

## Interconnected Generation Rate

- Billing Examples

Natalia Mack | Rates Manager

**David L. Thompson** I VP of Markets

#### **Current Rates**

<ul><li>Service Availability Charge</li></ul>	\$22.50 per month
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<ul><li>Delivery Charge (Distribution)</li></ul>	\$0.02712/kWh
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	<b>Transmission</b>	<b>Cost of Service</b>	Charge (To	COS) Ś	50.01356/kWh
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■ Base Power Charge, Flat \$0.04450/kWh

■ Net Metering Credit, Flat - \$0.04450/kWh

### **New Rates** (Starting January 1, 2022)

<ul><li>Service Availability Charge</li></ul>	\$22.50 per month
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- Peak Demand Charge (Distribution)\$5.15/kW
- Transmission Cost of Service Charge/Credit (TCOS) \* ~ \$5.12/kW
- Base Power Charge, Time-of-Use
   Varies per TOU/kWh
- Base Power Energy Credit, Time-of-Use
   Varies per TOU/kWh



<sup>\*</sup> Delayed implementation until January 1, 2023

How will I be billed starting January 1, 2022?

### **Service Availability Charge**

- ☐ Change: None
- ☐ Monthly charge of \$22.50 per meter
- ☐ Billing discounts available to reduce charge
  - EBilling (paperless billing) \$1.00 credit
  - EDraft (automatic bank draft) \$ 1.50 credit
  - Both billing discounts can be combined

How will I be billed starting January 1, 2022?

### **Peak Demand Charge**

- ☐ Change: Replaces Delivery Charge (kWh) and/or Capacity Demand Charge (kW) depending on your rate schedule
- ☐ Charge will be calculated as follows:

Peak Demand Charge = A (\$/kW) X B (kW)

A: Amount: \$5.15 per kW

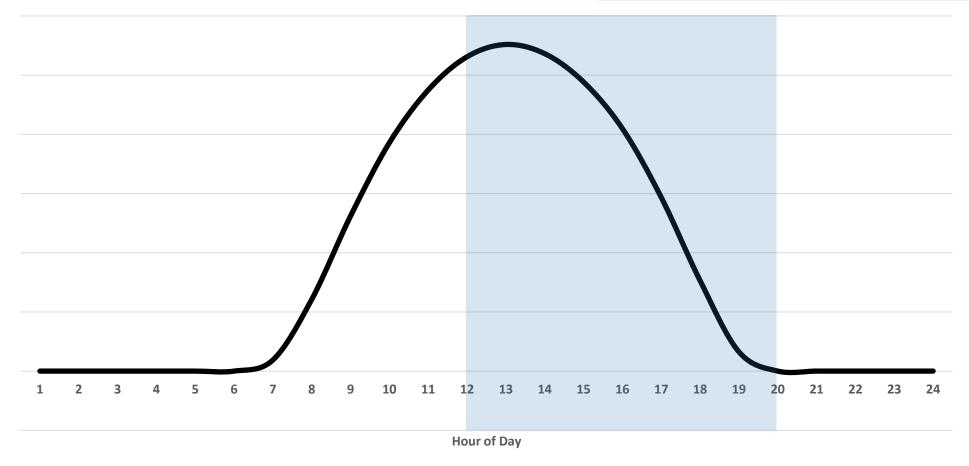
B: Billing Determinant: Maximum hourly demand measured in kW during billing month's peak and super-peak time TOU periods



## **Peak Demand Charge:**

Sample solar shape day: summer

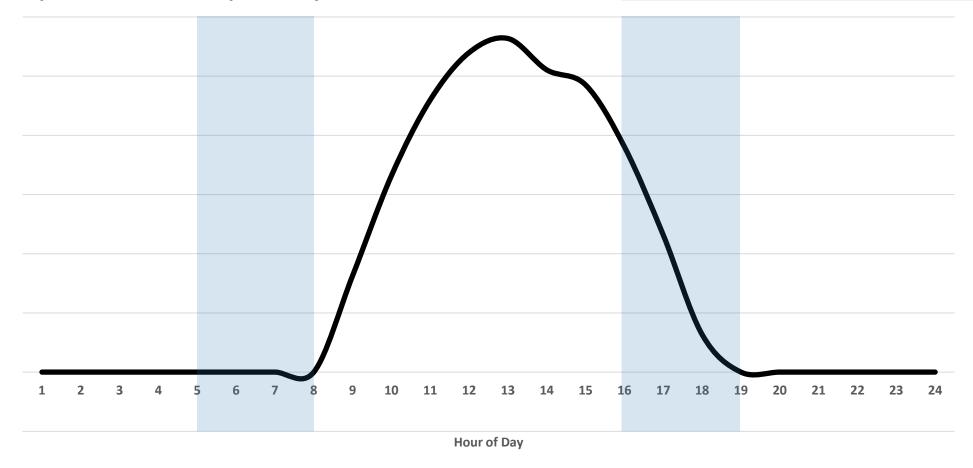
Hours when member's hourly peak demand will be set (12:01 pm to 8:00 pm)



