

# 2021 Central Procurement Entity Local RA RFO Offer Form Webinar

*May 10, 2021*



Together, Building  
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## Q&A / Audio Replay

- At any time during this presentation participants should email their questions to the Solicitation mailbox: [CPEsolicitations@pge.com](mailto:CPEsolicitations@pge.com)
- There will be time to answer questions at the end of the webinar
  - PG&E CPE may not address all of the questions during the Q&A portion of the webinar
  - After the webinar, PG&E CPE will compile and post a Q&A document on the RFO website at: <http://www.pge.com/2021cperfo>
- The audio portion of the webinar will also be posted on the RFO website as noted above



# Document Conflicts

- This presentation is intended to be a summary level discussion of the information and requirements established in the Solicitation materials (it does not include all of the detailed information in the Solicitation materials).
- To the extent that there are any inconsistencies between the information provided in this presentation and the requirements in the Solicitation materials, the Solicitation materials shall govern.
- PG&E CPE encourages participants to carefully review the **2021 CPE Local RA RFO – Solicitation Protocol**
- **If Participants have questions regarding the Solicitation documents, PG&E CPE asks Participants to seek clarity by submitting their questions to the Solicitation mailbox prior to submitting an Offer.**



# Objective & Agenda

- The purpose of this webinar is to provide an overview of the four CPE Offer Forms for the 2021 CPE Local RA RFO.
  - All information in this presentation applies only to the 2021 CPE Local RA RFO.
- Agenda

Topic	Slides
CPE and LCR RCM Decisions	5-7
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# CPUC D.20-06-002 and D.20-12-006 Overview



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# Overview of CPUC D.20-06-002 and D.20-12-006

## **D. 20-06-002 (“CPE Decision”):**

- On June 17, 2020, the CPUC issued the CPE Decision, identifying PG&E and Southern California Edison Company (SCE) as the central procurement entities for their respective electric distribution service areas.
- Beginning in 2021, PG&E and SCE are required to procure local capacity to meet the 3-year forward multi-year local RA requirement on behalf of all CPUC jurisdictional LSEs within their respective electric distribution service areas.
- The CPE can meet its local RA requirements by procuring (a) local RA capacity through an all-source competitive solicitation process and (b) local RA capacity that is committed (“self-shown”) to the CPE.

## **D. 20-12-006 (“LCR RCM Decision”):**

- Certain preferred resources, energy storage resources, and hybrid resources that are self-shown to the CPE are eligible for compensation up to a pre-determined Local RA premium.



# Overview of CPUC D.20-06-002 and D.20-12-006

## **D. 20-06-002 (“CPE Decision”) Ordering Paragraph 14:**

- Least cost best fit methodology employed by the CPE shall include the following selection criteria
  - a) Future needs in the local and sub-local areas
  - b) Local effectiveness factors
  - c) Resource costs
  - d) Operational characteristics of the resources (efficiency, age, flexibility, facility type)
  - e) Location of the facility (with consideration for environmental justice)
  - f) Costs of potential alternatives
  - g) Greenhouse Gas (GHG) Adders
  - h) Energy-use limitations
  - i) Procurement of preferred resources and energy storage (to be prioritized over fossil generation)

## **D. 20-06-002 (“CPE Decision”) Ordering Paragraph 15:**

- The CPE shall direct bidders to include the following attributes for a resource:
  - a) CalEnviroScreen score or, if unavailable, pollution burden of the resource
  - b) Facility age
  - c) Start-up Time
  - d) Ramp Rate



# CPE Solicitation Structure

## 1. Non-Compensated Self-Shown Commitment Process

- **Product:** Non-Compensated Self-Shown Local RA
- **Eligible Counterparties:** CPUC LSEs
- **Description:** Self-shown commitments will reduce the total amount of Local RA that PG&E CPE will need to procure through other methods.

## 2. Competitive Offer Process

### ➤ Compensated Self-Shown Commitment (LCR RCM)

- **Product:** Compensated Self-Shown Local RA
- **Eligible Counterparties:** CPUC LSEs
- **Description:** Eligible resources can be compensated for a self-shown commitment.

### ➤ Compensated Offered Resources

- **Products:** Bundled RA, Bundled RA with Energy Settlement\*
- **Eligible Counterparties:** All Market Participants
- **Description:** PG&E CPE will procure all bundled RA attributes of resources selected through the solicitation process.

\*CPUC LSEs can elect to self-show their resource for no compensation if their Offer is not selected by PG&E CPE



