approved; these support reported COD.
- 2 - Interconnection Phase II study in progress; permitting application in progress; LSE has plan that supports reported COD.
- 3 - One or more of criteria for rating "2" not in place.

technical_feasibility

- 1 - Project will use a commercialized technology solution that is currently in use at a minimum of two operating facilities of similar or larger size.
- 2 – Criteria for rating 1 not in place.

resource_sufficiency

- 1 - Project-specific independent engineering assessment is complete and supports the delivery profile (capacity and/or production).
- 2 – Criterial for rating 1 not in place.

financing

- 1 - All Financing Secured.
- 2 - Partial Financing Secured.
- 3 - Seeking Financing.
- 4 - Not Yet Seeking Financing.
- N/A-No Financing Required.