

# SCE 2019 Rate Update

Association of Energy Engineers SoCal meeting  
January 24, 2019

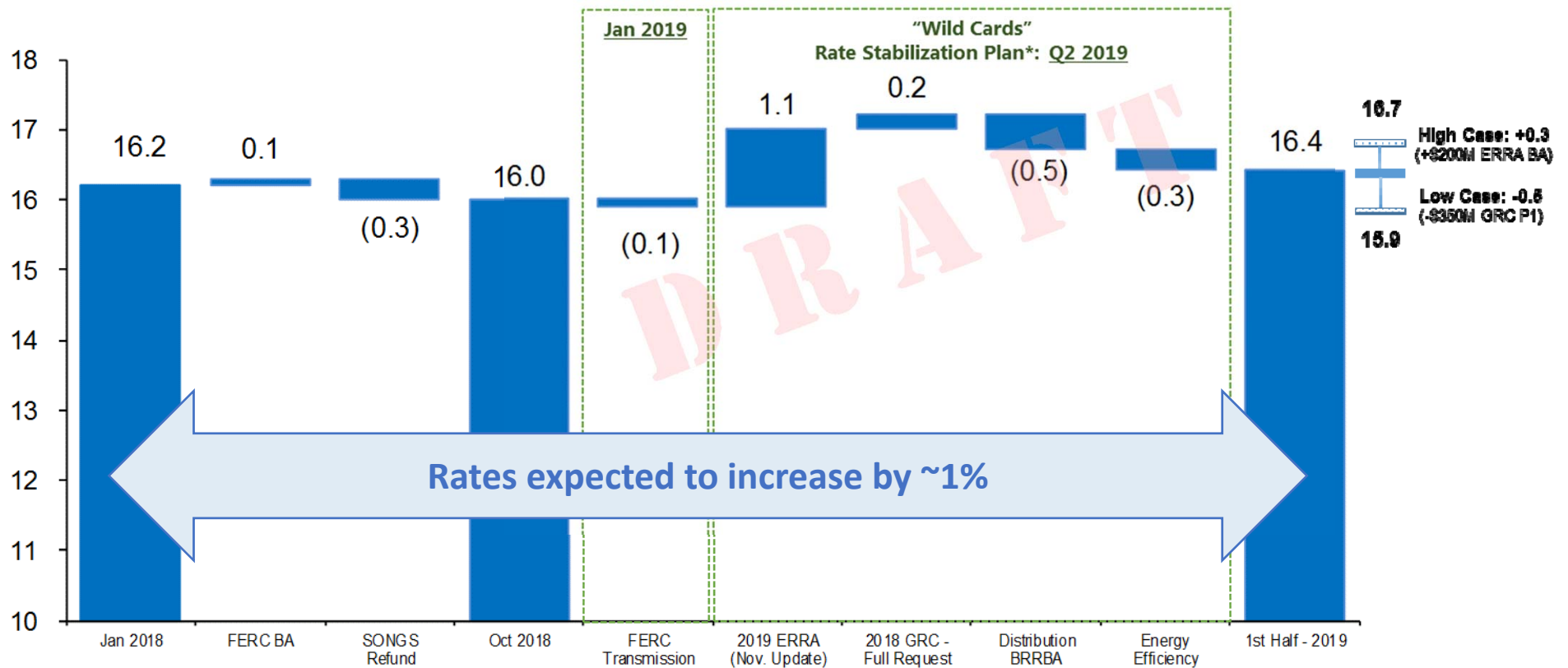
Energy for What's Ahead<sup>®</sup>



# Estimated 2019 System Average Rate

- Bundled Service (cents/kWh) | Rate Levels include EITE & Climate Dividend

Preliminary rate level is estimated based on SCE's latest forecast and is subject to change based on future CPUC decisions in various proceedings & market



\* SCE's alternate implementation proposal to address a possible delay in its 2019 ERRA implementation due to unsettled issues related to the Power Charge Indifference Adjustment (PCIA)

## Recent SAR History

January 2015 – 16.2 cents/kWh  
 January 2016 – 15.0 cents/kWh  
 January 2017 – 15.8 cents/kWh

# Estimated 2019 Class Average Rates

- Bundled Service (cents/kWh) | Rate Levels exclude EITE & Climate Dividend

**Preliminary rate level is estimated based on SCE's latest forecast and is subject to change based on future CPUC decisions in various proceedings & market**