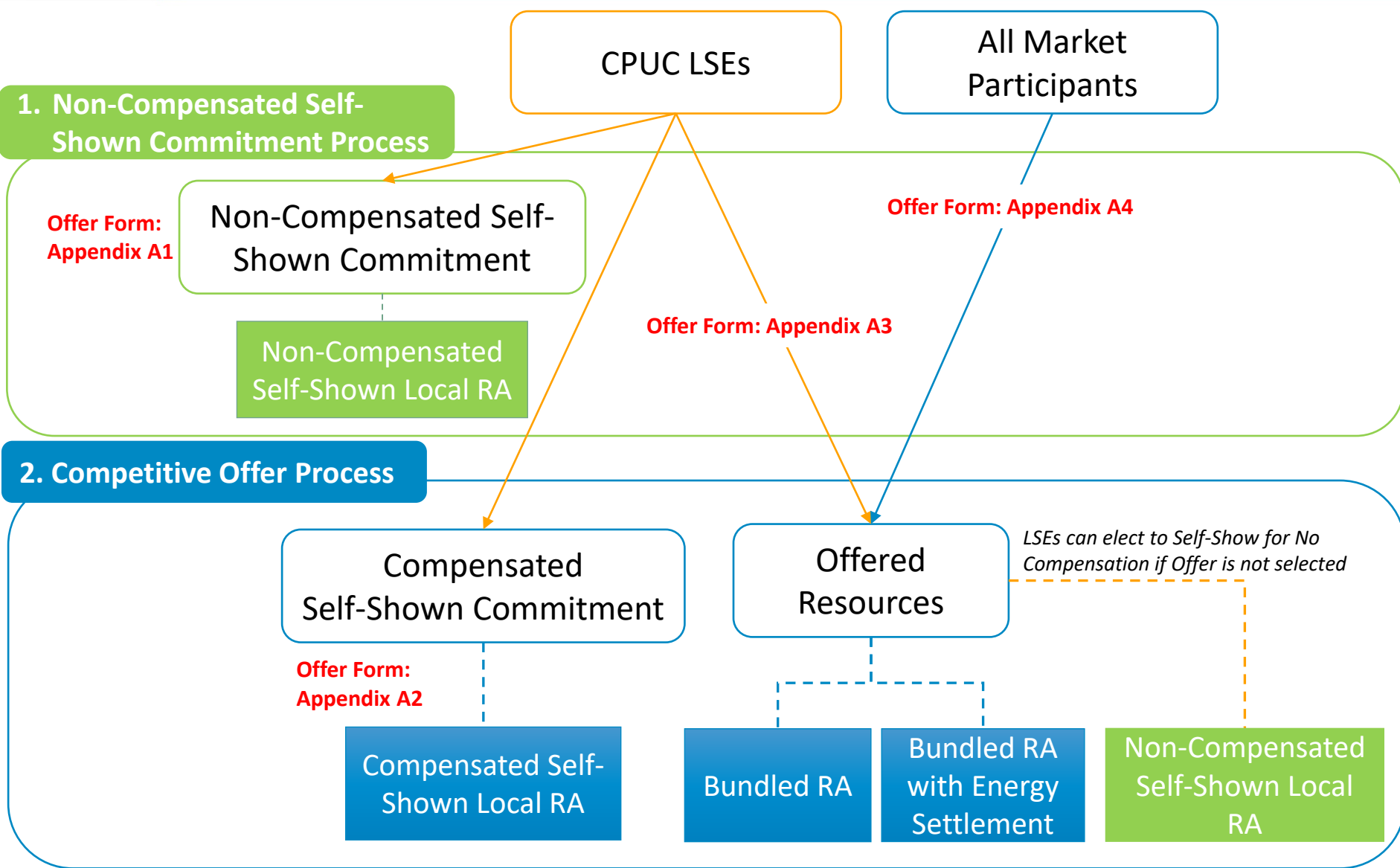
# Offer Form Instructions



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# Step 1 – Downloading and Selecting an Offer Form





# Step 1 – Downloading and Selecting an Offer Form

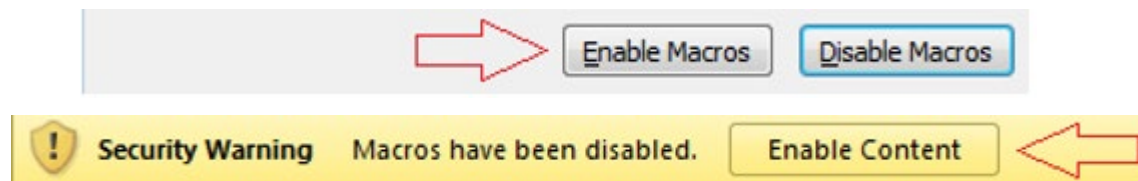
Download offer forms from the 2021 CPE Local RA RFO website at [www.pge.com/2021cperfo](http://www.pge.com/2021cperfo).

Under the “**CPE Local RA Solicitation Protocol and Appendices**” heading the download links to the forms can be found as pictured here:

- [Appendix A1 – Offer Form - Non-Compensated Self-Shown Resource](#) (XLSB, 577.2 KB)
- [Appendix A2 – Offer Form - Compensated Self-Shown Resource](#) (XLSB, 573.1 KB)
- [Appendix A3 – Offer Form - Compensated Offered Resource \(CPUC LSEs including PG&E\)](#) (XLSB, 571.7 KB)
- [Appendix A4 – Offer Form – Compensated Offered Resource \(All Non-CPUC LSE Participants\)](#) (XLSB, 555.3 KB)

When an offer form link on the webpage is clicked, the form will download to your computer as an Excel workbook.

**PLEASE NOTE:** The offer forms include many features that are macro driven. You must enable macros or the forms will not function correctly. Here are typical macro enabling prompts you may see.





# Step 2 – Initial Input Screen

## Appendix A3: Compensated Offered Resources (CPUC LSEs including PG&E Participant)

### Appendix A3: Initial Input Screen

1. Participant selects Resource and Technology Type
2. Participant indicates whether resource is New or Existing per solicitation definition.
3. Participant selects IDD and Delivery Term for RA transaction (48-month maximum term).
4. CPUC LSE's have the option to show for no compensation if competitive offer is not selected.
5. Depending on resource type selected, Participant has ability to select specific energy settlement option(s).

