

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



REVISED

March 13, 2018

**Advice Letter 3710-E  
3710-E-A**

Russell G. Worden  
Director, State Regulatory Operations  
Southern California Edison Company  
8631 Rush Street  
Rosemead, CA 91770

**SUBJECT: Green Tariff Shared Renewables Program Rate Component Updates  
for 2018**

Dear Mr. Worden:

Advice Letter 3710-E and supplemental 3710-E-A are effective as of January 1, 2018.

Sincerely,

A handwritten signature in cursive script that reads "Edward Randolph".

Edward Randolph  
Director, Energy Division

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December 22, 2017

**ADVICE 3710-E-A**  
**(U 338-E)**

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA  
ENERGY DIVISION

**SUBJECT:** Supplement to Advice 3710-E, Green Tariff Shared  
Renewables Program Rate Component Updates for 2018

Pursuant to Decision (D.)15-01-051, Southern California Edison Company (SCE) hereby submits for filing the following changes to its tariffs. The revised tariff sheets are listed on Attachment A and are attached hereto.

**PURPOSE**

The purpose of this supplemental advice filing is to make changes to the tariff sheets originally contained within Advice 3710-E. These changes are made in accordance with General Order (GO) 96-B, General Rule 7.5.1, which authorizes utilities to make additional changes to an advice filing through the filing of a supplemental advice letter. This advice filing supplements in part and will not change the integrity of the original Advice 3710-E, except as noted below.

**DISCUSSION**

Subsequent to the filing of Advice 3710-E, SCE is filing this supplemental advice letter to clarify the effect that the default load aggregation point (DLAP) price has on the Time of Delivery (TOD) adjustment, that SCE intends to revise its TOD adjustment methodology, the timing pertaining to Class Average Generation Credits, and updates made to various charges and credits. Since filing of AL 3710-E, SCE has conferred with the Energy Division to revise current methodology used to calculate the TOD adjustment. The Class Average Generation Credit (CAGC) has also been updated due to upcoming filing of AL 3696-E-A, supplemental to Implementation of SCE's Consolidated Revenue Requirement and Rate Change on January 1, 2018.

**2018 GTSR Program Rate Component Updates**

SCE is making corrections to bullets 1 and 2 on page 3 of Advice 3710-E, as shown below. Additions are shown in underlined text. Deletions are shown in strike through.

- The TOD adjustment can be either a credit or a charge. The adjustment accounts for the difference between value created by GTSR generation facilities and the cost of procuring solar power to serve customers on Schedule GTSR – GR. When the value resulting from GTSR generation facilities exceeds the cost of serving customers or when generation output is greater than class load, the adjustment is a credit. When the inverse is true or when generation output cannot meet class load, the adjustment is a charge.

The default load aggregation point (DLAP) hourly price or the price of energy in the CAISO market has decreased significantly during afternoon hours. Using Commission-approved methodology for calculating the TOD adjustment, as prescribed in Footnote 68 of AL 3219-E, the value resulting from GTSR generation facilities has decreased, while the cost of serving class load has increased significantly over time. These trends result in a negative TOD adjustment or positive credit that acts as a charge for customers on Schedule GTSR-GR.

As the DLAP hourly price continues to decrease during afternoons and increase in the evenings, SCE has conferred with Energy Division to revise the methodology for calculating the TOD adjustment. The revised methodology now takes a simple average of TOD adjustments calculated since initial offering of the GTSR program. This revision does not have any impact on any other rate schedules that SCE offers to customers.

- The Class Average Generation Credits are preliminary estimates, based on the forecast generation rates included in SCE’s ~~October~~ update of to its rates on October 1, 2017.<sup>1</sup> The Class Average Generation Credits has been updated on January 1, 2018, based on Commission decisions in various proceedings.

SCE updates the values included in the tables below in underline, as follows.

<b>\$/kWh</b>	<b>Green Rate</b>	<b>Community Renewables</b>
<b>Charges</b>		
Renewable Power Rate	0.07607	0.00000
Power Charge Indifference Adjustment (PCIA) <sup>2</sup>	<u>0.01877</u>	<u>0.01877</u>
Competition Transition Charge (CTC)	0.00075	0.00075

<sup>1</sup> On October 23, 2017, the Commission approved Advice 3659-E, which updated rates by removing collection of SCE’s share of total authorized IOU New Solar Homes Partnership Program funding over a 12-month period that began on October 1, 2016. Advice 3659-E became effective on October 1, 2017.

<sup>2</sup> In the GTSR Program customer tariffs, the PCIA and CTC are shown in aggregate as the GTSR Indifference Adjustment.

