

Net Energy Metering Aggregation (NEMA) Billing Guide

PG&E welcomes you to the Net Energy Metering Aggregation (NEMA) Program. Thank you for participating in the green energy movement! Whether you have been participating in NEMA or are new to the program, PG&E would like you to know the NEMA program is undergoing regular updates to improve the customer experience.

This walkthrough intends to familiarize you with NEMA billing under the NEM 1 Tariff. It will describe the NEMA Billing methodology, NEMA Billing statements, and include important reminders to keep in mind before making any changes to your NEMA arrangement of meters.

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Key Definitions

- **Net Energy Metering (NEM) Basics:**
 - NEM measures the difference between the amount of energy you produce and the amount of energy you consume. Energy generated by your system first and foremost is used to provide energy to your property. This offsets the amount of electricity that PG&E provides. Any excess electricity that your solar system generates and is not consumed on-site is exported to the grid. When your system is not generating energy (for example, at night) or it does not generate enough electricity to meet your energy needs, the shortfall is supplied by PG&E.
- **NEM Billing overview:**
 - NEM customers are normally on a 12-month billing cycle that results in what is known as a “True-Up.” Throughout the year, energy charges are offset by excess electricity you have exported to the grid. At the end of the 12-month billing cycle, all charges and credits are reconciled to determine whether or not you have a remaining balance. If you have a credit balance, you may be eligible to automatically receive payment through Net Surplus Compensation (NSC).
 - For more information regarding how NEM works, please visit pge.com/nembilling.

- **How Net Energy Metering Aggregation (NEMA) Works:**
 - NEMA allows a single customer with multiple meters on the same property or on adjacent or contiguous (continuous) properties, to use solar generation to serve your energy needs and aggregated load behind all eligible meters and receiving the benefits of net energy metering. Below are the key items associated with how NEMA works:
 - NEMA “arrangement”: composed of the group of electric meters associated with your generating system that will receive the energy generated, e.g. “allocated credits.”
 - Generating meter (or generating account): the electric meter that is selected and physically tied to the generating system.
 - Benefitting meters (or aggregate accounts): all other electric meters on your property(ies) that will receive the energy benefits from your generating system (virtually.)
 - Due to reallocation between the generating meter and the benefiting meters in the NEMA arrangement, Customers participating in NEMA are ineligible to receive net surplus compensation.

- **Customer Account:** Also referred to as “account”, it is the main account established with PG&E by the Customer of Record (the owner or name on the account). The account establishes such details as who is financially responsible for maintaining the service with PG&E and the main contact information. An account can be composed of a single meter/service agreement ID or multiple meter/service agreement IDs (or multiple electric services).

- **Electric Service Agreement ID:** An account-specific number representing an electric service tied to a physical electric meter. The service agreement ID (or SA ID) includes information such as what electric rate the customer has selected and it uses the load information from the associated electric meter to calculate the applicable energy charges. Residential customers generally have only one electric SA ID under one account.

- **Electric Meter:** The physical meter that records the amount of power that PG&E supplies to the customer’s site.

- **Kilowatt-hours (kWh):** the unit of measure for how much energy you consume.

- **Kilowatts (kW):** the unit of measure for how quickly you consume energy.

General Facts of NEMA

- The SA ID and/or meter number often change as a result of participating in NEMA.
 - Account changes: agricultural and commercial services normally maintain their existing SA IDs when they are updated to reflect NEMA, whereas residential accounts usually change.
 - SA IDs and/or meter numbers may change multiple times over the course of the customer account, but the customer account number should not change unless it is closed by the customer of record.
 - Since every electric meter has a meter number and a corresponding SA ID, you may use either if you need to contact PG&E about your bill.
 - SmartMeters: Customers who do not have a SmartMeter already installed are likely to have their meters changed during the field inspection portion of the interconnection process. In some cases, existing SmartMeters may also be changed in order to better connect remotely with PG&E. Note: SmartMeters have the words “SmartMeter” labeled on the electric meter.
 - The preferred metering for a NEMA benefitting account is a SmartMeter. Having a SmartMeter installed for each benefitting meter account will reduce the likelihood of delayed billing.
 - Once all of the SA IDs in the NEMA arrangement are updated to reflect NEMA, you will begin receiving monthly Detail of Bills (DOB) for each SA ID in the NEMA arrangement, if you had not already been receiving them. These DOB statements will be sent to you in addition to your monthly Energy Statements (or Blue Bills).
 - Since a DOB will be sent for every electric account in the NEMA arrangement, you may request to receive one DOB by contacting PG&E at 877-743-4112.

Energy Allocation Methodology

- The NEM program is designed to first offset the consumption (or load) associated with the generating meter and then export any additional power back to PG&E. Therefore, the exported power (or generation) that is used in the allocation methodology is equal to the exported generation from the generating system minus the power needed to serve the load tied to the generating meter, not the total power exported from the generating system.
- The NEMA program is designed to allocate generation credits (or exported power) based on a 12 billing-period cycle so that the generation credits allocated are proportional to each SA ID’s annual consumption within the 12 billing-period cycle. In this way, the SA ID in the NEMA arrangement which had the most consumption (or cumulative usage) would also have the proportionate amount of available generation credits allocated to it.
 - Monthly bills: the credits from the exported generation are applied monthly based on the most cumulative usage up to that billing period, not the most usage for that one billing period. For example, if in the second month of NEMA billing, an electric meter used more power than any of the other meters, it may still not get the most exported generation

credits allocated to it for that month due the cumulative usage on another electric meter being greater over the two months under review.

- NEMA Customers have one of the most complex billing methodologies when compared to all the other NEM programs because each successive billing period is dependent upon the previous periods. Every month, the NEMA billing methodology reallocates the exported generation credits among all of the SA IDs based on the dynamic shifting of the cumulative usage on each electric meter. By the True-up (the 12th billing period), each SA ID in the arrangement will have been allocated a percentage of the exported generation credits equal to the percentage of its respective cumulative usage divided by the sum of all the usage in the NEMA arrangement.
 - While complicated, the NEMA billing methodology is designed to ensure that all renewable generation receives value, as long as the cumulative usage across all of the SA IDs in the arrangement is larger than the cumulative generation. This methodology ensures that all of the renewable generation is applied where it best serves the customer by the True-up.