Choose Your Offer Type

Pacific Gas and Electric Company®  
2021 CPE Local RA RFO  
Version 2021.0.1

### Setup Initial Offer

Select Resources: (NA or No for none)

Storage Resource [dropdown] 1

Non-Hydro Renewable Resource [dropdown]

Gas Fired Resource [dropdown]

DR Resource [dropdown]

Hydro Resource [dropdown]

RA Project New or Existing

New 2

Existing

Resource Adequacy Agreement

Initial Delivery Date (1st of the month) [dropdown] 3

Delivery Term (In Months) [dropdown]

Voluntary Shown Agreement

Default to Voluntary Shown if not selected

Initial Delivery Date (1st of the month) [dropdown] 4

Delivery Term (In Months) [dropdown]

Energy Settlement

Option 1 - Energy Storage

Option 2 - Gas Fired 5

Option 3 - Fixed Generation

Option 4 - Monthly Price Schedule

Clear ES

After making these choices, the form will be locked and they cannot be changed. If you want to change the basic parameters of the Agreement you will need to start with a new copy of the Offer Form.

Create Offer

Cancel

Hit "Create Offer" button once all choices are made.




# Step 2 – Initial Input Screen

## Appendix A3: Compensated Offered Resources (CPUC LSEs including PG&E Participant)

### Appendix A3: Example

1. Participant selected Solar PV as their resource.
2. Participant indicated the resource is an Existing resource.
3. Participant selected IDD Jan 2023 and a maximum Delivery Term of 48-months.
4. Participant elected to default their offer to a Non-Compensated Shown Resource if not selected with a Shown Term of 24 months.
5. Participant elected to offer the Energy Settlement and selected the Fixed Generation Profile option.

Choose Your Offer Type

 **Pacific Gas and Electric Company**

**2021 CPE Local RA RFO**  
**Version 2021.0.1**

### Setup Initial Offer

Select Resources: (NA or No for none)

Storage Resource	NA
Non-Hydro Renewable Resource	Solar PV
Gas Fired Resource	NA
DR Resource	NA
Hydro Resource	NA

Energy Settlement

Option 1 - Energy Storage     Option 2 - Gas Fired  
 Option 3 - Fixed Generation Profile     Option 4 - Monthly Price Schedule   

RA Project New or Existing

New  
 Existing

Resource Adequacy Agreement

Initial Delivery Date (1st of the month)    2023-Jan  
Delivery Term (In Months)    48

Voluntary Shown Agreement

Default to Voluntary Shown if not selected

Initial Delivery Date (1st of the month)    2023-Jan  
Delivery Term (In Months)    24

**After making these choices, the form will be locked and they cannot be changed. If you want to change the basic parameters of the Agreement you will need to start with a new copy of the Offer Form.**



## Step 3 – Review Instructions Tab

- In response to the click of the “Create Offer” button the form’s instruction tab “Instructions” tab will be displayed. Please review the instructions carefully prior to proceeding.



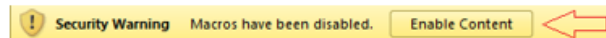
Instructions for Appendix A: PG&E CPE's 2021 Local Reliability RFO  
Version 2021.0.1

### ENABLE MACROS - OTHERWISE THIS WORKBOOK WILL NOT FUNCTION PROPERLY.

Macros can be enabled by clicking the "Enable Macros" button on the "Microsoft Excel Security Notice" that is displayed before the form opens...



...or by clicking the "Enable Content" button that is sometimes displayed at the top of the screen when the form first opens.



Unless otherwise provided herein, all capitalized terms shall have the meaning ascribed to them in PG&E CPE's 2021 Local Reliability RFO dated April 16, 2021 or the applicable Agreement.

#### Important Notes

1. Follow the instructions on the "File Name" tab explicitly. This offer form will not be accepted if the steps outlined on that tab have not been followed!
2. Please submit this file in Microsoft Excel. Other versions will not be accepted.
3. Please save often.
4. Do not copy-and-paste into this workbook from past offer forms as that can confound the operation of macros in this workbook.
5. The workbook is set to recalculate automatically; however, if for some reason it is not refreshed automatically, please press F9 to refresh.
6. Please close all other Excel files while using this workbook to prevent its macros from producing unwanted interactions across open workbooks.
7. Every cell with an orange background must be filled in. As you fill these fields in, the orange background will disappear. Check that all entry fields are green.
8. If a cell has a white background then you cannot enter data.

- Once you have reviewed the Instructions tab, proceed to the “OfferInfo” tab.





# Step 4 – Fill out OfferInfo Tab Completely

## Agreement Type Section

AGREEMENT TYPE	
<b>Use This Variant?</b>	
<b>Agreement Type</b>	<b>Resource Adequacy</b>
<b>Will project include any Storage component?</b>	NA
<b>Will project include any Renewables component?</b>	Solar PV
<b>Will project include any Gas component?</b>	NA
<b>Will project include any Hydro component?</b>	NA
<b>Will project include any DR component?</b>	NA
<b>New or Existing RA Project?</b>	New
<b>Energy Settlement?</b>	NA
<b>Default to Voluntarily Shown if Not Selected?</b>	No
<b>Counterparty Type</b>	CPUC Jurisdictional Load Serving Entity
<b>Is this resource in front of the meter or behind the meter?</b>	Front of the Meter
Project Name	
Project Street Address	
Project City	
Project State	
Project Zip	
Project County	
CAISO Resource ID (if available)	RESOURCE_1_UNIT 1

Selections made in the initial input panel are automatically displayed.

Participant indicates whether resource is in front or behind the meter.

Orange back-grounds turn green when a required field is populated.



