



Solar Interconnections

Understanding Your Bill

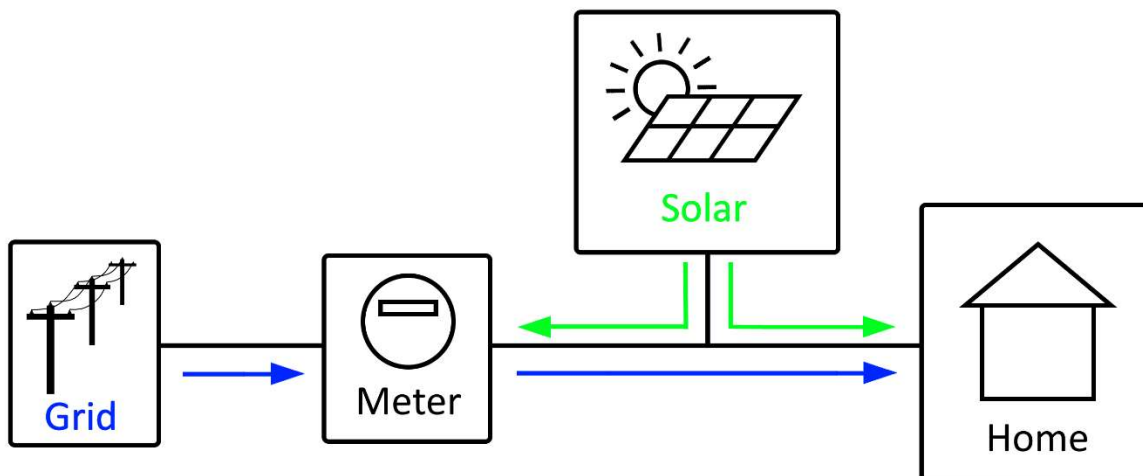
for aggregated accounts

Revised February 2023

How Energy Flows with a Solar Interconnection

With a typical electric service, energy generally only flows in one direction: from the grid to the member. With a solar interconnection, however, energy is able to flow in both directions: from the grid to the member and vice versa.

It is important to understand how energy flows with a solar interconnection. Please see the below graphic that shows the flow of energy.



Please note that not all of the energy generated by your solar array will be sent back to the grid. Your home will absorb some (or all) of the generated energy, and any excess will be sent to the grid.

The energy produced by your solar array that is consumed by your home is not shown on the bill. This value is unknown to DEC as that energy does not pass through the meter.

It should also be noted that there may be times where your solar is exporting excess energy to the grid (perhaps on a temperate, sunny day), and there may be times where the grid is powering your home (at night, for example). Over the duration of your billing period, DEC's meter records how much energy you **take** from the grid as well as how much energy you **send** to the grid. The difference between these two values is what is shown on the bill.

Any excess energy exported to the grid throughout the duration of a billing period may be credited towards future bills. This excess energy is called "banked kilowatt-hours" and is shown on your bill as well.


Banked kilowatt-hours will reset once per year after the March billing period. At this time, any banked kilowatt-hours not consumed by the member are forfeited. However, the majority of members with solar interconnections have empty (or near-empty) banks by this time, so this will not make a difference to most members. This is in accordance with Title 26, Chapter 10 of the Delaware Code.

Understanding your Bill

See below for an overview of a DEC electric bill. Your electric bill with a solar interconnection may look different than a typical bill. Please see the following sections for explanations of a few different billing scenarios due to having a solar interconnection.

Please note that the banked kilowatt-hours shown on the bill are the value of your current bank. The kWh credits towards your other accounts due to the solar have already been factored out.

It should also be noted that the \$16 Customer Charge is billed no matter how much your solar produces. Unless there is a cash credit on your account, your bill will be \$16 minimum.



P.O. Box 600
Greenwood DE 19950-0600

DELAWARE ELECTRIC CO-OP
"We Keep the Lights On!"

MESSAGE BOX


Receive an initial \$25 billing credit and an additional \$5 monthly credit during the summer when you sign up for our Beat the Peak with Thermostats program!

The program will save members money and help keep electric rates affordable.

Learn more at www.beatthepeak.coop.

