Solar Interconnections

Understanding Your Bill

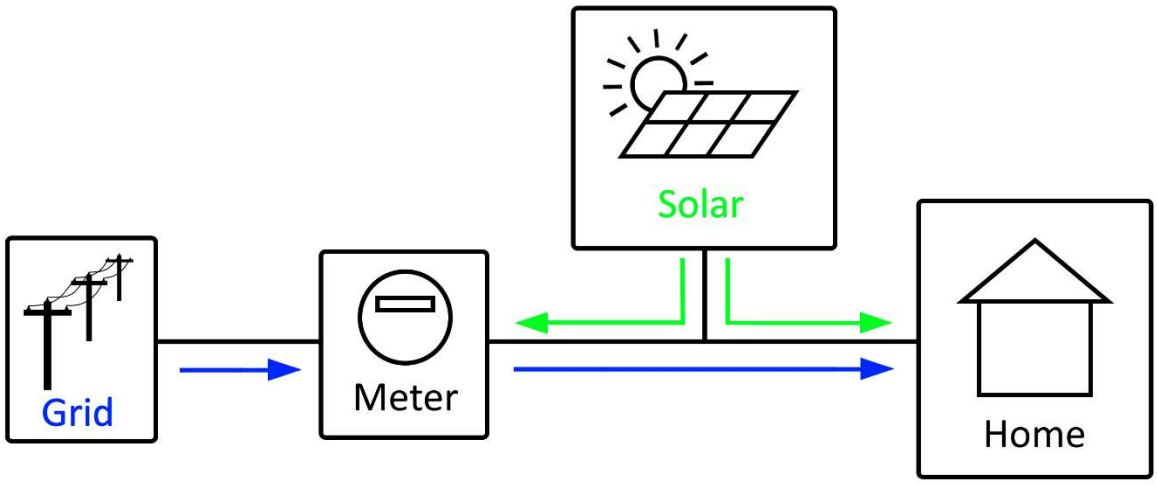
for non-aggregated accounts

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.

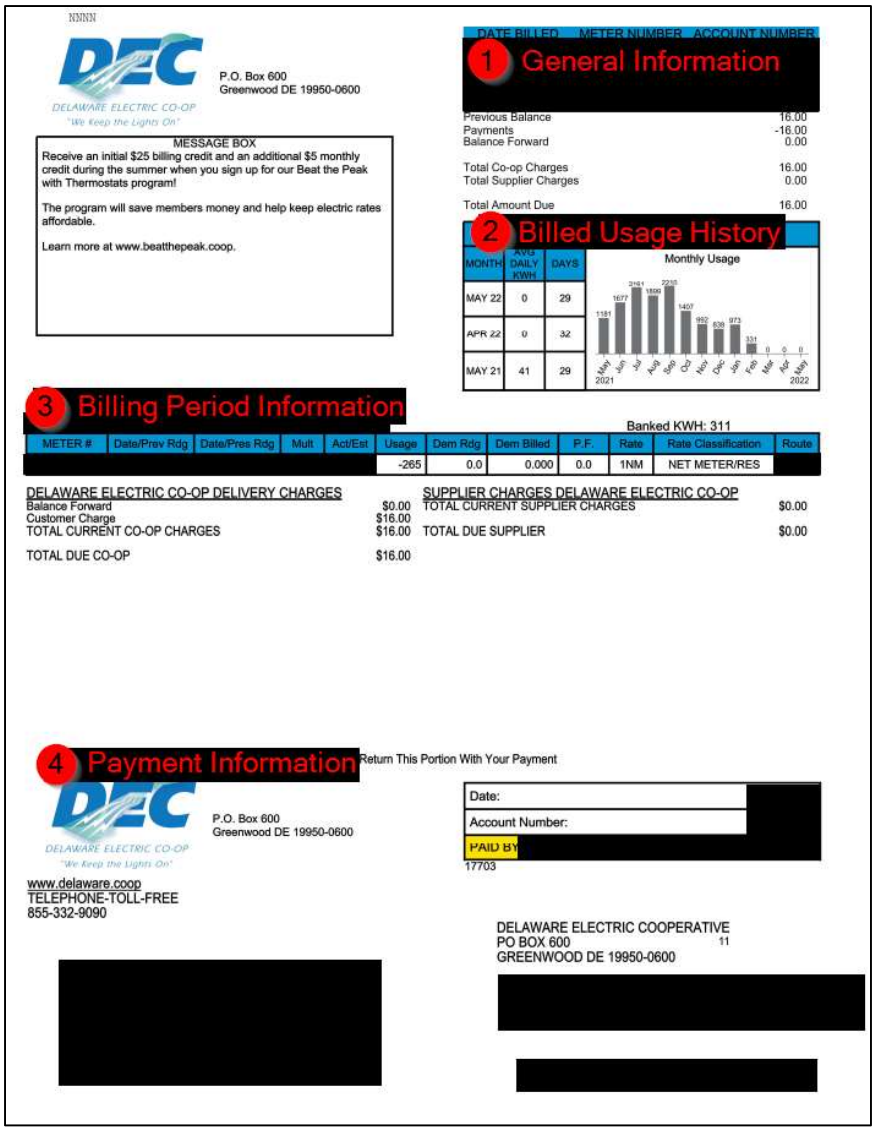
Banked kilowatt-hours will reset once per year after the March billing period. At this time, any banked kilowatt-hours not consumed by the member are forfeited. However, the majority of members with solar interconnections have empty (or near-empty) banks by this time, so this will not make a difference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

