



SOUTHERN CALIFORNIA EDISON COMPANY
 NET ENERGY METERING AND RENEWABLE ELECTRICAL GENERATING
 FACILITY INTERCONNECTION AGREEMENT FOR GENERATING
 FACILITIES SIZED ONE MEGAWATT AND SMALLER
 County of Tulare – Tulare/ Akers Professional Center
 NST-125806

This Net Energy Metering (NEM) and Renewable Electrical Generating Facility Interconnection Agreement (“Agreement”) is entered into by and between County of Tulare (“Customer”), and Southern California Edison Company (“SCE”), sometimes also referred to herein jointly as “Parties” or individually as “Party.”

1. APPLICABILITY

This Agreement is applicable only to Customers who satisfy all requirements of the definition of a Renewable Electrical Generating Facility (“Generating Facility”) sized one megawatt (MW) and smaller as set forth in paragraph 1 of subdivision (a) of Section 25741 of the California Public Resources Code and all conditions and requirements as specified in Schedule NEM and its successor, Schedule NEM-ST.

2. SUMMARY OF GENERATING FACILITY AND CUSTOMER ACCOUNT

2.1	Generating Facility Identification Number:	<u>NST-125806</u>
2.2	Customer Meter Number:	<u>V349N-016039</u>
2.3	Customer Service Account Number:	<u>3-044-9387-27</u>
2.4	Applicable Rate Schedule:	<u>TOU-8-D</u>
2.5	Generating Facility Location:	<u>5300 W. Tulare Ave. Visalia, CA 93277</u>

2.5.1 This agreement is applicable only to the Generating Facility described below and installed at the above location. The Generating Facility may not be relocated or connected to SCE’s system at any other location without SCE’s express written permission.

2.5.2 This Agreement is applicable only to Renewable Electrical Generating Facilities, which includes biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells (using renewable fuel), small hydroelectric generation, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and any additions or enhancements using such technology.

2.5.3 Renewable Electrical Generating Facilities using fuel cells, municipal solid waste conversion, and small hydroelectric generating will be required to sign an Affidavit (Form 14-912) certifying the following criteria have been met:

- a) For purposes of this Agreement, qualifying “solid waste conversion” is defined pursuant to Public Resources Code Section 25741(b)(3).
- b) For purposes of qualifying under “fuel cell” using renewable fuels, the Generating Facility must use technology the California Public Utilities Commission (“Commission”) determines will achieve reductions in emissions of greenhouse gases and meet emissions requirements for eligibility for funding pursuant to the Self-Generation Incentive Programs.
- c) A “small hydroelectric” generating facility is not an eligible Generating Facility if it will cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow.



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- 2.6 Generating Facility Technology (technologies using the renewable resources reflected above): Solar PV
-
- 2.7 Generating Facility Nameplate Rating (kW): 986
- 2.8 Generating Facility CEC-AC Rating or Equivalent (kW): 1018.75
- 2.9 Estimated monthly energy production of Generating Facility (kWh): 146,700

3. METERING AND BILLING:

- 3.1 Metering requirements and billing procedures shall be set forth in SCE's, Electric Service Provider's and/or Community Choice Aggregator's/Community Aggregator's rate schedule(s) applicable to the electric service account assigned to the location where the Generating Facility is connected.

3.2 MONTHLY BILLING ELECTION:

By default, Residential and Small Commercial NEM Customers are billed (i.e., required to pay) ANNUALLY for their energy charges. However, the provisions of Schedules NEM and NEM-ST provide that "Upon a Customer's request, SCE shall permit a Residential or Small Commercial Customer to pay all applicable energy charges monthly.

Customers on monthly billing will receive monthly bill statements showing both the energy and non- energy related billing components and corresponding charges, and will be required to pay any positive energy charges monthly.

Having considered billing options that are available, I hereby request for monthly billing for the Customer Service Account Number listed above. _____ (initial here)

4. GENERATING FACILITY INTERCONNECTION AND DESIGN REQUIREMENTS:

- 4.1 Customer shall be responsible for the design, installation, operation, and maintenance of the Generating Facility and shall obtain and maintain any required governmental authorizations and/or permits.
- 4.2 The Generating Facility shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers ("IEEE"), and accredited testing laboratories such as Underwriters Laboratories ("UL"), and, where applicable, rules of the Commission regarding safety and reliability. This requirement shall include, but not be limited to, the provisions of IEEE Standard 929, UL Standard 1741 and SCE's Electric Rule 21 – Generating Facility Interconnections.
- 4.3 For Customers interconnecting a Generating Facility under the provisions of Schedule NEM-ST, the Generating Facility must have a warranty of at least 10 years for all equipment and the associated installation from the system provider. In appropriate circumstances conforming to industry practice, this requirement may rely on and be satisfied by manufacturers' warranties for equipment and separate contractors' warranties for workmanship (i.e., installation). Warranties or service agreements conforming to requirements applicable to the Self-Generation Incentive Program ("SGIP") may also be used for technologies eligible for the SGIP.
- 4.4 For Customers interconnecting a solar Generating Facility under the provisions of Schedule NEM-ST, all major solar system components (including PV panels and other



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generation equipment, inverters and meters) must be on the verified equipment list maintained by the California Energy Commission (“CEC”). For all NEM-ST Generating Facilities, any other equipment, as determined by SCE, must be verified as having safety certification from a Nationally Recognized Testing Laboratory (“NRTL”).

- 4.5 Customer shall not commence parallel operation of the Generating Facility until written approval has been provided to it by SCE. SCE shall normally provide such written approval no later than 30 business days following SCE’s receipt of (1) a completed Net Energy Metering Application including all supporting documents and required payments, (2) a completed signed Net Energy Metering Interconnection Agreement, and (3) evidence of the Applicant’s final electric inspection clearance from the Local Authority having jurisdiction over the Generating Facility. If the 30-day period cannot be met, SCE shall notify Applicant and the Commission of the reason for the inability to process the interconnection request and the expected completion date.
- 4.6 SCE shall have the right to have its representatives present at the final inspection made by the governmental authority having jurisdiction to inspect and approve the installation of the Generating Facility.
- 4.7 Customer shall not add generation capacity in excess of the ratings set forth in Sections 2.7 and 2.8 of this Agreement, or otherwise modify the Generating Facility without the prior written permission of SCE.
- 4.8 Customers interconnecting inverter-based Generating Facilities are required to comply with the requirements of Section Hh of SCE’s Electric Rule 21, including configuration of protective settings in accordance with the specifications therein. Verification of compliance with such requirements shall be provided by the Customer upon request by SCE in accordance with SCE’s Electric Rule 21.

5. DISCONNECTION, INTERRUPTION OR REDUCTION OF DELIVERIES:

- 5.1 SCE may require Customer to interrupt or reduce the output of its Generating Facility under the following circumstances:
 - (a) Whenever SCE deems it necessary in its sole judgment, to construct, install, maintain, repair, replace, remove, investigate, or inspect any of its equipment or any part of its electric system; or
 - (b) Whenever SCE determines in its sole judgment, that curtailment, interruption, or reduction of Customer’s electrical generation is otherwise necessary due to emergencies, forced outages, force majeure, or compliance with prudent electrical practices.
- 5.2 Notwithstanding any other provision of this Agreement, upon termination of this Agreement or at any time SCE determines the continued parallel operation of the Generating Facility may endanger the public or SCE personnel, or affect the integrity of SCE’s electric system or the quality of electric service provided to other customers, SCE shall have the right to require the Generating Facility to be immediately disconnected from SCE’s electric system. The Generating Facility shall remain disconnected until such time as SCE is satisfied, in its sole judgment, that the condition(s) causing such disconnection have ended or have been corrected.
- 5.3 Whenever feasible, SCE shall give Customer reasonable notice of the possibility that interruption or reduction of deliveries may be required.



