

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



January 23, 2024

Advice Letter 6848-E/E-A

Sidney Bob Dietz II
Director, Regulatory Relations
Pacific Gas and Electric Company
300 Lakeside Drive
Oakland, CA 94612
E-mail: PGETariffs@pge.com

SUBJECT: Creating Pacific Gas and Electric Company's New Net Billing Tariff (NBT) Rate Schedule Per Decision (D.) 22-12-056, Ordering Paragraphs 12b

Dear Mr. Dietz:

Pacific Gas and Electric Company Advice Letter 6848-E/E-A is effective as of March 1, 2023 per Resolution E-5301.

Sincerely,

A handwritten signature in black ink that reads "Leuwam Tesfai".

Leuwam Tesfai
Deputy Executive Director for Energy and Climate Policy/
Director, Energy Division
California Public Utilities Commission

January 30, 2023

Advice 6848-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Creating Pacific Gas and Electric Company's New Net Billing Tariff (NBT) Rate Schedule Per Decision (D.) 22-12-056, Ordering Paragraphs 12b

Purpose

Pursuant to Ordering Paragraph (OP) 12b of Decision (D.) 22-12-056 (the "Decision"), Pacific Gas and Electric Company (PG&E) submits this Tier 2 advice letter to create Electric Schedule Net Billing Tariff (NBT), specifically:

1. New Schedule NBT – *Net Billing Tariff Service* – successor to Schedule NEM2; note this includes, NBT Multiple Tariff Facilities (NBT-MT), successor to sub-schedule NEM2MT; and NBT Paired Storage (NBT-PS), successor to sub-schedule NEM2PS; this does not include NEM Load Aggregation (NEM2A).

Background

Senate Bill (SB) 656 (Alquist, Stats. 1995, ch. 369), codified in Section 2827 of the Public Utilities Code, established net energy metering (NEM) in California. The statute directed every electric utility in California to develop a standard contract or tariff to allow eligible customer-generators (customers who own and operate an electrical generating facility to offset part or all their own electrical requirements) to receive a financial credit on their electric bills for energy fed back to the utility's grid. The statute was subsequently amended several times, including among other changes, to add a new "option" to the NEM program to allow customers to aggregate load from multiple meters ("load aggregation," also referred to as "net energy metering aggregation").¹

In 2013, Assembly Bill (AB) 327 (Perea, Stats. 2013, ch. 611) added Section 2827.1 to the Public Utilities Code and mandated that the Commission adopt a successor to the existing NEM tariff. Subsequently, the Commission approved Decision (D.) 16-01-044, which adopted a revised NEM tariff, now referred to as NEM2.

¹ SB 594 (Wolk, 2012) codified at Public Utilities Code Section 2827 (h)(4)(D).

On August 27, 2020, the Commission initiated a rulemaking to revisit the NEM tariffs adopted by D.16-01-044. Subsequently, on December 15, 2022, the Commission adopted D.22-12-056, adopting a successor to the current NEM2 tariff. Specific to this advice letter, D.22-12-056 orders the following changes:

OP 12(b):

“Step 2: Within 45 days of the effective date of this decision, Joint Utilities shall each submit Tier 2 advice letter to provide the details of the successor tariff and all subtariffs, as adopted in this decision. Joint Utilities shall coordinate before submitting the advice letters to ensure language uniformity to the extent possible. The individual advice letters shall summarize Joint Utilities’ interpretation of how the successor tariff will be structured and include indicative levels of price components and containing rate factors based on the applicable revenue and associated tariff sheets. Joint Utilities shall ensure language uniformity.”

PG&E submits a new successor tariff to the NEM2 tariff – the Net Billing Tariff described below in compliance with the requirements of D.22-12-056.

New Net Billing Tariff

Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company (Joint Utilities) worked collaboratively to prepare the NBT in accordance with D.22-12-056. The Joint Utilities’ tariffs are aligned in accordance with the following statements:

- The Decision closed the NEM2 rate schedule no later than April 14, 2023.
- The Net Billing Tariff (NBT) eliminated netting of imports and exports.
- The NBT export compensation rates are based on the Avoided Cost Calculator (ACC), which has a different value by hour, month, weekend, weekday, and holiday.
- Residential customers who interconnect under NBT during the first five years from the NEM2 sunset receive an additional credit called ACC Plus, and low-income customers (as defined in this decision) will be eligible for a higher ACC Plus value. This value will remain constant for nine years for a customer from the customer’s interconnection date. The ACC Plus applicable to a new interconnecting customer will be reduced by 20 percent each year over five years until it reaches zero.
- Residential customers taking service on the NBT must be on the electrification rates approved by this Decision.
- NBT customers are subject to minimum or fixed charges associated with the customers’ otherwise applicable rate schedule (OAS).
- The CARE/FERA discounts will no longer apply to the export compensation rate.
- NBT customers must pay the same four non-bypassable charges (NBCs) established for NEM2 customers; export credits may not offset NBCs. Only ACC Plus is eligible to offset the NBC charges.

- NBT customers must pay their charges for usage monthly, but the annual true-up period (12 months) applicable to NEM customers is maintained for NBT customers.
- NBT customers are allowed to change their annual true-up date once going forward.
- NBT customers are allowed to oversize their system by 50 percent, with attestation.
- NBT customers have a 9-year legacy period.
- The net surplus compensation (NSC) rate will continue to be provided to NBT customers. However, double payment for exports will be eliminated.

Customer Facing Name for the Net Billing Tariff

The joint utilities conducted research to evaluate customer preferences for a customer-facing name for the Net Billing Tariff. Based on this research, the Joint IOUs will call the tariff the “Solar Billing Plan” for the purposes of customer-facing materials. Similarly the ACC Export Compensation and ACC Plus terms for marketing material will be called “Energy Export Credit” and “Energy Export Bonus Credit respectively”.

Key Elements of the Net Billing Tariff

Consistent with D.22-12-056, Attachment 1 presents pro forma tariff language for the new Net Billing Tariff (NBT). As required by OP 12(b), PG&E provides the following summary of how the tariff is structured, including indicative levels of price components and rate factors based on applicable revenue and associated tariff sheets (<https://www.pge.com/energyexportcredit>).

The following sections of the new NBT tariff will include:

	Tariff Section	What the section covers:
	APPLICABILITY	Information on customer applicability requirements
	KEY DEFINITIONS	Definition of terms used in tariff
	OVERVIEW OF SPECIAL CONDITIONS	High level description of special conditions
	RATES	Information on Rates and Export credits
1	METERING	Metering requirements
2	BILLING	Billing calculation method
3	INTERCONNECTION	Interconnection application requirements
4	MULTIPLE TARIFF FACILITIES (NBT-MT)	Requirements for Multiple Tariff Facilities (which have more than one generator behind the same meter) and the metering requirements and bill

		calculation method associated with these facilities
5	NET SURPLUS ELECTRICITY COMPENSATION (NSC)	Net Surplus Compensation
6	NBT LEGACY PROVISIONS	The NBT Tariff Legacy Period (how long the customer can remain on the NBT tariff)
7	NBT PAIRED STORAGE (NBT-PS)	Paired storage requirements (where customers add storage to a renewable generator)
8	NATURAL OR HUMAN-MADE DISASTERS	How contingencies associated with Natural or Human-Made disasters will be managed.

Specific to the Decision, the following elements of the NBT are incorporated into the tariff (in the section of the tariff identified in parentheses) as detailed below:

1. **System sizing requirements (Applicability)** (Pursuant to D.22-12-056 OP 1 (e)) – NBT customers are permitted to oversize their generation systems subject to the following requirements First, the Generating Facility’s estimated annual production in kWh must be no larger than (a) 150 percent of customer’s most recent 12 months of total usage or (b) 150 percent of customer’s estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only); or, if the customer’s electrical usage has recently increased, the Generating Facility’s estimated annual production must be no larger than 150 percent of customer’s current electrical usage projected over 12 months. Second, the customer must attest to increasing their usage to correspond with the system size within 12 months of interconnection.
2. **Definition of Low-income Customer (Definitions)** (Pursuant to D.22-12-056 OP 1(b)) – Low-income Customers are defined as one or more of the following: (i) residential customers enrolled in California Alternate Rates for Energy and the Family Electric Rates Assistance programs; (ii) resident-owners of single-family homes living in disadvantaged communities (as defined in Decision (D.) 18-06-027); (iii) residential customers who live in California Indian Country (as defined in D.20-12-003).
3. **Residential Otherwise Applicable Schedule (OAS) (Rates)** – (Pursuant to D.22-12-056 OP 1(c)) –All NBT residential customers are required to enroll on highly differentiated time-of-use rates as provided in the following table, and if applicable may choose to enroll in critical peak pricing (PG&E’s SmartRate) or peak day pricing rates.

Eligible Time Of Use Rates by Utility	
Eligible PG&E Rate	E-ELEC (Electric Home)_

4. **Export Compensation Rate (Rates)** (Pursuant to D.22-12-056 OP 1(a)) – For exports to the grid measured by the export channel of the customer meter, NBT customers will be compensated at a “Retail Export Compensation Rate” for each hour averaged across days in a month, differentiated by weekdays and weekends/holidays. These values will be determined by the outputs of the Avoided Cost Calculator which are updated every two years in the Integrated Distributed Energy Resources (IDER) proceeding, R.14-10-003.

Export Compensation Rate for residential and nonresidential NBT customers will be based on a nine-year schedule of values for each hour from the most recent Avoided Cost Calculator, adopted as of January 1 of the calendar year of the customer’s interconnection date. Following the nine-year lock-in period, export compensation rates will be based on averaged hourly avoided cost values from the most recent Avoided Cost Calculator, adopted as of January 1 of a given calendar year. Tariff customers enrolling after the five-year glide path transition time will not receive a lock-in period for the Export Compensation Rate.