# Step 4 – Fill out OfferInfo Tab Completely

## Participant Information Section

<b>PARTICIPANT INFORMATION</b>	
Has Participant Previously Transacted Wholesale Power with PG&E?	
Counterparty/Legal Entity Name	
Street Address	
City	
State	
Zip Code	
Country	
Website URL	
<b>Authorized Contact #1: First Name</b>	
Last Name	
Title	
Phone 1	
Phone 2	
Email	
<b>Authorized Contact #2: First Name</b>	
Last Name	
Title	
Phone 1	
Phone 2	
Email	
<b>Developer/Legal Entity Name</b>	
Street Address	
City	
State	
Zip Code	
Country	
<b>* Owners of Participant Entity or Project</b>	
Name 1	
Ownership %	
Website URL	
Name 2	
Ownership %	
Website URL	
Name 3	
Ownership %	
Website URL	
Ownership Notes	
<b>Total Ownership Percent</b>	<b>0%</b>

Participant Information section asks for counterparty, developer, and ownership contact information.





# Step 4 – Fill out OfferInfo Tab Completely

## RA Agreement Section

TRANSACTION (Capacity Attributes of Product as of Execution Date)		
NQC Data Source	CAISO 2021 NQC Report	
RA Attributes		
JAN	10.00	CAISO NQC (MW)
FEB	10.00	CAISO NQC (MW)
MAR	10.00	CAISO NQC (MW)
APR	10.00	CAISO NQC (MW)
MAY		CAISO NQC (MW)
JUN		CAISO NQC (MW)
JUL		CAISO NQC (MW)
AUG		CAISO NQC (MW)

After completing Participant Information section, Participant can begin to enter offer information into the Transaction section. Participant needs to select a Net Qualifying Capacity (NQC) data source and then populate NQC values for Jan – Dec based on data source selected. For Compensated Resource Offers (Appendices A3, A4), Participants are also prompted to enter Effective Flexible Capacity (EFC) values for flex attributes of the resource.



# Step 4 – Fill out OfferInfo Tab Completely

## RA Agreement Section

<b>Monthly Offered Contracted Percentage</b>	
Contracted Percentage JAN 2023	100.00%
Contracted Percentage FEB 2023	100.00%
Contracted Percentage MAR 2023	50.00%
Contracted Percentage APR 2023	50.00%
Contracted Percentage MAY 2023	
Contracted Percentage JUN 2023	
Contracted Percentage JUL 2023	

Next, Participant will enter the Contracted Percentage for each month of the selected term. For Non-Compensated Shown Resources, Participant will enter Shown Percentages in a similar manner. For Compensated Resource Offers, percentages entered will apply to both NQC and EFC for resources with flex attributes.

## Contract Price

<b>Contract Price (\$/kw-month)</b>		
Calendar Year 2023		\$/kw-month
Calendar Year 2024		\$/kw-month
Calendar Year 2025		\$/kw-month
Calendar Year 2026		\$/kw-month

Once Participant has entered their offered Contracted Percentages, Participant will enter their offered Contract Price for each calendar year of the desired term.



# Step 4 – Fill out OfferInfo Tab Completely

## Project Information

Project Information	
Local Area	Greater Bay Area
Local Sub Area	San Jose
Census Tract of Resource Location	
	Yes
Does the Census Tract of the Resource Location have a CalEnviroScreen Score?	
CalEnviroScreen Score of Resource Location	
Project latitude	
Project longitude	
Commercial Operation Date	
Estimated Useful Life of Resource	
Maximum Cumulative Capacity (MCC) Bucket of the Resource	Category 2
Flexible Capacity Category of the Resource	Peak Ramping
Annual Fuel Consumption Forecast	
Annual Generation Forecast	
Annual CO2 Emissions Forecast	
California Energy Commission (CEC) - Plant ID	
California Air Resources Board (CARB) - ARB ID	
<b>Electrical Interconnection Information</b>	
Do you have existing interconnection?	
Do you have a completed Interconnection Agreement or Equivalent	
Total Interconnection Capacity	
Zone (e.g. NP-15)	
Physical point of interconnection to CAISO Grid	
PNode	
Point of interconnection address	
Substation	

Participant must select resource's local area and sub area (if applicable). For BTM resources, Participant will be asked to choose from a list of Local Area/Sub LAP choices.

Prompts related to selection criteria outlined in OP 14 and 15 of the CPE Decision.



# Step 4 – Fill out OfferInfo Tab Completely

## Operational Characteristics

<b>Renewable - OPERATIONAL CHARACTERISTICS</b>	
<b>• Operating Characteristics</b>	
Maximum generation capacity (PMax of the Project)	
Minimum generation capacity (PMin of the Project)	
Minimum dispatchable level (Dmin of the Project)	
<b>• Ramp Rates</b>	
Maximum ramp rate	
<b>• Starts and other Run Time Limitations</b>	
Start-up time	
Maximum startups per day	
Minimum run time after start-up (if applicable)	
Minimum down time after shut-down (if applicable)	
<b>• Other Characteristics</b>	
Dispatchable	
<b>• Ancillary Services (defined terms below have the meaning</b>	
<b>• At ISO conditions, normal efficiency mode</b>	
Spinning Reserves	
Non-Spinning Reserves	
Regulation Up: Lower Bound	
Regulation Down: Lower Bound	
Regulation Up: Upper Bound	
Regulation Down: Upper Bound	
Black Start capability (if applicable)	
<b>• Voltage Services</b>	
Generator voltage regulation range (+/-)	
Maximum reactive power leading	
Maximum reactive power lagging	

Information entered in this section of the offer form will be used for Appendix III of the Form Agreement. Operational Characteristics will vary depending on resource type chosen by Participant.