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5.4 Electrical energy and capacity provided to Customer during periods of curtailment or interruption of the output of the Generating Facility shall be provided pursuant to the terms of the rate schedule(s) applicable to the electric service account to which the Generating Facility is connected.

6. ACCESS TO PREMISES:

SCE may enter Customer's premises at all times, without notice to Customer for emergency purposes only.

- (a) To inspect Customer's protective devices or check meter(s); to ascertain there is no power flow; or
- (b) To disconnect the Generating Facility and/or service to Customer, whenever in SCE's discretion, a hazardous condition exists and such immediate action is necessary to protect persons, SCE's facilities, or property of others from damage or interference caused by the Generating Facility, or the failure of properly operating protective devices.

SCE will make prior arrangements with the Customer for gaining emergency access to Customer's premises by obtaining keys to a lock box or a padlock or by making other mutually agreeable arrangements.

7. INDEMNITY AND LIABILITY:

- 7.1 Each Party as indemnitor shall defend, hold harmless, and indemnify the other Party and the directors, officers, employees, and agents of the other Party against and from any and all loss, liability, damage, claim, cost, charge, demand, or expense (including any direct, indirect or consequential loss, liability, damage, claim, cost, charge, demand, or expense, including attorneys' fees) for injury or death to persons, including employees of either Party, and damage to property, including property of either Party, arising out of or in connection with (a) the engineering, design, construction, maintenance, repair, operation, supervision, inspection, testing, protection or ownership of the indemnitor's facilities, or (b) the making of replacements, additions, betterments to, or reconstruction of the indemnitor's facilities. This indemnity shall apply notwithstanding the active or passive negligence of the indemnitee. However, neither Party shall be indemnified hereunder for its loss, liability, damage, claim, cost, charge, demand, or expense resulting from its sole negligence or willful misconduct.
- 7.2 The indemnitor shall, on the other Party's request, defend any suit asserting a claim covered by this indemnity and shall pay for all costs, including reasonable attorney fees, that may be incurred by the other Party in enforcing this indemnity.
- 7.3 The provisions of this Section shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.
- 7.4 Except as otherwise provided in Section 7.1, neither Party shall be liable to the other Party for consequential damages incurred by that Party.
- 7.5 Nothing in this Agreement shall create any duty to, any standard of care with reference to, or any liability to any person who is not a Party to it.



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7.6 Notwithstanding the provisions of Section 7.1, Customer shall be responsible for protecting its Generating Facility from damage by reason of the electrical disturbances or faults caused by the operation, faulty operation, or non-operation of SCE's facilities, and SCE shall not be liable for any such damage so caused.

8. GOVERNING LAW:

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California.

9. CALIFORNIA PUBLIC UTILITIES COMMISSION:

9.1 This Agreement shall at all times be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction.

9.2 Notwithstanding any other provisions of this Agreement, SCE has the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, or rule or any agreement relating thereto.

10. AMENDMENT, MODIFICATIONS, WAIVER OR ASSIGNMENT:

10.1 This Agreement may not be altered or modified by either of the Parties, except by an instrument in writing executed by each of them.

10.2 None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

10.3 This Agreement shall supersede any existing agreement under which Customer is currently operating the Generating Facility identified in Section 2, herein, and any such agreement shall be deemed terminated as of the date this Agreement becomes effective.

10.4 This Agreement contains the entire agreement and understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement.

10.5 A new Customer of Record or New Party In ("NPI") who owns, leases, or rents a premises with an operating NEM Generating Facility, previously approved by SCE for Parallel Operation, does not have to submit a new interconnection agreement as long as the Customer meets the requirements of Schedule NEM or its successor, Schedule NEM-ST, as applicable. This will also apply to premises where the developer/contractor establishes the interconnection, so that the Customer who buys/rents/leases the premises will not have to re-submit and sign a new interconnection agreement.

A new Customer of Record or NPI, who owns, rents or leases a premises that includes NEM Generating Facilities with a capacity of 30 kW or less, that were approved by SCE



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for Parallel Operation prior to the new Customer or NPI moving in and/or taking electric service with SCE will take service on Schedule NEM or its successor, Schedule NEM-ST, as applicable, as long as the requirements of this section are met in accordance with the transition provisions contained in Schedules NEM and NEM-ST, as applicable. To be eligible, the new Customer or NPI must (1) ensure that the Generating Facility is compliant with all applicable safety and performance standards as delineated in SCE's Electric Rule 21 and other applicable tariffs in effect at the time of initial approval for Parallel Operation; (2) keep in force the amount of property, commercial general liability and/or personal liability insurance the NPI or new Customer has in place at the time it initiates service on this tariff; and, (3) understand that SCE may from time to time release to the CEC and/or the Commission, information regarding the new Customer or NPI's Generating Facility, including NPI or new Customer's name and Generating Facility location, capacity and operational characteristics. SCE will provide the NPI or new Customer with (i) a copy of the interconnection agreement in effect and as signed by the previous customer, which will remain unchanged, (ii) a copy of the NEM Fact Sheet on operation and billing, and (iii) SCE's website information on the NEM or NEM-ST tariffs.

- 10.6 A new Customer or NPI who owns, rents or leases a premises that includes a NEM Generating Facility above 30 kW will need to sign a new interconnection agreement. If no changes are made to the interconnection facilities, the agreement will have identical terms and conditions as the ones approved for the previous customer.

11. NOTICES:

- 11.1 Any notice required under this Agreement shall be in writing and mailed at any United States Post Office with postage prepaid and addressed to the Party, or personally delivered to the Party, at the address below. Changes in such designation may be made by notice similarly given. All written notices shall be directed as follows:

SOUTHERN CALIFORNIA EDISON COMPANY:

Attn: NEM Program Administrator
SCE Customer Solar & Self Generation
P.O. Box 800
Rosemead, CA 91770

CUSTOMER:

Account Name: County of Tulare – Tulare/ Akers Professional Center
Mailing Address 2637 W. Burrel Ave., Ste: 200
Mailing City: Visalia Mailing State: CA
Mailing Zip Code: 93291

- 11.2 Customer's notices to SCE pursuant to this Section shall refer to the Generating Facility Identification Number that is set forth in Section 2.1

12. TERM AND TERMINATION OF AGREEMENT:

- 12.1 This Agreement shall become effective when SCE issues written authorization to interconnect the Generating Facility after receipt of all required documents and payments, and this completed Agreement signed by the Customer and SCE, and shall remain in effect thereafter from month to month unless terminated by either Party on thirty (30) days' prior written notice in accordance with Section 11.