DATE BILLED	METER NUMBER	ACCOUNT NUMBER
1 General Information		
Previous Balance		16.00
Payments		-16.00
Balance Forward		0.00
Total Co-op Charges		16.00
Total Supplier Charges		0.00
Total Amount Due		16.00

MONTH	AVG DAILY KWH	DAYS
MAY 22	0	29
APR 22	0	32
MAY 21	41	29



Monthly Usage

3 Billing Period Information

Banked KWH: 311

METER #	Date/Prev Rdg	Date/Pres Rdg	Mult	Act/Est	Usage	Dem Rdg	Dem Billed	P.F.	Rate	Rate Classification	Route
					-265	0.0	0.000	0.0	1NM	NET METER/RES	

DELAWARE ELECTRIC CO-OP DELIVERY CHARGES	SUPPLIER CHARGES DELAWARE ELECTRIC CO-OP
Balance Forward	TOTAL CURRENT SUPPLIER CHARGES
\$0.00	\$0.00
Customer Charge	TOTAL DUE SUPPLIER
\$16.00	\$0.00
TOTAL CURRENT CO-OP CHARGES	
\$16.00	
TOTAL DUE CO-OP	
\$16.00	

4 Payment Information

Return This Portion With Your Payment



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DELAWARE ELECTRIC CO-OP
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www.delaware.coop
TELEPHONE-TOLL-FREE
855-332-9090

Date:

Account Number:

PAID BY

17703

DELAWARE ELECTRIC COOPERATIVE
PO BOX 600
GREENWOOD DE 19950-0600

For interconnections that make use of account aggregation, multiple accounts can benefit from the production of a solar installation. In this case, kilowatt-hours produced by the solar array are credited to your various accounts on a priority-basis. This means that any energy produced by your solar array will first be used to credit the bill for Account #1. If Account #1 has its usage covered, then any remaining energy is credited towards Account #2. If Account #2 has its usage covered, then any remaining energy is credited towards Account #3 – so on and so forth.

When the interconnection is initially applied for, the order that you would like to prioritize the various accounts in is listed on the application. Please see below.

DEC
DELAWARE ELECTRIC CO-OP
"We Keep the Lights On"

P.O. Box 600
1419B Sussex Highway
Greenwood, Delaware 19950
855-DEC-9090
www.delawarecoop.com

Delaware Electric Cooperative, Inc.
Interconnection Application
(For use with systems less than 100 kW DC)

10. Aggregate Meter Information (if applicable)

The following accounts shall be combined for the purpose of determining the twenty-four (24) months average usage (kWh) as required in the aforementioned formula regarding inverter sizing. Any surplus energy produced by the Generating System will be credited back to the accounts listed below. Each account must be active and ranked according to the order in which credit shall be applied. The specific method of remuneration will be determined by Delaware State Law, the DEC tariff and member approval.

1. Name: _____ Rate: _____
Account No. _____ 24-month average usage (kWh): _____ (monthly)

2. Name: _____ Rate: _____
Account No. _____ 24-month average usage (kWh): _____ (monthly)

3. Name: _____ Rate: _____
Account No. _____ 24-month average usage (kWh): _____ (monthly)

4. Name: _____ Rate: _____
Account No. _____ 24-month average usage (kWh): _____ (monthly)

5. Name: _____ Rate: _____
Account No. _____ 24-month average usage (kWh): _____ (monthly)


Any additional meters associated with the aggregated system must be supplied on a separate sheet in the same format.

7 Revised January 2023

If a new account is being created solely for the solar installation, then it will automatically be given priority #1. The bill for the account with priority #1 will show the banked kilowatt-hours. The bills for the rest of your accounts will not show the bank.

Scenario 1: Your priority #1 account consumed more energy than your solar produced

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MESSAGE BOX

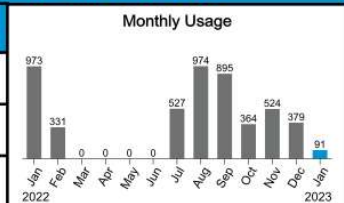
Winter often brings the highest energy bills of the year. By lowering your thermostat a few degrees, sealing air leaks around doors and windows, and unplugging unused electronics, you can save money and energy.

Visit delaware.coop for more energy saving tips.

DATE BILLED	METER NUMBER	ACCOUNT NUMBER

KWH USAGE HISTORY

MONTH	AVG DAILY KWH	DAYS
JAN 23	3	30
DEC 22	12	32
JAN 22	31	31



Banked KWH: 0

METER #	Date/Prev Rdg	Date/Pres Rdg	Mult	Act/Est	Usage	Dem Rdg	Dem Billed	P.F.	Rate	Rate Classification	Route
					91	0.0	0.000	0.0	1NM	NET METER/RES	

DELaware ELECTRIC CO-OP DELIVERY CHARGES

Balance Forward	\$0.00
Customer Charge	\$16.00
Distribution Charge	\$2.20
Renewable Fund	\$0.02
TOTAL CURRENT CO-OP CHARGES	\$18.22
TOTAL DUE CO-OP	\$18.22

SUPPLIER CHARGES DELaware ELECTRIC CO-OP


Electric Supply Charge	91 KWH @ 0.064390	\$5.86
PCA	91 KWH @ 0.046813	\$4.26
TOTAL CURRENT SUPPLIER CHARGES		\$10.12
TOTAL DUE SUPPLIER		\$10.12

In this example, your priority #1 account (which also includes the solar array) consumed more energy than the solar produced.