## **Peak Demand Charge:**

Sample solar shape day: non-summer

Hours when member's hourly peak demand will be set (from 5:01 am to 8:00 am and from 4:01 pm to 7:00 pm)



How will I be billed starting January 1, 2022?

### **Time-of-Use Base Power Charge**

- ☐ Change: Replaces Flat Base Power Charge
- ☐ Energy consumption will be charged in the appropriate TOU time period
- ☐ Charges will be calculated as follows:

Base Power Charges = A (\$/kWh) X B (kWh)

A: Amount: varies per TOU time period

B: Billing Determinant: Total Energy Delivered measured in kWh during billing month's time TOU periods

See next slides for detail

### **Base Power Energy Charge**

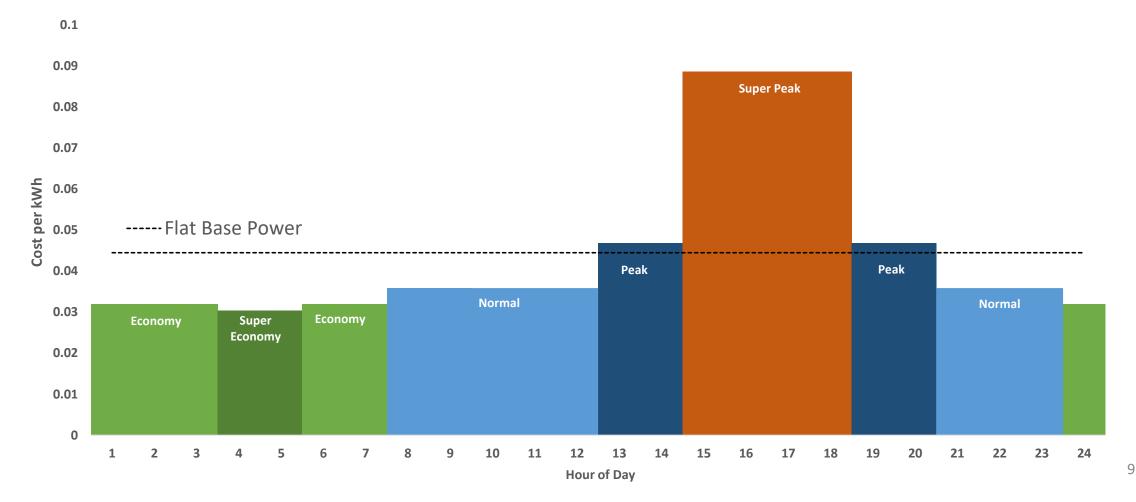
			A	В	AXD
Season	Time of	Use Period	Amount, \$/kWh	Bill Period Energy Delivered, kWh	Charge, \$
	Super Economy	2:01 am - 4:00 am	\$0.030616		
Non-	Economy	11:01 pm - 2:00 am	\$0.037529		
Summer	Economy	4:01 am - 5:00 am	φυ.υ37329		
(Jan. – May	Normal	8:01 am - 4:00 pm	\$0.042449		
and Oct. – Dec.)	Normai	7:01 pm - 11:00 pm	\$0.0 <del>4</del> 2449		
	Peak	5:01 am - 8:00 am	\$0.045680		
		4:01 pm - 7:00 pm	ф0.0 <del>4</del> 5080		
	Super Economy	3:01 am - 5:00 am	\$0.030398		
	Economy	11:01 pm - 3:00 am	\$0.031940		
		5:01 am - 7:00 am	ф0.031 <del>94</del> 0		
Summer	Normal	7:01 am - 12:00 pm	\$0.035883		
(Jun. – Sep.)	Normai	8:01pm - 11:00 pm	ф0.033883		
Эер.)	Peak	12:01 pm - 2:00 pm	\$0.046863		
	reak	6:01 pm - 8:00 pm	φυ.υ <del>4</del> 0003		
	Super Peak	2:01 pm - 6:00 pm	\$0.088620		
					Sum Charges, \$