5. **California Alternate Rates for Energy (CARE) and Family Electric Rates Assistance (FERA) Discount (Rates)** (Pursuant to D.22-12-056 OP 1(d)) – For Customers enrolled in CARE and FERA, the CARE and FERA discount shall not be applied to the retail export compensation rate.
6. **An Avoided Cost Calculator Plus (ACC Plus) adder (Rates)** (Pursuant to D.22-12-056 OP 1(b)) – The ACC Plus will be a cents per kilowatt-hour value that will generate extra credits for kWh exported to the grid by an NBT customer. The ACC Plus will be available to net billing tariff customers during the first five years of the successor tariff. The adopted ACC Plus adders, as indicated in the table below, will remain constant for a customer for nine years from the customer’s interconnection date. The adder will decrease by 20 percent annually, for newly enrolled tariff customers, until the adder reaches zero. The adder will be a discrete line on the customer’s utility bill. Credits associated with the ACC plus adder will offset any charges incurred by an NBT customer and will apply to future bills until the credit is used. The ACC Plus is not available to: (i) customers transitioning from the NEM 1.0 tariff or the NEM 2.0 tariff at the end of their legacy period; and (ii) customers who have purchased a building with an existing NBT-eligible system.
7. **No Netting / Annual True-Up (Special Condition 2 – Billing)** (Pursuant to OP 1) – NBT customers will be billed based on no netting of imports (consumption) and exports (generation to the grid). Charges owed to PG&E net of any eligible credits will be paid each month and all charges and credits will be trued-up on an annual basis.
8. **Nonbypassable Charges (Special Condition 2 – Billing)** (Pursuant to OP 1(f)) –NBT customers will pay nonbypassable charges on imported energy. The following four non-bypassable charges may not be offset with export credits: the

public purpose program charge, nuclear decommissioning charge, competition transition charge, and the Wildfire Fund Non-Bypassable Charge.

- 9. Minimum bill or fixed charges (Special Condition 2 – Billing)** (Pursuant to OP 1(g)) – Net billing tariff customers are subject to any minimum bill or fixed charge in the customer’s applicable rate.
- 10. True-up Dates (Special Condition 2 – Billing)** (Pursuant to OP 1(h)) – Customers taking service on the NBT may make a one-time request to change their annual true-up date.
- 11. Legacy Period (Special Condition 6 – NBT Legacy Provisions)** (Pursuant to OP 1(i)) – The terms of the NBT will be available to customers interconnecting a generating facility under the NBT for a period of nine years. The legacy period is linked to the customer who originally causes the system to be installed, not to the system. If the original customer moves away within nine years from the system’s interconnection date and another utility customer takes control of (e.g., buys, leases, or pays a power purchase agreement for) the system, the subsequent utility customer does not have a legacy period. The exception is when the subsequent customer is or was the legal partner (e.g., spouse or domestic partner in the case of residential customers or, in the case of nonresidential customers, the account-holding entity continues to be majority controlled by the same underlying individuals or entities from the time the legacy system was installed) of the original customer. For this latter group, the legacy period runs from the system’s original interconnection date for a length of nine years.
- 12. Net Surplus Compensation (NSC) (Special Condition 5)** (Pursuant to Section 8.5.3, page 162, and COL 86 respectively) – During an NBT customer’s 12-month annual true-up, the utility shall determine if the customer’s net exports are positive, i.e., the customer exported more electricity than they imported over the past 12-month period. If the net exports are positive, that quantity of kilowatt hours will be debited from the customer’s account at a rate equal to the utility’s average real-world retail export compensation rates for all NBT customers in their service area over the past 12 months. The customer will then be credited at the NSC rate for the same number of kilowatt hours. The NSC rate is set at the Default Load Aggregation Point price.
- 13. Methodology for calculating the Export Compensation Rate based on ACC (RATES, Section C):**

The Export Compensation Rates for a given installation vintage of customers in a given calendar year are based on the applicable vintage of Avoided Cost Calculator (ACC) forecast of values for that year. Because the ACC outputs different values by climate zone and for every hour of the year, the following

process is used to aggregate values into a single set of values for each month, day-type, and hour for all PG&E customers.

1. For each Climate Zone, create a set of 8760 hourly avoided costs using the ACC value for the Delivery components. Generation components do not vary by climate zone, so only a single set for generation Export Compensation Rate is necessary to collect.
2. Create a geographically weighted average value for each hour of the delivery component, using the documented installed kW capacity of NEM and NBT participants per Climate Zone at the end of the previous calendar year.
3. Because the Avoided Cost Calculator output is in Pacific Standard Time, adjust time and hour labels to account for daylight savings time, and identify weekdays and weekend/holidays.
4. For each monthly Delivery and Generation components, calculate the average of all prices by hour, per weekday and weekend. This calculation will render the Export Compensation Rate components (Delivery and Generation) for each month's weekday and weekend values.
5. For each hour and weekday/weekend, the full Export Compensation Rate will then be the sum of the corresponding Generation and the Delivery components for that hour/ weekday/ weekend.

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than February 21, 2023, which is 22² days after the date of this submittal. Protests must be submitted to:

CPUC Energy Division
ED Tariff Unit
E-mail: EDTariffUnit@cpuc.ca.gov

The protest shall also be electronically sent to PG&E via E-mail at the address shown below on the same date it is electronically delivered to the Commission:

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following

² The 20-day protest period concludes on a weekend and a holiday, so PG&E is moving this date to the following business day.

information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name and e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

Pursuant to General Order (GO) 96-B, Rule 5.2, and OP 11 of D.22-12-056, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice letter submittal become effective on regular notice, March 1, 2023, which is 30 calendar days after the date of submittal.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to parties shown on the attached list and the parties on the service list for R.20-08-020, R.14-07-002 and A.16-07-015. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

cc: Service List for R.20-08-020, R.14-07-002 and A.16-07-015



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Pacific Gas and Electric Company (U 39 E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Stuart Rubio

Phone #: (951)965-8905

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: stuart.rubio@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6848-E

Tier Designation: 2

Subject of AL: Creating Pacific Gas and Electric Company's New Net Billing Tariff (NBT) Rate Schedule Per Decision (D.) 22-12-056, Ordering Paragraphs 12b

Keywords (choose from CPUC listing): Compliance, Tariffs

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.22-12-056

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL: N/A

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 3/1/23

No. of tariff sheets: 44

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: See attachment 1

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

Protests and correspondence regarding this AL are to be sent via email and are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx: (415)973-2093
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

CPUC
Energy Division Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet
55438-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 1
55439-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 2
55440-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 3
55441-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 4
55442-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 5
55443-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 6
55444-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 7
55445-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 8
55446-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 9
55447-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 10
55448-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 11
55449-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 12
55450-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 13
55451-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 14

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
55452-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 15	
55453-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 16	
55454-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 17	
55455-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 18	
55456-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 19	
55457-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 20	
55458-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 21	
55459-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 22	
55460-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 23	
55461-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 24	
55462-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 25	
55463-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 26	
55464-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 27	
55465-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 28	

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
55466-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 29	
55467-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 30	
55468-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 31	
55469-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 32	
55470-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 33	
55471-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 34	
55472-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 35	
55473-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 36	
55474-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 37	
55475-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 38	
55476-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 39	
55477-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 40	
55478-E	ELECTRIC SCHEDULE NBT NET BILLING TARIFF (NBT) SERVICE Sheet 41	
55479-E	ELECTRIC TABLE OF CONTENTS Sheet 1	54809-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
55480-E	ELECTRIC TABLE OF CONTENTS Sheet 7	55048-E
55481-E	ELECTRIC TABLE OF CONTENTS Sheet 8	55049-E



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 1

(N)
(N)

APPLICABILITY: This Net Billing Tariff (NBT) Schedule pursuant to Decision (D.) 22-12-056 is applicable to a customer (hereinafter "eligible customer-generator" or "customer") who uses a Renewable Electrical Generation Facility (REGF), as defined below. The NBT schedule may also be referred to as the "Solar Billing Plan" in customer-facing communications.

(N)

Residential customers taking service on NBT must take service on the E-ELEC (ELECTRIC HOME) rate schedule¹, and if applicable may choose to enroll in critical peak pricing (PG&E's Smart Rate) or peak day pricing rates. Non-Residential customers may take service on any open applicable time-of-use rate schedule. This NBT Schedule does not offer load Aggregation.

To be eligible on this NBT Schedule, customer's REGF (as defined below) must be (a) located on the customer's owned, leased, or rented Premises (as defined in PG&E's Electric Rule 1); (b) interconnected to, and operating in parallel with, PG&E's transmission and distribution systems; and (c) intended primarily to offset the customer's own electrical requirements. However, customer is allowed to oversize their REGF to meet expected increased future electrical usage (i.e., increased electrical usage resulting from an electric vehicle or other electrical appliances to support electrification) by executing the NBT Oversized Generating Facility Attestation. Under such circumstances, the REGF's estimated annual production should be no larger than:

- a. 150 percent of the Customer's most recent 12 months of total usage; or
- b. 150 percent of the Customer's estimated annual usage (for new construction and/or customers that do not yet have 12 months of usage only); or
- c. If the Customer attests to having recently increased their usage, 150 percent of the Customer's current usage projected over 12 months.

The expected increased electrical usage should correspond with the size of the REGF and should materialize within 12 months from issuance of Permission to Operate (PTO).

Pursuant to Decision (D.) 22-12-056, Electric Schedule NEM2 (Net Energy Metering Service (the NEM2 tariff)² will close to customers interconnecting new REGFs after April 14, 2023. Customers applying for interconnection after April 14, 2023, will take service on this NBT Schedule, unless they are applying for NEM2 Load Aggregation. Customers who do not submit complete applications for interconnection by April 14, 2023, will interconnect under the terms of this NBT Schedule.

(N)

¹ Customers on Schedules such as ET, ES, and ESR, which have no corresponding TOU Rate, are not required to switch to TOU rates, unless and until such a rate becomes available.

² https://www.pge.com/tariffs/assets/pdf/tariffbook/ELEC_SCHEDS_NEM2.pdf

(Continued)

<i>Advice</i>	6848-E	<i>Issued by</i>	<i>Submitted</i>	January 30, 2023
<i>Decision</i>	D.22-12-056	<i>Meredith Allen</i>	<i>Effective</i>	March 1, 2023
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 2

(N)
(N)

APPLICABILITY
(Cont'd.)

Customers who submit complete applications on or after April 15, 2023, will interconnect under this NBT Schedule but will be temporarily billed on the NEM2 tariff until the NBT is operationalized in PG&E's billing system. Once the NBT is operationalized, any customers who interconnected under the NBT Schedule but were being billed temporarily on NEM2 will transition to billing on NBT at the end of their Relevant Period (the term "Relevant Period" is defined in Special Condition 2.g. of this tariff schedule).

(N)

Cost Responsibility for REGFs larger than 1 MW

All Customers with Renewable Electrical Generation Facilities larger than 1 MW are subject to Interconnection, Network and/or Distribution Upgrade costs in accordance with Electric Rule 21.

Compliance with Electric Rule 21 and Other Tariffs

All Customers must ensure that the generating facility is compliant with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21 and other applicable tariffs.