California Independent System Operator (CAISO) Grid Charge <sup>3</sup>	0.00050	0.00050
Western Renewable Energy Generation Information System (WREGIS) Charge	0.00001	0.00001
Resource Adequacy (RA) Adjustment	0.00629	CR Facility Specific
Renewables Integration Cost (RIC) Charge	0.00000	0.00000
Administrative Charge <sup>4</sup>	0.00085	0.00085
Marketing, Education, and Outreach (ME&O) Charge	<u>0.00737</u>	0.00003
<b>Total Charges</b>	<b><u>0.11061</u></b>	<b>CR Facility Specific</b>

<b>\$/kWh</b>	<b>Green Rate</b>	<b>Community Renewables</b>
<b>Credits</b>		
Class Average Generation Credit <sup>5</sup>	<u>0.08689</u>	<u>0.08689</u>
Time-of-Delivery (TOD) Adjustment	<u>-0.00763</u>	CR Facility Specific
<b>Total Credits</b>	<b><u>0.07926</u></b>	<b>CR Facility Specific</b>

	<b>Green Rate</b>	<b>Community Renewables</b>
<b>Premium</b>		
	<b><u>0.03135</u></b>	<b>CR Facility Specific</b>

<sup>3</sup> In the GTSR Program customer tariffs, the CAISO Grid Charge and WREGIS Charge are shown in aggregate as the CAISO Grid and WREGIS Charges.

<sup>4</sup> In the GTSR Program customer tariffs, the Administrative Charge and ME&O Charge are shown in aggregate as the Program Administration Charge.

<sup>5</sup> The 2018 Class Average Generation Credit for this advice filing is based on rates that were effective October 1, 2017, per Commission approval of Advice 3659-E on October 23, 2017.

## **PROPOSED TARIFF CHANGES**

Pursuant to the discussion above, SCE proposes to modify the rate tables included in the Rates section of Schedule GTSR-GR, *Green Tariff Shared Renewables Green Rate*, and Schedule GTSR-CR, *Green Tariff Shared Renewables Community Renewables*, to reflect the 2018 rates for customers electing to participate in the GTSR Program.

## **LIST OF ATTACHMENTS**

Attachment A: Revised Tariff Sheets

## **TIER DESIGNATION**

Pursuant to the Decision,<sup>6</sup> this advice filing is submitted with a Tier 2 designation, which is the same Tier designation as the original filing, Advice 3710-E.

## **EFFECTIVE DATE**

This supplemental advice filing will become effective on the same day as the original filing, Advice 3710-E, which is January 1, 2018.

## **PROTESTS**

SCE asks that the Commission, pursuant to GO 96-B, General Rules 7.5.1, maintain the original protest and comment period designated in Advice 3710-E and not reopen the protest period. The modifications included in this supplemental advice filing do not make substantive changes that would affect the overall evaluation of the filing.

## **NOTICE**

In accordance with General Rule 4 of General Order (GO) 96-B, SCE is serving copies of this advice filing to the interested parties shown on the attached GO 96-B and A.12-01-008 et al. service lists. Address change requests to the GO 96-B service list should be directed by electronic mail to [AdviceTariffManager@sce.com](mailto:AdviceTariffManager@sce.com) or at (626) 302-3719. For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at [Process\\_Office@cpuc.ca.gov](mailto:Process_Office@cpuc.ca.gov).

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by filing and keeping the advice filing at SCE's corporate headquarters. To view other SCE advice letters filed with the Commission, log on to SCE's web site at <https://www.sce.com/wps/portal/home/regulatory/advice-letters>.

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<sup>6</sup> D.15-01-051 at p. 142.

For questions, please contact Jenny Chen at (626) 302-8823 or by electronic mail at [JennyChienyi.Chen@sce.com](mailto:JennyChienyi.Chen@sce.com).

**Southern California Edison Company**

/s/ Russell G. Worden  
Russell G. Worden

RGW:jc:cm  
Enclosures

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

Company name/CPUC Utility No.: Southern California Edison Company (U 338-E)

Utility type:

ELC       GAS  
 PLC       HEAT       WATER

Contact Person: Darrah Morgan

Phone #: (626) 302-2086

E-mail: [Darrah.Morgan@sce.com](mailto:Darrah.Morgan@sce.com)

E-mail Disposition Notice to: [AdviceTariffManager@sce.com](mailto:AdviceTariffManager@sce.com)

EXPLANATION OF UTILITY TYPE

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

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 3710-E-A

Tier Designation: 2

Subject of AL: Supplement to Advice 3710-E, Green Tariff Shared Renewables Program Rate Component Updates for 2018

Keywords (choose from CPUC listing): Compliance

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #:

Decision 15-01-051

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: \_\_\_\_\_

Summarize differences between the AL and the prior withdrawn or rejected AL: \_\_\_\_\_

Confidential treatment requested?  Yes  No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement.

Name and contact information to request nondisclosure agreement/access to confidential information:

Resolution Required?  Yes  No

Requested effective date: 1/1/18      No. of tariff sheets: -2-

Estimated system annual revenue effect: (%): \_\_\_\_\_

Estimated system average rate effect (%): \_\_\_\_\_

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

Tariff schedules affected: See Attachment A

Service affected and changes proposed<sup>1</sup>: \_\_\_\_\_

Pending advice letters that revise the same tariff sheets: None

<sup>1</sup> Discuss in AL if more space is needed.