Δ

A x B

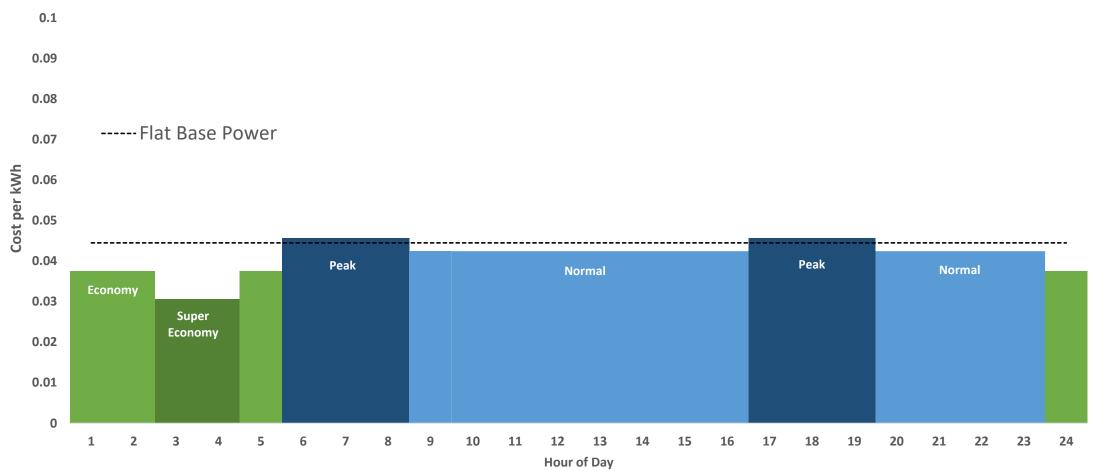
### **Time-of-Use Base Power Charge**

Sample solar shape day: summer



### **Time-of-Use Base Power Charge**

Sample solar shape day: non-summer



How will I be billed January 1, 2022?

## **Time-of-Use Base Power Energy Credit**

- ☐ Change: Replaces Net Energy Credit (Flat kWh) with TOU kWh credit
- ☐ Energy Received (energy that flows back onto the distribution system) will be credited in the appropriate TOU time period
- ☐ Charges will be calculated as follows:

Base Power Charges = A (\$/kWh) X B (kWh)

A: Amount: varies per TOU time period

B: Billing Determinant: Total Energy Delivered measured in kWh during billing month's time TOU periods