Billing Walkthrough

In order to understand how the NEMA Allocation methodology works, we will review the key tables from the DOB (Detail of Bill) of both the generating meter and the benefitting meter. For the purposes of this section of the walkthrough, we will utilize the language on the DOB bills when describing the generating meter (NEMA Generator Account) and the benefitting account (NEMA Aggregated Account). The walkthrough will be based on the following NEMA arrangement:

- Generator Account (Residential meter on E1)
- Benefitting Account (Agricultural Pump on AG4A)

A. Key NEMA Tables

- DOB of Generator Account

Pacific Gas and Electric Company
PACIFIC GAS AND ELECTRIC COMPANY
 ELECTRIC DETAIL OF BILL
 Service Dates: December 12, 2015 to January 10, 2016
NEMA GENERATOR ACCOUNT

SOLAR, JOHN
 123 SOLAR ST
 SOLAR, CA. 11111

Rate Schedule: E 1RB/NEMA
 Account ID: 1234567890
 Service ID: 1234567111

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This is your first Detail of Bill (DOB) for Net Energy Metering Aggregation (NEMA).
 The DOB reflects your monthly billing and Net Energy Metering (NEM) energy charges/credits. Any charges due are reflected on your monthly Energy Statement (provided separately). Any payments you have made towards your energy charges are reflected on your monthly Energy Statement.

Your energy charges are reconciled and due at the end of your True-Up period (**Jan 2017**). Any unpaid energy charges, taxes and fees will be due at that time.

At True-Up, your True-Up History Summary charges and usage are reset to zero starting with your next billing cycle.

BILLING SUMMARY

RATE APPLICATION										
MINIMUM CHARGES										
RATE SCHEDULE	SEASON	RATE EFFECTIVE DATE	DAYS IN RATE PERIOD	USAGE (KWH)	RATE	CALC AMOUNT	BILLED AMOUNT	COMPONENT TYPE	TOTAL RATE	TOTAL CHARGE
E 1RB	Winter	12/01/15	30		0.25622	\$7.17	\$7.17	DIST		
E 1RB	Winter	12/01/15	30		0.01229	\$0.34	\$0.34	PPP		
E 1RB	Winter	12/01/15	30		0.00019	\$0.01	\$0.01	ND		
E 1RB	Winter	12/01/15	30			\$1.68	\$1.68	GEN	0.32854	\$9.20
E 1RB	Winter	12/01/15	30	-174	0.01659	\$-2.89	\$-2.89	TRANS		
E 1RB	Winter	12/01/15	30	-174	0.00539	\$-0.94	\$-0.94	DWR		
E 1RB	Winter	12/01/15	30	-174	0.00338	\$-0.59	\$-0.59	OCF		
E 1RB	Winter	12/01/15	30	-174	-0.00002	\$0.00	\$0.00	1DR		
E 1RB	Winter	12/01/15	30	-174	0.00255	\$-0.44	\$-0.44	NSGC		
E 1RB	Winter	12/01/15	30	-174		\$4.86	\$4.86	GEN	0.00000	\$0.00
TOTALS						\$9.20	\$9.20			

Minimum Charges = Rate x Days in Rate Period
 GEN = Residual of total charge less other component types.

- Summary of Current Month's Energy Charges/Credits
 - Applicable Energy Charges: Depending on your rate, a utility bill is comprised of service charges, demand (kW) charges, energy (kWh) charges, and standby fees. Note: only energy charges may be offset by the exported power of the generating system.
 - If you are a residential customer, you have the option of paying your energy charges monthly or at the end of the year. Depending on the exported power from your generator account, it may be more beneficial to pay monthly. Otherwise, any charges accrued on the account will all be due at the True-up.

At True-Up, your True-Up History Summary charges and usage are reset to zero starting with your next billing cycle.

BILLING SUMMARY	
NEM Billing Fees	\$60.00
Minimum Charges	9.20
Total Current Month's Electric Charges Due	\$69.20

SUMMARY OF CURRENT MONTH'S ENERGY CHARGES/CREDITS	
Current Month Energy Charge or Credit (-)	\$-31.63
Cumulative Energy Charges or Credits (-)	\$-31.63

- These values are calculated in the table titled "True-up History Summary". The value is based off of net consumption which is dependent upon the generation allocated and the energy consumption.

USAGE AND GENERATION SUMMARY						
TRUE-UP HISTORY SUMMARY						
BILLING MONTH	BILL TO DATE	RATE SCHEDULE	TOTAL USAGE	E84 BL. CHG	E24 EC TAX	TOTAL CHARGES
Feb 2016	01/10/16	E 1RB	-174	\$-31.58	\$-0.05	\$-31.63
TOTALS			-174	\$-31.58	\$-0.05	\$-31.63

- TOTAL USAGE (Table titled “BILLING ENERGY”)

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	12/01/15	402
3333333333C	4444444444	1111111111	E 1RB	Winter	12/01/15	-576
TOTAL						-174

- CHANNEL ID: A unique numerical value assigned to the electric meter
 - Channel A (the numerical value in the “Channel ID” column with the letter “A”) represents energy pulled from the grid (i.e. energy delivered by PG&E to you)
 - Channel C (the numerical value in the “Channel ID” column with the letter “C”) represents energy exported back to the grid (i.e. energy sent to PG&E from your solar system)
 - The sum of “Channel A” and “Channel C” is your net consumption for the billing period and is the billed amount of energy.
 - If you see multiple reads for both the A & C channels, it is due to either a monetary rate change or a season rate structure change (e.g. switching between summer and winter rates in the middle of a bill period).
 - If your net usage is negative for the bill period, you are a “net generator” for that bill period. Alternatively, if your net usage is a positive for the bill period, you are a “net consumer” for that bill period.
- METER BADGE: the physical electric meter number. Channel C represents the meter to which the solar system is tied. Channel A represents the meter to which the bill corresponds.
- BL CHG (TABLE TITLED—“RESIDENTIAL ENERGY CHARGES”)