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

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, California 94102  
E-mail: [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Russell G. Worden  
Managing Director, State Regulatory Operations  
Southern California Edison Company  
8631 Rush Street  
Rosemead, California 91770  
Telephone: (626) 302-4177  
Facsimile: (626) 302-6396  
E-mail: [AdviceTariffManager@sce.com](mailto:AdviceTariffManager@sce.com)

Laura Genao  
Managing Director, State Regulatory Affairs  
c/o Karyn Gansecki  
Southern California Edison Company  
601 Van Ness Avenue, Suite 2030  
San Francisco, California 94102  
Facsimile: (415) 929-5544  
E-mail: [Karyn.Gansecki@sce.com](mailto:Karyn.Gansecki@sce.com)



Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 62697-E	Schedule GTSR-CR	Revised 60778-E
Revised 62698-E	Schedule GTSR-GR	Revised 60779-E

Schedule GTSR-CR Sheet 2  
GREEN TARIFF SHARED RENEWABLES COMMUNITY RENEWABLES

(Continued)

RATES

All charges and provisions of the Customer's Otherwise Applicable Tariff (OAT) apply, except that the total amount billed to the Customer by SCE shall be adjusted by applying the following additional credits and charges on a dollar per kilowatt-hour (\$/kWh) basis to the Customer's Subscription, as defined below. A breakdown of individual credits and charges and the historical trends and non-binding forecasts for each to the extent they are available can be found on SCE's GTSR Program webpage.

Component	(\$/kWh)
<b>Community Renewables Credit</b>	
Class Average Generation Credit	
Residential	(0.08689) (I)
TOU-GS-1	(0.08810) (I)
TOU-GS-2	(0.08215) (I)
TOU-GS-3	(0.07780) (I)
TOU-8-Sec	(0.07290) (I)
TOU-8-Pri	(0.06837) (I)
TOU-8-Sub	(0.06168) (I)
TOU-8-S-Sec	(0.07332) (I)
TOU-8-S-Pri	(0.06946) (I)
TOU-8-S-Sub	(0.06083) (I)
TOU-PA-2	(0.07450) (I)
TOU-PA-3	(0.05966) (I)
Street and Area Lighting	(0.04615) (I)
TC-1	(0.06640) (I)
Renewable Energy Value Adjustment	CR Facility Specific
<b>Community Renewables Charge</b>	
RPR	0.00000
GTSR Indifference Adjustment	See Schedule DA-CRS
CAISO Grid & WREGIS Charges	0.00051
RA Adjustment	CR Facility Specific
Program Administration Charge	0.00088 (R)
RIC Charge	0.00000

1. Credits. All of the following components appear in aggregate as the "Community Renewables Credit" under the Generation section of the Customer's regular billing statement from SCE and are updated annually as part of SCE's Energy Resource Recovery Account (ERRA) proceeding.
  - a. Class Average Generation Credit: Based on the class average retail generation rate as established in SCE's Commission-approved tariffs for the class to which the Customer's OAT belongs. In addition to the ERRA proceeding, this component will be updated whenever there is a substantial change to the generation revenue requirement, such as the implementation of Phase 1 of a General Rate Case.

(Continued)

(To be inserted by utility)  
 Advice 3710-E-A  
 Decision 15-05-051

Issued by  
Caroline Choi  
 Senior Vice President

(To be inserted by Cal. PUC)  
 Date Filed Dec 22, 2017  
 Effective Jan 1, 2018  
 Resolution \_\_\_\_\_



Schedule GTSR-GR  
GREEN TARIFF SHARED RENEWABLES GREEN RATE

Sheet 2

(Continued)

RATES

All charges and provisions of the Customer's Otherwise Applicable Tariff (OAT) apply, except that the total amount billed to the Customer shall be adjusted by applying the following additional credits and charges on a dollar per kilowatt-hour (\$/kWh) basis to the Customer's Subscription, as defined below. A breakdown of all individual credits and charges and the historical trends and non-binding forecasts for each to the extent they are available can be found on SCE's GTSR Program webpage.

Component	(\$/kWh)
<b>Green Rate Credit</b>	
Class Average Generation Credit	
Residential	(0.08689) (I)
TOU-GS-1	(0.08810) (I)
TOU-GS-2	(0.08215) (I)
TOU-GS-3	(0.07780) (I)
TOU-8-Sec	(0.07290) (I)
TOU-8-Pri	(0.06837) (I)
TOU-8-Sub	(0.06168) (I)
TOU-8-S-Sec	(0.07332) (I)
TOU-8-S-Pri	(0.06946) (I)
TOU-8-S-Sub	(0.06083) (I)
TOU-PA-2	(0.07450) (I)
TOU-PA-3	(0.05966) (I)
Street and Area Lighting	(0.04615) (I)
TC-1	(0.06640) (I)
Renewable Energy Value Adjustment	
Residential	0.00763 (R)
TOU-GS-1	0.00404 (R)
TOU-GS-2	0.00376 (R)
TOU-GS-3	0.00291 (R)
TOU-8-Sec	0.00235 (R)
TOU-8-Pri	0.00201 (R)
TOU-8-Sub	0.00158 (R)
TOU-8-S-Sec	0.00239 (R)
TOU-8-S-Pri	0.00251 (R)
TOU-8-Sub	0.00149 (R)
TOU-PA-2	0.00183 (R)
TOU-PA-3	0.00159 (R)
Street and Area Lighting	0.00167 (R)
TC-1	0.00150 (R)
<b>Green Rate Charge</b>	
RPR	0.07607
GTSR Indifference Adjustment	See Schedule DA-CRS
CAISO Grid & WREGIS Charges	0.00051
RA Adjustment	0.00629
Program Administration Charge	0.00822 (I)
RIC Charge	0.00000