# Step 5 – Energy Settlement (Appendix A3, A4 Only)

Resources being offered for compensation have the option to select an energy settlement based on the type of resource being offered.

- Energy Storage resource type can select Energy Storage Energy Settlement option.
- Gas Fired resource type can select Gas Fired Energy Settlement option.
- Renewable, Hydro and DR resource types can select either Fixed Profile or Monthly Price Schedule Energy Settlement options.
- Hybrid resources can select from any of the energy settlement options associated with the resource's technology types.

Example – Solar PV Resource choice unlocks Fixed Profile and Monthly Price Schedule options to choose from:

Choose Your Offer Type

Pacific Gas and Electric Company® 2021 CPE Local RA RFO Version 2021.0.1

## Setup Initial Offer

Select Resources: (NA or No for none)

Storage Resource	NA
Non-Hydro Renewable Resource	Solar PV
Gas Fired Resource	NA
DR Resource	NA
Hydro Resource	NA

RA Project New or Existing

New  
 Existing

Resource Adequacy Agreement

Initial Delivery Date (1st of the month) 2023-Jan  
Delivery Term (In Months) 48

Voluntary Shown Agreement

Default to Voluntary Shown if not selected

Initial Delivery Date (1st of the month) 2023-Jan  
Delivery Term (In Months) 24

Energy Settlement

Option 1 - Energy Storage  Option 2 - Gas Fired  
 Option 3 - Fixed Generation Profile  Option 4 - Monthly Price Schedule

After making these choices, the form will be locked and they cannot be changed. If you want to change the basic parameters of the Agreement you will need to start with a new copy of the Offer form.



# Step 5 – Energy Settlement (Appendix A3, A4 Only)

## Energy Storage Energy Settlement Option

If Participant selects the Energy Storage energy settlement option, they input offered Variable O&M rate and offered Energy Settlement Payment Quantities for each month of the user’s desired term.

ENERGY SETTLEMENT	
Option 1 - Energy Storage	
Variable O&M (VOM)	
Duration	0
Round Trip Efficiency	0
Monthly Offered Energy Settlement Payment Quantities	
Energy Settlement Payment Quantity JAN 2023	
Energy Settlement Payment Quantity FEB 2023	
Energy Settlement Payment Quantity MAR 2023	
Energy Settlement Payment Quantity APR 2023	
Energy Settlement Payment Quantity MAY 2023	
Energy Settlement Payment Quantity JUN 2023	
Energy Settlement Payment Quantity JUL 2023	
Energy Settlement Payment Quantity AUG 2023	
Energy Settlement Payment Quantity SEP 2023	
Energy Settlement Payment Quantity OCT 2023	
Energy Settlement Payment Quantity NOV 2023	
Energy Settlement Payment Quantity DEC 2023	
Energy Settlement Payment Quantity JAN 2024	
Energy Settlement Payment Quantity FEB 2024	
Energy Settlement Payment Quantity MAR 2024	
Energy Settlement Payment Quantity APR 2024	
Energy Settlement Payment Quantity MAY 2024	
Energy Settlement Payment Quantity JUN 2024	

\$/MWh

Duration and Round-Trip Efficiency are automatically pulled from operational characteristic inputs.

### Energy Storage

- **Concept:** The difference between the “k-th” highest priced hours and the “k-th” lowest priced hours of each day, adjusted for the contractual variable O&M and roundtrip efficiency. “k” is equal to the duration of the resource (e.g., 4 hours).
- **ES Calculation:** For each hour,  $[\text{Largest Day-Ahead Price}_k - (\text{Smallest Day\_Ahead Price}_k + \text{VOM})] * \text{Energy Settlement Payment Quantity ("ESPQ")}$



# Step 5 – Energy Settlement (Appendix A3, A4 Only)

## Gas Fired Energy Settlement Option

If Participant selects the Gas Fired energy settlement option, Participant inputs Contract Heat Rate, Variable O&M rate, and offered Energy Settlement Payment Quantities for each month of the Participant’s desired term.

ENERGY SETTLEMENT	
<b>Option 2 - Gas Fired</b>	
Contract Heat Rate	mmBtu/MwH
Variable O&M (VOM)	\$/MwH
Gas Index	}
Alternate Gas Index	
Gas Pipeline	
<b>Monthly Offered Energy Settlement Payment Quantities</b>	
Energy Settlement Payment Quantity JAN 2023	MW
Energy Settlement Payment Quantity FEB 2023	MW
Energy Settlement Payment Quantity MAR 2023	MW
Energy Settlement Payment Quantity APR 2023	MW
Energy Settlement Payment Quantity MAY 2023	MW
Energy Settlement Payment Quantity JUN 2023	MW
Energy Settlement Payment Quantity JUL 2023	MW
Energy Settlement Payment Quantity AUG 2023	MW
Energy Settlement Payment Quantity SEP 2023	MW
Energy Settlement Payment Quantity OCT 2023	MW
Energy Settlement Payment Quantity NOV 2023	MW
Energy Settlement Payment Quantity DEC 2023	MW
Energy Settlement Payment Quantity JAN 2024	MW
Energy Settlement Payment Quantity FEB 2024	MW
Energy Settlement Payment Quantity MAR 2024	MW
Energy Settlement Payment Quantity APR 2024	MW
Energy Settlement Payment Quantity MAY 2024	MW

Gas Index, Alternative Gas Index, and Gas Pipeline prompts are dropdowns with multiple options.