RESIDENTIAL ENERGY CHARGES													
RATE SCHED	DESCRIPTION	SEASON	RATE DATE	RATE DAYS	USAGE (KWH)	BASE QTY	TIERED QTY	EGY RATE	CALC AMOUNT	TRUEUP AMOUNT	COMP TYPE	TOTAL RATE	TOTAL CHARGE
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.01659	\$-2.89	\$-2.89	TRANS		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.08230	\$-14.32	\$-14.32	DIST		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.01405	\$-2.44	\$-2.44	PPP		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.09696	\$-16.87	\$-16.87	GEN		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00022	\$-0.04	\$-0.04	ND		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00023	\$-0.04	\$-0.04	RMR		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00539	\$-0.94	\$-0.94	DWR		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00338	\$-0.59	\$-0.59	OCF		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	-0.00002	\$0.00	\$0.00	1DR		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00255	\$-0.44	\$-0.44	NSGC		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000	0.00000	\$0.00	\$0.00	GH3		
E 1RB	Tier 1 Non-LIRA	Winter	12/01/15	30	-174.000	-308.000	-174.000		\$6.99	\$6.99	DIA	0.18151	\$-31.58
TOTALS									\$-31.58	\$-31.58			

- EC TAX (TABLE TITLED —“ENERGY COMMISSION TAX”)

ENERGY COMMISSION TAX									
RATE SCHEDULE	SEASON	OAS RATE DATE	RATE DATE	BILL START	BILL END	RATE DAYS	USAGE kWh	RATE PER kWh	TRUEUP AMOUNT
E 1RB	Winter	12/01/15	01/01/11	12/12/15	01/10/16	30	-174	.00029	\$-0.05
TOTAL									\$-0.05

- DOB of Benefitting Account



PACIFIC GAS AND ELECTRIC COMPANY
ELECTRIC DETAIL OF BILL
Service Dates: December 12,2015 to January 10,2016



NEMA AGGREGATED ACCOUNT

Rate Schedule: AG 4A/NEMA
Account ID: 9876543211
Service ID: 9876543222

SOLAR JOHN
123 SOLAR AG PUMP
SOLAR, CA. 11111

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This is your first Detail of Bill (DOB) for Net Energy Metering Aggregation (NEMA).
The DOB reflects your monthly billing and Net Energy Metering (NEM) energy charges/credits. Any charges due are reflected on your monthly Energy Statement (provided separately).

4 Your energy charges are reconciled and due monthly. At the end of your annual True-Up period (**Jan 2017**), any unpaid energy charges, taxes and fees will be due at that time.
At True-Up, your True-Up History Summary charges and usage are reset to zero starting with your next billing cycle.

BILLING SUMMARY

1. The service dates on the top of the DOB will match the service dates on the Energy statements
2. The DOB clearly designates which electric meter is a Benefitting account by including the heading “NEMA AGGREGATED ACCOUNT”
3. The rate schedule includes the words “NEMA” after the current rate
4. In this example, since this is an agricultural account, the third paragraph mentions that the energy charges are due monthly
5. Anticipated completion of your 12 month billing cycle when you will receive your true-up bill

- 6. Service Address
- 7. Associated account and SA ID for the billed meter

o Billing Summary

At True-Up, your True-Up History Summary charges and usage are reset to zero starting with your next billing cycle.

BILLING SUMMARY	
Service Charges	\$16.64
Demand Charges	18.60
Total Current Month's Electric Charges Due	\$35.24

SUMMARY OF CURRENT MONTH'S ENERGY CHARGES/CREDITS	
Cumulative Energy Charges: \$-8.65	
Previously Billed Charges: \$0.00	
*Current Energy Charges Due: \$0.00	
*(Cumulative Energy Charges greater than or equal to 0) minus (Previously Billed Charges)	
Please see charts on the following pages for further detail.	

- This table displays your current energy charges. Both the “Service Charges” and the “Demand Charges” are calculated in tables found later in the DOB. As a reminder, “Service Charges” and “Demand Charges” cannot be offset with generation credits.

RATE APPLICATION										
SERVICE CHARGE										
RATE SCHEDULE	CHARGE TYPE	SEASON	RATE EFFECTIVE DATE	DAYS IN RATE PERIOD	RATE	BILLED AMOUNT	COMPONENT TYPE	TOTAL RATE	TOTAL CHARGE	
AG 4A	Customer Charge	Winter	12/01/15	5	0.57400	\$2.87	DIST	0.57400	\$2.87	
AG 4A	Customer Charge	Winter	12/01/15	23	0.57400	\$13.20	DIST	0.57400	\$13.20	
AG 4A	Customer Charge	Winter	01/10/16	1	0.57400	\$0.57	DIST	0.57400	\$0.57	
TOTAL						\$16.64				
DEMAND CHARGE										
BILLING FACTOR = 1.000										
RATE SCHEDULE	CHARGE TYPE	SEASON	RATE EFF DATE	RATE DAYS	DEMAND (kW)	RATE PER kW	BILLED AMOUNT	COMP TYPE	TOTAL RATE	TOTAL CHARGE
AG 4A	Connected Load	Winter	12/01/15	5	15	1.24	\$3.21	DIST	1.24	\$3.21
AG 4A	Connected Load	Winter	12/01/15	23	15	1.24	\$14.75	DIST	1.24	\$14.75
AG 4A	Connected Load	Winter	01/10/16	1	15	1.24	\$0.64	DIST	1.24	\$0.64
TOTAL							\$18.60			

B. Allocation Example

In addition to the key NEMA tables mentioned above, the table that may be the most challenging to understand is the NEMA GENERATION ALLOCATION table located on the DOB of the generator account. This table shows the dynamic reallocation of the generation credits based on the cumulative usage of each electric meter. We will review the NEMA Generation Allocation table and clarify how each calculation is done for billing periods 1, 2, and 3, and then review the 12th billing period (True-up).

USAGE AND GENERATION SUMMARY									
NEMA GENERATION ALLOCATION									
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
1234567111	402	402	402	00.00%	-576	-576	-576	0	-576
9876543222	0	0	402	0.00%	-576	-576	0	0	0

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

To simplify this table, we will break it into the “Usage Section” and the “Generation Section” of the NEMA Generation Allocation table.