Release of Information

All customers must:

Accept that PG&E may release to the California Energy Commission, the California Public Utilities Commission, and/or other state agencies, information regarding the Customer's facility, including such customer's name and REGF location, capacity, and operational characteristics. Pursuant to CPUC Decisions 14-11-001 and 21-06-026, PG&E is required to provide certain data, including, but not limited to, confidential customer information, to the CPUC, its contractors, the California Department of Consumer Affairs Contractors State License Board, and the California Department of Financial Protection & Innovation. As a condition of receiving service under this tariff, the eligible customer authorizes PG&E to release any and all information provided in the NBT Application for interconnection to the entities identified above without further notification or consent.

(N)

(Continued)

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ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 3

(N)
(N)

APPLICABILITY
(Cont'd.)

Interconnection Agreement Requirements for Change of Party (when a new Customer acquires an existing REGF) and for a Customer transitioning to Schedule NBT from NEM/NEM2.

(N)

These requirements apply to the following types of customers:

- a) Change of Party Customer: A Customer who owns, rents or leases a Premises that includes solar and/or wind turbine electrical generating facilities, with a capacity of 30kW or less, that was previously approved by PG&E for NEM/NEM2 or NBT interconnection prior to the Customer moving in and/or taking electric service with PG&E (Change of Party Customer); or
- b) NEM/NEM2 Transition Eligible Customers: A Customer that was previously approved by PG&E for NEM/NEM2 interconnection, but is transitioning to the NBT Rate Schedule because their legacy treatment under NEM/NEM2 has expired (NEM/NEM2 Transition Eligible Customer); or
- c) NEM/NEM2 Voluntary Transition Customers: A Customer that was previously approved by PG&E for NEM/NEM2 interconnection, but who has voluntarily enrolled on this NBT Schedule from the NEM/NEM2 tariffs (NEM/NEM2 Voluntary Transition Customer).

The Change of Party Customers, NEM/NEM2 Transition Eligible Customers, or NEM/NEM2 Voluntary Transition Customers will take service on this tariff, or other appropriate tariffs as determined by the Commission, if the requirements of this section, regarding tariff compliance and release of information, are met. These customers will not be required to upgrade their generating facility and must only ensure that the generating facility is compliant with all applicable safety and performance standards as delineated in PG&E's Electric Rule 21 at the time the customer generator was first interconnected unless otherwise specified.

Any type of REGF other than either a solar and/or wind turbine electrical generating facility with a capacity of 30kW or less, may at PG&E's request be required to complete and submit to PG&E a new NBT Interconnection Agreement as indicated in Special Condition 3.

(N)

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ELECTRIC SCHEDULE NBT
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Sheet 5

(N)
(N)

DEFINITIONS

Key Definitions:

(N)

Renewable Electrical Generating Facility (REGF)

A REGF means a generating facility that generates electricity by using:

- a) biomass,
- b) solar thermal,
- c) photovoltaic,
- d) wind,
- e) geothermal,
- f) fuel cells using renewable fuels,
- g) small hydroelectric generation (but a small hydroelectric generation facility is not an eligible REGF if it will cause an adverse impact on instream beneficial uses or cause a change in the volume or timing of streamflow),
- h) digester gas,
- i) municipal solid waste conversion,
- j) landfill gas,
- k) ocean wave,
- l) ocean thermal, or
- m) tidal current,

and any additions or enhancements to the facility using that technology pursuant to paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code. These renewable sources are defined in the latest version of the California Energy Commission's (CEC's) Renewables Portfolio Standard (RPS) Eligibility Guidebook and the Overall Program Guidebook³.

Low-Income Customers

For the purposes of the NBT, a Low-Income customer is defined as residential customers who are one or more of the following:

- a) Enrolled in California Alternate Rates for Energy (CARE) or the Family Electric Rates Assistance (FERA) programs; or
- b) Resident-owners of single-family homes living in disadvantaged communities (as defined in D.18-06-027); or
- c) Residential customers who live in California Indian Country (as defined in D.20-12-003).

(N)

³ The RPS Guidebooks can be found at: [Renewables Portfolio Standard - RPS | California Energy Commission](https://www.energy.ca.gov/programs-and-services/renewable-energy/renewables-portfolio-standard-rps)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 6

(N)
(N)

DEFINITIONS

Community Choice Aggregation and Direct Access

(N)

(Cont'd.)

Customers who participate in Direct Access (DA), or Community Choice Aggregation (CCA) Service are eligible for service under this Schedule except as otherwise provided herein and specified in Special Condition 2. Service under this NBT Schedule is not applicable to a Direct Access (DA) customer where the customer's Energy Service Provider (ESP) does not offer a Net Billing tariff. In addition, if the tariffs for the customer's ESP do not permit any of the sub-schedules under NBT, these options are not available to the CCA or DA customers. In addition, if an eligible customer-generator participates in direct transactions with an ESP that does not provide distribution service for the direct transactions, the ESP, and not PG&E, is obligated to provide a Net Billing tariff to the customer.

Export Compensation Rate

The Export Compensation rate is a cents per kilowatt-hour (\$/kWh) value for exports to the grid. This value is calculated using the CPUC Avoided Cost Calculator (ACC). The Export Compensation Rate varies by month and hour, and it is differentiated by weekdays and weekends/holidays. In PG&E customer-facing materials, the "Export Compensation Rate" may be referred to as the "Energy Export Credit".

(N)

(Continued)

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Sheet 7

(N)
(N)

OVERVIEW of SPECIAL CONDITIONS

Overview of Special Conditions (SC)

(N)

1	METERING
2	BILLING
3	INTERCONNECTION
4	MULTIPLE TARIFF FACILITIES (NBT-MT)
5	NET SURPLUS ELECTRICITY COMPENSATION (NSC)
6	NBT LEGACY PROVISIONS
7	NBT PAIRED STORAGE (NBT-PS)
8	NATURAL OR MAN-MADE DISASTERS

Metering

NBT Customers must have metering and data communication capabilities necessary to render accurate bills under this NBT Schedule. The metering requirements are detailed in **Special Condition 1**.

Billing

The imports and exports (in kWhs) are independently recorded by the utility revenue meter, Import Channel and Export Channel, and are not netted. NBT Customers must pay all incurred charges monthly and will be trued-up on an annual basis. The billing details are described in **Special Condition 2**.

Interconnection Requirements

This schedule is available to customers that provide PG&E with:

- (a) A completed, signed Net Billing Application and Interconnection Agreement as described in Special Condition 3 including all supporting documents and required payments; AND
- (b) Evidence of the customer's final inspection clearance from the governmental authority having jurisdiction over the REGF.

Customers seeking generator interconnections in portions of San Francisco and Oakland where PG&E has a network grid must contact PG&E about generation export limitations. The Interconnection details are described in **Special Condition 3**.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 9

(N)
(N)

TERRITORY: The entire territory served.

(N)

RATES: All rates charged under this schedule will be in accordance with the eligible customer-generator's PG&E otherwise-applicable rate schedule (OAS).

A. Rate Eligibility Requirements

Residential customers taking service on the NBT tariff must take service on the E-ELEC rate as their OAS. Non-Residential customers must take an applicable TOU rate as their OAS.

B. Import Charges

Under this schedule, customers will be charged at the eligible customer-generator's PG&E otherwise-applicable rate schedule (OAS) for electricity consumed by the customer, as measured by the import channel on the customer meter. An eligible customer-generator served under this schedule is responsible for all charges applicable to its OAS including monthly minimum charges (if applicable), base services (fixed) charges, customer charges, meter charges, facilities charges, demand charges and surcharges.

The "Average Rate Limiter" for a general service OAS and all other demand charges will be based on the demand in kilowatts as measured only on the energy being consumed by the customer from PG&E (Import Channel, all usage). The power factor, when it applies on the OAS, will be based on the energy consumed by the customer-generator from PG&E and the average power factor over the past 12 billing months of operation prior to starting on NBT. Customer-generators without 12 billing months of power factor history, will have their power factor estimated based on the nature of the connected facilities and their hours of operation. The power factor will be subsequently applied to the customer-generator's bill until the customer-generator demonstrates to PG&E's satisfaction that adequate correction has been provided. PG&E will continue to monitor and review the power factor and if warranted, change the power factor correction on the customer-generator's bills.

For PG&E NBT customers for whom PG&E provides bundled service (generation and delivery), the energy charges will be in accordance with the customer-generator's OAS. For ESP or CCA customer-generators being billed on Consolidated PG&E Billing service, the ESP or CCA is responsible for providing the billing information regarding the applicable generation-related bill charges or credits to PG&E on a timely basis. Charges for energy (kWh) supplied by PG&E, the ESP or Community Choice Aggregator (CCA), as applicable, will be calculated in accordance with Billing (Special Condition 2).

C. Export Credits

Under this schedule, customers will accrue credits for electricity exported to the grid. The exports will be measured by the export channel on the customer meter. To determine the "Export Credit", exported electricity will be multiplied by the hourly avoided costs values calculated by the Avoided Cost Calculator (Export Compensation Rates).

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 10

(N)
(N)

RATES:
(Cont'd.)

For the first five years of the NBT being available starting on April 15, 2023, Export Compensation Rates will be based on a "locked-in" nine-year schedule of values for each hour from the most recent CPUC Avoided Cost Calculator, adopted as of January 1 of the calendar year of the customer's interconnection date. After the nine-year lock-in period, measured from January 1 of the calendar year in which the customer interconnected, Export Compensation Rates will be based on averaged hourly avoided cost values from the most recent Avoided Cost Calculator, adopted as of January 1 of the applicable calendar year. Customers enrolling on NBT after its initial five years of availability will not receive a locked-in nine-year schedule for their Export Compensation Rate and will instead be compensated at the average hourly avoided cost values from the most recent Avoided Cost Calculator, adopted as of January 1 of the applicable calendar year in which the compensation is being provided. The Export Compensation Rate values are posted at <https://www.pge.com/energyexportcredit>.

(N)

For Customers enrolled in the California Alternate Rates for Energy (CARE) and Family Electric Rates Assistance (FERA), the CARE and FERA discount shall not be applied to the retail export compensation rate.

Methodology for calculating the Export Compensation Rate based on ACC:

The Export Compensation Rates for a given installation vintage of customers in a given calendar year are based on the applicable vintage of Avoided Cost Calculator (ACC) forecast of values for that year. Because the ACC outputs different values by climate zone and for every hour of the year, the following process is used to aggregate values into a single set of values for each month, day-type, and hour for all PG&E customers.