(Continued)

(To be inserted by utility)  
 Advice 3710-E-A  
 Decision 15-05-051

Issued by  
Caroline Choi  
 Senior Vice President

(To be inserted by Cal. PUC)  
 Date Filed Dec 22, 2017  
 Effective Jan 1, 2018  
 Resolution \_\_\_\_\_

## Attachment B

## Schedule GTSR – Green Rate (GR)

Rate Component	Residential	GS-1	TC-1	GS-2	TOU-GS	TOU-8- Sec	TOU-8- Pri	TOU-8- Sub	TOU-8- Sec-S	TOU-8- Pri-S	TOU-8- Sub-S	PA-1	PA-2	TOU PA- 2	TOU PA- 3	STLights
<b>Charges (\$/kWh)</b>																
Renewable Power Rate	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607	0.07607
PCIA	0.01877	0.01204	0.00852	0.01565	0.01296	0.01132	0.01049	0.01000	0.00232	0.0024	0.00142	0.01165	0.01165	0.01165	0.00757	0.00002
CTC	0.00075	0.00048	0.00034	0.00063	0.00052	0.00045	0.00042	0.00040	0.00009	0.00010	0.00006	0.00047	0.00047	0.00047	0.00030	0.00000
WREGIS Charge	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
CAISO Grid Charge	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050
RA Adjustment	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629	0.00629
RIC Charge	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Administrative Charge	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085
ME&O Charge	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737	0.00737
<b>Total Charges</b>	<b>0.11061</b>	<b>0.10361</b>	<b>0.09995</b>	<b>0.10737</b>	<b>0.10457</b>	<b>0.10286</b>	<b>0.10200</b>	<b>0.10149</b>	<b>0.09350</b>	<b>0.09359</b>	<b>0.09257</b>	<b>0.10321</b>	<b>0.10321</b>	<b>0.10321</b>	<b>0.09896</b>	<b>0.09111</b>
<b>Credits (\$/kWh)</b>																
Class Average																
Generation Credit	(0.08689)	(0.08810)	(0.06640)	(0.08215)	(0.07780)	(0.07290)	(0.06837)	(0.06168)	(0.07332)	(0.06946)	(0.06083)	(0.07450)	(0.07450)	(0.07450)	(0.05966)	(0.04615)
TOD Adjustment	0.00763	0.00404	0.00150	0.00376	0.00291	0.00235	0.00201	0.00158	0.00239	0.00251	0.00149	0.00183	0.00183	0.00183	0.00159	0.00167
<b>Total Credits</b>	<b>(0.07926)</b>	<b>(0.08406)</b>	<b>(0.06490)</b>	<b>(0.07839)</b>	<b>(0.07489)</b>	<b>(0.07055)</b>	<b>(0.06636)</b>	<b>(0.06010)</b>	<b>(0.07093)</b>	<b>(0.06695)</b>	<b>(0.05934)</b>	<b>(0.07267)</b>	<b>(0.07267)</b>	<b>(0.07267)</b>	<b>(0.05807)</b>	<b>(0.04448)</b>
Green Rate Premium (2018)	0.03135	0.01955	0.03505	0.02898	0.02968	0.03231	0.03564	0.04139	0.02257	0.02664	0.03323	0.03054	0.03054	0.03054	0.04089	0.04663

## Schedule GTSR – Community Renewables (CR)

Rate Component	Residential	GS-1	TC-1	GS-2	TOU-GS	TOU-8- Sec	TOU-8- Pri	TOU-8- Sub	TOU-8- Sec-S	TOU-8- Pri-S	TOU-8- Sub-S	PA-1	PA-2	TOU PA- 2	TOU PA- 3	STLights
<b>Charges (\$/kWh)</b>																
Renewable Power Rate	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PCIA	0.01877	0.01204	0.00852	0.01565	0.01296	0.01132	0.01049	0.01000	0.00232	0.00240	0.00142	0.01000	0.01000	0.01000	0.01165	0.00757
CTC	0.00075	0.00048	0.00034	0.00063	0.00052	0.00045	0.00042	0.00040	0.00009	0.00010	0.00006	0.00040	0.00040	0.00040	0.00047	0.00030
WREGIS Charge	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
CAISO Grid Charge	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050
RA Adjustment	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific
RIC Charge	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Administrative Charge	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085	0.00085
ME&O Charge	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003
Total Charges	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific
<b>Credits</b>																
Class Average																
Generation Credit	(0.08689)	(0.08810)	(0.06640)	(0.08215)	(0.07780)	(0.07290)	(0.06837)	(0.06168)	(0.07332)	(0.06946)	(0.06083)	(0.07450)	(0.07450)	(0.07450)	(0.05966)	(0.04615)
TOD Adjustment	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific
Total Credits	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific
Community Renewables Credit	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific	CRF Specific