Month 1

USAGE AND GENERATION SUMMARY									
NEMA GENERATION ALLOCATION									
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
1234567111	402	402	402	00.00%	-576	-576	-576	0	-576
9876543222	0	0	402	0.00%	-576	-576	0	0	0

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

Usage Section of the NEMA GENERATION ALLOCATION table

NEMA GENERATION ALLOCATION				
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE
1234567111	402	402	402	00.00%
9876543222	0	0	402	0.00%

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

For this billing period, since the benefitting account has no usage and because this is the first month under NEMA, the allocation is very easy. It is only equal to the exported power (Channel C) of the generator account.

A. BILLING PERIOD USAGE

- Generator Account: It is equal to the Channel A value located in the BILLING ENERGY table, which is 402.

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	12/01/15	402
3333333333C	4444444444	1111111111	E 1RB	Winter	12/01/15	-576
TOTAL						-174

- Benefitting Account: Since there is no usage on the benefitting account for this billing period, no credits will be allocated to it. This zero value is also represented by the absence of values in the CURRENT MONTH METER INFORMATION table (boxed in red below)

CURRENT MONTH METER INFORMATION								
CHANNEL ID	CONFIG ID	METER BADGE	PRIOR READ DATE	CURRENT READ DATE	RATE DATE	PRIOR READ TIME	CURRENT READ TIME	
3333333333C	4444444444	1111111111	12/12/15	01/10/16	12/01/15	24:00	24:00	
7777777777A	5555555555	2222222222	12/12/15	01/10/16	12/01/15	24:00	24:00	

B. CUMULATIVE USAGE

- Generator Account: Since this is the first month on NEMA for this 12 month billing cycle and since there was no usage recorded on the benefitting account, the CUMULATIVE USAGE value is equal to the BILLING PERIOD USAGE value, which is 402.
- Benefitting Account: Since there was no usage in this billing period for this electric meter account, the value is zero.

C. TOTAL CUMULATIVE USAGE: In the first month, this value is the same as the CUMULATIVE USAGE value (402). This value will always be the same in all of the electric meter accounts in the arrangement since it is the sum of all of the usage in the NEMA arrangement.

D. ALLOCATION PERCENTAGE: Since there is no usage for the benefitting account, all of the exported power is allocated to the generator account. As mentioned previously, the value is 0 because there is CUMULATIVE USAGE on only one electric meter account in the arrangement.

Generation Section of the NEMA GENERATION ALLOCATION table

CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
-576	-576	-576	0	-576
-576	-576	0	0	0

E. CUMULATIVE GENERATION: This value is always equal to viewing the Channel C values for all of the electric meter accounts in the arrangement, and it is only allocated to electric meter accounts that have usage. Since there is usage on only one of the electric meter accounts, the CUMULATIVE GENERATION value for this period is -576.

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	12/01/15	402
3333333333C	4444444444	1111111111	E 1RB	Winter	12/01/15	-576
TOTAL						-174

- F. PREVIOUS ALLOCATION: Since this is the first billing cycle in the NEMA arrangement, there is no previous allocation, which makes the values in these boxes zero.
- G. TOTAL CUMULATIVE GENERATION, CUMULATIVE ALLOCATION, and ALLOCATION GENERATION: Since there is only usage on the generator account and because it is the first billing cycle in the NEMA arrangement, all of the values for the generator account are equal to -576, and all of the values for the benefitting account are equal to zero. However, the TOTAL CUMULATIVE GENERATION value for the benefitting account is also equal to -576 since the TOTAL CUMULATIVE GENERATION captures all of the Channel C values beginning from the first billing cycle.

Month 2

NEMA GENERATION ALLOCATION										
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION	
1234567111	401	803	943	85.15%	-737	-1,313	-1,118	-576	-542	
9876543222	140	140	943	14.85%	-737	-1,313	-195	0	-195	

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

Usage Section of the NEMA GENERATION ALLOCATION table

NEMA GENERATION ALLOCATION				
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE
1234567111	401	803	943	85.15%
9876543222	140	140	943	14.85%

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multi

A. BILLING PERIOD USAGE

- o Generator Account: The sum of the Channel A values in the BILLING ENERGY table of the generator account is equal to 401 (95 + 292 + 14).

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	01/20/16	95
3333333333A	4444444444	1111111111	E 1RB	Winter	01/31/16	292
3333333333A	4444444444	1111111111	E 1RB	Winter	02/08/16	14
3333333333C	4444444444	1111111111	E 1RB	Winter	01/20/16	-96
3333333333C	4444444444	1111111111	E 1RB	Winter	01/31/16	-419
3333333333C	4444444444	1111111111	E 1RB	Winter	02/08/16	-26
TOTAL						-140

- Benefitting Account: This month, the pump had usage. This is now displayed in CURRENT MONTH METER INFORMATION table. The sum of the Channel A values is equal to 140 (2 + 138 + 0).

CURRENT MONTH METER INFORMATION								
CHANNEL ID	CONFIG ID	METER BADGE	PRIOR READ DATE	CURRENT READ DATE	RATE DATE	PRIOR READ TIME	CURRENT READ TIME	USAGE (kWH)
3333333333C	4444444444	1111111111	01/10/16	01/20/16	01/10/16	24:00	24:00	-35
3333333333C	4444444444	1111111111	01/20/16	01/31/16	01/20/16	24:00	24:00	-151
3333333333C	4444444444	1111111111	01/31/16	02/08/16	02/08/16	24:00	24:00	-10
7777777777A	5555555555	2222222222	01/10/16	01/20/16	01/10/16	24:00	24:00	2
7777777777A	5555555555	2222222222	01/20/16	01/31/16	01/20/16	24:00	24:00	138
7777777777A	5555555555	2222222222	01/31/16	02/08/16	02/08/16	24:00	24:00	0
TOTAL								-56

B. CUMULATIVE USAGE

- Generator Account: By adding this month’s usage from the BILLING PERIOD USAGE value (401) with the previous month’s BILLING PERIOD USAGE value (402), the electric meter account has a cumulative usage of 803.
- Benefitting Electric Account: Since this is the first month of usage for this electric meter account on NEMA, the CUMULATIVE USAGE value is equal to the BILLING PERIOD USAGE value (140).

C. TOTAL CUMULATIVE USAGE: The sum of the CUMULATIVE USAGE values of all of the electric meter accounts in the arrangement for this billing period is 943 (803 + 140).