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12.2 This Agreement shall terminate, without notice, upon: (a) termination of the electric distribution service provided to Customer by SCE; or (b) changes to Customer’s electric load which cause Customer to no longer satisfy all requirements of the definition of an Eligible Customer-Generator, as set forth in Sections 2827(b)(4) or 2827.1(a) of the California Public Utilities Code; or (c) termination of Customer’s NEM arrangements with its Electric Service Provider, Community Choice Aggregator or Community Aggregator.

13. TRANSITION PROVISIONS:

13.1 Customers receiving service on Schedule NEM, or who have submitted all documentation necessary for receiving service on Schedule NEM, prior to SCE reaching its NEM trigger level or July 1, 2017, whichever is earlier, are subject to the transition provisions as outlined in Schedule NEM.

13.2 Customers receiving service on Schedule NEM-ST, or who have submitted all documentation necessary for receiving service on Schedule NEM-ST, are subject to the transition provisions as outlined in Schedule NEM-ST.

14. SIGNATURES:


This Agreement may be executed in counterparts, and by Electronic Signature on the part of SCE and/or the Customer, and copies of a Party’s signed signature page may be transmitted to the other Party by facsimile or other electronic means. Copies of the signature page so transmitted may be used for the purpose of enforcing the terms of this Agreement as though they were originals and will not be made inadmissible in any legal or regulatory proceeding concerning this Agreement on the basis of the Best Evidence Rule or similar rule of admissibility.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives. This Agreement is effective as provided in Section 12.1 above.

COUNTY OF TULARE

SOUTHERN CALIFORNIA EDISON COMPANY

By: _____
Name: Pete Vander Poel
Title: Chair, Tulare County Board of Supervisors
Date: _____

By: 
Name: Marcus Lotto
Title: Senior Manager, Grid Interconnection & Contract Development
Date: 9/4/2020



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**ATTEST: JASON T. BRITT, COUNTY ADMINISTRATIVE OFFICER/
CLERK OF THE BOARD OF SUPERVISORS**

By: _____
Name: Melinda Benton
Title: Chief Clerk of the Board
Date: _____

**APPROVED AS TO FORM:
COUNTY COUNSEL**

By: *Jeffrey Kuhn*
Name: Jeffrey L. Kuhn
Title: Deputy County Counsel
Date: 9-9-20

Matter No. 20171102

INTERCONNECTION FACILITIES FINANCING AND OWNERSHIP AGREEMENT
SOUTHERN CALIFORNIA EDISON COMPANY
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1. PARTIES:

The Parties to this Interconnection Facilities Financing and Ownership Agreement (IFFOA) are, County of Tulare (Customer), and Southern California Edison Company, (SCE). Customer and SCE are sometimes referred to herein individually as "Party," and collectively as "Parties."

2. RECITALS:

- 2.1 Customer has applied to interconnect a 1,486 kW Gross Nameplate Capacity (986 kW of solar technology with an addition of 500 kW of paired energy storage) Generating Facility that will be operated in parallel with SCE's Distribution System. Said Generating Facility is described in Section 2 of the Net Energy Metering and Renewable Electrical Generating Facility Interconnection Agreement ("GFIA") between the Parties dated _____. SCE has assigned the Generating Facility identification number "NST-125806" to this facility.
- 2.2 The electrical facilities installed, owned, operated and maintained by SCE described in Sections 1 and 2 of Attachment A, attached hereto, are required to interconnect Customer's Generating Facility to SCE's Distribution System pursuant to SCE's Rule 21. Such electrical facilities may include Interconnection Facilities, Distribution Upgrades and Network Upgrades.
- 2.3 Pursuant to SCE's Rule 21 the Interconnection Facilities installed, owned, operated and maintained by SCE are provided at the Customer's expense as "Added Facilities" as defined in SCE's Rule 2.H.

3. AGREEMENT:

The Parties agree as follows:

- 3.1 Unless otherwise defined herein, initially capitalized terms shall have the same meanings as defined in the GFIA or Section C of SCE's Rule 21.
- 3.2 The Parties agree to the arrangements as indicated in this Section 3.2 for the financing, design, installation, operation, maintenance, and ownership of the Interconnection Facilities, Distribution Upgrades and Network Upgrades described in Attachment A, attached hereto.
 - 3.2.1 SCE, at Customer's expense, shall install, own, operate, and maintain the Interconnection Facilities described as "Customer-Financed Added Facilities" in Attachment A, attached hereto.
 - 3.2.2 SCE shall install, own, operate, and maintain the Distribution Upgrades and Network Upgrades, if any, described in Attachment A. In accordance with Section E.4 of Rule 21, Generating Facilities interconnecting pursuant to a NEM generating facility interconnection agreement are exempt from any costs associated with Distribution Upgrades or Network Upgrades.
 - 3.2.3 Customer shall finance, install, own, operate, and maintain the Interconnection Facilities described as "Customer-Constructed and Owned Interconnection Facilities" in Attachment A.

4. TERM AND TERMINATION:

- 4.1 This IFFOA shall become effective as of the last date entered in Section 11 below. The IFFOA shall continue in full force and effect until terminated by (1) either Party on at least thirty (30) days advance written notice or (2) the end of the 20-year term provided under Section 6.3(b) herein or (3) termination of the GFIA. Upon termination, Customer shall pay all costs and charges incurred to the date of termination pursuant to Section 8.9 herein, including but not limited to charges for engineering, surveying, right-of-way and

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easement acquisition expenses or any other expense incurred by SCE for the Customer, even if the Interconnection Facilities have not been installed.

- 4.2 Customer agrees to utilize the Interconnection Facilities, Distribution Upgrades and Network Upgrades described in Attachment A, attached hereto, in accordance with Prudent Electrical Practices. If Customer fails to so utilize said Interconnection Facilities, Distribution Upgrades and Network Upgrades, SCE may terminate this IFFOA, and remove the Interconnection Facilities, Distribution Upgrades and Network Upgrades, and Customer shall be subject to the Termination Charge pursuant to Section 8.9 herein.

5. PROJECT DEVELOPMENT MILESTONES:

Project development milestones, if applicable, identified by SCE are described in Section 4 of Attachment A, attached hereto.

6. INTERCONNECTION FACILITIES PROVIDED AS CUSTOMER-FINANCED ADDED FACILITIES:

The following shall apply for that portion of the Interconnection Facilities specified in Attachment A, attached hereto, as "Customer-Financed Added Facilities."

- 6.1 SCE shall, pursuant to SCE's Rule 21, engineer, design, procure equipment and materials, construct, install, own, operate, and maintain the Customer-Financed Added Facilities.
- 6.2 Customer shall pay to SCE in advance of construction, the estimated total Added Facilities Investment of said Customer-Financed Added Facilities, as set forth in Attachment A, attached hereto, as may be revised pursuant to Sections 8.2 and/or 8.3, herein. If applicable, said cost shall include the estimated Income Tax Component of Contributions (ITCC), pursuant to SCE's Preliminary Statement Part M as filed with the Commission and as may be revised from time to time.
- 6.3 In addition to the payment required under Section 6.2 herein, Customer shall pay to SCE an ownership charge determined as the product of (1) the total Added Facilities Investment in Customer-Financed Added Facilities as set forth in Attachment A, attached hereto, as may be revised pursuant to Sections 8.2 and/or 8.3 herein, and (2) the rate established for the replacement coverage option for "Customer-Financed Added Facilities" agreed to by the Parties as reflected in this Section 6.3 as set forth in SCE's Rule 2.H as filed with the Commission and as may be revised from time to time. Whenever Added Facilities are replaced, the Added Facilities Investment amount used as the basis for determining the ownership charge Customer pays SCE shall be subject to the conditions set forth in Section 8.6 or 8.7 herein. The replacement coverage option for Customer-Financed Added Facilities is as follows:

- (a) Replacement Coverage into Perpetuity **N/A**

Under this option, Customer shall pay to SCE, at SCE's sole option, either:

- (1) A Monthly Charge determined by SCE based upon an initial monthly rate of **0.47 %** times the total Added Facilities Investment amount; or,
- (2) A One-Time Payment determined by SCE representing the present value of the sum of the Monthly Charges for the total Added Facilities Investment amount.