Understanding your Bill

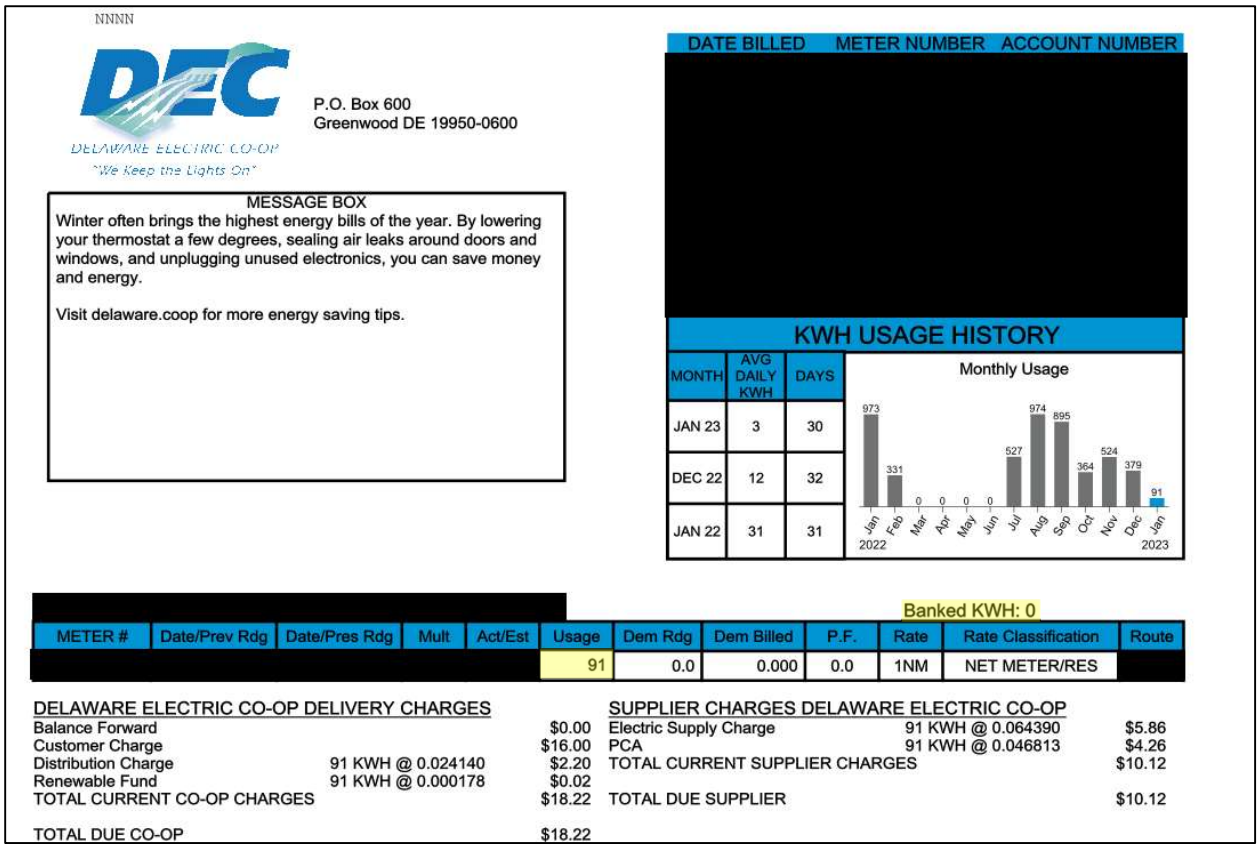
See below for an overview of a DEC electric bill. Your electric bill with a solar interconnection may look different than a typical bill. Please see the following sections for explanations of a few different billing scenarios due to having a solar interconnection.

Please note that the banked kilowatt-hours shown on the bill are the value of your bank from the previous month. Your current billing period bank can be calculated by taking the difference of the bank value shown on the bill and whatever number is shown in the 'Usage' column of the table. If your usage is negative, then that usage value is essentially added to the bank. If your usage is positive, then that usage value is essentially subtracted from the bank.

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.