1. For each Climate Zone, create a set of 8760 hourly avoided costs using the ACC value for the Delivery components. Generation components do not vary by climate zone, so only a single set for generation Export Compensation Rate is necessary to collect.
2. Create a geographically weighted average value for each hour of the delivery component, using the documented installed kW capacity of NEM and NBT participants per Climate Zone at the end of the previous calendar year.
3. Because the Avoided Cost Calculator output is in Pacific Standard Time, adjust time and hour labels to account for daylight savings time, and identify weekdays and weekend/holidays.
4. For each monthly Delivery and Generation components, calculate the average of all prices by hour, per weekday and weekend. This calculation will render the Export Compensation Rate components (Delivery and Generation) for each month's weekday and weekend values.
5. For each hour and weekday/weekend, the full Export Compensation Rate will then be the sum of the corresponding Generation and the Delivery components for that hour/ weekday/ weekend.

(N)

(Continued)

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Sheet 11

(N)
(N)

RATES:

D. Avoided Cost Calculator Plus (ACC Plus)

(N)

(Cont'd.)

An Avoided Cost Calculator Plus (ACC Plus) adder, in the form of a credit in cents per kilowatt-hour exported, is available to residential NBT customers who interconnect during the first five years of the tariff. The ACC Plus applicable to a given customer will be based on the customer's calendar year of interconnection. The ACC Plus available to new NBT customers will decrease over five years as shown in the table below. The applicable ACC Plus adder will remain constant for a customer for nine years from the customer's Permission to Operate (PTO) date. The ACC Plus may also be referred to as the "Energy Export Bonus Credit" in customer-facing materials.

Adopted Avoided Cost Calculator Plus Adder (ACC Plus)					
Customer Segment	2023 \$/kWh	2024 \$/kWh	2025 \$/kWh	2026 \$/kWh	2027 \$/kWh
Residential	0.0220 0	0.0176 0	0.01320	0.00880	0.00440
Residential Low Income	0.0900 0	0.0720 0	0.05400	0.03600	0.01800
Non-Residential	<u>Not Eligible</u>				

The adder will decrease by 20 percent annually, for newly enrolled tariff customers, as measured by the first-year adder rate until the adder reaches zero. The adder will be a discrete line on the customer's utility bill, will apply to all charges, and will apply to future bills until the credit is used.

The ACC Plus is not available to:

- (i). Customers transitioning from the NEM/NEM2 tariff to NBT tariff at the end of their legacy period;
- (ii). Customers who have purchased a building with an existing system (Change of Party Customers);
- (iii). Non-Residential Customers; and
- (iv). Customers who are required to add solar (e.g., by California's building code).

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 12

(N)
(N)

RATES:

E. Standby Service

(N)

(Cont'd.)

Customer-generators eligible for service under this schedule are exempt from the requirements of Schedule SB—Standby Service, except Multiple Tariff Facilities interconnected under the terms of Special Condition 4, which may be subject to the requirements of Schedule SB.

F. Rates for Multiple Tariff Facilities

The charges for Multiple Tariff Facilities taking service on this rate schedule under the provisions of Special Condition 4 will be calculated using the applicable OAS identified by the customer-generator in its application for interconnection and its interconnection agreement with PG&E or as subsequently changed by the customer-generator in accordance with PG&E's electric Rule 12. Per Special Condition 4, only the Renewable Portion of the exports to the grid will be credited and the value will be calculated the same as specified in Export Credits (section C, above).

G. Changes to the Relevant Period

Existing customer-generators billed under sub-schedules NBT-S, NBT-EXP or NBT-EXP-OTR who only add storage and are eligible to use the estimation methodology described in Special Condition 7 ("NBT Paired Storage") will be billed using the estimation methodology as of their scheduled True-Up, provided that a True-Up is not required for any other reason. All other customer-generators with Multiple Tariff Facilities or NBT Paired Storage interconnecting additional generators/storage, will receive a bill true-up prior to taking service under Special Condition 4. This ensures that all NBT accounts have the same Relevant Period, as defined in Special Condition 2, going forward.

H. Potential for Future Rate Changes

PG&E rates and rate design, including the rates and rate design reflected in this Tariff, are subject to change from time to time. Customers should take this into consideration when making any long-term decisions based on rate structures that are currently in place.

(N)

(Continued)

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Sheet 13

(N)
(N)

SUB-SCHEDULES:

Eligible customer-generators will be placed on the appropriate sub-schedule as described below:

(N)

1. **NBT-S** – For Small Customer (as defined in PG&E’s Electric Rule 1) customer-generators taking service with solar and/or wind generating facilities of 30 kilowatts or less.
2. **NBT-EXP** – For Small Customer (as defined in Rule 1) customer-generators with (i) solar and/or wind generating facilities of 1,000 kilowatts or less, other than facilities of 30 kilowatts or less, or (ii) any other REGF of 1,000 kilowatts or less.
3. **NBT-EXP-OTR** – For all other commercial, industrial customer-generators, and agricultural customers.
4. **NBT-MT** – For customer-generators taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff.
5. **NBT-PS** – For customer-generators adding storage to their renewable generators pursuant to Special Condition 7.

(N)

(Continued)

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ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 14

(N)
(N)

SPECIAL
CONDITIONS:

1. **METERING:** Customers receiving service on this tariff must have metering and data communication capabilities necessary to render accurate bills under NBT. Multiple Tariff Facilities will be metered under one of the options described in Special Condition 4. All other net billing shall be accomplished using a single meter capable of:

- a. separately registering the flow of electricity in two directions (imports and exports);
- b. metering intervals required for billing under NBT (Non-Residential is 15 Min and Residential is 1hr⁴); and
- c. meeting PG&E's requirements for transferring usage interval data to PG&E for billing.

If the eligible customer-generator's existing electrical meter does not meet the requirements described in paragraph 1 above of Special Condition 1, the eligible customer-generator shall be responsible for all expenses involved in purchasing and installing an acceptable meter with data communication capabilities required to enable accurate billing under NBT.

If none of the metering and data communication options available to PG&E that are necessary to render accurate billing under NBT requirements are acceptable to the customer-generator, PG&E shall have the right to refuse interconnection for new customers.

For NEM Transition Eligible Customers, or SmartMeter Opt-Out customers, if none of the metering options available to PG&E that are necessary to render accurate billing under NBT requirements are acceptable to the customer-generator, PG&E shall reserve the right to transition such customers to a Rule 21 Uncompensated Export arrangement instead of NBT. Under Rule 21 Uncompensated Export arrangement, the customer may incur departing load and standby charges, if applicable. Customers who will be transitioned to Rule 21 Uncompensated Export may require updated meter programming to allow for accurate billing under Rule 21. Per Electric Rule No. 16 Section A.12, customers are required to provide PG&E access to metering equipment for such purposes. If a customer refuses to grant access to PG&E, such customer's permission to operate (PTO) under NEM/NEM2/NBT will terminate, and such customer will need to disconnect their generating facility from the grid. PG&E reserves the right to disconnect the customer's service if customer does not comply with PG&E rules within a reasonable period of time.

Additional metering requirements for NBT Paired Storage are described in Special Condition 7.

(N)

(N)

⁴ PG&E will provide 15-Min data to Residential customers at their request.

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 15

(N)
(N)

SPECIAL

2. BILLING:

(N)

CONDITIONS:

Net Billing Tariff customers will be billed based on no netting of imports (consumption) and exports (generation to the grid). Charges owed to PG&E net of any eligible credits will be paid each month and all charges and credits will be trued-up on an annual basis. Export credits will be applicable toward all import volumetric (kwh) charges, except the non-bypassable charges (NBCs) described in sub-section "f" below, and if applicable, subject to the Net Surplus Electricity and Net Surplus Compensation provisions described in Special Condition 5.

Facilities qualifying under Multiple Tariffs Facilities, see Special Condition 4.

For customer-generators, monthly charges will be determined as follows:

a. Billing on Imported Electricity:

Imported electricity, as measured by the import channel on the eligible customer-generator's meter, shall be billed in accordance with the eligible customer-generator's OAS as described in the "RATES" section, of this schedule, sub-section "B". The customer will be charged for NBCs as described in section "f" of this Special Condition 2.

If the eligible customer-generator is being served under DA or CCA Service, ESP or CCA charges will be specified by their ESP or CCA in accordance with the eligible customer-generator's OAS and PG&E's Direct Access or Community Choice Aggregation tariffs. Applicable PG&E charges or credits will be valued as described in this Special Condition 2.

For a DA or CCA Service customer-generator, credits associated with the generation components of a customer's export credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator, including the NBC calculations addressed in 2.f.

b. Value of Export Credits:

Exported electricity, as measured by the export channel on the eligible customer-generator's meter, will be valued at the applicable CPUC avoided cost as described in the "RATES" section of this schedule, sub-section "C".

For Customers enrolled in California Alternate Rates for Energy (CARE) and/or Family Electric Rates Assistance (FERA), the CARE and FERA discount shall not be applied to the export compensation rate.

c. ACC Plus:

For the first five years of this tariff, residential NBT customers will receive additional export compensation, as an adder called **ACC Plus**, described in the "RATES" section of this schedule, **sub-section "D"**.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 16

(N)
(N)

SPECIAL 2. BILLING: (Cont'd.)

(N)

CONDITIONS: c. **ACC Plus:** (Cont'd)

(Cont'd.)

Low-income residential customers will receive a slightly higher ACC Plus adder for their exports.

The ACC Plus adder will decrease by 20 percent annually, for newly enrolled tariff customers, as measured by the first-year adder rate until the adder reaches zero. The adder will be a discrete line on the customer's utility bill. Export credits associated with the ACC Plus adder will apply to all charges (including NBC charges) and will apply to future bills until the credit is used.

d. **Limitations on what Export Credits may offset:**

Export credits at the Export Compensation Rate described in the "RATES" section of this schedule, may be used to offset volumetric (kwh) import charges but may not offset monthly minimum charges, customer charges, meter charges, facilities charges, base service charges, demand charges and surcharges, non-bypassable and any fixed charges associated with the OAS. However, export credits associated with the ACC plus adder may be used to offset any charges incurred by the customer.