- (b) Replacement Coverage with 20-Year Term **N/A**

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Under this Option, for a term of 20 years beginning with the date said Added Facilities are first made available for Customer's use, Customer shall pay to SCE a Monthly Charge determined by SCE based upon an initial monthly rate of **0.37 %** times the total Added Facilities Investment amount. At the end of the 20-year term, this IFFOA shall terminate. If the Parties elect to continue to utilize the Added Facilities past the term of this IFFOA, Customer and SCE may execute a new Added Facilities agreement.

(c) Without Replacement Coverage **N/A**

Under this option, Customer shall pay SCE a Monthly Charge determined by SCE based upon an initial monthly rate of **0.34 %** times the total Added Facilities Investment amount.

7. INTERCONNECTION FACILITIES PROVIDED AS CUSTOMER-CONSTRUCTED AND OWNED INTERCONNECTION FACILITIES:

For that portion of the Interconnection Facilities specified in Attachment A, attached hereto, as "Customer-Constructed and Owned Interconnection Facilities", the Customer is subject to the following:

- 7.1 At Customer's expense, Customer shall finance, engineer, design, acquire equipment and materials, construct, obtain rights-of-way as necessary, install, own, lease or rent, operate, and maintain the Customer-Constructed and Owned Interconnection Facilities. The Customer-Constructed and Owned Interconnection Facilities shall be engineered, designed and constructed to be compatible with SCE's Interconnection Facilities, Distribution Upgrades and Network Upgrades, and in accordance with SCE's Rule 21, as applicable.
- 7.2 SCE shall, at Customer's expense, review Customer's design and require modifications that SCE reasonably determines necessary to assure compatibility with SCE's electrical system and assure SCE system integrity.
- 7.3 Customer shall notify SCE at least thirty (30) days prior to the Parallel Operation of Customer's Generating Facility and SCE shall have the right to inspect the Customer-Constructed and Owned Interconnection Facilities and shall notify Customer of any deficiencies within five (5) days after inspection. Customer must correct any deficiencies prior to Parallel Operation of the Generating Facility.

8. INTERCONNECTION FACILITIES BILLING:

- 8.1 Customer shall pay to SCE in advance of any construction by SCE, any one-time costs (including, when applicable, the ITCC) to rearrange existing facilities and/or to provide facilities normally installed by the Customer as set forth in Attachment A, attached hereto, as "One-Time Costs."
- 8.2 Unless otherwise agreed in writing, the costs and charges paid by Customer pursuant to Sections 6.2, 6.3, 7.2, 8.1, and 8.9 herein shall initially be based upon estimated costs. When the recorded book costs have been determined by SCE, the costs and charges paid by Customer under this IFFOA shall be revised to be based upon such recorded costs and adjusted retroactively to the date when service was first available by means of such Added Facilities. By executing this IFFOA, Customer has been informed and understands SCE's determination of recorded book cost may be delayed and that unless otherwise agreed, retroactive adjustments resulting from such determination may occur at anytime during the term of this IFFOA. All amounts billed under this IFFOA, unless other terms are mutually agreed upon, shall be payable to SCE within thirty (30) days from the date of presentation of a bill. Any credits resulting from such adjustments will, unless other terms are mutually agreed upon, be refunded to Customer.

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- 8.3 SCE shall have the right to revise the initial estimated costs and bill Customer using such revised estimated costs during the period preceding determination of the recorded book costs. SCE shall indicate such revisions on Attachment A, attached hereto, or a superseding Attachment A and provide a copy to Customer. SCE shall commence billing the costs and charges paid by Customer pursuant to this IFFOA using such revised estimate not earlier than thirty (30) days from the date the revised estimate is provided to Customer.
- 8.4 Whenever the ownership charge is to be paid by Customer as a Monthly Charge pursuant to Section 6.3 herein, the Monthly Charge shall automatically increase or decrease without formal amendment to this IFFOA if the Commission subsequently authorizes a higher or lower percentage rate in the calculation of the costs of ownership for Added Facilities as stated in Rule 2.H, effective with the date of such authorization.
- 8.5 If it becomes necessary for SCE to alter or rearrange the Added Facilities including, but not limited to, the conversion of overhead facilities to underground, Customer shall be notified of such necessity and shall be given the option to either terminate this IFFOA in accordance with Sections 4 and 8.9 herein, or to pay to SCE additional amounts consisting of:
- (a) Revised costs and charges based on the total net additional installed cost of all new and remaining Added Facilities. Such revised costs and charges shall be determined, as applicable, in the same manner as described in Sections 6.2 and 6.3 herein; plus
 - (b) An additional payment of ITCC, and/or one-time cost, if any, for any new Added Facilities which shall be determined in the same manner as described in Sections 6.2 and 8.1 herein; plus
 - (c) The cost to remove any portion of the Added Facilities that are no longer necessary because of alteration or rearrangement, such charge is to be determined by SCE in the same manner as described in Section 8.9 herein.
- 8.6 Whenever Added Facilities are replaced due to damage (caused by other than the Customer's intentional or negligent conduct) or equipment failure and replacement coverage is provided pursuant to Sections 6.3(a) or (b) herein, such replacement will be at SCE's expense with no change in the Added Facilities Investment amount.
- 8.7 Whenever Added Facilities are replaced (1) due to damage or equipment failure and replacement coverage is not provided pursuant to Section 6.3(c) herein, or (2) due to Customer's increased load or generation levels, as determined by SCE, or (3) Customer's intentional or negligent conduct, such replacement will be made by SCE at the Customer's expense, including any applicable ITCC. Any additional amounts due to SCE as a result of such replacement shall be payable by the Customer to SCE within thirty (30) days from the date of presentation of a bill. If such replacement results in a change in the Added Facilities Investment, the Monthly Charge will be adjusted based on the revised added investment amount effective with the date the replaced Added Facilities are first available for Customer's use. Except that, where the replacement of Added Facilities is solely required for SCE's operating convenience or necessity or because of damage caused by the sole negligence or willful act of SCE, no increase shall be made in the Added Facilities Investment amount or the Monthly Charge.
- 8.8 Except as otherwise provided in this IFFOA, SCE shall have the right to charge Customer under the terms and conditions of this IFFOA commencing with the date SCE, in its sole opinion, determines the Added Facilities are available for Customer's use.
- 8.9 Upon discontinuance of the use of any Added Facilities due to termination of service, termination of this IFFOA, or otherwise:

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County of Tulare – Tulare/ Akers Professional Center
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- (a) Customer shall pay to SCE on demand (in addition to all other moneys to which SCE may be legally entitled by virtue of such termination) a Termination Charge defined as the costs estimated, subject to Sections 8.2 and 8.3, herein, by SCE to install and/or remove said facilities, less the estimated salvage value of the Added Facilities to be removed. Commencing in the sixteenth (16) year after the date service is first rendered by means of said Added Facilities, the Termination Charge shall be reduced by 20 percent each year until the total Termination Charge is zero.
 - (b) SCE shall be entitled to remove and shall have a reasonable time in which to remove any portion of the Added Facilities, Distribution Upgrades or Network Upgrades located on the Customer's property.
 - (c) SCE may, at its option, alter, rearrange, convey, or retain in place any portion of the Added Facilities, Distribution Upgrades or Network Upgrades located on property other than Customer's property. Where all or any portion of the Added Facilities located on property other than Customer's property are retained in place and used by SCE to provide permanent service to other customers, the facility Termination Charge described in Section 8.9(a), herein, shall be reduced by the recorded installed cost of the retained facilities.
- 8.10 SCE may, at its sole discretion at any time during the term of this IFFOA, require Customer to provide and maintain a performance bond, a letter of credit, an escrow account, or other security, to SCE's satisfaction, securing to SCE the payment of the Termination Charge described in Section 8.9, herein. Customer's failure to provide such security to SCE's satisfaction shall result in termination of this IFFOA.
- 8.11 Customer shall not be required to pay the Termination Charge specified in Section 8.9, herein if termination of the use of the Added Facilities is caused solely by SCE. Termination pursuant to Section 4.2 herein or Section 12.2 of the GFIA shall be deemed not to have been caused solely by SCE.
- 8.12 Should any amount billed pursuant to this IFFOA not be paid by Customer, SCE shall at any time be entitled to collect such amounts through an offset against any amount SCE may owe to Customer.

9. GENERAL PROVISIONS:

- 9.1 Unless otherwise provided for in this IFFOA, Interconnection Facilities connected to SCE's side of the Point of Common Coupling shall be provided, installed, owned, and maintained by SCE at Customer's expense in accordance with SCE's Rule 21.
- 9.2 SCE shall not be obligated to begin construction of Added Facilities prior to Customer's payment of all moneys due as described in Sections 6.2, 6.3, and 8.1, and 8.9 herein.
- 9.3 Where it is necessary to install Added Facilities, Distribution Upgrades or Network Upgrades on Customer's property, Customer hereby grants to SCE (a) the right to make such installation on Customer's property including installation of a line extension along the shortest practical route thereon and (b) the right of ingress to and egress from Customer's property as determined by SCE in its sole discretion for any purpose connected with the operation and maintenance of the Added Facilities, Distribution Upgrades or Network Upgrades. Customer shall provide rights-of-way or easements of sufficient space to provide legal clearance from all structures now or hereafter erected on Customer's property for any facilities of SCE.
- 9.4 Where formal rights-of-way or easements are required in, on, under, or over Customer's property or the property of others for the installation of the Added Facilities, SCE shall not be obligated to install the Added Facilities unless and until any necessary permanent

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rights-of-way or easements, satisfactory to SCE, are granted without cost to SCE. Upon termination of this IFFOA in accordance with Section 4, SCE shall quitclaim all easements and rights of way in, on, under, and over Customer's property, which are, as determined by SCE in its sole discretion, no longer required by SCE due to the removal of its Added Facilities, Distribution Upgrades or Network Upgrades.

- 9.5 SCE shall not be responsible for any delay in completion of the installation of the Added Facilities, Distribution Upgrades or Network Upgrades including, but not limited to, delays resulting from shortage or labor or materials, strike, labor disturbances, war, riot, weather conditions, governmental rule, regulation, or order, including orders or judgments of any court or commission, delay in obtaining necessary rights-of-way and easements, act of God, or any other cause or condition beyond control of SCE. SCE shall have the right in the event it is unable to obtain materials or labor for all of its construction requirements, to allocate materials and labor to construction projects which it deems, in its sole discretion, most important to serve the needs of its customers, and any delay in construction hereunder resulting from such allocation shall be deemed to be a cause beyond SCE's control.
- 9.6 SCE shall not be liable for any loss, damage, or injury arising from SCE's installation, operation, maintenance, or control of the Added Facilities, unless such loss, damage, or injury results from SCE's sole negligence, and, in no event, shall SCE be liable for loss of profits, revenues, or other consequential damages. No adjustment shall be made to reduce billings if damages to, or malfunction of the Added Facilities results from any cause other than the negligence or willful act of SCE.
- 9.7 Added Facilities, Distribution Upgrades and Network Upgrades provided hereunder shall at all times remain the property of SCE.
- 9.8 This IFFOA supplements the appropriate application and contract(s) for electric service presently in effect between the Parties.
- 9.9 This IFFOA may not be assigned if such assignment would cause the Generating Facility identified in Section 2.1 to no longer comply with the provisions of California Public Utilities Code Section 2827 and SCE's NEM tariff. Customer may assign this IFFOA only with SCE's written consent. Such consent shall not be unreasonably withheld. Such assignment shall be deemed to include, unless otherwise specified therein, all of Customer's rights to any refunds, which might become due upon discontinuance of the use of any Added Facilities.

10. GOVERNING LAW

This IFFOA shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California and shall, to the extent provided by law, at all times be subject to applicable tariff rules and modification of such rules as directed by the Commission in the exercise of its jurisdiction.

11. SIGNATURES

This IFFOA may be executed in counterparts, and by Electronic Signature on the part of SCE and/or the Customer, and copies of a Party's signed signature page may be transmitted to the other Party by facsimile or other electronic means. Copies of the signature page so transmitted may be used for the purpose of enforcing the terms of this IFFOA as though they were originals and will not be made inadmissible in any legal or regulatory proceeding concerning this IFFOA on the basis of the Best Evidence Rule or similar rule of admissibility.

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IN WITNESS WHEREOF, the Parties hereto have caused this IFFOA to be executed by their duly authorized representatives. This IFFOA is effective as provided in Section 4.1 above.

COUNTY OF TULARE

**SOUTHERN CALIFORNIA
EDISON COMPANY**

By: _____
Name: Pete Vander Poel
Title: Chairman, Tulare County Board of Supervisors
Date: _____

By: _____
Name: Marcus Lotto
Title: Senior Manager, Grid Interconnection & Contract Development
Date: 9/4/2020

DocuSigned by:
Marcus Lotto
DC494G6CE7FE44C...

ATTEST: JASON T. BRITT, COUNTY ADMINISTRATIVE OFFICER/CLERK OF THE BOARD OF SUPERVISORS

By: _____
Name: Melinda Benton
Title: Chief Clerk of the Board
Date: _____

**APPROVED AS TO FORM:
COUNTY COUNSEL**

By: Jeffrey Kuhn
Name: Jeffrey L. Kuhn
Title: Deputy County Counsel
Date: 9-9-20

Matter No. 20171102

ATTACHMENT A
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1. Added Facilities Investment for Customer- Financed Added Facilities
(Provided per Section 3.2.1)

	Interconnection Facilities Component	Original Estimate	Revised Estimate	Recorded Cost
A.	Interconnection Facilities None identified.	\$0.00		
B.	Total Added Facilities Investment	\$0.00		
C.	Income Tax Component of Contribution (ITCC) (B x 24%) (effective 1/1/18)	\$0.00		
D.	One-Time Costs Telemetry ¹ - Centralized RTU or as required by the utility	\$6,100.00 ²		
E.	One-Time Payment Not applicable	\$0.00		
F.	Total Amount to be Advanced by Customer (B.+ C.+ D.)	\$6,100.00		

2. Description of Distribution Upgrades and Network Upgrades
(Provided per Section 3.2.2)

Distribution Upgrades: None.
--

3. Description of Customer - Constructed and Owned Facilities (Provided per Section 3.2.3)

Interconnection Facilities Component
a. All generating unit protective relays, controls and switchgear in compliance with SCE's Rule 21 and Electrical Service Requirements (ESR).