D. ALLOCATION PERCENTAGE: Now that there is usage on more than one of the electric meter accounts in the arrangement, the ALLOCATION PERCENTAGE has calculated values. As a reminder, this percentage is equal to the value in the CUMULATIVE USAGE table divided by the value in the TOTAL CUMULATIVE USAGE table. Note that the sum of all the ALLOCATION PERCENTAGE values will always equal to 100%.

- Generator Account: This value is equal to 803 divided by 943, which is 85.15%.
- Benefitting Account: This value is equal to 140 divided by 943, which is 14.85%.

Generation Section of the NEMA GENERATION ALLOCATION table

CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
-737	-1,313	-1,118	-576	-542
-737	-1,313	-195	0	-195

E. CUMULATIVE GENERATION: As mentioned previously, this value is obtained by adding the Channel C values of all the electric meter accounts in the arrangement. For this month, the sum of all the Channel C values is equal to (-541) + (-196) = -737. As a reminder, this value will always be the same for all of the electric meter accounts in the arrangement.

- Generator Account: Viewing the Channel C values in the BILLING ENERGY table, the value is -541 [(-96) + (-419) + (-26)].

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	01/20/16	95
3333333333A	4444444444	1111111111	E 1RB	Winter	01/31/16	292
3333333333A	4444444444	1111111111	E 1RB	Winter	02/08/16	14
3333333333C	4444444444	1111111111	E 1RB	Winter	01/20/16	-96
3333333333C	4444444444	1111111111	E 1RB	Winter	01/31/16	-419
3333333333C	4444444444	1111111111	E 1RB	Winter	02/08/16	-26
TOTAL						-140

- Benefitting Account: Viewing the Channel C values in the CURRENT MONTH METER INFORMATION table, the value is -196 [(-35) + (-151) + (-10)].

CURRENT MONTH METER INFORMATION								
CHANNEL ID	CONFIG ID	METER BADGE	PRIOR READ DATE	CURRENT READ DATE	RATE DATE	PRIOR READ TIME	CURRENT READ TIME	USAGE (kWH)
3333333333C	4444444444	1111111111	01/10/16	01/20/16	01/10/16	24:00	24:00	-35
3333333333C	4444444444	1111111111	01/20/16	01/31/16	01/20/16	24:00	24:00	-151
3333333333C	4444444444	1111111111	01/31/16	02/08/16	02/08/16	24:00	24:00	-10
7777777777A	5555555555	2222222222	01/10/16	01/20/16	01/10/16	24:00	24:00	2
7777777777A	5555555555	2222222222	01/20/16	01/31/16	01/20/16	24:00	24:00	138
7777777777A	5555555555	2222222222	01/31/16	02/08/16	02/08/16	24:00	24:00	0
TOTAL								-56

- F. TOTAL CUMULATIVE GENERATION: This value is equal to the sum of the CUMULATIVE GENERATION value and all of the values in the PREVIOUS ALLOCATION fields. Since there has only been allocation to the generating electric meter account so far, the TOTAL CUMULATIVE GENERATION value is equal to -1,313 [(-737) + (-576) + (0)].
- G. PREVIOUS ALLOCATION:
- Generator Account: The previous month allocated -576 to this electric meter account.
 - Benefitting Account: Since there was no usage on this electric meter account in the previous month, no credits were allocated to it, which makes the value for this month equal to zero.
- H. ALLOCATION GENERATION:
- To obtain this value for each electric meter account in the arrangement, the following formula is used:

$$\text{ALLOCATION GENERATION} = [(\text{ALLOCATION PERCENTAGE}) \times (\text{TOTAL CUMULATIVE GENERATION})] - \text{PREVIOUS ALLOCATION}$$

NEMA GENERATION ALLOCATION									
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
1234567111	401	803	943	85.15%	-737	-1,313	-1,118	-576	-542
9876543222	140	140	943	14.85%	-737	-1,313	-195	0	-195

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

- Generating Account:
 - ALLOCATION PERCENTAGE: 85.15% = .8515
 - TOTAL CUMULATIVE GENERATION: 1,313
 - PREVIOUS ALLOCATION: -576
 - $(.8515) \times (-1313) - (-576) = \underline{-542}$
 - Benefitting Account:
 - ALLOCATION PERCENT: 14.85% = .1485
 - TOTAL CUMULATIVE GENERATION: 1,313
 - Previous Allocation: 0
 - $(.1485) \times (-1313) - (0) = -194.98 = \underline{-195}$
- I. CUMULATIVE ALLOCATION: This value is calculated by adding the PREVIOUS ALLOCATION value with the ALLOCATION GENERATION value.
- Generator Account: The PREVIOUS ALLOCATION value (-576) plus the ALLOCATION GENERATION value (-542) equals to -1,118.
 - Benefitting Account: The PREVIOUS ALLOCATION value (-195) plus the ALLOCATION GENERATION value (0) equals to -195.

Month 3

NEMA GENERATION ALLOCATION									
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
1234567111	564	1,367	2,860	47.80%	-1,152	-2,465	-1,178	-1,118	-60
9876543222	1,353	1,493	2,860	52.20%	-1,152	-2,465	-1,287	-195	-1,092

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

Usage Section of the NEMA GENERATION ALLOCATION table

NEMA GENERATION ALLOCATION				
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE
1234567111	564	1,367	2,860	47.80%
9876543222	1,353	1,493	2,860	52.20%

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multi

A. BILLING PERIOD USAGE

- Generator Account: It is equal to the Channel A value located in the BILLING ENERGY table, which is 564.

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	02/08/16	564
3333333333C	4444444444	1111111111	E 1RB	Winter	02/08/16	-60
TOTAL						504

- Benefitting Account: It is equal to the Channel A value located in the CURRENT MONTH METER INFORMATION table, which is 1,353.

CURRENT MONTH METER INFORMATION								
CHANNEL ID	CONFIG ID	METER BADGE	PRIOR READ DATE	CURRENT READ DATE	RATE DATE	PRIOR READ TIME	CURRENT READ TIME	USAGE (kWH)
3333333333C	4444444444	1111111111	02/08/16	03/08/16	02/08/16	24:00	24:00	-1,092
7777777777A	5555555555	2222222222	02/08/16	03/08/16	02/08/16	24:00	24:00	1,353
TOTAL								261

B. CUMULATIVE USAGE

- Generator Account: By adding this month's usage from the BILLING PERIOD USAGE value (564) with the previous month's CUMULATIVE USAGE value (803), the electric meter account has a CUMULATIVE USAGE of 1,367.
- Benefitting Account: By adding this month's usage from the BILLING PERIOD USAGE value (1,353) with the previous month's CUMULATIVE USAGE value (140), the electric meter account has a CUMULATIVE USAGE of 1,493.