Export credits will be accrued separately for avoided costs attributable to generation and delivery. Export credits for generation avoided costs will only offset volumetric (kwh) generation charges accrued per the customers' OAS, and export credits for delivery avoided costs will only offset volumetric (kwh) delivery charges associated with the customer's OAS.

e. **Application of export credits within the Relevant Period:**

Export credits at the Export Compensation Rate for generation and delivery will be applied to the corresponding generation and delivery volumetric (kwh) import charges accrued in a given month. The amount owed by the customer in that month for generation and delivery charges will be reduced by the corresponding export credits accrued in that month. Unused generation and delivery export credits accrued in a given month can be applied to offset generation and delivery volumetric (kWh) charges within a customers' Relevant Period.

f. **Non-Bypassable Charges**

Customers on this tariff must pay non-bypassable charges (NBCs) for each kilowatt-hour of electricity they consume from the grid (based on the metered import channel). The following NBCs may not be reduced by any credits for exports to the grid, except for the ACC Plus credit: Public Purpose Program, Nuclear Decommissioning Charge, Competition Transition Charge, and Wildfire Fund Charge.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 17

(N)
(N)

SPECIAL 2. BILLING: (Cont'd.)

(N)

CONDITIONS: g. **Relevant Period**

(Cont'd.)

A Relevant Period typically consists of any twelve-monthly billing cycles commencing on the date PG&E provides a customer-generator with PG&E's written approval to begin parallel operation of the REGF (i.e., Permission To Operate (PTO)) for purposes of participating in NBT, and on every subsequent anniversary thereof.

If an eligible customer-generator terminates service or experiences a change in ESP or CCA prior to the end of the 12 monthly billing cycles within their Relevant Period, a new Relevant Period will be established starting on the monthly billing cycle after the change in ESP or CCA and continuing each anniversary date until the effective date of that termination for ESP or CCA change.

If an eligible customer-generator opts out of a SmartMeter™ per PG&E's E- SOP schedule, the customer's Relevant Period will be adjusted to start on the monthly billing cycle after the alternative meter is installed.

If an NBT eligible customer-generator applies for NBT-MT or NBT-PS sub-schedules under this tariff, a new Relevant Period will be established starting on the monthly billing cycle after the change in the applicable sub-schedule and continue every subsequent anniversary thereof.

h. **Energy True-up**

A true up is performed by PG&E and/or the customer's ESP or CCA, as applicable, at the end of each Relevant Period following the date the customer-generator was first eligible for Schedule NBT, or the date of PG&E's written approval to begin parallel operation of the REGF for purposes of participating in NBT, whichever is later, and at each anniversary date thereafter. At True up, the eligible customer-generator shall be billed as follows:

For all NBT customers, if the export credits (not including the ACC Plus credit) are larger than the import charges within the Relevant Period, the excess credits will be set to zero, after debit for excess energy (kwh), if NSC is applicable. NBT customers may make a one-time request that their annual true-up date be changed going forward. In the event the energy (kWh) generated exceeds the energy (kWh) consumed during the Relevant Period, compensation shall be made for the excess energy (kWh), as described and allowed for in Special Condition 5.

(N)

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Sheet 18

(N)
(N)

SPECIAL

2. BILLING: (Cont'd.)

(N)

CONDITIONS:
(Cont'd.)

If the customer-generator is taking service under DA or CCA Service, separate true-up will be calculated for the applicable PG&E charges and credits and the ESP or CCA charges and credits.

For a DA or CCA Service customer-generator, Generation Rate Component credits, if any, do not reduce the charges owed to PG&E for energy supplied to the eligible customer-generator including NBCs calculated in 2.f.

Once the true-up is completed at the end of the Relevant Period, any overpayment for energy (kWh) from the true-up will be credited to the customer on their future bill charges.

The ACC Plus credit can offset all charges including the NBC charges and will not expire until the credits are used. If a customer terminates service with PG&E before the credits are utilized, PG&E will provide the customer's payment for the remaining credits.

i. **Payment Process**

All NBT customers will pay monthly for all applicable charges including the fixed charges within the OAS and any additional net charges due to PG&E. Customers will have net charges due in a given month if the sum of their import charges, export credits, and ACC Plus (if applicable) is greater than zero.

j. **Billing Information**

PG&E shall provide the eligible customer-generator with information on energy imported and exported with each regular bill. That information shall include the current monetary balance owed PG&E for charges net of credits since the last Relevant Period ended.

k. **Electric Service Provider Charges**

If PG&E provides direct access (DA) metering for the ESP, consolidated Utility Distribution Company (UDC) billing (that is, Consolidated PG&E Billing as described in PG&E's Rule 22), Separate or Consolidated ESP Billing support services for DA customer-generators served under PG&E's rates or their ESP's rates, PG&E may recover the incremental costs related to NBT from the customer's ESP, as described in Schedule E-ESP – Services To Electric Service Providers, and Schedule E-EUS – End User Service.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 19

(N)
(N)

SPECIAL CONDITIONS:

3. INTERCONNECTION: Prior to receiving approval for Parallel Operation, the customer-generator must submit a completed PG&E application form and interconnection agreement as follows:

(N)

Rate Option	Application	Interconnection Agreement
NBT-S	For Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less: <i>Application - Net Billing Tariff (NBT) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151B-03)⁵</i>	<i>Agreement and Customer Authorization – Net Billing Tariff (NBT) Interconnection for Solar and/or Wind Electric Generating Facilities of 30 Kilowatts or Less (Form 79-1151A-03)</i>
NBT-EXP NBT- EXPOTR	For Solar and/or Wind Net Billing Tariff (NBT) Generating Facilities of 1,000 Kilowatts or Less, other than Facilities of 30 Kilowatts or Less: <i>Generating Facility Interconnection Application, (Form 79-1174-03)</i>	<i>Interconnection Agreement for Net Billing Tariff (NBT) of Solar or Wind Electric Generating Facilities of 1,000 kW or Less, other than Facilities of 30 Kilowatts or Less (form 79-1220-03),</i>
	For Net Billing Tariff (NBT) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW: <i>Generating Facility Interconnection Application, (Form 79-1174-03)</i>	<i>Interconnection Agreement For Net Billing Tariff (NBT) non-Solar and/or Wind Generating Facilities of any size, and Solar and/or Wind Generating Facilities greater than 1,000 kW (Form 79-1198-03)</i>

(N)

⁵ Both the Agreement and Customer Authorization (79-1151A-03) and Application (79-1151B-03) forms must be submitted before PG&E will issue the Permission to Operation (PTO) letter. Information in the Application can be submitted by the Company (as that term is defined in the Application) or Customer in an electronic format, subject to approval by PG&E.

(Continued)



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Sheet 20

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

3. INTERCONNECTION: (Cont'd.)

(N)

Rate Option	Application	Interconnection Agreement
NBT-PS	For NBT-PS (Special Condition 7) for projects that meet NBT integrity requirements.	
	<i>Generating Facility Interconnection Application, (Form 79-1174-03)</i>	79-1193-03- Agreement And Customer Authorization Net Billing Tariff (NBT) Interconnection For Solar And/Or Wind Electric Generating Facilities Of 30 Kilowatts Or Less with Energy Storage of 10 Kilowatts Or Less or Energy Storage with Power Control System Certification
NBT, NBTEXP, or NBTMT > 1,000 kW	<i>Generating Facility Interconnection Application (Form 79-1174-03)</i>	Rule 21 Generator Interconnection Agreement for New Net Billing Tariff (NBT) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Fast Track Process (Form 79-1198-03)
		Rule 21 Generator Interconnection Agreement (GIA) for Net Billing Tariff (NBT) Generating Facilities Greater than 1,000 Kilowatts Interconnecting Under the Independent Study, Distribution Study, or Transmission Cluster Process (Form 79-1198-03)
NBT-MT	For customer-generators ≤ 1 MW taking service as a Multiple Tariff Facility under Special Condition 4 of this tariff:	
	<i>Generating Facility Interconnection Application (Form 79-1174-03)</i>	Generating Facility Interconnection Agreement (NBT-MT - Multiple Tariff) (Form 79-1069-03)

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 21

(N)
(N)

SPECIAL

3. Interconnection: (Cont'd.)

(N)

CONDITIONS:

(Cont'd.)

Customers with an interconnection application date after the NEM2 Sunset Date (April 14, 2023) will take service and be billed on the NEM2 tariff on an interim basis and transition to the Net Billing Tariff, once it is operational. The NEM2 tariff legacy period is not applicable in this case.

The interconnection application date is defined as the submission date of an application that is free of major deficiencies and includes a complete application, a single-line diagram, and, if applicable, a complete California Contractors State License Board Solar Energy System Disclosure Document, a signed California Solar Consumer Protection Guide, a signed Agreement and Authorization form, and an NBT oversizing attestation.

The eligible customer-generator must meet all applicable safety, and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the California Public Utilities Commission regarding safety, reliability, and consumer protection.

To promote the safety and reliability of the customer REGF, the customer-generator shall comply with Electric Rule No. 21 Sections L.2-L.4 and Section L.7. for interconnecting to the electrical grid. Equipment on the California Energy Commission (CEC) list will meet this requirement and does not need to be verified. Other equipment, as determined by PG&E, should be verified by the customer as having safety certification from a nationally recognized testing laboratory.

Applicant is required to verify as a part of each interconnection request for this tariff that (i) a warranty of at least 10 years, or (ii) a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance has been provided on all equipment and on its installation.

Pursuant to Decision (D) 22-12-056 customers on this tariff must pay for the interconnection of their REGF as provided in Electric Rule 21, including an application fee. This application fee must be paid through PG&E's online application portal in order to complete the application, unless otherwise directed by PG&E. For application fees for Customers impacted by a Natural or Human-Made Disasters⁶, see Special Condition 8.

(N)

⁶ Natural or human-made disasters includes such events as a fire, earthquake, flood, or severe storms.

(Continued)

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<i>Decision</i>	D.22-12-056	Meredith Allen	<i>Effective</i>	March 1, 2023
		<i>Vice President, Regulatory Affairs</i>	<i>Resolution</i>	



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Sheet 22

(N)
(N)

SPECIAL

3. Interconnection: (Cont'd.)

(N)

CONDITIONS:

For the purpose of the NBT tariff, the rating of the generating facility, for the purposes of comparing its size relative to the 1-megawatt (MW) limit, will be determined based on:

(Cont'd.)

- (a) For each PV generator, both the CEC-AC rating, as applicable, and the aggregate inverter capacity must not be greater than 1 MW for a Generating Facility to be considered ≤ 1 MW.
- (b) For each inverter-based generator, the gross nameplate rating of the inverter.
- (c) For each non-inverter-based generator, the generator gross nameplate.
- (d) For REGF's paired with storage, the inverter size of the storage system is not included in the size of the REGF system.