Note: Cost information need not be provided for Customer-Constructed and Owned Facilities.

¹ SCE acknowledges that the telemetry upgrades required for this project will not be in place as of the execution of this IFFOA. Without waiving Customer's obligation to meet the telemetry requirements listed above in Item D, SCE agrees to allow the Generating Facility to be interconnected while the required telemetry upgrades are completed.

² Cost estimate is based on centralized RTU; should SCE subsequently determine that a centralized RTU cannot be utilized, the cost to provide the required telemetry may be significantly higher and the Customer will be notified in accordance with Sections 8.3 and 8.5 of this IFFOA.

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4. Milestones

In-Service Date: 9/30/2020

Critical milestones and responsibility as agreed to by the Parties:

	Milestone	Date	Responsible Party
(4)	Notification to SCE of completion of Commissioning Testing in accordance with Rule 21 Sections F.5 and L.5	At least fifteen (15) calendar days prior to the date of initial Parallel Operation	Customer
(5)	SCE's written authorization for initial Parallel Operation of the Generating Facility	At least ten (10) calendar days prior to the date of initial Parallel Operation and following Customer's satisfaction of Parallel Operation requirements pursuant to Rule 21	SCE
(5)	Expected date of initial Parallel Operation	9/30/2020	Customer

5. **Generating Facility Description:** All equipment and facilities comprising the Producer's 986 net kW (1486 gross kW) generating facility in Tulare, California, as disclosed by the Producer in its Application, which includes:

- (a) **Eligible Generator(s):** 986 net kW (986 gross kW) solar photovoltaic resource with a CEC-AC Nameplate rating of 1018.75 kW which consist of five (5) **existing** Chint Power Systems (CPS) SCA50KTL-DO/US-480 inverters, each rated at 50 kVA (50 kW @ 1.0 PF), ten (10) **existing** Chint Power Systems (CPS) SCA60KTL-DO/US-480 inverters, each rated at 60 kVA (60 kW @ 1.0 PF), one (1) **new** Chint Power Systems (CPS) SCA36KTL-DO/US-480 inverter rated at 36 kVA (36 kW @ 1.0 PF), and two (2) **new** Chint Power Systems (CPS) SCA50KTL-DO/US-480 inverters, each rated at 50 kVA (50 kW @ 1.0 PF) for a total solar PV output of 986 kW³ and corresponding solar panels that yield a 1018.75 kW CEC AC rating, (ii) the associated infrastructure, (iii) meters and metering equipment, and (iv) appurtenant equipment
- (b) **Non-Eligible Generator(s):** a 500 gross kW battery energy storage generator which consists of (i) two (2) Samsung Sungrow Storage Systems (Model # ST500KWH-250) each assembled with one (1) Sungrow SC250KU inverter rated at 275 kVA with a rated output of 250 kW, Lithium-ion batteries (E2 Platform, 198S8P) with a battery nominal capacity of 551kWh and a battery effective capacity of 536kWh, and a Gridsysnergy controller (ii) the associated infrastructure, and

³ The existing portion of the Generating Facility which totals 850 kW of solar photovoltaic generation (NST-16552) is an existing generator governed by a Rule 21 Net Energy Metering and Generating Facility Interconnection Agreement ("NEM GFIA"), executed by the Parties on February 26, 2019. Upon execution of this Net Energy Metering and Generating Facility Interconnection Agreement Greater Than 1 MW ("NEM GFIA >1MW") for NST-125806, the NST-16552 will be terminated.

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(iii) appurtenant equipment. The Non-Eligible Generator(s) is Non-Export and is not permitted to export energy to the Distribution System. The protection option selected by the Producer in its Application, and subsequently approved by SCE, for the Non-Eligible Generator(s) to comply with the Non-Export requirements of Rule 21 is Protection Option 2 Minimum Power Protection as more fully described in Rule 21.

Protection Option 2: An under-power protection device will be installed to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.

Customer provided description: Project NST-125806 will provide a non-export relay using Protection Option 2 (Minimum Power Protection).

- The non-export relay will be designed and installed to measure the facility's load in real-time at the facility's main disconnect. When the facility gets close to the point of 0kW net load (actually at a small amount of energy import) then it will trip and disable the battery system. This will ensure the battery system cannot discharge during solar export.

As described above, the Producer's Non-Eligible Generator(s) is a 500 kW Battery Energy Storage System ("BESS") and it is intended to be used for *Peak shaving* service.

The Producer has represented in its Application that the operating characteristics of the BESS will be:

Intended use: *Peak shaving*

Electrical Load Function of Energy Storage System:

- Rated Charging Demand (Load): 250 kW
- Maximum Charging Demand: 250 kW
- If charging the storage system from the grid will increase the host facility's current peak load demand, provide the amount of added demand: 0 kW

Electrical Source Function of Energy Storage System:

- Maximum Storage Capability: 1072 kWh (Two (2) Lithium Batteries E2 Platforms each configured with 198S8P with a battery nominal capacity of 551kWh and a battery effective capacity of 536kWh)
- Rated Constant Discharge: 500 kW
- Maximum Constant Discharge: 500 kW

The Application also describes the charging control system to limit peak load demand and the device(s) that will be used to limit the BESS's discharge.

Producer acknowledges and understands that this Agreement requires that the Non-Eligible Generator(s) operate consistent with the above-described operating characteristics.

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6. Single Line Diagram (Customer Provided)

See Appendix



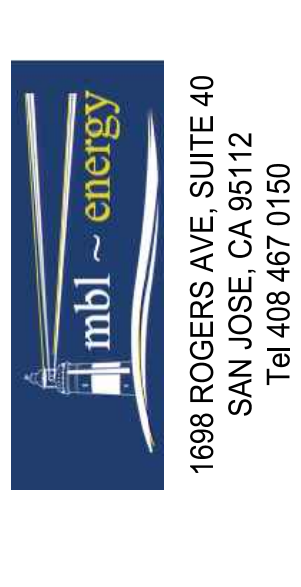
TULARE COUNTY CALIFORNIA

DESIGNER

engie **ENGINE SERVICES U.S.**
PASADENA, CALIFORNIA OFFICE
150 E. COLORADO BLVD, SUITE 380
Tel: 626 377 4948
Fax: 626 737 5978

PROJECT LOCATION

TULARE AKERS PROFESSIONAL CENTER
5300 WEST TULARE AVENUE
VISALIA, CA 93277



STRUCTURAL ENGINEER

CS **ELECTRICAL CONTRACTORS, INC.**
1000 S. PIONEER AVENUE, SUITE 100
VISALIA, CA 93277
Tel: 559 233 9111
www.cselec.com

EXISTING NSI-16552

Number of Modules: 2,448

Module Watts DC: 400 W

PV System kW DC: 979.2 kW

Inverter kW AC: 850 kW

Expansion IR

Number of Modules: 360

Module Watts DC: 400

PV System kW DC: 144 kW

Inverter kW AC: 136 kW

BESS kW: 500 kW

BESS kWh: 1,000 kWh

Inverters 3A, 3B, 5A and BESS are installed and isolated with dedicated Lockout/Tag out for each breaker.