Looking at the above image – you will be billed for the usage of 91 kWh, plus the bills from the rest of your various accounts.

Scenario 2: Your priority #1 account consumed more energy than your solar produced, but you had excess generation in the past credited towards your current bill

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MESSAGE BOX

Delaware Electric Cooperative's Annual Meeting is an evening of food and fun for the whole family!

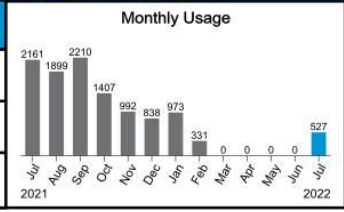
Our annual meeting will take place on Tuesday August 16 at the Delaware State Fairgrounds in Harrington.

Dinner begins at 3:00 p.m. and the business meeting begins at 7:00 p.m. Learn more about the event at www.delaware.coop.

DATE BILLED	METER NUMBER	ACCOUNT NUMBER

KWH USAGE HISTORY

MONTH	AVG DAILY KWH	DAYS
JUL 22	17	31
JUN 22	0	31
JUL 21	65	33



Banked KWH: 61

METER #	Date/Prev Rdg	Date/Pres Rdg	Mult	Act/Est	Usage	Dem Rdg	Dem Billed	P.F.	Rate	Rate Classification	Route
					588	0.0	0.000	0.0	1NM	NET METER/RES	


DELAWARE ELECTRIC CO-OP DELIVERY CHARGES	SUPPLIER CHARGES DELAWARE ELECTRIC CO-OP
Balance Forward	Electric Supply Service Charge
Customer Charge	PCA
Distribution Charge	TOTAL CURRENT SUPPLIER CHARGES
Renewable Fund	TOTAL DUE SUPPLIER
TOTAL CURRENT CO-OP CHARGES	
TOTAL DUE CO-OP	

In this example, your priority #1 account (which also includes the solar array) consumed more energy during the billing period than your solar array was able to produce. However, you had generated excess energy in the past. You will be billed for the net amount of energy that you used from the grid minus the amount of excess kilowatt-hours that were in your bank. If your bank is greater than the net amount of energy that you used from the grid for each account, then you will not be billed for usage.

Looking at the above image – you will be billed for the usage of 527 kWh. This value is calculated by taking the 588 kWh that were consumed minus the 61 kWh that were in your bank. Following this bill, your bank would be empty. You will also receive bills for the rest of your accounts.

Scenario 3: Your solar produced more energy than you consumed

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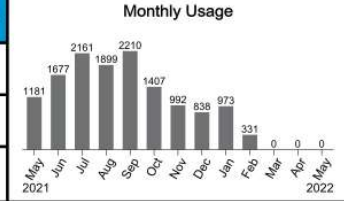
Learn more at www.beatthepeak.coop.

DATE BILLED	METER NUMBER	ACCOUNT NUMBER
[REDACTED]	[REDACTED]	[REDACTED]

KWH USAGE HISTORY

MONTH	AVG DAILY KWH	DAYS
MAY 22	0	29
APR 22	0	32
MAY 21	41	29

Monthly Usage



Banked KWH: 311

METER #	Date/Prev Rdg	Date/Pres Rdg	Mult	Act/Est	Usage	Dem Rdg	Dem Billed	P.F.	Rate	Rate Classification	Route
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	-265	0.0	0.000	0.0	1NM	NET METER/RES	[REDACTED]

DELaware ELECTRIC CO-OP DELIVERY CHARGES		SUPPLIER CHARGES DELaware ELECTRIC CO-OP	
Balance Forward	\$0.00	TOTAL CURRENT SUPPLIER CHARGES	\$0.00
Customer Charge	\$16.00		
TOTAL CURRENT CO-OP CHARGES	\$16.00	TOTAL DUE SUPPLIER	\$0.00
TOTAL DUE CO-OP	\$16.00		

In this example, your solar produced more energy during the billing period than your priority #1 account (which also includes the solar array) consumed. Your priority #1 account will only be billed for the Customer Charge (as well as Balance Forward, if any). Your priority #2 account will have any excess kWh generated from account #1 credited toward its bill. If the excess generation fully covers the usage for account #2, then any remaining excess generation is credited toward account #3 and so on.

Looking at the above image – you will not be billed for any usage for account #1. The -265 kWh shown on the bill is the amount of net energy that you sent to the grid in excess of what you consumed with account #1. This amount was added to your bank, which was able to fully cover the remainder of your accounts leaving 311 kWh left over to be put towards next month’s bill. Assuming no other miscellaneous charges, each account should only be billed for \$16 (the Customer Charge).