

PG&E Interconnection Application Webportal Updates

Starting Thursday April 29 2021, PG&E Standard NEM web portal will have the following changes to support the decision of [Advice Letter 5938-E: Modifications to Interconnection Agreements for PG&E's Tariffs NEM and NEM2 Paired Storage for NEM-Integrity Situations to support Resiliency, and Other Minor Form Modifications](#):

- Solar Capacity factor has been updated to **0.17123**, to yield an annual Estimated Solar Production factor of **1,500** kwh/kw/year (i.e. 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500; and Solar CEC-AC rating (kW) X 1,500 = (annual kWh))
- The “recent annual usage” calculation has been updated to **100%** (i.e., NEM or NEM2 systems should be sized with an estimated annual production no larger than 100% of the Customer’s total previous 12 months of usage (annual usage) and projected future increase.)
- Building size factor has been updated to **3.00** (i.e., 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00; and Building size (sq ft) X 3.00 = (annual kWh))

Standard NEM webportal updates:

1. The calculation for “Estimated Solar Annual Production” has been updated to CEC-AC rating x **1,500***
*8,760 hrs/yr x **0.17123 solar capacity factor** = 1,500

Usage and Production Comparison

Based on your facility size above, your estimated annual production will be:

| | | | |
|--------------------------------------|----------------------|---|---|
| Estimated Solar Annual Production is | 15,000 kWh |  | <div style="border: 1px solid black; padding: 5px; width: fit-content;"><p>CEC-AC rating x 1,500* *8,760 hrs/yr x 0.17123 solar capacity factor = 1,500</p></div> |
| Your projected annual usage is | 3,000 kWh | | |
| Planned increase in annual usage*: | <input type="text"/> | kWh | |

2. The NEM Systems sizing guideline on the Facility Size and Usage page has been updated to **100%**.

Guideline: NEM Systems should be sized with an estimated annual production no larger than **100%** of the Customer's total previous 12 months of usage (annual usage) and projected future increase if applicable

Guidelines

Your proposed facility does not meet the guideline that it should be sized so that your estimated annual generation is no larger than **100%** of your previous annual usage (or equivalent annual usage determined by building square footage) plus any planned increase.

Please note the provisions around Net Surplus Compensation (NSC) below:

Net Surplus Compensation (NSC) payments are made to NEM customers who produce more electricity than they use during the Relevant Period. The payment rate is based on a rolling 12-month average of spot market prices and may fluctuate on a monthly basis. The historical range of the NSC rate at the time of this Advice Filing is approximately \$0.03 to \$0.04. A history of NSC rates is available at www.pgetst.pge.com/nembilling. If a customer would like to opt out from receiving this payment, please visit www.pgetst.pge.com/nscoptout to complete Form 79-1130.

- The proposed facility size guideline calculation will be based on **100%** instead of 110% of the previous annual usage plus any planned increase in annual usage.

Usage and Production Comparison

Based on your facility size above, your estimated annual production will be:

Estimated Solar Annual Production is 12,000 kWh ?

Your recent annual usage is 11,295.71 kWh

Planned increase in annual usage*: 13000 kWh

Guidelines

Your proposed facility meets the guideline that it should be sized so that your estimated annual generation is no larger than **100%** of your previous annual usage plus any planned increase.

For example:
The recent annual usage of 11,295.71 kWh which is less than the estimated solar annual production of 12,000 kWh. This will meet the guideline that the estimated annual generation is no larger than 100% of the previous annual usage plus planned increase.

- Update NEM2 Standard NEM Agreement and Authorization form 79-1151A-02:
 - The constant in the formula for Solar CEC-AC rating has been updated to **1,500**.

B. Generator System Sizing

The individual Solar CEC-AC KW and/or the Wind Turbine and/or Storage rating(s) calculated on the application cannot exceed 5% of the listed value(s) on this Agreement and Authorization.

Generator System Type: Solar Wind Both

Estimated Annual Production:

| | | | |
|--------------------------------------|--|---|----------------------------------|
| (1) Solar CEC-AC rating ^B | <u>10,678(kW)</u> X <u>1,500^C</u> | = | <u>16,017(kWh)</u> |
| AND/OR (2) Wind Nameplate rating | <u> (kW)</u> X <u>2,190^D</u> | = | <u> (kWh)</u> |
| (3) Total Energy Production | (1) + (2) | = | <u>16,017(kWh)</u> |

- The constant in the formula for Building size has been updated to **3.00**.