[1] CRF Specific: Community Renewables Facility specific

## Renewable Power Rate (RPR) and Resource Adequacy (RA) Adjustment

### Generation Rate (Cents/kWh)

Portfolio	2018
GTSR Dedicated Procurement Pool	7.520

### RA Charge (Cents/kWh)

Portfolio	2018
GTSR Dedicated Procurement Pool	0.622

FF&U Factor 0.988525

### Generation Rate (\$/kWh)

	2018
GTSR Dedicated Procurement Pool	0.07607

### RA Charge (\$/kWh)

	2018
GTSR Dedicated Procurement Pool	0.00629

## Time-of-Delivery (TOD) Adjustment

2016

Rate Group	Normalized Difference Between Class and Generator	Total Cost of Serving Class	TOD Adjustment Factor	1/1/16 Rates Class Avg Gen Rate	TOD Adjustment
Residential	9,773	415,179	2.3538%	0.06874	0.00162
TOU PA-2	31,430	393,522	7.9867%	0.05701	0.00455
TOU PA-3	34,591	390,361	8.8612%	0.04520	0.00401
GS-1	18,526	406,426	4.5582%	0.06925	0.00316
TC-1	30,916	394,036	7.8459%	0.05201	0.00408
GS-2	17,479	407,473	4.2896%	0.06121	0.00263
TOU-GS	20,544	404,407	5.0801%	0.05684	0.00289
TOU-8-Sec	23,979	400,973	5.9802%	0.05867	0.00351
TOU-8-Pri	27,235	397,716	6.8479%	0.05514	0.00378
TOU-8-Sub	29,880	395,072	7.5631%	0.04563	0.00345
TOU-8-Sec-S	25,128	399,824	6.2847%	0.05594	0.00352
TOU-8-Pri-S	26,885	398,067	6.7538%	0.05393	0.00364
TOU-8-Sub-S	32,094	392,857	8.1694%	0.04432	0.00362
StLights	50,304	374,648	13.4270%	0.03577	0.00480



**2017**

Rate Group	Normalized Difference Between Class and Generator [\$]	Total Cost of Serving Class [\$]	TOD Adjustment Factor	1/1/17 Rates Class Avg Gen Rate [\$/kWh]	TOD Adjustment [\$/kWh]
Residential	(35,339)	308,999	-11.4%	0.07477	(0.00855)
TOU PA-2	(15,771)	289,431	-5.4%	0.06152	(0.00335)
TOU PA-3	(15,231)	288,891	-5.3%	0.05109	(0.00269)
GS-1	(20,515)	294,175	-7.0%	0.07599	(0.00530)
TC-1	(11,774)	285,434	-4.1%	0.05715	(0.00236)
GS-2	(20,308)	293,968	-6.9%	0.07103	(0.00491)
TOU-GS	(17,739)	291,399	-6.1%	0.06705	(0.00408)
TOU-8-Sec	(16,601)	290,261	-5.7%	0.06313	(0.00361)
TOU-8-Pri	(15,694)	289,354	-5.4%	0.05919	(0.00321)
TOU-8-Sub	(13,324)	286,984	-4.6%	0.05395	(0.00250)
TOU-8-Sec-S	(16,396)	290,056	-5.7%	0.06311	(0.00357)
TOU-8-Pri-S	(16,957)	290,617	-5.8%	0.05978	(0.00349)
TOU-8-Sub-S	(12,768)	286,428	-4.5%	0.05235	(0.00233)
StLights	(20,619)	294,279	-7.0%	0.03972	(0.00278)

## 2018

Rate Group	Normalized Difference Between Class and Generator [\$]	Total Cost of Serving Class [\$]	TOD Adjustment Factor	01/01/2018 Rates Class Avg Gen Rate [\$/kWh]	TOD Adjustment [\$/kWh]
Residential	(51,064)	282,799	-18.1%	0.08589	(0.01551)
TOU PA-2	(22,657)	254,392	-8.9%	0.07365	(0.00656)
TOU PA-3	(26,100)	257,835	-10.1%	0.05897	(0.00597)
GS-1	(29,150)	260,885	-11.2%	0.08709	(0.00973)
TC-1	(23,687)	255,422	-9.3%	0.06564	(0.00609)
GS-2	(28,037)	259,772	-10.8%	0.08121	(0.00876)
TOU-GS	(24,486)	256,221	-9.6%	0.07691	(0.00735)
TOU-8-Sec	(24,093)	255,828	-9.4%	0.07207	(0.00679)
TOU-8-Pri	(24,410)	256,145	-9.5%	0.06759	(0.00644)
TOU-8-Sub	(23,309)	255,044	-9.1%	0.06098	(0.00557)
TOU-8-Sec-S	(24,591)	256,325	-9.6%	0.07248	(0.00695)
TOU-8-Pri-S	(28,438)	260,173	-10.9%	0.06866	(0.00751)
TOU-8-Sub-S	(24,051)	255,786	-9.4%	0.06013	(0.00565)
StLights	(41,215)	272,950	-15.1%	0.04562	(0.00689)