### Gas-Fired

- **Concept:** The difference between the Day-Ahead Price and the calculated Daily Dispatch Price of the resource in each Settlement Period. The Daily Dispatch Price is based on the Contract Heat Rate, Variable O&M, and Gas Index Prices (including Gas Transport Charges and GHG).
- **ES Calculation:** For each hour,  $\text{Max}(0, \text{Index Price} - \text{Daily Dispatch Price}) * \text{ESPQ}$   

$$\text{DDP} = \text{Heat Rate} * (\text{Gas Price} + \text{Gas Transport} + (\text{GHG Price} * \text{GHG Conv})) + \text{VOM}$$



# Step 5 – Energy Settlement (Appendix A3, A4 Only)

## Fixed Profile Energy Settlement Option

If Participant selects the Fixed Profile energy settlement option, an additional tab within the workbook will appear labeled “Fixed Profile.” Participant should fill out the table with MWH values.



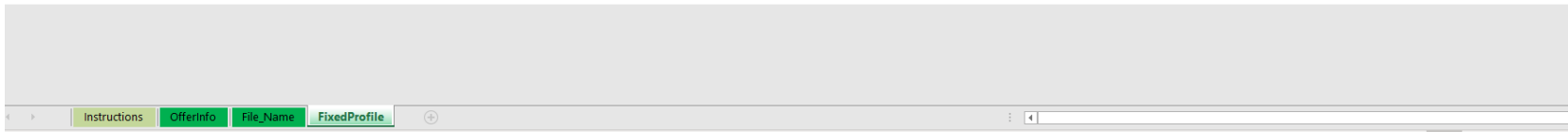
Contract Schedule for Energy Settlement

**IMPORTANT:**

For the purposes of calculating the Energy Settlement, the Contract Schedule shall be as follows. All values must be entered in megawatt hours and rounded to two decimal places. Participant must enter a value greater than or equal to zero for each hour of each month.

Please enter this data using Standard Time – do not make adjustments for Daylight Saving Time.

Variant	B																							
	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24
Jan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



### Fixed Generation Profile

- **Concept:** The product of the hourly Contract Schedule, provided by Seller at execution, and the Day-Ahead Price for each Settlement Period. No physical products transfer to the Buyer (e.g., RECs).
- **ES Calculation:** For each hour,  $\text{Max}(0, \text{Day-Ahead Price}) * \text{Contract Schedule}$





# Step 5 – Energy Settlement (Appendix A3, A4 Only)

## Monthly Price Schedule Energy Settlement Option

If Participant selects the Monthly Price Schedule energy settlement option, they must input offered Energy Prices, Energy Hours, and Payment Quantities for each month of the user’s desired term.

ENERGY SETTLEMENT	
Option 4 - Monthly Price Schedule	
Monthly Offered Energy Settlement Energy Price	
Energy Settlement Energy Price JAN 2023	\$/MWH
Energy Settlement Energy Price FEB 2023	\$/MWH
Energy Settlement Energy Price MAR 2023	\$/MWH

Monthly Offered Energy Settlement Energy Hours	
Energy Settlement Energy Hours JAN 2023	Hours
Energy Settlement Energy Hours FEB 2023	Hours
Energy Settlement Energy Hours MAR 2023	Hours

Monthly Offered Energy Settlement Payment Quantities	
Energy Settlement Payment Quantity JAN 2023	MW
Energy Settlement Payment Quantity FEB 2023	MW
Energy Settlement Payment Quantity MAR 2023	MW

### Monthly Price Schedule

- **Concept:** The difference between the Day-Ahead Price and the Energy Settlement Energy Price for the “X” highest index prices of the month. “X” is equal to the number of Energy Settlement Hours which are fixed at contract execution.
- **ES Calculation:** For the “X” highest hours,  $\text{Max}(0, \text{Index Price} - \text{Energy Settlement Energy Price}) * \text{ESPQ}$



## Step 6 – Input Variants (Optional)

- Participants submitting Non-Compensated Shown Offers (Appendix A1) may submit up to one (1) Offer variation.
- Participants submitting Competitive Offers (Appendices A2-A4) may submit up to five (5) mutually exclusive Offer variations.
- For a Compensated Shown Offer (Appendix A2), variations are allowed for the following:
  - Contract Price
  - Initial Delivery Date
  - Delivery Term
  - Offered Contracted Percentage (determines contract quantities)
- For a Compensated Offer (Appendices A3, A4), variations are allowed for the following:
  - Contract Price
  - Initial Delivery Date
  - Delivery Term
  - Offered Contracted Percentage (determines contract quantities)
  - Energy Settlement



# Step 6 – Input Variants (Optional)

An “Add Variant” button is provided at the top of the “OfferInfo” tab. Once selected, an input screen will appear and the Participant choose from the parameter options provided.

practicus and Electric Company  
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Offer ID: Will enter populate when file name created

Var\_A

AGREEMENT TYPE	Use This Variant?
<b>Agreement Type</b>	Yes
Will project include any Storage component?	NA
Will project include any Renewables component?	Solar PV
Will project include any Gas component?	NA
Will project include any Hydro component?	NA
Will project include any DR component?	NA
New or Existing RA Project?	Existing
Energy Settlement?	Option 3 - Fixed Generation Profile
Default to Voluntarily Shown if Not Selected?	Yes
Counterparty Type	CPUC Jurisdictional Load Serving Entity
Is this resource in front of the meter or behind the meter?	Front of the Meter
Project Name	
Project Street Address	
Project City	
Project State	
Project Zip	
Project County	
CAISO Resource ID (if available)	RESOURCE_1_UNIT 1

Choose Variant Parameters

Resource Adequacy Agreement

Initial Delivery Date (1st of the month) 2024-Jan

Delivery Term (In Months) 24

Energy Settlement

Option 1 - Energy Storage  Option 2 - Gas Fired

Option 3 - Fixed Generation Profile  Option 4 - Monthly Price Schedule

Clear ES

Create Offer

Cancel



# Step 6 – Input Variants (Optional)

Once variant input screen is completed, an additional “variant” column is added to the OfferInfo Tab.