(N)

(Continued)

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Sheet 23

(N)
(N)

**SPECIAL
CONDITIONS:**

4. MULTIPLE TARIFF FACILITIES:

(N)

Multiple Tariff Facilities have the following additional provisions:

- a. When Net Generation Output Metering (NGOM) is required on the REGF, such NGOM must conform to the requirements set forth in Electric Rule 21, Section J.
- b. An NBT-eligible Constituent Generator Group is defined as one or more generators within a facility served behind the same utility revenue meter and subject to this NBT Schedule for billing purposes that is eligible for service under the provisions of either NBT, NEM (except for Load Aggregation), NEM2 (except for Load Aggregation), NEMFC (except for Load Aggregation), NEMBIO or their sub-Schedules.
- c. A non-NBT-eligible Constituent Generator Group is defined as one or more generators within a facility served behind the same utility revenue meter that does not take service under NBT, NEM, NEM2, NEMFC or NEMBIO, but interconnects under the provisions of Electric Rule 21.
- d. All metering for Multiple Tariff Facilities called for in this Special Condition must meet the requirements needed to bill under the customer-generator's OAS. All metering, equipment and non-Export relays necessary to implement the provisions in this section will be provided at the Customer-Generator's expense.
- e. Customers who take service on NBT-MT by adding an NBT-eligible generator to a facility (behind the same utility revenue meter) with existing NEM/NEM2/NEMFC/NEMBIO eligible REGF(s) will be billed under NBT-MT, and all eligible REGFs will be combined into one Constituent Generator Group(s), which will be transitioned to and billed under the NBT.
- f. Customers with NEMA/NEM2A are not eligible for this provision

(N)

(Continued)

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Sheet 25

(N)
(N)

SPECIAL
CONDITIONS:

5. NET SURPLUS COMPENSATION (NSC):

(N)

Pursuant to P.U. Code Sections 2827 (h)(3), this Special Condition was established to provide a NEM customer having **Net Surplus Electricity** (defined as all electricity generated by an eligible customer measured in kilowatt-hours over a Relevant Period that exceeds the amount of electricity consumed by that eligible customer), with Net Surplus Compensation for the Net Surplus Electricity. This benefit is extended to NBT customers pursuant to Decision (D). 22-12-056.

An NBT customer who has Net Surplus Electricity will be known as a **Net Surplus Generator**.

- a. NSC Applicability – All bundled Net Surplus Generators that satisfy the conditions in the Applicability Section of this tariff and take service under this rate schedule are eligible to receive NSC at the end of the Relevant Period, i.e. at the time of their true-up. This includes Net Surplus Generators on sub-schedules NBT-S, NBT-EXP, and NBT-EXP-OTR. An NBT-MT Net Surplus Generator is also eligible to receive NSC but only for the one or more generators at the same metered account eligible for billing treatment under Special Condition 2.a through 2.f of this NBT schedule, or the applicable tariff for the non-NBT generator.

Net Surplus Generators who receive Direct Access (DA) Service from an ESP or who receive Community Choice Aggregation (CCA) Service from a CCA are not eligible to receive NSC from PG&E but may contact their ESP or CCA Provider to see if they provide NSC.

- b. The NSC Rate – The NSC Rate is defined as the simple rolling average of PG&E's default load aggregation point (DLAP) price from 7 a.m. to 5 p.m., for a 12-month period. PG&E shall use the NSC Rate as the value of the electricity portion of its net surplus compensation rate.

PG&E will calculate the NSC Rate each month. It will be effective on the first day of that month and PG&E will use it in the NSC Calculation for any Net Surplus Generators with a Relevant Period completed in that month (True-Up Month).

The DLAP Cutoff Date will be defined as the twentieth (20th) day of the month prior to the True-Up Month.

PG&E will wait five (5) days after the DLAP Cutoff Date for the CAISO to have time to finalize the day-ahead PG&E DLAP prices. The NSC Rate will then be calculated as the simple average of the prices for all hours between 7 a.m. and 5 p.m. over a one (1) year period ending on the DLAP Cutoff Date.

(N)

(Continued)

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Sheet 26

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

5. NET SURPLUS ELECTRICITY COMPENSATION (NSC): (Cont'd.)

(N)

- c. Pursuant to D. 11-06-016, PG&E includes a Renewable Attribute Adder (RAA) based on the California Energy Commission (CEC) implementation methodology.

Under the CEC's Renewables Portfolio Standard (RPS) Eligibility Guidebook⁷, an ownership verification and tracking process is set forth for Renewable Energy Credits (RECs) created by Net Surplus Generators.

PG&E will pay a RAA for Net Surplus Electricity if the Net Surplus Generator completes Form 79-1155-02 - *Schedules NBT, Net Surplus Electricity (NSE) Renewable Energy Credits Compensation Form* which requires that at each true-up a Net Surplus Generator confirm it or its REC aggregator has:

- 1) certified ownership of Net Surplus Electricity Renewable Energy Credits associated with their Net Surplus Electricity;
- 2) obtained certification for the Renewable Portfolio Standards (RPS) eligibility of the Electrical Generation Facility from the CEC and provide evidence of this certification to PG&E; and
- 3) transferred the ownership of the WREGIS Certificates to PG&E.

The RAA will be calculated using the most recent Western Electricity Coordinating Council (WECC) average renewable premium, based on United States Department of Energy (DOE) published data as submitted via advice letter annually in compliance with Resolution E-4475 and Decision 11-12-018.

- d. Calculation of the NSC – Pursuant to Decision 22-12-056, PG&E is directed to calculate NSC as follows: At the customer's 12-month annual true-up, PG&E shall determine if the customer has Net Surplus Electricity, i.e., if the customer exported more electricity than they imported over the Relevant Period. If the customer has Net Surplus Electricity, the kilowatt hours of Net Surplus Electricity will be debited from the customer's account at a rate equal to the utility's average real-world retail export compensation rates for all NBT customers in their service territory over the past 12 months. The customer will then be credited at the NSC rate described in (b) and (c) above for the same number of kilowatt hours.

The ACC Plus paid to the customer on Net Surplus Electricity will not be debited from the customer.

(N)

⁷ The CEC RPS Eligibility Guidebook is available at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>

(Continued)



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Sheet 27

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

5. NET SURPLUS ELECTRICITY COMPENSATION (NSC): (Cont'd.)

(N)

- e. Options for receiving NSC – An NBT customer with NSC will automatically have their NSC applied to any amounts owed to PG&E and then may choose to:
 - 1) take no action and roll any remaining NSC amounts forward to offset subsequent PG&E charges;
 - 2) request that PG&E issue a check if the remaining NSC amount is greater than one dollar (\$1). A customer can select this option by calling PG&E. If the customer is closing all their accounts with PG&E, PG&E will automatically send a check; or
 - 3) elect not to receive any NSC by completing and submitting Form 79-1130 (Customer Request Form not to Receive Net Surplus Compensation) to PG&E to confirm that they do not want to participate. In this case PG&E will zero out any NSC the NBT customer may be otherwise eligible to receive.
- f. Qualifying Facility Status – Customers must comply with the appropriate conditions below to first demonstrate to PG&E that they are Qualifying Facilities (QFs) in order to receive NSC.
 - 1) No documentation of QF status is required of any NBT customer-generators with a net power production capacity of one megawatt or less, consistent with Federal Energy Regulatory Commission (FERC) regulations 18 C.F.R. §292.203.
 - 2) NBT customer-generators with a net power production capacity greater than one megawatt shall self-certify QF status by submitting FERC Form 556 to FERC pursuant to 18 C.F. R. §292.207(a). Notice to PG&E as the utility with which the facility will interconnect and/or transact shall be provided in accordance with FERC Form 556 instructions. Filing Form No. 556 is not a requirement for interconnection under this provision.
- g. Generator Size – Nothing in this Special Condition alters the existing NBT system sizing requirement. Specifically, to be eligible for NSC, a system must be intended primarily to offset part or all of the customer’s own electrical requirements, or if applicable, subject to the terms of the Oversized Generating Facility Attestation.

(N)

(Continued)

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Sheet 28

(N)
(N)

SPECIAL CONDITIONS:

6. NBT Legacy Provisions

(N)

This Special Condition is applicable to all Customers receiving service on this NBT Schedule, and who have submitted all documentation necessary to receive service on this schedule.

- a. 9-Year Transition Period. Pursuant to Decision 22-12-056, customers who receive service on the NBT Schedule, or who have submitted all documentation necessary to receive service on the NBT Schedule, are eligible to continuously stay enrolled on the NBT Schedule for a period of up to 9 years from the original permission to operate (PTO) date. The 9-year enrollment period ends at the conclusion of the Customer's applicable Relevant Period on or after the 9th anniversary of the original PTO date. For example, if a Customer initially received PTO on May 1, 2023, the Customer is eligible to continue receiving service on the NBT Schedule through the conclusion of the Relevant Period ending immediately on or after April 30, 2032.

Customers electing to switch to this NBT Schedule prior to the conclusion of their Schedule NEM or NEM2 Legacy Period permanently forfeit any of their Generating Facility's remaining transition period eligibility on Schedule NEM or NEM2 and may not later change back to receiving service under these schedules. Customers at the end of their NEM or NEM2 Legacy Period enrollment who transitioned to the NBT Schedule may not restart a new Legacy Period under NBT. These customers will not receive a 9-year legacy treatment under NBT. They will remain on this NBT Schedule and will be transitioned to the applicable successor tariff required for customers installing eligible renewable technologies if and when a new successor tariff becomes effective.

- b. Modifications⁸. REGFs eligible for the 9-year transition period outlined above that are modified and/or repaired shall remain eligible for the remainder of their 9-year transition period as long as the modifications and/or repairs do not increase the REGF by more than the greater of:

- 1) 10 percent of the REGF's nameplate rating capacity, as established when the REGF was originally interconnected, or
- 2) 1 kW;

and provided the modifications and/or repairs do not result in the REGF exceeding the Customer's annual onsite load unless customer executed the oversizing attestation.

(N)

⁸ Customers making modifications and/or additions to their REGF that exceed the 10 percent, or 1 kW limit referenced above shall remain on this tariff until the Commission develops a successor tariff to this or directs these customers to another tariff. This requirement will only be enforced upon the development of a new NBT Successor Tariff, or by the direction of the CPUC.