Scenario 1: You consumed more energy than your solar produced



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

P.O. Box 600
Greenwood DE 19950-0600

DATE BILLED	METER NUMBER	ACCOUNT NUMBER
[redacted]		

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.

KWH USAGE HISTORY

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

Monthly Usage

[redacted]

Banked KWH: 0

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

DELAWARE ELECTRIC CO-OP DELIVERY CHARGES

Balance Forward		$0.00
Customer Charge		$16.00
Distribution Charge	91 KWH @ 0.024140	$2.20
Renewable Fund	91 KWH @ 0.000178	$0.02
TOTAL CURRENT CO-OP CHARGES		$18.22
TOTAL DUE CO-OP		$18.22

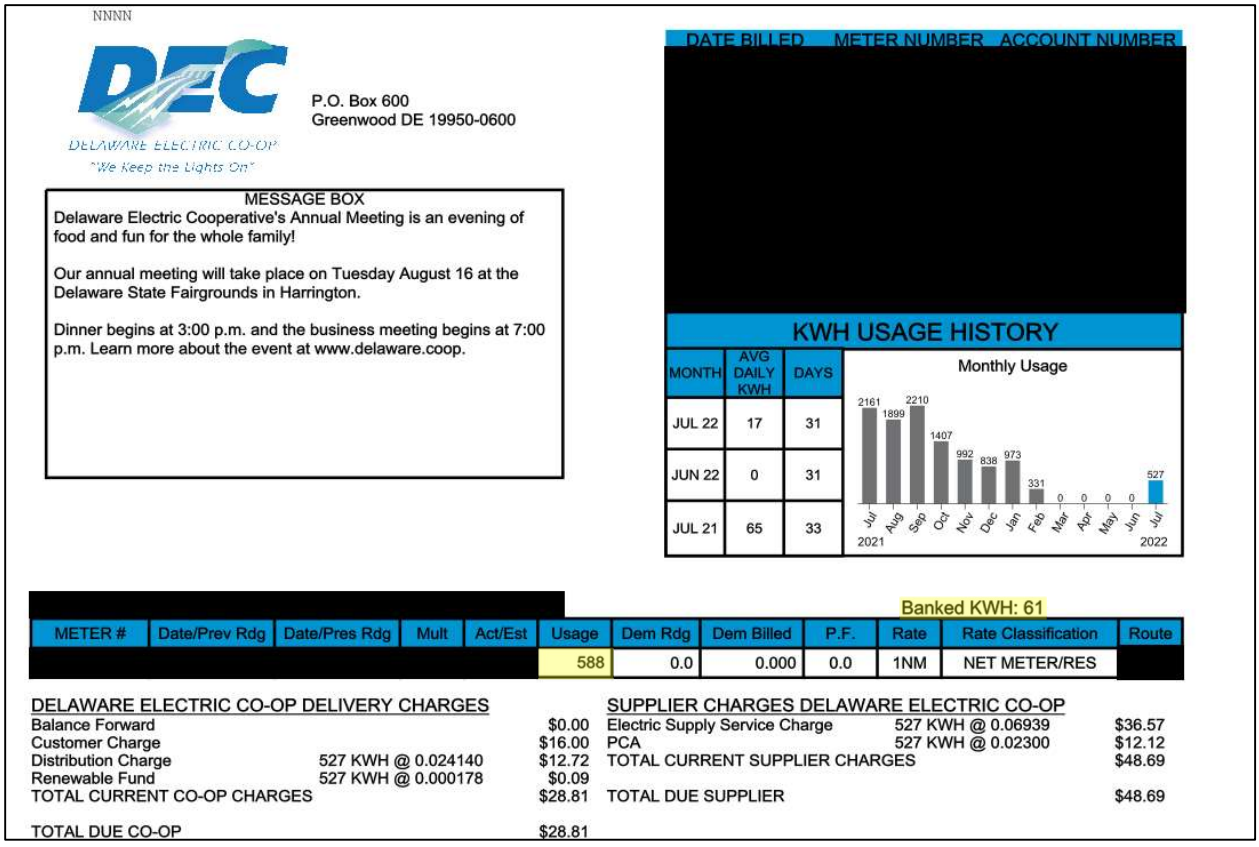
SUPPLIER CHARGES DELAWARE ELECTRIC CO-OP

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, you consumed more energy during the billing period than your solar array was able to produce. You will be billed for the net amount of energy that you used from the grid.

Looking at the above image – you will be billed for the usage of 91 kWh.