C. TOTAL CUMULATIVE USAGE: The sum of the CUMULATIVE USAGE values of all of the electric meter accounts in the arrangement is 2,860 (1,367 + 1,493).

D. ALLOCATION PERCENTAGE: Since there is now more CUMULATIVE USAGE on the pump than at the house, the allocation percentage has shifted. Now that there is more CUMULATIVE USAGE at the pump, more credits will be allocated to it.

- Generator Account: This value is equal to 1,367 divided by 2,860, which equals 47.80%.
- Benefitting Account: This value is equal to 1,493 divided by 2,860, which equals 52.20%.

Generation Section of the NEMA GENERATION ALLOCATION table

CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION
-1,152	-2,465	-1,178	-1,118	-60
-1,152	-2,465	-1,287	-195	-1,092

- E. CUMULATIVE GENERATION: For this billing period, the sum of all the Channel C values is equal to -1,152 [(-60) + (-1,092)].
 - o Generator Account: Viewing the Channel C value in the BILLING ENERGY table, the value is -60.

BILLING ENERGY						
CHANNEL ID	CONFIG ID	METER BADGE	RATE SCHEDULE	SEASON	RATE DATE	USAGE (kWH)
3333333333A	4444444444	1111111111	E 1RB	Winter	02/08/16	564
3333333333C	4444444444	1111111111	E 1RB	Winter	02/08/16	-60
TOTAL						504

- o Benefitting Account: Viewing the Channel C value in the CURRENT MONTH METER INFORMATION table, the value is -1,092.

CURRENT MONTH METER INFORMATION								
CHANNEL ID	CONFIG ID	METER BADGE	PRIOR READ DATE	CURRENT READ DATE	RATE DATE	PRIOR READ TIME	CURRENT READ TIME	USAGE (kWH)
3333333333C	4444444444	1111111111	02/08/16	03/08/16	02/08/16	24:00	24:00	-1,092
7777777777A	5555555555	2222222222	02/08/16	03/08/16	02/08/16	24:00	24:00	1,353
TOTAL								261

- F. TOTAL CUMULATIVE GENERATION: This value is equal to the sum of the CUMULATIVE GENERATION and all of the values in the PREVIOUS ALLOCATION fields. For this period, the TOTAL CUMULATIVE GENERATION value is equal to (-1,152) + (-1,118) + (-195) = -1,313.

G. PREVIOUS ALLOCATION:

- o Generator Account: The previous billing period allocated -1,118 to this electric meter account.
- o Benefitting Account: The previous billing period allocated -195 to this electric meter account.

H. ALLOCATION GENERATION:

ALLOCATION GENERATION =
 [(ALLOCATION PERCENTAGE) X (TOTAL CUMULATIVE GENERATION)] – PREVIOUS ALLOCATION

NEMA GENERATION ALLOCATION										
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION	
1234567111	564	1,367	2,860	47.80%	-1,152	-2,465	-1,178	-1,118	-60	
9876543222	1,353	1,493	2,860	52.20%	-1,152	-2,465	-1,287	-195	-1,092	

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

- o Generator Account:
 - ALLOCATION PERCENTAGE: 47.80% = .4780
 - TOTAL CUMULATIVE GENERATION: -2,465
 - PREVIOUS ALLOCATION: -1,118

$$- (.4780) \times (-2,465) - (-1,118) = -60.27 = \underline{-60}$$

o Benefitting Account:

- ALLOCATION PERCENTAGE: 52.20% = .5220
- TOTAL CUMULATIVE GENERATION: -2465
- PREVIOUS ALLOCATION: -195
- $(.5220) \times (-2,465) - (-195) = -194.98 = -1,091.73 = \underline{-1,092}$

I. CUMULATIVE ALLOCATION:

The CUMULATIVE ALLOCATION table is calculated by adding the PREVIOUS ALLOCATION value with the ALLOCATION GENERATION value.

- o Generator Account: The PREVIOUS ALLOCATION (-1,118) plus the ALLOCATION GENERATION value (-60) equals -1,178.
- o Benefitting Account: The PREVIOUS ALLOCATION value (-195) plus the ALLOCATION GENERATION value (-1,092) equals -1,287.

Month 12 (True-Up)

DOB of Generator Account

 Pacific Gas and Electric Company	PACIFIC GAS AND ELECTRIC COMPANY ELECTRIC DETAIL OF BILL Service Dates: November 12, 2016 to December 28, 2016	  
SOLAR JOHN 123 SOLAR ST SOLAR, CA. 11111	<div style="border: 1px solid black; padding: 5px; text-align: center;"> NEMA GENERATOR ACCOUNT Annual True-Up </div> <div style="text-align: center;"> 1  </div>	Rate Schedule: E 1RB/NEMA Account ID: 1234567890 Service ID: 1234567111
PAGE 1		
<p>The Detail of Bill (DOB) reflects this account's annual True-Up reconciliation. Any charges due are reflected on your monthly Energy Statement (provided separately). Any payments you have made towards your energy charges are reflected on your monthly Energy Statement.</p>		
<p>2 Your energy charges are reconciled at the end of your annual True-Up period. Since this is your annual True-Up period, any unpaid energy charges, taxes or fees are due at this time.</p> <p>At True-Up, your True-Up History Summary charges and usage are reset to zero starting with your next billing cycle.</p> <p>If you have questions about your bill, please call PG&E at (877) 743-4112.</p>		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> BILLING SUMMARY </div>		

Once you have arrived to the True-up, there are a few things to keep in mind:

1. There is a notice which says "Annual True-Up" beneath the service dates. This appears on both the generator account and all of the benefiting accounts.

2. The second paragraph of page 1 clarifies that all unpaid energy charges, taxes and/or fees are due at this time. This applies primarily to residential and small commercial customers as their energy charges are reconciled annually.