(Continued)



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Sheet 29

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

6. NBT Legacy Provision (Cont'd.)

(N)

c. Transferability. The 9-year legacy period is linked to the customer who originally causes the system to be installed, not to the system itself. If the original customer moves away within nine years from the system's permission to operate (PTO) and another utility customer takes control of (e.g., buys, leases, or pays a power purchase agreement for) the system⁹, the subsequent utility customer does not have a legacy period. There are three exceptions to this:

1. For residential customers: when the subsequent customer is or was the legal partner (e.g., spouse or domestic partner of the customer who installed the REGF).
2. For non-residential customers: when the account-holding entity continues to be majority controlled by the same underlying individuals or entities from the time the legacy system was installed by the original customer.
3. When a builder/contractor constructs a new building and receives PTO before selling the unit. In such cases, the new owner will retain the 9-year legacy period starting from the date of PTO.

For these exceptions, the legacy period does not restart when the subsequent customer takes control of the system. Rather, the legacy period remains based on the REGF's PTO date.

(N)

⁹ The transfer of an existing REGF to a new location is considered a new installation requiring a new Interconnection Agreement that is subject to the applicable tariffs in place at the time the new Interconnection Request is completed.

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 30

(N)
(N)

SPECIAL CONDITIONS:

7. NBT Paired Storage

(N)

a. Definitions:

NBT Paired Storage:

NBT Paired Storage is defined as qualifying energy storage equipment ("storage system" or "storage device") paired with a REGF that either:

(i) meets the Renewables Portfolio Standard (RPS) Guidebook¹⁰ requirements as an "addition or enhancement" as described in Section c. below, or

(ii) is eligible to receive certain benefits as described in this Special Condition because it is paired with an REGF even if it is not exclusively charged by renewable energy, pursuant to California Public Utilities Commission (CPUC) Decision (D.) 14-05-033 and D.19-01-030.

NBT Paired Storage is considered "Small NBT Paired Storage" when the storage system size is ≤10kW and "Large NBT Paired Storage" when the storage system size is >10kW.

AC-Coupled Paired Storage:

In an AC-Couple Paired Storage system, the REGF has its own inverter or set of inverters; and separately, the storage system has its own inverter or set of inverters, pursuant to CPUC D.19-01-030.

For an AC-coupled REGF paired with a storage device, storage device capacity is determined as the (AC) maximum discharge capacity. The size of the storage system for AC-coupled REGF plus storage systems is the inverter's (or inverters') nameplate capacity (or nameplate capacities summed).

DC-Coupled Paired Storage:

In a DC-Couple Paired Storage system, the REGF and the storage share the same inverter, or set of inverters, pursuant to CPUC D.19-01-030.

The size of the storage system is the lesser of the shared inverter's (or inverters') nameplate capacity (or capacities summed) and the storage device's (devices') maximum continuous discharge capacity (or capacities summed) listed on the storage device's (devices') technical specifications sheets. A storage device's maximum continuous discharge capacity may be listed on technical specification sheets using different terminology; PG&E will use common sense to determine whether a device's technical specification sheet includes the appropriate metric for purposes of determining system size, regardless of the terminology used. If that metric is not included, PG&E will rely on the inverter's nameplate rating.

(N)

¹⁰ The RPS Guidebooks can be found at: <https://www.energy.ca.gov/programs-and-topics/programs/renewables-portfolio-standard>.

(Continued)



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NET BILLING TARIFF (NBT) SERVICE

Sheet 31

(N)
(N)

SPECIAL
CONDITIONS:

7. NBT Paired Storage (Cont'd.)

(N)

(Cont'd.)

a. Definitions: (Cont'd.)

NBT Integrity

NBT Integrity refers to the requirement that a customer only receive Export Credits for renewably generated exports from an NBT-eligible REGF.

Certified Power Control System (Certified PCS)

A Certified PCS storage system is one that has received UL1741 CRD¹¹ or utility-approved certification for Power Control systems (PCS) that will comply with either No Grid Charging or No Storage Export as defined below. These systems do not require an NGOM as the PCS is certified to preserve NBT Integrity, as defined above.

No Grid Charging:

No Grid Charging describes when a storage system uses a Certified PCS, as defined above, to ensure that the storage system cannot be charged from the PG&E grid¹². A PG&E-approved physical non-import relay or a functionally equivalent non-import configuration to prevent grid power from flowing to the storage device is also permitted. Inadvertent but minor instances of grid import are permitted. Such inadvertent grid imports must not exceed durations of ten seconds.

(N)

¹¹ CRD refers to an Underwriters Laboratories (UL) Certification Requirement Decision, in this case the one issued on 3/8/2019

¹² In the event of an expected PSPS (Public Safety Power Shutoff) outage, as evidenced by a 48-hour notice from PG&E to the expected outage start, a storage system defined as "No Grid Charging" and designed for resiliency, meaning it is capable of providing back-up power safely and in compliance with all relevant tariffs, electric rules, other requirements, and is qualified by PG&E to participate, will be temporarily permitted to charge from the grid in order to prepare for the PSPS outage. The notification must specify an impact to the customer generator location. This temporary permission will begin at the publication of the 48-hour notification and will end 24 hours after the end of the PSPS event, as marked by the restoration of power at the site. If power is not shutoff, the temporary permission will end 72 hours after the original 48-hour notice. At the end of the temporary permission period as described above, the storage system will need to revert to "No Grid Charging" operation mode in order to maintain compliance with the NBT tariff, notwithstanding additional PSPS Alerts. At no point during the temporary permission period will the system be permitted to violate the interconnection agreement. Specifically, the storage system must not increase the host facility's historical peak demand.

(Continued)

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Sheet 32

(N)
(N)

SPECIAL
CONDITIONS:

7. NBT Paired Storage (Cont'd.)

(N)

(Cont'd.)

a. Definitions: (Cont'd.)

No Storage Export:

No Storage Export describes when a storage system uses a Certified PCS, as defined above, to ensure that the storage system cannot export to PG&E's grid and therefore will not result in additional credits. A PG&E-approved physical non-export relay or a functionally equivalent non-export configuration to prevent grid power from flowing to the storage device is also permitted. Inadvertent but minor instances of storage export are permitted. Such inadvertent grid exports must not exceed durations of ten seconds.

b. Interconnection Cost Responsibility

NBT Paired Storage will have the same interconnection cost responsibility as the NBT generator with which it is paired, including charges or fees related to the interconnection application, Rule 21 engineering study/review, and/or any associated distribution upgrades.

See Section c.5. below for additional information

c. Interconnection and Billing Requirements for different types of NBT Paired Storage

Interconnection and billing requirements for facilities that use storage devices differ depending on the type and size of NBT Paired Storage system. These requirements are described here and summarized in Table 1 and Table 2 of this Special Condition.

The Renewables Portfolio Standard (RPS) Guidebook⁸ establishes two categories of energy storage that may be considered an addition or enhancement to a renewable electrical generation facility: "integrated" and "directly connected" storage.

1) Integrated Storage:

Integrated Energy Storage is defined in the RPS guidelines as methods of storing energy from a renewable energy resource that are integrated into the REGF as part of the generation process.

Note that, for battery-based storage, the storage device must only be capable of storing energy from the REGF to be considered Integrated Storage. Table 1 of this schedule summarizes integrated storage billing and interconnection requirements.

(N)

(Continued)



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Sheet 33

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

1) Integrated Storage: (Cont'd.)

Table 1. Integrated Storage Billing and Interconnection Requirements.

INTEGRATED STORAGE (By definition, the storage device must only be capable of storing energy from the REGF)			
SCENARIO	Billed As	Applicable Interconnection Application and Agreements	Applicable Interconnection Costs (Section 9.c.)
AC-Coupled NBT Paired Storage Or DC-Coupled NBT Paired Storage	billed as if storage and REGF were all one generator (e.g. NBTS, NBTEXP)	REGF < 1 MW apply with 79-1174-03 and Interconnection agreement 79-1193-03	Per 5.i of <u>this Special Condition</u>
		REGF > 1 MW apply with 79-1174-03 and Interconnection agreement 79-1198-03	Per 5.ii or iii of <u>this Special Condition</u>

2) Directly Connected:

Directly Connected NBT Paired Storage is defined in the RPS guidelines as meeting the following requirements:

(i) The storage device is directly connected to the REGF via an internal power line (i.e., power may not be transmitted from the renewable facility to the energy storage via an external distribution line); and

(ii) The storage device must be operated as part of the NBT eligible facility.

Note that the storage device is **not** required to be exclusively charged by the REGF.

(N)

(Continued)



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NET BILLING TARIFF (NBT) SERVICE

Sheet 34

(N)
(N)

SPECIAL
CONDITIONS:

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

2) Directly Connected: (Cont'd.)

Directly Connected Cases:

(i) Small (≤ 10 kW) DC-Coupled NBT Paired Storage system:

Small DC-Coupled storage systems are not required to meet either the "No Grid Charging" or "No Storage Export" requirements. Customers must apply with 79-1174-03, and either complete interconnection agreement Form 79-1193-03 (solar and/or wind electric facilities of 30kW or less) or Form 79-1069-03 (all other REGF with a storage system configuration fulfilling the requirements of "No Grid Charging"). All configurations will be billed using the estimation methodology as described in sub-section c.3)(ii) of this special condition unless; additional metering is installed, as described in "Large NBT Paired Storage" below, or the system is operating with a Certified PCS.

(ii) Large (> 10 kW) DC-Coupled NBT Paired Storage system:

Large DC-Coupled storage systems must satisfy the definition of "No Storage Export". Customers must apply with 79-1174-03, complete Form 79-1069-03. Customers will be billed as described for Large NBT Paired Storage in sub-section c.3)(iii) of this special condition, unless using a Certified PCS, in which case they will be billed as described in sub-section c.3)(i).

For this case, there are no restrictions on the maximum storage system size (kW).

(iii) Large (> 10 kW) AC-Coupled NBT Paired Storage system

Large AC-Coupled NBT Paired Storage systems shall have a maximum power output no larger than 150% of the NBT-eligible generator's maximum output capacity. Pursuant to Decision 20-06-017 the maximum output capacity limit shall not apply for a period of 3 years starting on August 16, 2020, and ending August 15, 2023.

(N)

(Continued)

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Sheet 35

(N)
(N)

SPECIAL
CONDITIONS:

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

2) Directly Connected: (Cont'd.)

Large AC-Coupled NBT Paired Storage are required to select one of the following:

- a) install a non-export relay on the storage device(s);
- b) install an interval meter for the NBT-eligible generation, meter the load, and meter total energy flows at the point of common coupling;
- c) install an interval meter directly to the NBT-eligible generator(s); or
- d) operate using a Certified PCS.