See next slides for detail



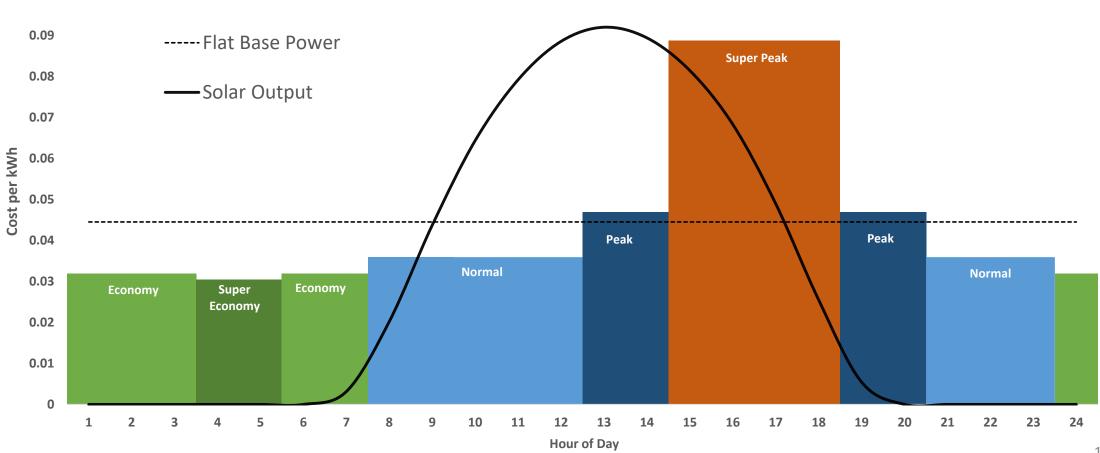
## **Base Power Energy Credit**

			Α	В	AxB
Season	Time of Use Period		Amount, \$/kWh	Bill Period Energy Received, kWh	Credit, \$
	Super Economy	2:01 am - 4:00 am	-\$0.030616		
Non-	Economy	11:01 pm - 2:00 am	-\$0.037529		
Summer	Economy	4:01 am - 5:00 am	-\$0.037529		
(Jan. – May	Normal	8:01 am - 4:00 pm	-\$0.042449		
and Oct. – Dec.)	Normai	7:01 pm - 11:00 pm	-\$0.042449		
	Peak	5:01 am - 8:00 am	-\$0.045680		
	reak	4:01 pm - 7:00 pm	-\$0.045000		
	Super Economy	3:01 am - 5:00 am	-\$0.030398		
	Economy	11:01 pm - 3:00 am	-\$0.031940		
	Leonomy	5:01 am - 7:00 am	-\$0.031940		
Summer	Normal	7:01 am - 12:00 pm	-\$0.035883		
(Jun. – Sep.)	Normal	8:01pm - 11:00 pm	-\$0.033663		
	Peak	12:01 pm - 2:00 pm	-\$0.046863		
	reak	6:01 pm - 8:00 pm	- <del>-</del> \$0.040003		
	Super Peak	2:01 pm - 6:00 pm	-\$0.088620		
					Sum Credits, \$

### **Time-of-Use Base Power Energy Credit**

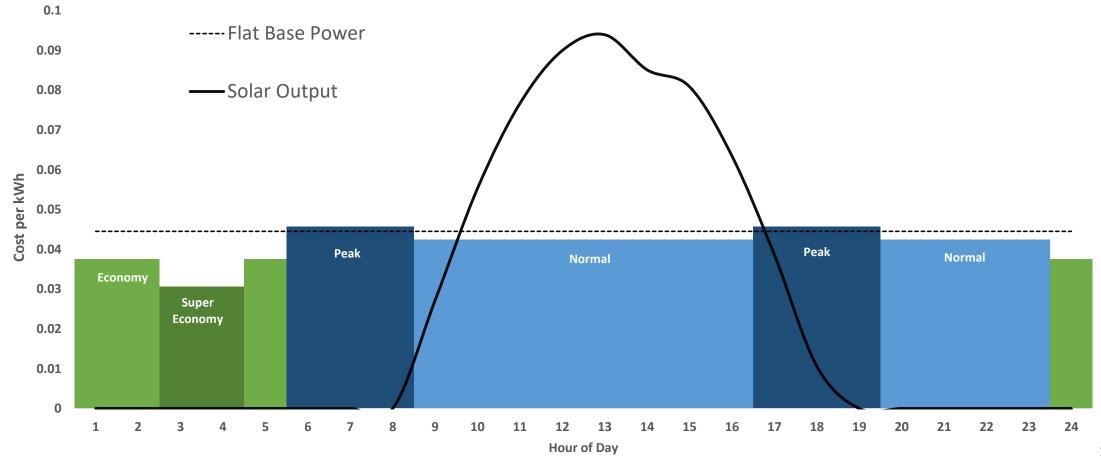
Sample solar shape day: summer

0.1



### **Time-of-Use Base Power Energy Credit**

Sample solar shape day: non-summer



How will I be billed starting January 1, 2023?

### **Transmission Cost of Service (TCOS) Charge**

- ☐ Change: The charges will be recovered on a demand basis, rather than energy. This charge may be a credit.
- ☐ Charges will be calculated as follows:

  Transmission Cost of Service Charges/Credit = A (\$/kW) X B (kW)

A: Amount: ~\$5.12 (varies monthly depending on actual TCOS rate)

B: Billing Determinant: 4CP Demand from previous summer

**Four Coincident Peak (4CP) Demand** – The average demand during the 15-minute intervals for each of the months of June, July, August and September during which the ERCOT system peaks, also known as the four coincidental peaks.

## **Transmission Cost of Service (TCOS) Charge or Credit**

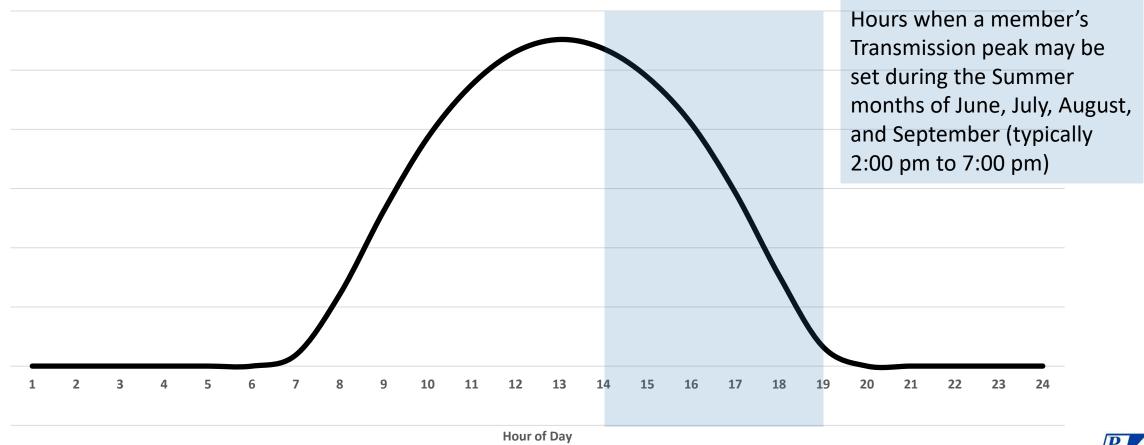
A: Amount: Historic TCOS per kW determined by PUCT

Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
\$ 4.44	\$ 4.45	\$ 4.46	\$ 4.46	\$ 4.36	\$ 4.38	\$ 4.37	\$ 4.36	\$ 4.38	\$ 4.50	\$ 4.51	\$ 4.51
Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
\$ 4.49	\$ 4.53	\$ 4.54	\$ 4.57	\$ 4.60	\$ 4.59	\$ 4.59	\$ 4.59	\$ 4.59	\$ 4.64	\$ 4.64	\$ 4.66
Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
\$ 4.65	\$ 4.65	\$ 4.65	\$ 4.71	\$ 4.67	\$ 4.75	\$ 4.73	\$ 4.73	\$ 4.79	\$ 4.84	\$ 4.89	\$ 4.88

B: Billing Determinant: Historic TCOS 4CP Dates/Times per ERCOT and sample 4CP Demand calculation

Jun-18	Jul-18	Aug-18	Sep-18	2018 Average 4CP
6/27 4:45-5PM	7/19 4:45-5PM	8/23 4:45-5PM	9/19 4:15-4:30PM	Demand
2.00 kW	2.5 kW	4.00 kW	1.50 kW	2.50 kW
Jun-19	Jul-19	Aug-19	Sep-19	2019 Average 4CP
6/19 4:45-5PM	7/30 3:45-4PM	8/12 4:45-5PM	9/6 4:45-5PM	Demand
1.00 kW	1.00 kW	- 1.50 kW	- 0.50 kW	0.00 kW
Jun-20	Jul-20	Aug-20	Sep-20	2020 Average 4CP
6/8 5:45-6PM	7/13 4:30-4:45PM	8/13 4:30-4:45PM	9/1 2:30-2:45PM	Demand
- 1.00 kW	1.00 kW	- 1.50 kW	- 0.50 kW	- 0.50 kW

Transmission Cost of Service (TCOS) Charge: Summer (June – September)



Summary – Monthly Bill Charges and Credits

Charge/Credit	Amount		Billing Determinant	Unit	How the billing determinant is measured?
Service Availability Charge	SAC per rate schedule	Χ	1	month	
					Non-Summer months: the maximum hourly kiliwatt (kW) of demand consumed during peak time periods (5:01 am to 8:00 am and 4:01 pm to 7:00 pm), rounded two decimal places.
Peak Demand Charge	harge \$5.15 X	Peak Demand	kW	Summer months: the maximum hourly kiliwatt (kW) of demand consumed during Peak and Super Peak time periods (12:01 pm to 8:00 pm), rounded two decimal places.	
					The peak demand will be reset monthly and a new peak will be established.
Base Power Charge	Varies per TOU	Х	Delivered Energy per TOU period	kWh	The total sum of Delivered Energy by TOU time periods, rounded to the nearest whole number.
Base Power Credit	Varies per TOU	Х	Received Energy by TOU period	kWh	The total sum of Received Energy by TOU time periods, rounded to the nearest whole number.
Transmission Cost of Service Charge/Credit	~ \$5.12	Χ	4CP Demand	kW	The average demand measured during each 15 minute 4CP intervals.

# **Billing Examples**

### **Billing Examples**

- Average Member Information
  - Distributed Generation (DG) size: 5, 7, 10, and 15 kW
  - DG type: solar
  - Average energy usage without solar: 1,250 kWh/month
- Billing example will show bills received for usage during:
  - January 2021 Current Net Metering Rate
  - January 2022 New Interconnect Rate with energy based TCOS charge
  - January 2023 New Interconnect Rate

#### Average Residential Member Bill Comparison – 5 KW Solar System

#### Current Interconnect Rate Bill - January 2021

Interconnected Net Metering Rate: Non-Summer bill sample

744

kWh

\$22.50 \$

#### **System Specifications**

Net Energy (DE-RE)