NEMA Allocation Table and Allocation Generation Table Review

NEMA GENERATION ALLOCATION										
ASSOCIATE SA ID	BILLING PERIOD USAGE	CUMULATIVE USAGE	TOTAL CUMULATIVE USAGE	ALLOCATION PERCENTAGE	CUMULATIVE GENERATION	TOTAL CUMULATIVE GENERATION	CUMULATIVE ALLOCATION	PREVIOUS ALLOCATION	ALLOCATION GENERATION	
1234567111	521	7,277	14,262	51.02%	-358	-10,354	-5,283	-4,915	-368	
9876543222	0	6,985	14,262	48.98%	-358	-10,354	-5,071	-5,081	10	

Allocation Generation Calculation: Cumulative Usage / Total Cumulative Usage multiplied by Total Cumulative Generation minus (-) Previous Allocation

Month	1234567111 (House)	987654333 (Pump)
1	-576	0
2	-542	-195
3	-60	-1,092
4	-307	-766
5	-325	-769
6	-432	-636
7	-479	-431
8	-554	-463
9	-674	-470
10	-530	-202
11	-436	-57
12	-368	10

Here is the final NEMA allocation calculation with a table that shows the allocation of the exported power to each electric meter account in the arrangement. A few highlights:

- Although there was fluctuation in usage, the CUMULATIVE USAGE of the two electric meter accounts is almost the same (51.02% vs. 48.98%)
- Since the CUMULATIVE USAGE was roughly the same, the CUMULATIVE ALLOCATION is also almost the same (-5,283 vs. -5,071)

This is a good example of a balanced NEMA arrangement. However, this experience will differ depending on the usage of all the electric meter accounts in the arrangement.

Important Reminders

The NEMA program is designed to dynamically reallocate the exported generation credits to all the electric meter accounts in the NEMA arrangement. When deciding whether the NEMA program will meet your needs, or once you begin participating in the NEMA program, keep the following things in mind:

1. Timing: Your True-up will be timed to occur approximately 12 months after approval to turn on your generating system by PG&E. Prior to participating in NEMA, it is a good idea to review all of your previous annual usage so that you can apply to PG&E and receive approval to turn on your generating system at the most beneficial period of your usage.
 - In the event that your usage shifts, PG&E allows the annual True-up date to be moved one time over the lifetime of the account.

2. Early True-ups: Since any of the following actions performed on a NEMA arrangement will result in an early True-up, it is important to time them to fit your specific scenario. Prior to making any changes to the NEMA arrangement, you may wish to consult with your Installer. The following actions will result in a True-up:
 - Aggregation “Rearrangements”
 - i. Adding another SA ID to the NEMA arrangement as a benefitting account
 - ii. Removing an existing benefitting account from the NEMA arrangement
 - This includes discontinuing the service
 - Infrastructure changes to any the electric meters in the NEMA arrangement
 - i. Upgrading the panels
 - ii. Upgrading a transformer
 - Changing the account type of any of the electric meter accounts in the arrangement (e.g. changing from an agricultural service to a residential service)
 - Exception: apart from the scenarios described above, if PG&E opts to change out a customer meter apart from any customer-initiated action, then it should not initiate a True-up.

3. Customer-initiated Actions that do not trigger early True-ups
 - Merging and unmerging customer accounts will not result in an early True-up
 - i. Residential customers generally have one SA ID under their customer account. However, if a customer had two SA IDs that were of the same account type (e.g. residential) and on separate customer accounts, they may merge the two SA IDs under one customer account.
 - ii. Merging is only possible within the same rate account type. In other words, if an arrangement is composed of two residential SA IDs, one agricultural SA ID, and one commercial SA ID, only the two residential SA IDs can be combined under one customer account.

Appendix

A. NEMA Billing (Energy Statements)

After all SA ID's have been updated and included in the NEMA arrangement you can expect the following billing experience:

- Monthly:
 - Detail of Bills (DOB) for each SA ID in NEMA arrangement. Additionally, you will continue to receive your monthly Energy Statements (Blue Bills).
 - Due to the complexity of NEMA, new customers participating in NEMA may experience a delay in receiving their first NEMA bill. Please note that all of the meter data from the generating system is being captured and will eventually be applied to the SA IDs in the NEMA arrangement. If the delay persists more than 90 days, contact PG&E at 877-743-4112.
 - The Energy Statements for all the SA IDs in the NEMA arrangement will begin showing only the current energy charges once they are updated to reflect NEMA. To review how the charges are calculated, reference the corresponding DOB for each electric meter during the corresponding bill period, individually.
 - There may be instances where the charges on the DOB do not match exactly with the Energy Statement. The DOB only reflects the current energy charges while the Energy Statement reflects the current energy charges, any adjustments done to the account such as the "CA Climate Credit," and any current gas service charges if they are under the same customer account. Also, the first page of your energy statement may not reflect the same charges as your DOB if you have other SA IDs connected to the account. When multiple SA IDs are linked to one account, the energy statement reflects a balance equal to the sum of all of the linked SA IDs.
 - Example: The additional adjustments or charges are displayed as line items on the Energy Statement, as shown below:

- Energy Statement
 - Total Due: \$2.63 (Current Electric Charge is \$6.06)

Your Account Summary	
Credit Balance on Previous Statement	-\$3.43
Payment(s) Received Since Last Statement	0.00
Outstanding Credit Balance	-\$3.43
Current Electric Charges	\$6.06
Total Amount Due by 04/22/2016	\$2.63

- DOB
 - Total Due: \$6.06

BILLING SUMMARY	
NEM Billing Fees	\$10.00
Minimum Charges	-3.94
Total Current Month's Electric Charges Due	\$6.06

- When the SA IDs are updated to reflect NEMA, they may create a last “non-NEMA” bill separately. If the account was already participating in NEM, once the account is converted to NEMA, the NEM account will experience an early True-up in order to start all of the SA IDs in the arrangement on the same 12 billing period cycle.
 - Depending on when the system is granted approval to operate, you may receive two bills within one month which can appear as though the account is being double-billed. However, it is actually just the ending of your “non-solar” SA ID and the start of the SA ID that is participating in NEMA.
 - This experience differs from account to account and it is dependent on when approval to operate is granted by PG&E in reference to your normal billing cycle.
- Here are some examples of what you may experience when your SA IDs are converted:
 - Final non-NEMA bill