### 3-Year Average

	2016	2017	2018	2016	2017	2018	3-year Avg
	TOD Adjustment	TOD Adjustment	TOD Adjustment	TOD Adjustment, incl FF&U	TOD Adjustment, incl FF&U	TOD Adjustment, incl FF&U	TOD Adjustment
Residential	0.00162	(0.00855)	(0.01551)	0.00164	(0.00865)	(0.01569)	(0.00757)
TOU PA-2	0.00455	(0.00335)	(0.00656)	0.00461	(0.00339)	(0.00664)	(0.00181)
TOU PA-3	0.00401	(0.00269)	(0.00597)	0.00405	(0.00272)	(0.00604)	(0.00157)
GS-1	0.00316	(0.00530)	(0.00973)	0.00319	(0.00536)	(0.00984)	(0.00400)
TC-1	0.00408	(0.00236)	(0.00609)	0.00413	(0.00238)	(0.00616)	(0.00147)
GS-2	0.00263	(0.00491)	(0.00876)	0.00266	(0.00496)	(0.00887)	(0.00372)
TOU-GS	0.00289	(0.00408)	(0.00735)	0.00292	(0.00413)	(0.00744)	(0.00288)
TOU-8-Sec	0.00351	(0.00361)	(0.00679)	0.00355	(0.00365)	(0.00687)	(0.00232)
TOU-8-Pri	0.00378	(0.00321)	(0.00644)	0.00382	(0.00325)	(0.00652)	(0.00198)
TOU-8-Sub	0.00345	(0.00250)	(0.00557)	0.00349	(0.00253)	(0.00564)	(0.00156)
TOU-8-Sec-S	0.00352	(0.00357)	(0.00695)	0.00356	(0.00361)	(0.00703)	(0.00236)
TOU-8-Pri-S	0.00364	(0.00349)	(0.00751)	0.00368	(0.00353)	(0.00759)	(0.00248)
TOU-8-Sub-S	0.00362	(0.00233)	(0.00565)	0.00366	(0.00236)	(0.00572)	(0.00147)
StLights	0.00480	(0.00278)	(0.00689)	0.00486	(0.00282)	(0.00697)	(0.00164)

## Administrative and ME&O Charges

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
<b>Green Tariff Shared Renewables (GTSR) [USD]</b>											
Admin - Operating Expenses		\$ 543,536	\$ 48,804	\$ 30,804	\$ 23,100	\$ 25,410	\$ 25,410	\$ 25,410	\$ 27,951	\$ 27,951	\$ 27,951
Admin - Operating Revenues	(\$4,646)	(\$12,759)									
<b>Green Rate [USD]</b>											
ME&O - Operating Expenses		\$ 374,888	\$ 21,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ME&O - Operating Revenues	(\$2,544)	(\$6,997)									
<b>Enhanced Community Renewables (ECR) [USD]</b>											
ME&O - Operating Expenses		\$ 14,153	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ME&O - Operating Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Annual Subscription Level [kWh]</b>											
Green Rate (GR)	1,458,647	4,470,246	5,874,452	31,731,602	66,272,273	100,848,887	100,427,944	100,046,388	99,700,613	99,387,270	99,103,318
Enhanced Community Renewables (ECR)	0	0	0	26,280,000	61,320,000	96,360,000	96,360,000	96,360,000	96,360,000	96,360,000	96,360,000
<b>% Change in Total Annual Subscription Level, Year over Year</b>											
GTSR Total		206%	31%	440%	109%	52%	0%	0%	0%	0%	0%
Green Rate (GR)		206%	31%	-7%	-9%	-9%	-9%	-9%	-9%	-9%	-9%

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
<b>Green Tariff Shared Renewables (GTSR) [USD]</b>											
Admin - Operating Expenses	\$ 30,746	\$ 30,746	\$ 30,746	\$ 33,821	\$ 33,821	\$ 33,821	\$ 37,203	\$ 37,203	\$ 37,203	\$ 40,923	\$ 40,923
Admin - Operating Revenues											
<b>Green Rate [USD]</b>											
ME&O - Operating Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ME&O - Operating Revenues											
<b>Enhanced Community Renewables (ECR) [USD]</b>											
ME&O - Operating Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ME&O - Operating Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Annual Subscription Level [kWh]</b>											
Green Rate (GR)	98,846,000	98,612,818	98,401,508	71,930,019	66,175,617	60,881,568	56,011,042	51,530,159	47,407,746	43,615,126	40,125,916
Enhanced Community Renewables (ECR)	2,486,000	2,252,818	2,041,508	1,850,019	1,702,017	1,565,856	1,440,587	1,325,340	1,219,313	1,121,768	1,032,027
<b>% Change in Total Annual Subscription Level, Year over Year</b>											
GTSR Total	0%	0%	0%	-27%	-8%	-8%	-8%	-8%	-8%	-8%	-8%
Green Rate (GR)	-9%	-9%	-9%	-9%	-8%	-8%	-8%	-8%	-8%	-8%	-8%

	SCE (2018), amortized over life of GTSR Program (until 12/31/2037)	Check by PMT() formula
Administrative Charge [\$/kWh]	\$ 0.00084	\$ 0.00084
ME&O Charge [\$/kWh]		
Green Rate (GR)	\$ 0.00728	\$ 0.00728
Enhanced Community Renewables (ECR)	\$ 0.00003	\$ 0.00003
FF&U Factor	0.988525	\$ 0.988525
Administrative Charge <b>(with FF&amp;U)</b> [\$/kWh]	\$ 0.00085	\$ 0.00085
ME&O Charge <b>(with FF&amp;U)</b> [\$/kWh]		
Green Rate (GR)	\$ 0.00737	\$ 0.00737
Enhanced Community Renewables (ECR)	\$ 0.00003	\$ 0.00003