System size 5 kW **Billing Determinants** Value Unit
Delivered Energy (DE) 969 kWh
Received Energy (RE) 225 kWh

#### Current Activity Service Availability Charge

Delivery Charge 744 kWh @ \$0.027120 \$ 20.19 Base Power Cost 744 kWh @ \$0.044500 \$ 33.13 TCOS Charge 744 kWh @ \$0.013560 \$ 10.09

## NEW Interconnect Rate (Interim TCOS charge) Bill - January 2022

Interconnected Net Billing Rate: Non-Summer bill sample

#### System Specifications

5 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW Delivered Energy (DE) 969 kWh Super Economy 71 kWh 171 Economy kWh 479 kWh Normal Peak 247 kWh 225 Received Energy (RE) kWh Super Economy kWh 0 kWh Economy 216 kWh Normal

# Current Activity Service Availability Charge Peak Demand Charge 5

Net Energy

Peak

**TOTAL AMOUNT DUE** 

Base Power Cost
Super Economy 71 kWh @ \$0.030398 \$ 2.17
Economy 171 kWh @ \$0.031940 \$ 5.48

Normal 479 kWh @ \$0.035883 \$ 17.20
Peak 247 kWh @ \$0.046863 \$ 11.59

Credit

kW

kWh

kWh

\$5.15 \$

22.50

28.27

\$ 89.13

744

Super Economy 0 kWh @ -\$0.030398 \$ -Economy 0 kWh @ -\$0.031940 \$ -Normal 216 kWh @ -\$0.035883 \$ (7.76)

Peak 9 kWh @ -\$0.046863 \$ (0.42)
TCOS Charge 744 kWh @ \$0.013560 \$ 10.09

#### **NEW Interconnect Rate**

Bill - January 2023

Interconnected Net Billing Rate: Non-Summer bill sample

#### **System Specifications**

5 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW 969 kWh Delivered Energy (DE) Super Economy 71 kWh Economy 171 kWh 479 kWh Normal Peak 247 kWh 225 kWh Received Energy (RE) kWh Super Economy kWh Economy 216 kWh Normal 9 kWh Peak

## Current Activity Service Availability Charge

TCOS Charge/Credit

4CP Demand

Peak Demand Charge \$5.15 \$ 28.27 5 kW Base Power Cost Super Economy 71 kWh \$0.030398 \$ 2.17 Economy 171 kWh \$0.031940 \$ 5.48 \$0.035883 \$ 17.20 Peak 247 kWh \$0.046863 \$ 11.59 Credit -\$0.030398 \$ Super Economy kWh -\$0.031940 \$ 216 kWh @ -\$0.035883 \$ (7.76)

kWh

@

Peak

**TOTAL AMOUNT DUE** 

9

2.00

kW

-\$0.046863 \$

\$5.12 \$

22.50

(0.42)

10.24

\$ 89.27

22.50

#### Average Residential Member Bill Comparison – 7 KW Solar System

#### **Current Interconnect Rate** Bill - January 2021

Interconnected Net Metering Rate: Non-Summer bill sample

7 kW

#### **System Specifications**

System size

**Billing Determinants** Value Unit Delivered Energy (DE) 943 kWh Received Energy (RE) 401 kWh Net Energy (DE-RE) 542 kWh

#### Current Activity

**TOTAL AMOUNT DUE** 

542 kWh \$0.027120 \$ 14.70 542 kWh \$0.044500 \$ 24.13 Transmission Cost of S 542 kWh \$0.013560 \$ 7.35

#### Service Availability Charge \$22.50 \$ 22.50 Delivery Charge Base Power Cost

**NEW Interconnect Rate (Interim TCOS charge)** Bill - January 2022

Interconnected Net Billing Rate: Non-Summer bill sample

#### **System Specifications**

Net Energy

7 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW Delivered Energy (DE) 943 kWh Super Economy 71 kWh Economy 171 kWh 460 kWh Normal Peak 240 kWh 401 Received Energy (RE) kWh Super Economy kWh 0 Economy kWh 382 kWh Normal 19 kWh Peak 542 kWh

#### **Current Activity** Service Availability Charge 22.50 Peak Demand Charge 5 \$5.15 \$ 28.27 kW Base Power Cost Super Economy 71 kWh \$0.030398 \$ 2.17 Economy 171 kWh \$0.031940 \$ 5.48 \$0.035883 \$ 16.52 Peak 240 kWh \$0.046863 \$ 11.23 Credit -\$0.030398 \$ Super Economy -\$0.031940 \$ (13.70)Normal 382 kWh -\$0.035883 \$ Peak 19 kWh -\$0.046863 \$ (0.88)7.35 Transmission Cost of S 542 kWh \$0.013560 \$ **TOTAL AMOUNT DUE** 78.93