Scenario 2: You consumed more energy than your solar produced, but you had excess generation in the past credited towards your current bill



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P.O. Box 600
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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

Monthly Usage

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

Balance Forward		$0.00
Customer Charge		$16.00
Distribution Charge	527 KWH @ 0.024140	$12.72
Renewable Fund	527 KWH @ 0.000178	$0.09
TOTAL CURRENT CO-OP CHARGES		$28.81
TOTAL DUE CO-OP		$28.81

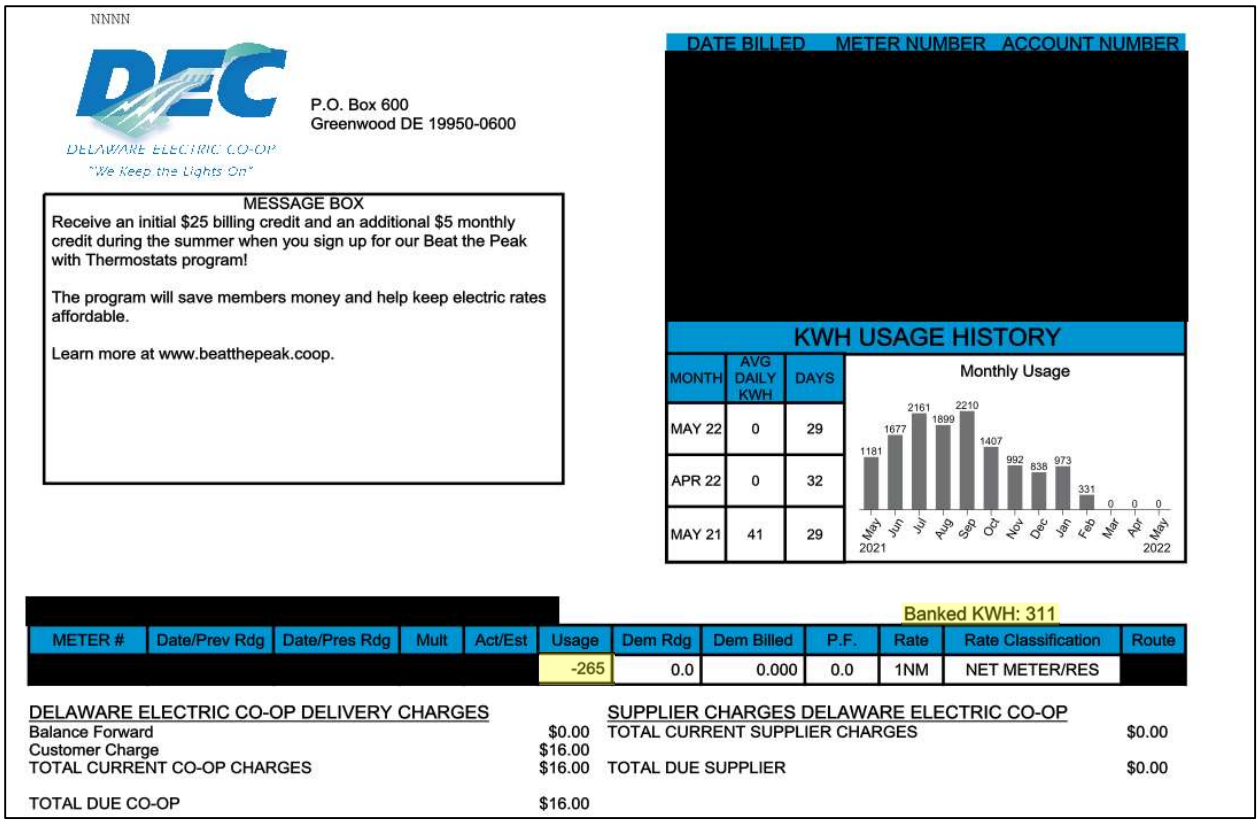
SUPPLIER CHARGES DELAWARE ELECTRIC CO-OP

Electric Supply Service Charge	527 KWH @ 0.06939	$36.57
PCA	527 KWH @ 0.02300	$12.12
TOTAL CURRENT SUPPLIER CHARGES		$48.69
TOTAL DUE SUPPLIER		$48.69

In this example, you 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, 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.

Scenario 3: Your solar produced more energy than you consumed



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DATE BILLED | METER NUMBER | ACCOUNT NUMBER

[redacted]

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.

KWH USAGE HISTORY

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

Monthly Usage

[redacted]

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

Balance Forward	$0.00
Customer Charge	$16.00
TOTAL CURRENT CO-OP CHARGES	$16.00
TOTAL DUE CO-OP	$16.00

SUPPLIER CHARGES DELAWARE ELECTRIC CO-OP

TOTAL CURRENT SUPPLIER CHARGES	$0.00
TOTAL DUE SUPPLIER	$0.00

In this example, your solar produced more energy during the billing period than you consumed. You will only be billed for the Customer Charge (as well as Balance Forward, if any).

Looking at the above image – you will not be billed for any usage. 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. Leading into this bill, you had 311 kWh in your bank. Moving forward to the next bill, you will have 576 kWh in your bank.