## Class Average Generation Credit (CAGC)

	RaTe Schedule By CusTomer Group	MWh (M)	URGRev Revenue (\$M)	DWRRev Revenue (\$M)	Gen Credit (\$/kWh)
Domestic					
	D	18,026,188	1,548,269	0	0.08589
	D-CARE	6,620,435	568,629	0	0.08589
	D-APS	1,159,029	99,549	0	0.08589
	DE	108,076	9,283	0	0.08589
	DM	97,251	8,353	0	0.08589
	DMS-1	35,108	3,015	0	0.08589
	DMS-2	481,778	41,380	0	0.08589
	Group Total	26,527,863	2,278,478	0	0.08589
Lighting-SM Med Power					
	GS-1	5,845,306	509,047	0	0.08709
	GS-2	11,442,129	929,165	0	0.08121
	GS-2-S	0	0	0	#DIV/0!
	TC-1	55,713	3,657	0	0.06564
	TOU-GS	6,005,016	461,849	0	0.07691
	Group Total	23,348,164	1,903,718	0	0.08154
Large Power					
	TOU-8-S	6,032,858	434,773	0	0.07207
	TOU-8-P	3,771,499	254,905	0	0.06759
	TOU-8-T	3,770,480	229,912	0	0.06098
	TOU-8-S-S	175,020	12,686	0	0.07248
	TOU-8-S-P	541,414	37,175	0	0.06866
	TOU-8-S-T	1,800,349	108,257	0	0.06013

RaTe Schedule By CusTomer Group	MWh (M)	URGRev Revenue (\$M)	DWRRev Revenue (\$M)	Gen Credit (\$/kWh)
Group Total	16,091,621	1,077,707	0	0.06697
Agricultural & Pumping				
PA-1				0.07365
PA-2				0.07365
TOU-PA-2	1,811,057	133,377	0	0.07365
TOU-PA-3	1,417,127	83,575	0	0.05897
Group Total	3,228,183	216,952	0	0.06721
Street & Area Lighting				
LS-1	333,232	15,202	0	0.04562
LS-2	99,467	4,538	0	0.04562
LS-3	213,844	9,756	0	0.04562
DWL	2,079	95	0	0.04562
OL-1	11,639	531	0	0.04562
Group Total	660,259	30,121	0	0.04562
Total 5 Cust Gps.	69,856,091	5,506,976	0	0.07883

## CAISO

	Market Service Charge	Systems Operations Charge	CRR Services Charge	EIR Forecast Fee	Sum	CAISO (grossed up for Franchise Fee & Uncollectibles (FF&U) Expense)
Cost per MWh	0.10510	0.28340	0.00430	0.10000	0.49280	0.49852
Cost per kWh	0.00011	0.00028	0.00000	0.00010	0.00049	0.00050

### Comparison of Rates (\$ per unit)

Charge Code	Service Category	2018 Rate	2017 Rate	\$ Variance	Comments
4560	Market Service Charge	\$0.1051	\$0.0854	\$0.0197	Rate increased due to higher allocation of RR to the Market Services category and lower projected volumes.
4561	Systems Operations Charge	\$0.2834	\$0.3025	(\$0.0191)	Rate decreased due to lower allocation of RR to the System Operations category offset by higher projected volumes.
4562	CRR Services Charge	\$0.0043	\$0.0059	(\$0.0016)	Rate decreased due to lower allocation of RR to the CRR Services category. Projected volumes remain the same.

The rates for bid segment fees, inter-SC trade fees, SCID fees, TOR fees and CRR auction bid fees are fixed and remain unchanged from 2017.

**Source:** CAISO. "Comparison of Rates (\$ per unit)." *2018 Budget and Grid management Charge Rates - Draft*. Oct 2017. pp. 56.

[https://www.caiso.com/Documents/FY2018\\_DraftBudget-GridManagementChargeRatesBook.pdf](https://www.caiso.com/Documents/FY2018_DraftBudget-GridManagementChargeRatesBook.pdf)



## WREGIS

	Issuance Fee	Retirement Fee	WREGIS	WREGIS (grossed up for Franchise Fee & Uncollectibles (FF&U) Expense)
Cost per REC (REC required for each MWh)	0.005	0.005	0.01	0.01012
Cost per kWh	0.000005	0.000005	0.00001	0.00001