#### **NEW Interconnect Rate** Bill - January 2023

Interconnected Net Billing Rate: Non-Summer bill sample

#### **System Specifications**

System size	7	7 kW	
Billing Determinants	Value	Unit	
Peak Demand	5	kW	
Delivered Energy (DE)	943	kWh	
Super Economy	71	kWh	
Economy	171	kWh	
Normal	460	kWh	
Peak	240	kWh	
Received Energy (RE)	401	kWh	
Super Economy	0	kWh	
Economy	0	kWh	
Normal	382	kWh	
Peak	19	kWh	
4CP Demand	1.00	kW	

	<b>TOTAL AMO</b>		\$	76 70			
TCOS	Charge/Credit	1.00	kW	@	\$5.12	\$	5.12
	Peak	19	kWh	@	-\$0.046863	\$	(0.88)
	Normal	382	kWh	@	-\$0.035883	\$	(13.70)
	Economy	0	kWh	@	-\$0.031940	\$	-
	Super Economy	0	kWh	@	-\$0.030398	\$	-
Credit							
	Peak	240	kWh	@	\$0.046863	*	11.23
	Normal	460	kWh	@	\$0.035883	\$	16.52
	Economy	171	kWh	@	\$0.031940	\$	5.48
	Super Economy	71	kWh	@	\$0.030398	\$	2.17
Base I	Power Cost						
Peak [	Demand Charge	5	kW	@	\$5.15	\$	28.27
Service	e Availability Cha	rge				\$	22.50
Curre	nt Activity						

#### Average Residential Member Bill Comparison – 10 KW Solar System

## Current Interconnect Rate Bill - January 2021

Interconnected Net Metering Rate: Non-Summer bill sample

10 kW

#### **System Specifications**

System size

Billing Determinants

Delivered Energy (DE)

Received Energy (RE)

Net Energy (DE-RE)

Value

920

kWh

681

kWh

Net Energy (DE-RE)

239

kWh

#### Current Activity

 Service Availability Charge
 \$22.50

 Delivery Charge
 239 kWh
 \$0.027120
 6.48

 Base Power Cost
 239 kWh
 \$0.044500
 10.63

 Transmission Cost of S 239 kWh
 \$0.013560
 3.24

## NEW Interconnect Rate (Interim TCOS charge) Bill - January 2022

Interconnected Net Billing Rate: Non-Summer bill sample

#### System Specifications

10 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW Delivered Energy (DE) 920 kWh Super Economy 71 kWh 171 Economy kWh 446 kWh Normal Peak 231 kWh 681 Received Energy (RE) kWh Super Economy kWh 0 kWh Economy kWh Normal 644 37 kWh Peak

#### Current Activity

Net Energy

Service Availability Charge 22.50 Peak Demand Charge \$5.15 \$ 28.27 kW Base Power Cost Super Economy 71 kWh \$0.030398 \$ 2.17 Economy 171 kWh \$0.031940 \$ 5.48 \$0.035883 \$ 15.99 Peak 231 kWh \$0.046863 \$ 10.83 Credit -\$0.030398 \$ Super Economy -\$0.031940 \$ Normal 644 -\$0.035883 \$ (23.11)kWh Peak 37 kWh -\$0.046863 \$ (1.72)Transmission Cost of S 239 kWh \$0.013560 \$ 3.24

**TOTAL AMOUNT DUE** 

239

kWh

\$ 63.65

#### **NEW Interconnect Rate**

Bill - January 2023

Interconnected Net Billing Rate: Non-Summer bill sample

#### **System Specifications**

10 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW 920 kWh Delivered Energy (DE) Super Economy 71 kWh Economy 171 kWh 446 kWh Normal Peak 231 kWh 681 kWh Received Energy (RE) kWh Super Economy kWh Economy kWh Normal 644 37 kWh Peak 4CP Demand 0.00 kW