Future Expansion IR for PV and BESS are highlighted in yellow.

DATE	ISSUE FOR PERMIT	DESCRIPTION
12/17/19	AS-BUILT	
01/22/20	CONSTRUCTION BULLETIN #2	
01/10/19	CONSTRUCTION BULLETIN #1	
11/06/18	ISSUE FOR PERMIT	

DRAWN BY:

CHECKED BY:

SCALE:

SHEET TITLE:

SINGLE LINE DIAGRAM

SHEET NUMBER

TA-E2.0

GENERAL NOTES

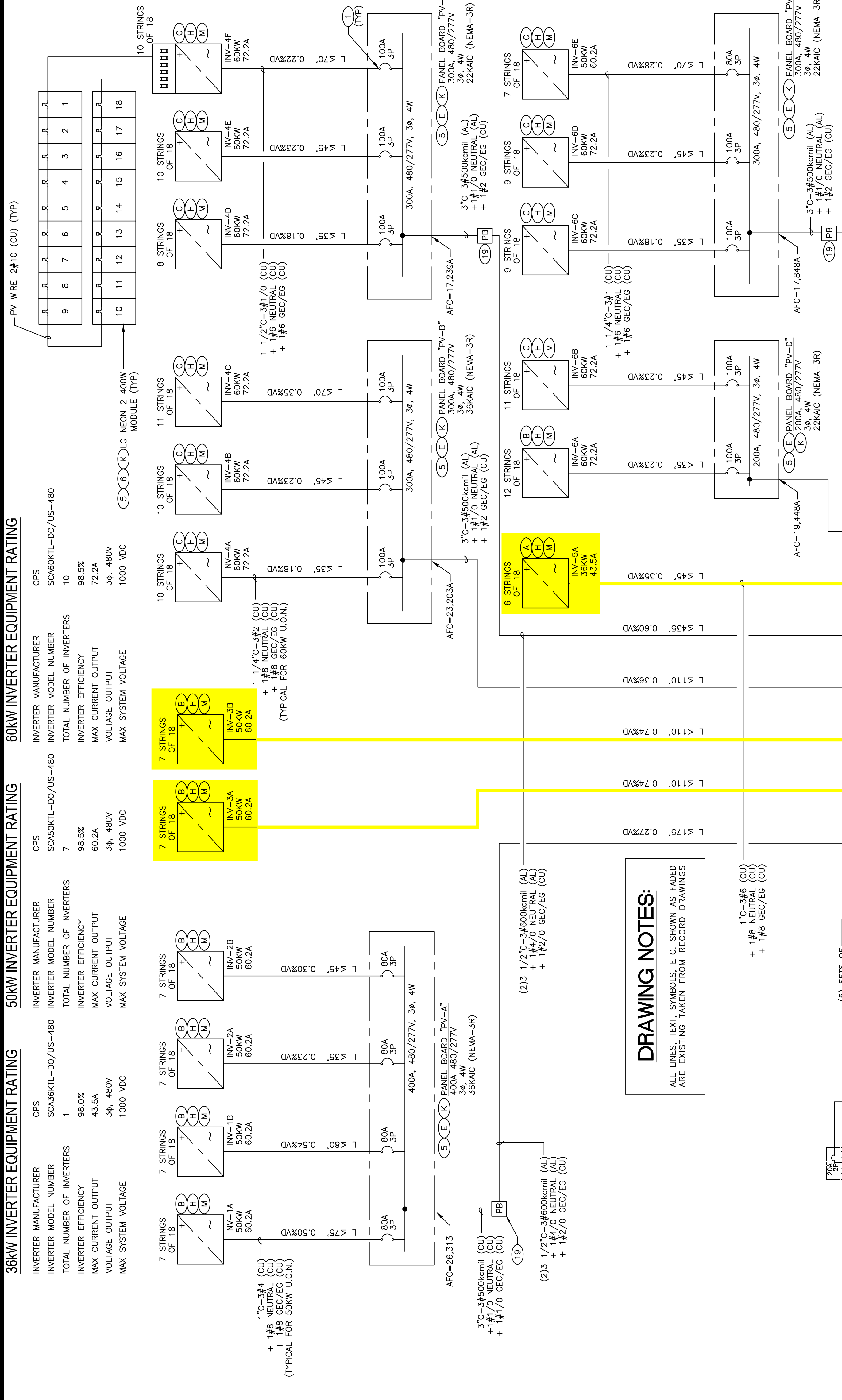
- CONTRACTOR TO INSTALL DATA ACQUISITION SYSTEM AND WEATHER STATION CONDUIT, WIRE, AND HARDWARE PER UTILITY AND MANUFACTURER REQUIREMENTS.
- THE COMPLETE SYSTEM (E.G. INVERTERS, PANELBOARDS, SWITCHBOARDS, AND DISCONNECTS) SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT.
- WORST CASE FOR VOLTAGE DROP FROM PV STRING TO INVERTER IS 0.87% BASED ON #10 (CU) PV WIRE.
- SEE SHEETS E8.0 THROUGH E8.1 FOR EQUIPMENT CUT SHEETS.
- SEE SHEET E2.1 FOR ALL DC AND AC WIRING CALCULATIONS.
- EXPOSED WIRES MUST BE RY-WIRE TYPE IN UNGROUNDED DC SYSTEMS PER CEC 690.35(D).
- GEC TO BE CONTINUOUS AS PER CEC 690.47 & 250.64(C).
- ALL BREAKERS AND DISCONNECT SWITCHES ARE CLOSED UNDER NORMAL OPERATING CONDITIONS UNLESS OTHERWISE NOTED.
- LABELING OF GENERATION EQUIPMENT SHALL CONFORM TO AHJ AND NEC REQUIREMENTS.
- ALL INVERTER WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES. REFER TO PLANNING AND INSTALLATION MANUAL FOR GUIDELINES.
- CONDUCTORS SHALL NOT BE ROUTED THROUGH SWITCHGEAR UTILITY METERING SECTION.
- THE MAXIMUM ALLOWABLE SYSTEM VOLTAGE DROP IS 1.5% MAX AC AND 1.25% MAX DC.