ENERGY STATEMENT

www.pge.com/MyEnergy

Account No: 9876543211-1
Statement Date: 12/30/2015
Due Date: 01/19/2016

Details of Electric Charges

11/30/2015 - 12/11/2015 (12 billing days)

← 1

Service For: 123 SOLAR AG PUMP
Service Agreement ID: 9876543210 CLOSED ← 2
Rate Schedule: AG4A Time-of-Use Agricultural Power

11/30/2015 – 12/11/2015			
Customer Charge	12 days	@ \$0.56838	\$6.82
Connected Load Charge ¹	5.0 hp	@ \$1.06000	2.12
Energy Charges			
Part Peak	12.507000 kWh	@ \$0.17700	2.21
Off Peak	29.315000 kWh	@ \$0.14280	4.19
California Climate Credit			-0.13
Energy Commission Tax			0.01
Total Electric Charges			\$15.22

Service Information
Meter # 2222222222
Total Usage 41.822000 kWh
Serial F
Rotating Outage Block 50

Additional Messages
California Climate Credit – Part of California's efforts to fight climate change, the credit results from fees charged by the state to reduce carbon pollution and increase use of cleaner forms of energy. These fees are returned to customers as savings on their electric bill. Households will receive the credit twice a year, and small businesses will receive it monthly. Learn how you can use these savings to further reduce your energy costs and help fight climate change at EnergyUpgradeCA.org/credit.

- Notice that the “Billing days” are less than a normal billing cycle
- Some Energy Statements may see “CLOSED” next to the SA ID to notify you that the SA ID is being updated to reflect NEMA.

- First NEMA generator account bill

ENERGY STATEMENT		Account No:	1234567890-1
www.pge.com/MyEnergy		Statement Date:	01/12/2016
		Due Date:	01/31/2016
Details of Electric Charges		Service Information	
12/12/2015 - 01/10/2016 (30 billing days) ← 1		Meter #	1111111111
Service For: 123 SOLAR ST		Total Usage	59.000000 kWh
Service Agreement ID: 1234567111 ← 2		Serial	F
12/12/2015 - 01/10/2016 ← 3		Rotating Outage Block	50
Rate Schedule: NEMAG NEMA Generator Account ← 3		Additional Messages	
Net Charges \$41.56		Time-Of-Use Customers: In 2016, Daylight Saving Time begins on 3/13/16. To adjust for this, from 3/13/16 through 4/3/16 your time-of-use periods will begin and end one hour later.	
Energy Commission Tax 0.02			
Total Electric Charges \$41.58 ← 4			

1. Notice that the "Billing days" are now back to a normal billing cycle
2. The SA ID has changed
3. The Rate Schedule of the generating meter is now "NEMAG NEMA Generator Account" (Note: "NEMAG" stands for "NEMA Generator")
4. The listed charges have been reduced

- o First NEMA benefitting account bill

ENERGY STATEMENT		Account No:	9876543211-1
www.pge.com/MyEnergy		Statement Date:	01/12/2016
		Due Date:	01/31/2016
Details of Electric Charges		Service Information	
12/12/2015 - 01/10/2016 (30 billing days) ← 1		Meter #	2222222222
Service For: 123 SOLAR AG PUMP		Total Usage	513.000000 kWh
Service Agreement ID: 9876543222 ← 2		Baseline Territory	S
12/12/2015 - 01/10/2016 ← 3		Heat Source	Electric
Rate Schedule: NEMAA H NEMA Aggregated Account ← 3		Serial	F
Net Charges \$9.86		Rotating Outage Block	50
Total Electric Charges \$9.86 ← 4			

1. Notice that the billing days is now back to a normal billing cycle
2. The SA ID has changed
3. The Rate Schedule of the benefitting meter is now "NEMAA H NEMA Aggregated Account" (Note: "NEMAA" stands for "NEMA Aggregate")
4. The listed charges have been reduced

B. NEMA Allocation Table Definitions

Listed below are the definitions related to the NEMA Allocation Table on the generator account. Note: with the exception of the ASSOCIATED SA ID, all of these values will reset themselves after the True-up.

- ASSOCIATED SA ID: These are the SA IDs that are connected to the electric meters in the NEMA arrangement.

- **BILLING PERIOD USAGE:** This is the amount of kilowatt-hours (kWh) used in this billing period. This information is located in the BILLING ENERGY table for the generator account and in the CURRENT MONTH METER INFORMATION table for the benefitting accounts. It is the value in the Channel ID column that has the letter "A" and is referred to as the "A Channel" or "Channel A".
- **CUMULATIVE USAGE:** This is the total usage or power that the respective electric meter tied to the corresponding electric SA ID has pulled from PG&E for this billing period.
- **TOTAL CUMULATIVE USAGE:** This is the sum of the usage of all of the electric meter accounts in the NEMA arrangement.
- **ALLOCATION PERCENTAGE:** This percentage is equal to the value in the CUMULATIVE USAGE table divided by the value in the TOTAL CUMULATIVE USAGE table. In the first month, the value will equal zero if there is usage on only one electric meter account.
- **CUMULATIVE GENERATION:** This is the total exported power that the generating system produced in this billing period applied to each electric meter account in the arrangement. It is the value in the Channel ID column that has the letter "C" (referred to as the "C Channel" or "Channel C") and is calculated by adding all of values of the C channel for each benefitting account (including the C Channel from the generator account). This information is located in the BILLING ENERGY table for the generator account and in the CURRENT MONTH METER INFORMATION table for the benefitting accounts.
- **TOTAL CUMULATIVE GENERATION:** This value is equal to the sum of the CUMULATIVE GENERATION value and all of the values in the PREVIOUS ALLOCATION fields. It is the total generation to date for the current 12 billing cycle period.
- **PREVIOUS ALLOCATION:** This value is equal to the generation that was allocated to the corresponding electric meter account in the previous billing period. In the first month on NEMA, these values will be equal to zero since there was no previous allocation.
- **CUMULATIVE ALLOCATION:** This value is calculated by adding the PREVIOUS ALLOCATION value with the ALLOCATION GENERATION value for the respective electric meter account.
- **ALLOCATION GENERATION:** This is the amount of generation credits that are allocated to the associated electric meter account for this billing period.