(iv) Large (>10kW) AC-Coupled NBT Paired Storage system:

Large AC-Coupled NBT Paired Storage Systems must apply with PG&E Electric Form 79-1174-03, and either complete interconnection agreement Form 79-1193-03 (solar and/or wind electric facilities of 30kW or less) or Form 79-1069-03 (all other REGF with a storage system configurations). Customers will be billed as described in sub-section c.3)(iii) of this special condition unless operating using a Certified PCS, in which case, they will be billed as described in sub-section c.3)(i).

(v) Small (≤10kW) AC-Coupled storage systems:

Small AC-Coupled NBT Paired Storage is not required to be sized to the customer's demand or the NBT generator. Small NBT Paired Storage systems have the option to install metering as required for Large NBT Paired Storage, or use a Certified PCS, as defined above, to be billed as described in sub-section c.3)(i) of this special condition. Otherwise, they will be billed using the estimation methodology described in sub-section c.3)(ii) of this special condition.

Small AC-Coupled NBT Paired Storage systems eligible must apply with the 79-1174-03 (NBT) and complete the 79-1193-03 (NBT) when the NBT-Eligible GF is sized 30kW or less or apply with the 79-1174-03 (NBT) and complete the 79-1069-03 (NBT) when the NBT-eligible GF exceeds 30kW.

(N)

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(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

Table 2. Directly Connected Billing and Interconnection Requirements

(This table covers storage that is NOT required to be 100% REGF charged) For Both DC and AC-Coupled NBT Paired Storage						
Storage Size	Applicable Interconnection Agreements and Costs				Applicable Billing	Notes
	PV/Wind < 30 kw	Non-PV/Wind REGF ≤1MW >30kW PV/Wind ≤1MW	REGF >1Mw	costs (Section 9.c.)	Billed as	NBT Integrity Requirements
DC-Coupled or AC-Coupled NBT Paired Storage with a PCS	Small (≤10kW) 79-1093-03 Large (>10kW) 79-1069-03	79-1069-03	79-1078-03	Per 5.i	§3i	Certified PCS, as defined above, required
DC-Coupled or AC-Coupled Small NBT Paired Storage with no PCS (≤ 10kW)	79-1093-03	79-1069-03	79-1078-03	Per 5.i	§3ii	Billed using Estimation Methodology
DC-Coupled or AC-Coupled Large NBT Paired Storage with no PCS sized >10kW And ≤150%	79-1069-03	79-1069-03	79-1078-03	Per 5.ii or iii	§3iii	NGOM, No Storage Export, or additional metering required, as described above
DC-Coupled or AC-Coupled Large NBT Paired Storage with no PCS sized >10kW And > 150%	Set up and bill as NBTMT (not under NBT-Paired Storage section)					

(N)

(Continued)



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(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

3) Billing for NBT Paired Storage

(i) Large or Small NBT Paired Storage with Certified PCS

Large or Small NBT Paired Storage operating with a Certified PCS to ensure NBT Integrity, as defined above, can be billed as if storage and REGF were all one generator (e.g., NBTS, NBTEXP).

(ii) Estimation Methodology For Small NBT Paired Storage (≤10kW)

Small NBT Paired Storage without metering installed (as required for Large NBT Paired Storage) and not using a Certified PCS will be billed using an estimation methodology, which caps maximum allowable NBT bill credits based on a monthly output profile. For REGFs that utilize a technology other than only solar PV, the Customer must adhere to the metering and billing requirements applicable to Large NEM-Paired Storage Systems

Solar PV estimation method

- a. PG&E will establish a maximum cap for NBT-eligible exports for each monthly billing period based on the California Solar Initiative Expected Performance-Based Buydown (CSI EPBB) calculator production estimate for the customer's NBT-eligible generator. The production estimate is scaled to the customer's solar PV generation system size.

The monthly output estimation should align with the month from the start of the customer's billing period (e.g., if the customer's billing period is from January 15 to February 15, the maximum allowed NBT export should be based on a January output estimation.)

- b. Any export exceeding this limit would not be eligible for NBT credit and would be forfeited. The forfeited exports are assumed to have occurred during the highest price billing period during the Customers' billing cycle, regardless of when the excess energy was actually exported.

For example, if there was an export to the grid of 150 kWh and the EPBB-based limit for the month was set at 100 kWh, then the excess 50 kWh would be deducted from the actual exports recorded.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 38

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

3) Billing for NBT Paired Storage (Cont'd.)

a. In the event the Small NBT-eligible GF is combined with other generation facilities pursuant to Special Condition 4, the billing provision of Special Condition 4 will apply, not this billing estimation methodology.

Should a customer decide to opt-out of using this estimation methodology, the customer must install one of the metering requirements described in the Large NBT Paired Storage section of this Special Condition, or a Certified PCS, as described above. The customer may only switch at the start of a new NBT Relevant Period.

(iii) Large NBT Paired Storage systems without a Certified PCS are billed consistent with Special Condition 4 with the storage treated as a non-NBT eligible generator.

4) NBT Paired Storage Output Metering Costs

PG&E will install standard metering equipment whenever possible while interconnecting NBT Paired Storage systems. Standard metering equipment for this purpose comprises a single meter which is a self-contained, single phase, SmartMeter. The fee for installation of standard metering equipment is no more than \$600.00.

However, this fee cap does not apply to NBT Paired Storage requiring complex metering solutions. Complex metering solutions include any configuration other than the standard equipment described above. The cost for complex metering varies and is based on actual costs which will be described in the customer's invoice.

5) NBT Paired Storage Interconnection Cost Responsibility

For the purpose of determining if a NBT Paired Storage REGF exceeds 1 MW criterion, refer to the sizing definition included in the AC-Coupled and DC-Coupled definition at the beginning of this Special Condition.

(i) NBT Paired Storage REGF < 1 MW - The storage will have the same interconnection cost responsibility as the NBT-eligible generating facility that it is paired with a REGF less than or equal to 1 MW.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 39

(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

7. NBT Paired Storage (Cont'd.)

(N)

c. Types of NBT Paired Storage (Cont'd.)

5) NBT Paired Storage Interconnection Cost Responsibility (Cont'd.)

ii) NBT Paired Storage REGF > 1 MW - The storage will have the same interconnection cost responsibility as the NBT-eligible generating facility that it is paired with a REGF greater than 1 MW.

iii) In the event the storage is added at a later date after the permission to operate is issued for the NBT-eligible generating facility, the storage applicant will be required to pay the same interconnection fees and costs that the NBT-eligible generating facility would be required to pay, per the requirements of PG&E Electric Rule 21.

d. Requirements for Large NBT Paired Storage (i.e., All NBT Paired Storage Devices except Solar NBT paired with Storage Sized 10 KW and Smaller).

For NBT-paired storage systems with storage devices larger than 10 kW, the NBT Paired Storage shall have a maximum output power no larger than 150% of the NBT-eligible generator's maximum output capacity. Pursuant to Decision 20-06-017 the maximum output capacity limit shall not apply for a period of 3 years starting on August 16, 2020 and ending August 15, 2023.

Large NBT Paired Storage systems are required to either:

- 1) install a non-export relay on the storage device(s);
- 2) install an interval meter directly to the NBT-eligible generator(s); or
- 3) Operate using a Certified PCS

e. Requirements for Small NBT Paired Storage (i.e., Solar NBT Paired with Storage Devices Sized 10 KW or Smaller)

Small NBT Paired Storage is not required to be sized to the customer demand or the NBT generator. Customers with Small NBT Paired Storage have the option to install metering as required for Large NBT Paired Storage or use a Certified PCS to ensure NBT Integrity, otherwise they will be billed using the estimation methodology described in Section 3(ii) of this special condition.

(N)

(Continued)



ELECTRIC SCHEDULE NBT
NET BILLING TARIFF (NBT) SERVICE

Sheet 40

(N)
(N)

**SPECIAL
CONDITIONS:**

8. Natural or Human-Made Disasters

(N)

Pursuant to the Special Condition 6 (NBT Legacy Provisions), all Customers receiving service on this NBT Schedule who are impacted by a natural or human-made disaster may request service on this tariff from (i) the date of the issuance of their original pre-natural or human-made disaster "permission to operate" (PTO) letter until (ii) the date of the customer's first Energy True Up in the tenth (10th) year.

Impacted Customers must:

- (i) reapply for interconnection with a replacement system sized to generate no more than 12 months of historic, or estimated, usage (kWh), and
- (ii) when reapplying for interconnection, submit proof of destruction of the renewable generator, if requested by PG&E.

Customers with natural or human-made disasters who are reapplying to this tariff are also eligible to oversize their system per the applicability of this tariff by executing the NBT Oversized Generating Facility Attestation.

If the generator needs to be replaced due to a natural or human-made disaster PG&E will true-up the NBT account(s) pursuant to Special Condition "Billing", and Net Surplus Compensation (NSC) will be issued, if any, pursuant to Special Condition "Net Surplus Compensation", up to the date of the natural or human-made disaster, unless the Customer requests that PG&E continue to bill the Customer on NBT through the Customer's next regular true-up date.

(N)

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(N)
(N)

SPECIAL
CONDITIONS:
(Cont'd.)

8. Natural or Human-Made Disasters (Cont'd)

(N)

The intervening period from destruction of the generator to PTO of the replacement generator must be no longer than four years, unless reasonable documentation acceptable to PG&E is provided showing that the new interconnection is in process. The interconnection application must be completed by the same NBT customer who was taking service on NBT prior to the Natural or Human-Made Disaster. If the generator is not replaced by the same NBT Customer, but the property is sold to a new owner after the destruction of the generator, this provision does not extend to the new owner. The new owner must apply and take service under the effective tariff at the time of interconnection and is subject to all the requirements of a new customer seeking interconnection for that tariff.

Customers impacted by Natural or Human-Made Disasters who meet the requirements included in this Special Condition and whose replacement system is sized¹³ no greater than 1 megawatt (MW) are exempt from the interconnection application fee when reapplying.

Customers impacted by Natural or Human-Made Disasters must comply with all requirements including and not limited to the installation of Smart Inverter technology, in Electric Rule 21.

(N)

¹³ Sized as defined in Special Condition 3.

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Advice Submittal List
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AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blaising Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

California Alternative Energy and
Advanced Transportation Financing
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Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell
Dish Wireless L.L.C.

East Bay Community Energy Ellison
Schneider & Harris LLP
Engineers and Scientists of California

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie

Green Power Institute
Hanna & Morton
ICF

iCommLaw
International Power Technology
Intertie

Intestate Gas Services, Inc.

Johnston, Kevin
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated
Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead
Electric Company
Western Manufactured Housing
Communities Association (WMA)
Yep Energy