## WREGIS FEE MATRIX

144

Annual and Volumetric Fees					
Account Holder Types	Total GU Size Per WREGIS Account	Annual	Issuance	Transfer	Retire, Reserve, or Export
1 <b>GU Micro</b> <i>(Generating Unit Owner / Representative Only)</i>	30 KW or Less	\$50.00	None	None	None
1 <b>GU Small</b> <i>(Generating Unit Owner / Representative Only)</i>	30 KW - 1 MW	\$75.00	None	None	None
1 <b>GU Medium</b> <i>(Generating Unit Owner / Representative Only)</i>	1 MW - 10 MW	\$100.00	None	None	None
<b>One or more types below may be selected - the annual fee will remain \$125.00 per account</b>					
1 <b>GU Large</b> <i>(Generating Unit Owner / Representative Only)</i>	10 MW or More	\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
2 <b>Load Serving Entities</b> <i>(Municipal Utility, Irrigation District, Joint Power Authority, Investor-Owned Utility, Rural Electric Cooperative, Electric Service Provider)</i>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
3 <b>Retail Marketers</b> <i>(Federal Marketer / Power Administrator)</i>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
4 <b>Wholesale Marketers</b> <i>(Federal Marketer / Power Administrator)</i>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
5 <b>Utility Aggregators</b>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
6 <b>Generating Unit Aggregators</b> <i>(Community Choice Aggregator)</i>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
7 <b>Account Holder Other</b> <i>(Broker, Public Interest Organization, Tribal Organization)</i>		\$125.00	\$0.005 / Certificate	\$0.005 / Certificate	\$0.005 / Certificate
Reports and Other Service Fees					
Report / Service Type	Email	Hardcopy	Monthly	Per Transaction	
Authorized Report	\$25.00	\$50.00			
WREGIS Deliverability (e-Tag) User			\$212.00		
Change Control					Variable
International Wire Transfer					\$20.00
Fuel and/or Aggregated Meter Modifications (per generator and vintage)					\$75.00
Failure to complete Generating Unit Annual Review (per generator)					\$50.00

## PCIA and CTC

Rates Effective 1/1/2018 (2018 ERRA Rates, 2018 Vintage Non-Continuous)

### ERRA CRS Rates

2018 ERRA Forecast - November filing

Rate Group	DWRBC (All Vintages)	CTC (For All Vintages)	PCIA 2001 Vintage	PCIA 2004 Vintage	PCIA 2009 Vintage	PCIA 2010 Vintage	PCIA 2011 Vintage	PCIA 2012 Vintage	PCIA 2013 Vintage	PCIA 2014 Vintage	PCIA 2015 Vintage	PCIA 2016 Vintage	PCIA 2017 Vintage	PCIA 2018 Vintage
Domestic	0.00549	0.00075	0.00736	0.00736	0.01543	0.01764	0.02007	0.02052	0.02036	0.01994	0.01935	0.01876	0.01877	0.01877
GS-1	0.00549	0.00048	0.00472	0.00472	0.00990	0.01132	0.01288	0.01317	0.01306	0.01280	0.01241	0.01204	0.01204	0.01204
TC-1	0.00549	0.00034	0.00334	0.00334	0.00701	0.00801	0.00911	0.00932	0.00925	0.00906	0.00879	0.00852	0.00852	0.00852
GS-2	0.00549	0.00063	0.00614	0.00614	0.01286	0.01470	0.01673	0.01711	0.01697	0.01663	0.01613	0.01564	0.01565	0.01565
TOU-GS-3	0.00549	0.00052	0.00508	0.00508	0.01065	0.01218	0.01386	0.01417	0.01406	0.01377	0.01336	0.01296	0.01296	0.01296
TOU-8-Sec	0.00549	0.00045	0.00444	0.00444	0.00930	0.01063	0.01210	0.01237	0.01228	0.01202	0.01166	0.01131	0.01132	0.01132
TOU-8-Pri	0.00549	0.00042	0.00411	0.00411	0.00862	0.00986	0.01121	0.01147	0.01138	0.01115	0.01081	0.01049	0.01049	0.01049
TOU-8-Sub	0.00549	0.00040	0.00392	0.00392	0.00822	0.00939	0.01069	0.01093	0.01084	0.01062	0.01030	0.00999	0.01000	0.01000
TOU-PA-2	0.00549	0.00047	0.00457	0.00457	0.00958	0.01095	0.01246	0.01274	0.01264	0.01238	0.01201	0.01165	0.01165	0.01165
TOU-PA-3	0.00549	0.00030	0.00297	0.00297	0.00622	0.00711	0.00809	0.00828	0.00821	0.00804	0.00780	0.00757	0.00757	0.00757
St. Lighting	0.00549	-	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
Standby - Sec	0.00549	0.00009	0.00091	0.00091	0.00190	0.00218	0.00248	0.00253	0.00251	0.00246	0.00239	0.00232	0.00232	0.00232
Standby - Pri	0.00549	0.00010	0.00094	0.00094	0.00197	0.00226	0.00257	0.00263	0.00261	0.00255	0.00248	0.00240	0.00240	0.00240
Standby - Sub	0.00549	0.00006	0.00056	0.00056	0.00117	0.00134	0.00152	0.00156	0.00154	0.00151	0.00147	0.00142	0.00142	0.00142

DWRBC Per 10/30/2017 PD

**[1] DWRBC:** Department of Water Resources (DWR) Bond Charge. The DWR Bond Charge is not applicable to exempt Bundled Service and Direct Access Customers, as defined in and pursuant to D.02-10-063, D.02-02-051, and D.02-12-082.

**[2] CTC:** A non-bypassable charge applicable to all existing and future SCE Bundled Service Customers, all Direct Access Customers, and all Departing Load Customers for recovery of SCE's transition costs.