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Add Variant

Offer ID: Will auto-populate when file name created

	Var_A	Var_B
<b>AGREEMENT TYPE</b>		
Use This Variant?	Yes	Yes
<b>Agreement Type</b>	<b>Resource Adequacy with Energy Settlement</b>	<b>Resource Adequacy with Energy Settlement</b>
Will project include any Storage component?	NA	NA
Will project include any Renewables component?	Solar PV	Solar PV
Will project include any Gas component?	NA	NA
Will project include any Hydro component?	NA	NA
Will project include any DR component?	NA	NA
New or Existing RA Project?	Existing	Existing
Energy Settlement?	Option 3 - Fixed Generation Profile	Option 3 - Fixed Generation Profile
Default to Voluntarily Shown if Not Selected?	Yes	Yes
Counterparty Type	CPUC Jurisdictional Load Serving Entity	CPUC Jurisdictional Load Serving Entity
Is this resource in front of the meter or behind the meter?	Front of the Meter	
Project Name		-
Project Street Address		-
Project City		-
Project State		-
Project Zip		-
Project County		-
CAISO Resource ID (if available)	RESOURCE_1_UNIT 1	RESOURCE_1_UNIT 1



# Step 6 – Input Variants (Optional)

In a variant column a gray background indicates that information cannot be directly keyed in. Rather, gray cells in variant columns inherit the value entered in the same row in the base offer column.

AGREEMENT TYPE	Var_A	Var_B
Use This Variant?	Yes	Yes
<b>Agreement Type</b>	<b>Resource Adequacy with Energy Settlement</b>	<b>Resource Adequacy with Energy Settlement</b> <--- This c
Will project include any Storage component?	NA	NA <--- This c
Will project include any Renewables component?	Solar PV	Solar PV <--- This c
Will project include any Gas component?	NA	NA <--- This c
Will project include any Hydro component?	NA	NA <--- This c
Will project include any DR component?	NA	NA <--- This c
New or Existing RA Project?	Existing	Existing <--- This c
Energy Settlement?	Option 3 - Fixed Generation Profile	Option 3 - Fixed Generation Profile <--- This c
Default to Voluntarily Shown if Not Selected?	Yes	Yes <--- This c
Counterparty Type	CPUC Jurisdictional Load Serving Entity	CPUC Jurisdictional Load Serving Entity <--- This c
Is this resource in front of the meter or behind the meter?	Front of the Meter	
Project Name		

Monthly Offered Contracted Percentage	Var_A	Var_B
Contracted Percentage JAN 2023	100.00%	50.00%
Contracted Percentage FEB 2023	100.00%	50.00%
Contracted Percentage MAR 2023	100.00%	50.00%
Contracted Percentage APR 2023	100.00%	
Contracted Percentage MAY 2023	100.00%	

Non-gray variant column cells can accept information that is different from the value entered on the same row in the base offer column.



# Step 6 – Input Variants (Optional)

Once a variant offer has been created it cannot be deleted. Should you wish to remove a base or variant offer from consideration change the value in the first row of the offer form from “Yes” to “No”.

AGREEMENT TYPE	Var_A	Var_B
Use This Variant?	Yes	No
<b>Agreement Type</b>	<b>Resource Adequacy with Energy Settlement</b>	<b>Resource Adequacy with Energy Settlement</b>
Will project include any Storage component?	NA	NA
Will project include any Renewables component?	Solar PV	Solar PV
Will project include any Gas component?	NA	NA
Will project include any Hydro component?	NA	NA
Will project include any DR component?	NA	NA
New or Existing RA Project?	Existing	Existing
Energy Settlement?	Option 4 - Monthly Price Schedule	Option 4 - Monthly Price Schedule
Default to Voluntarily Shown if Not Selected?	Yes	Yes
Counterparty Type	CPUC jurisdictional Load Serving Entity	CPUC jurisdictional Load Serving E
Is this resource in front of the meter or behind the meter?		
Project Name		

**Any base offer or variant that has a value of “No” in the “Use this Variant” row will be ignored when forms submitted to PG&E are reviewed.**

# Final Step - Saving and Submitting An Offer

When the base offer and any additional variants that were created have been fully populated proceed to the “File Name” tab. Instructions OfferInfo **File\_Name**

Click the Generate File Name button.

**This offer form will not be accepted if the steps outlined below have not been followed!**

A new File Name must be generated via the steps below for each offer submitted. If submitting multiple offers, please repeat these steps for each offer submitted.

These steps will create a unique, correctly formatted name that must be given to this offer form file before it is submitted. If you are submitting multiple offers and you employing "Save As" on a form you previously populated to create a new offer it is essential that a new/different file name be generated for each additional offer you create.

When you are ready to submit this form...


- 1) Click this button ► Generate File Name
- 2) This text ▼ is the required name for this file. Click the Save File button to complete.
 ◀ Save This File
- 3) Once you have named this offer form via the steps above and submitted this form to PG&E keep it unchanged in a secure location where you can refer to it should PG&E have questions. If a PG&E representative contacts you regarding this offer form they will reference the file name.