REFERENCE NOTES

- PV INPUT BREAKERS ARE SIZED TO CARRY 125% OF CONTINUOUS CURRENT PER INVERTER DATA SHEET.
- FUSED, VISIBLE-OPEN, LOCKABLE AC DISCONNECT WITH VISIBLE BLADES IN COMPLIANCE WITH RULE 21. OPERATING HANDLE SHALL BE IN THE "UP" POSITION AND ABOVE GRADE WHEN HANDLE IS IN ITS HIGHEST POSITION. VERIFY INSTALLATION STANDARDS WITH SCL.
- FIELD VERIFY ACTUAL CONNECTION POINT. PV SYSTEM POINT OF CONNECTION SHALL BE ON THE SUPPLY SIDE OF THE EXISTING MAIN SWITCHBOARD. CONTRACTOR SHALL PROVIDE RE-CERTIFICATION OF EXISTING MAIN SWITCHBOARD TESTING LABORATORY INITIALS PER NEC 705.12(A) AND 705.31. PROVIDE CABLE LIMITERS WHERE TAP CONDUCTORS ARE LONGER THAN 10'. CABLE LIMITERS SHALL BE FERRAZ-SHAWMUT "CP", TYPE 3, OR EQUAL.
- REDUCED NEUTRAL SIZE AS PER NEC 250.94(C)(1). NEUTRAL WIRE IS ONLY PROVIDED FOR INVERTER SYSTEM REFERENCE. CONNECTED LOADS DO NOT REQUIRE A NEUTRAL.
- SEE DETAILS #1 THROUGH #6 ON SHEET E6.0 AND #3 THROUGH #4 ON SHEET E6.2 FOR GROUNDING CONDUCTOR CONNECTIONS.
- SEE STRUCTURAL DETAIL #4 ON SHEET E8.1 FOR MODULE GROUNDING METHOD.
- METER AND DAS EQUIPMENT PROVIDED BY ENGIE ENERGY. SEE SHEET E2.2 AND DETAIL #1 ON SHEET E8.1.
- SEE SHEET E2.2 FOR COMMUNICATION WIRING. PROVIDE CONDUIT AND RS-485 CABLES FOR PV MONITORING SYSTEM. COMMUNICATION CABLES SHALL BE SUITED FOR WET LOCATION AND SHALL BE UL LISTED AND LABELED. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR CABLE TYPES.
- 5KVA, 480-120V, 1 ϕ TRANSFORMER - SQUARE D OR EQUAL PROVIDE #8 GEC (CU) TO NEAREST BUILDING STEEL OR ARRAY COLUMN.
- WIRELESS CELLULAR COMMUNICATION.
- 1/2" C-4#12 + 1#12 GND.
- 1/2" C-2#12 + 1#12 GND.
- 1/2" C-6#16 (CU) FOR CURRENT TRANSFORMERS.
- EXISTING SCE METER #V349N-016039
- METER TO BE BI-DIRECTIONAL. VERIFY AND REQUEST FOR UTILITY TO REPLACE AS NECESSARY.
- FIELD VERIFY ACTUAL CONNECTION POINT. BATTERY STORAGE SYSTEM POINT OF CONNECTION SHALL BE ON THE LOAD SIDE OF THE EXISTING MAIN SWITCHBOARD 3000A BUS SECTION. CONTRACTOR SHALL PROVIDE RE-CERTIFICATION, AS REQUIRED BY AHJ, OF THE EXISTING SWITCHBOARD THROUGH A NATIONAL RECOGNIZED TESTING LABORATORY. INSTALL PER NEC 705.12(D).
- REPLACE EXISTING 3000 RATING PLUG WITH NEW 2100A RATING PLUG. PEAK POWER DEMAND IS 608KW IN THE LAST 12 MONTHS. MAIN BREAKER TRIP AT 2100A IS BASED ON THE PEAK POWER DEMAND PLUS 90% FUTURE LOAD GROWTH.
- FLOW SENSING RELAY ONCE THE MONITORING SYSTEM SENSES THAT CURRENT IS FLOWING BACK TO GRID, RELAY SHALL TRIGGER THE BESS BATTERY SHUNT TRIP BREAKERS TO OPEN.
- INSTALL CONCRETE UNDERGROUND SPLICE PULL BOX, SIZE PER NEC WITH TRAFFIC RATING COVER. SPLICE CONDUCTORS AS SHOWN, USING NEC APPROVED AND UL LISTED SPLICE KIT.

LABELING REFERENCE (SEE SHEET E7.0)

- (A) 36 KW INVERTER EQUIPMENT
- (B) 50 KW INVERTER EQUIPMENT
- (C) 60 KW INVERTER EQUIPMENT
- (D) ESS EQUIPMENT
- (E) PANEL PV EQUIPMENT
- (F) DISCONNECT DPV EQUIPMENT
- (G) DISCONNECT DPV-MAIN EQUIPMENT
- (H) DC DISCONNECT
- (I) PV DISCONNECT WARNING
- (J) DO NOT RELOCATE OCPD WARNING
- (K) PV SYSTEM CONNECTION WARNING
- (L) SERVICE LOCATION SIGN
- (M) DC SHOCK HAZARD WARNING
- (N) MAIN ELECTRICAL PANEL WARNING
- (O) RG METERING CT LOCATION
- (P) MAIN ELECTRICAL PANEL SIGNAGE



SOLAR PANEL EQUIPMENT RATING

MODULE	TOTAL NUMBER OF MODULES	STC WATTAGE RATING	PTC WATTAGE RATING	MAX POWER VOLTAGE	MAX POWER CURRENT	OPEN CIRCUIT VOLTAGE	SHORT CIRCUIT CURRENT	MAX SYSTEM VOLTAGE
LG NEON 2 LG400N2W-A5	2808	400W	366.4W	40.6V	9.86A	49.3V	10.47A	1500VDC

DC SYSTEM WATTAGE

2808 MODULES X 400W = 1,123.2 kWDC

AC SYSTEM WATTAGE

(2,2718 x 366.4W x 98.5%) + (90 x 366.4 x 96.0%) = 1,018.75 kWAC

INVERTER OUTPUT WATTAGE

(1) 36kW + (7) 50kW + (10) 60kW = 986 kWAC

ESS STORAGE SYSTEM-1

DISCONNECT "DESI1" (D)
600AS, 450AF, 3P
480, 65KAIC

AFC=29,171A

ENGIE STORAGE SYSTEM-1
GS 250-500S
331A
250KW

ESS STORAGE SYSTEM-2

DISCONNECT "DESI2" (D)
600AS, 450AF, 3P
480, 65KAIC

AFC=28,177A

ENGIE STORAGE SYSTEM-2
GS 250-500S
331A
250KW

36KW INVERTER EQUIPMENT RATING

INVERTER MANUFACTURER	INVERTER MODEL NUMBER	TOTAL NUMBER OF INVERTERS	INVERTER EFFICIENCY	MAX CURRENT OUTPUT	VOLTAGE OUTPUT	MAX SYSTEM VOLTAGE
CPS	SC45KTL-00/US-480	7	98.5%	34, 480V	1000 VDC	

50KW INVERTER EQUIPMENT RATING

INVERTER MANUFACTURER	INVERTER MODEL NUMBER	TOTAL NUMBER OF INVERTERS	INVERTER EFFICIENCY	MAX CURRENT OUTPUT	VOLTAGE OUTPUT	MAX SYSTEM VOLTAGE
CPS	SC45KTL-00/US-480	7	98.5%	34, 480V	1000 VDC	

60KW INVERTER EQUIPMENT RATING

INVERTER MANUFACTURER	INVERTER MODEL NUMBER	TOTAL NUMBER OF INVERTERS	INVERTER EFFICIENCY	MAX CURRENT OUTPUT	VOLTAGE OUTPUT	MAX SYSTEM VOLTAGE
CPS	SC46KTL-00/US-480	10	98.5%	34, 480V	1000 VDC	

SINGLE LINE DIAGRAM

SCALE: NONE