Estimated Annual Energy Usage:

(Solar systems ≤ 5 kW (CEC-AC) do not need to complete this section)

| | | | |
|---|---|---|-------------------|
| (4) Recent annual usage | <u>10.00(kWh)</u> X <u>1.0</u> | = | <u>10.00(kWh)</u> |
| OR (If 12 months usage not available) (5) Building size | <u>1,000,000(sq ft)</u> X <u>3.00^E</u> | = | <u>3,000(kWh)</u> |
| AND (6) I plan to increase my annual usage (kWh) by | <u>100.91(kWh)</u> | | |
| (7) Total Energy Usage | (4 or 5) + (6) | = | <u>3,101(kWh)</u> |

- The above numbers have also been updated in the footer.

^A Customers on rate schedules such as ET, ES, and ESR, which do not have a corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

^B CEC-AC (kW) = California Energy Commission Alternating Current, refers to the inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000

^C 8,760 hrs/yr x 0.17123 solar capacity factor = 1,500

^D 8,760 hrs/yr x 0.25 wind capacity factor = 2,190

^E 2 watts/ sq ft x 1/1,000 watts x 8,760 hrs/yr x 0.17123 solar capacity factor = 3.00

Please complete this agreement in its entirety

Automated Document, Preliminary Statement, Part A.

ACE-IT webportal updates:

NEM Aggregation

1. Estimated Solar Production has been updated to 1500 kWh per kW per year.

The screenshot shows a web portal interface for NEM Aggregation. On the left is a sidebar with a list of menu items: 'Select Program and Account', 'Project Contact Info', 'Export', 'Equipment', 'Customer Sector', and 'NEM Aggregation'. Under 'NEM Aggregation', there are sub-items: 'NEM Aggregation', 'NEMA Information #1', 'NEMA Information #2', and 'Customer Name Variations'. The main content area contains several input fields: 'Total Annual kWh' (50,000), 'Total Planned Increase in Annual Usage (kWh)' (100.91), 'Total Expected Annual Usage (kWh)' (150.91), and 'Estimated Annual kWh Solar' (60). Below these fields is a text label: 'CEC-AC (kW) = California Energy Commission Alternating Current, refers to inverter efficiency rating (Quantity of PV Modules x PTC Rating of PV Modules x CEC Inverter Efficiency Rating)/1000'. A red box highlights the text 'Estimated Solar Production = 1500 kWh per kW per year'.

2. 110% of Total Annual kWh has been removed.

This screenshot is similar to the first one, showing the same NEM Aggregation form. The 'Total Annual kWh' field now contains the value '50,000', which is a decrease from the previous value of 50,000 (representing 110% removal). The other fields and labels remain the same.

3. Planned increase in Annual Usage (kWh) under every benefitting account has been added.

The screenshot shows a different section of the NEM Aggregation form. It includes fields for 'Electric Meter (Badge) Number' (1004911700), 'Existing Rate Schedule' (22), and 'Annual kWh Load' (30,000). Below these is a text label: 'For previous twelve months from date of signature. Please also enter the annual kWh for generator account prior to the generator being installed; if none, enter zero.' A red box highlights a checkbox labeled 'Planned Increase in Annual Usage? (kWh)', which is checked. Below this checkbox is the 'Planned Increase in Annual Usage (kWh)' field, which contains the value '100.91'. An 'Add' button is located at the bottom of the form.

4. **Total Planned Increase in Annual Usage (kWh)** has been added. This should display the total of all the planned increase in annual usage values.

| | | |
|------------------------------|---|---------------|
| ✓ Select Program and Account | Total Annual kWh | 50.0 |
| ✓ Project Contact Info | Total Planned Increase in Annual Usage (kWh) | 100.91 |
| ✓ Export | Total Expected Annual Usage (kWh) | 150.91 |
| ✓ Equipment | | |
| ✓ Customer Sector | | |

5. **Total Expected Annual Usage (kWh)** has been added.

Total Expected Annual Usage (kWh) = Total Annual kWh + Total Planned Increase in Annual Usage (kWh).

| | | |
|------------------------------|--|---------------|
| ✓ Select Program and Account | Total Annual kWh | 50.0 |
| ✓ Project Contact Info | Total Planned Increase in Annual Usage (kWh) | 100.91 |
| ✓ Export | Total Expected Annual Usage (kWh) | 150.91 |
| ✓ Equipment | | |
| ✓ Customer Sector | | |

6. For Standard NEM with Energy Storage or Standard NEM Aggregation with Energy Storage, the storage system inverter(s) must be sized 10kW or less, and the Solar PV and/or Wind system must be sized 30kW or less. The error message shown below will display if either condition is not met.