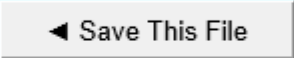
**These instructions must be exercised just prior to actual submission of the form. The file name composed above must be created after you have finalized the rest of the form.**

# Final Step – Saving and Submitting an Offer

The file name field will populate. Click the  button.

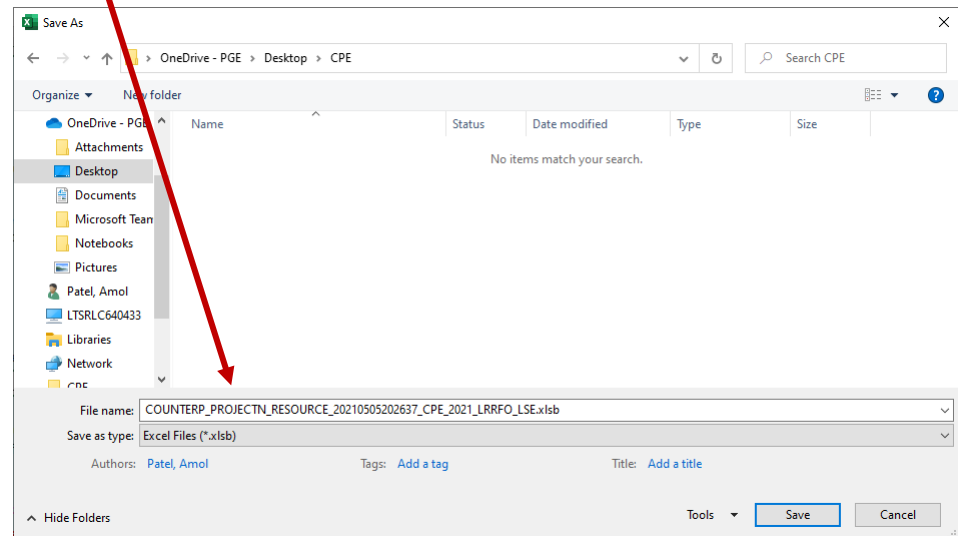
1) Click this button 

2) This text  is the required name for this file. Click the Save File button to complete.



3) Once you have named this offer form via the steps above and submitted this form to PG&E keep it unchanged in a secure location where you can refer to it should PG&E have questions. If a PG&E representative contacts you regarding this offer form they will reference the file name.

The generated file name will be displayed in a file “Save As” panel. Navigate to the location where you wish to save the file. Do not change the file name. The name of the file must be the same as the name in the field on the “File Name” tab when the form is submitted. Click “Save”.







# Submitting Offer Forms Through Power Advocate

- Power Advocate is a third-party online platform utilized by PG&E CPE to receive offer submittals.
- There will be three Power Advocate sites. Please ensure you upload offer forms to correct site.

Offer Type	Offer Form Appendix	Power Advocate Links	Event ID
Non-Compensated Self-Shown Offer(s) from all Participants	Appendix A1 – Offer Form	<a href="https://www.poweradvocate.com/pR.do?okey=114636&amp;pubEvent=true">https://www.poweradvocate.com/pR.do?okey=114636&amp;pubEvent=true</a>	114636
Competitive Offer(s) from PG&E Participant	Appendix A2 – Offer Form	<a href="https://www.poweradvocate.com/pR.do?okey=114637&amp;pubEvent=true">https://www.poweradvocate.com/pR.do?okey=114637&amp;pubEvent=true</a>	114637
	Appendix A3 – Offer Form		
	Appendix A4 – Offer Form		
Competitive Offer(s) from All Non-PG&E Participants	Appendix A2 – Offer Form	<a href="https://www.poweradvocate.com/pR.do?okey=114638&amp;pubEvent=true">https://www.poweradvocate.com/pR.do?okey=114638&amp;pubEvent=true</a>	114638
	Appendix A3 – Offer Form		
	Appendix A4 – Offer Form		

- Power Advocate instructions and all Solicitation documents are available on PG&E CPE’s Solicitation website and must be completed and included with each Power Advocate Offer submission.



# Offer Submittal Reminders

- **The data input in the applicable Appendix A (Offer Form) will result in terms with contractual implications.**
  - The data input in Appendix A (Offer Form) will be used to populate the applicable Agreement Form
- Offer Package must be complete at time of submission
  - Failure to provide all documents may result in PG&E CPE deeming the Offer non-conforming
- Participants submitting Non-Compensated Shown Offers may only submit one Offer at a specific interconnection point. No Offer variations are allowed.
- Participants submitting Competitive Offers may submit up to five (5) mutually exclusive Offer variations.
- Resources must have a single CAISO Resource Identification, as defined in the CAISO Tariff.
  - Behind-the-Meter and Demand Response Resources must be in a single Sub-Load Aggregation Point (Sub-LAP)
- Participants are only allowed to submit one version of proposed markups for each applicable Agreement



# Communications and Website

- PG&E CPE's 2021 Local RA RFO website at <http://www.pge.com/2021cperfo> provides everything you need to submit an Offer, including (but not limited to) the following:
  - Solicitation Documents for the Solicitation
  - Solicitation Schedule
  - Agreement Forms
- All solicitation communications should be directed to: [CPEsolicitations@pge.com](mailto:CPEsolicitations@pge.com) with a copy to the Independent Evaluator at [MerrimackIE@merrimackenergy.com](mailto:MerrimackIE@merrimackenergy.com)

# Intermission



Together, Building  
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# Q&A



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