5

### Current Activity Service Availability Charge

Peak Demand Charge

TCOS Charge/Credit

**TOTAL AMOUNT DUE** 

Base Power Cost Super Economy 71 kWh \$0.030398 \$ 2.17 Economy 171 kWh \$0.031940 \$ 5.48 \$0.035883 \$ 15.99 Peak 231 \$0.046863 \$ 10.83 kWh Credit -\$0.030398 \$ Super Economy kWh -\$0.031940 \$ 644 kWh -\$0.035883 \$ (23.11)Peak 37 kWh @ -\$0.046863 \$ (1.72)

kW

22.50

28.27

\$5.15 \$

\$5.12 \$

\$ 60.41

#### Average Residential Member Bill Comparison – 15 KW Solar System

#### Current Interconnect Rate Bill - January 2021

Interconnected Net Metering Rate: Non-Summer bill sample

#### **System Specifications**

Current Activity

Delivery Charge \*

Base Power Credit \*

Net Energy Credit

Service Availability Charge

Transmission Cost of S 0 kWh

System size 15 kW

Billing DeterminantsValueUnitDelivered Energy (DE)897kWhReceived Energy (RE)1164kWhNet Energy (DE-RE)-267kWh

## NEW Interconnect Rate (Interim TCOS charge) Bill - January 2022

Interconnected Net Billing Rate: Non-Summer bill sample

#### System Specifications

Net Energy

System size 15 kW

Billing Determinants Value Uni

**Billing Determinants** Unit Peak Demand 5 kW Delivered Energy (DE) 897 kWh Super Economy 71 kWh 171 Economy kWh 433 kWh Normal Peak 221 kWh 1164 Received Energy (RE) kWh Super Economy kWh 0 Economy kWh 1093 kWh Normal 71 kWh Peak

TOTAL AMO	UNT	DUE			\$ 41.78
Transmission Cost of S	0	kWh	@	\$0.013560	\$ -
Peak	71	kWh	@	-\$0.046863	\$ (3.30)
Normal	1093	kWh	@	-\$0.035883	\$ (39.23)
Economy	0	kWh	@	-\$0.031940	\$ -
Super Economy	0	kWh	@	-\$0.030398	\$ -
Credit					
Peak	221	kWh	@	\$0.046863	\$ 10.35
Normal	433	kWh	@	\$0.035883	\$ 15.55
Economy	171	kWh	@	\$0.031940	\$ 5.48
Super Economy	71	kWh	@	\$0.030398	\$ 2.17
Base Power Cost					
Peak Demand Charge	5	kW	@	\$5.15	\$ 28.27
Service Availability Cha	rge				\$ 22.50
<b>Current Activity</b>					

-267

kWh

## NEW Interconnect Rate Bill - January 2023

Interconnected Net Billing Rate: Non-Summer bill sample

#### **System Specifications**

15 kW System size **Billing Determinants** Value Unit Peak Demand 5 kW 897 kWh Delivered Energy (DE) Super Economy 71 kWh Economy 171 kWh 433 kWh Normal Peak 221 kWh 1164 kWh Received Energy (RE) Super Economy kWh 0 0 kWh Economy 1093 kWh Normal kWh Peak 71 4CP Demand -2.00kW

nomy nomy ormal Peak	0	kWh kWh kWh kWh kWh	0 0 0 0 0	\$0.046863 -\$0.030398 -\$0.031940 -\$0.035883 -\$0.046863 \$5.12	\$ \$ \$ \$	10.35 - (39.23) (3.30) (10.24)
nomy nomy ormal	0 0 1093	kWh kWh kWh	@ @	-\$0.030398 -\$0.031940 -\$0.035883	\$ \$ \$	- (39.23)
nomy	0	kWh kWh	@	-\$0.030398 -\$0.031940	\$	10.35 - - (39.23)
nomy	0	kWh	@	-\$0.030398	\$	10.35 - -
	221			• • • • • • • • • • • • • • • • • • • •	•	10.35 -
	221	kWh	@	\$0.046863	\$	10.35
can	221	kWh	@	\$0.046863	\$	10.35
Peak						
ormal	433	kWh	@	\$0.035883	\$	15.55
nomy	171	kWh	@	\$0.031940	\$	5.48
nomy	71	kWh	@	\$0.030398	\$	2.17
arge	5	kW	@	\$5.15	\$	28.27
, ,	ırge				\$	22.50
/ Cha						
		0	Charge arge 5 kW	•	•	

0 kWh @

@

0 kWh

267 kWh

\$22.50 \$

\$0.027120 \$

\$0.044500 \$

\$0.013560 \$

-\$0.044500 \$

22.50

(11.87)

## **Questions and Contact Information**

**Natalia Mack** 

Rates Manager

Natalia.Mack@peci.com

Office Phone: 830.868.4948

Mobile Phone: 830.225.8128

**David L. Thompson** 

**VP of Markets** 

David.Thompson@peci.com

Office Phone: 830.868.6068

Mobile Phone: 830.225.8397



pec.coop