		Jan 2018	1st Half - 2019	% Change	Jan 2018 % of SAR	1st Half - 2019 % of SAR
<b>Total Residential</b>	<b>Residential</b>	19.5	19.8	1.6%	116%	118%
Small C&I (< 20 kW)	TOU-GS-1	17.8	17.6	-0.9%	106%	105%
Traffic Control	TC-1	19.1	18.9	-0.9%	114%	113%
Medium C&I (20 kW - 200 kW)	TOU-GS-2	18.1	18.0	-0.9%	108%	107%
Medium C&I (200 kW - 500 kW)	TOU-GS-3	16.0	15.9	-0.9%	96%	95%
<b>Total Lighting/Small/Medium C&amp;I</b>	<b>Total LSMP</b>	17.5	17.3	-0.9%	105%	103%
Large C&I (Sec)	TOU-8-SEC	14.2	14.2	-0.3%	85%	84%
Large C&I (Pri)	TOU-8-PRI	12.9	12.8	-0.3%	77%	76%
Large C&I (Sub)	TOU-8-SUB	9.0	9.0	-0.3%	54%	53%
<b>Total Large C&amp;I</b>	<b>Total Large Power</b>	12.3	12.3	-0.3%	74%	73%
Small Ag & Pump (<200 kW)	TOU-PA-2	14.8	14.7	-0.9%	89%	87%
Large Ag & Pump (≥ 200 kW)	TOU-PA-3	12.0	12.2	1.4%	72%	73%
<b>Total Ag &amp; Pumping</b>	<b>Total Ag &amp; Pumping</b>	13.6	13.6	0.0%	81%	81%
<b>Total Street &amp; Area Lighting</b>	<b>Street Lighting</b>	18.5	18.8	1.6%	111%	112%
Standby (Sec)	TOU-8-SEC-S	14.5	14.4	-0.9%	87%	86%
Standby (Pri)	TOU-8-PRI-S	13.8	13.7	-0.9%	83%	82%
Standby (Sub)	TOU-8-SUB-S	9.0	9.0	0.0%	54%	54%
<b>Total Standby</b>	<b>Total Standby</b>	10.4	10.4	-0.3%	62%	62%
<b>TOTAL BUNDLED</b>	<b>TOTAL BUNDLED</b>	16.7	16.8	0.3%	100%	100%

# March 1, 2019 "Pot of Stew"

(Not a comprehensive list of all rate change components)

## RECIPE

2016 Rate Design Window (D.18-07-006) adopted:

- New Time-of-Use (TOU) Periods
- Critical Peak Pricing (CPP) expansion; reduced credits/charges phased-in over two years
- Real Time Pricing (RTP) changes and add Time Related Demand (TRD) charges

## RECIPE

Transportation Electrification (D.18-05-040) adopted:

- New Electric Vehicles (EV) rates for Commercial & Industrial (C&I) customers



## RECIPE

2018 GRC Phase 2 adopted:

- New rate options: D and E
- Elimination of Super Off-Peak (SOP) rates for Ag customers
- New optional 5-8 p.m. peak period rates for Ag customers
- Economic Development Rates (EDR)

## RECIPE

2018-22 Demand Response (DR) Program (D.17-12-003) adopted:

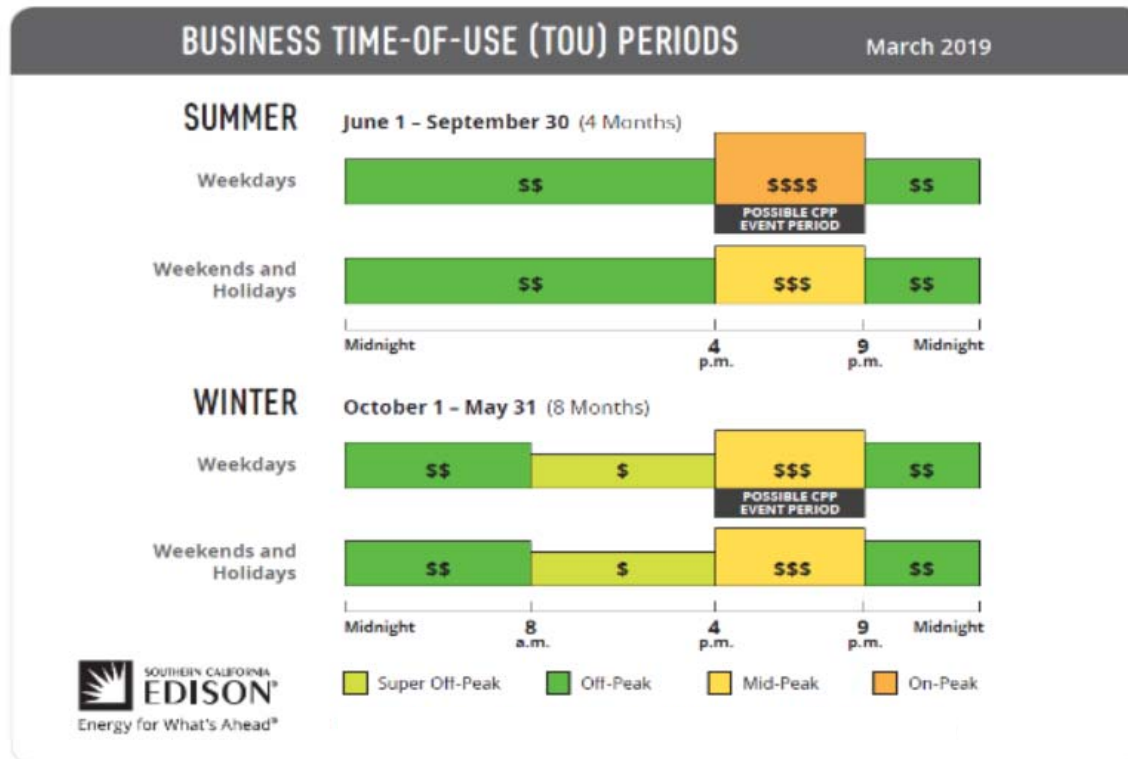
- Phase in reduced Base Interruptible Program (BIP) incentive payments below current levels by about 10% per year over the next 4 years.

## RECIPE

Time-Of-Use (TOU):

- Grandfathered eligibility for solar Net-Energy Metering (NEM) customers

# New Time-Of-Use (TOU) Periods



- Shifts daily “peak” period to 4-9 p.m. (currently noon to 6 p.m.)
- Introduces “super off-peak” period from 8 a.m.-4 p.m. on all Winter days
- Introduces TOU to weekend charges (currently all weekend hours are “off-peak”)
- Maintains existing seasonal definitions (Summer: June-Sept; Winter: Oct-May)

The Time-of-Use (TOU) peak period applies to “standard” TOU rates defined as follows: TOU-8, TOU-GS-3, TOU-GS-2, TOU-GS-1, TOU-PA-3, & TOU-PA-2. CPP events occur on weekdays and will take place 12 times per year.

# 2018 GRC Phase 2 + Other Key Changes

## New Rate Options

- **Option D (replacement for Option B Base Rate)**
- Includes the addition of a winter mid-peak distribution TRD (non-holiday weekdays only)
- Maintains existing eligibility requirements
  
- **Option E\* (replacement for Options A & R Optional Rates)**
- Includes a new generation TRD charge in the summer on-peak and winter mid-peak (non-holiday weekdays only)
- Customers w/ DERs are exempt from Standby if served on this rate option
  
- **New Optional Ag & Pump Rate**
- In addition to the 4-9pm standard option, a 5-8pm option will be available

## Critical Peak Pricing (CPP)

- **Overview**
- CPP offers a discount on summer electricity rates in exchange for higher prices during 12 CPP event days per year between 4 p.m. and 9 p.m., usually occurring on the hottest summer days
  
- **Default**
- Applies to all General Service and Large Ag & Pump customers; departing load customers not eligible
- Default to begin Mar. 2019 for all eligible accounts; annual default will start in October of 2020 for eligible accounts thereafter
- CPP is an optional rate; there is a 60-day period to Opt Out of CPP before defaulting

## Real Time Pricing (RTP)

- Reduce from 5 to 3 summer weekday pricing categories
  
- Introduces year-round Time Related Demand (TRD) charges

## Economic Development Rate (EDR)

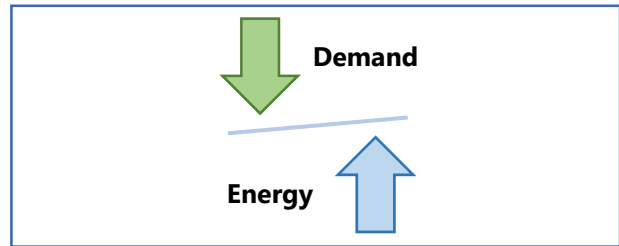
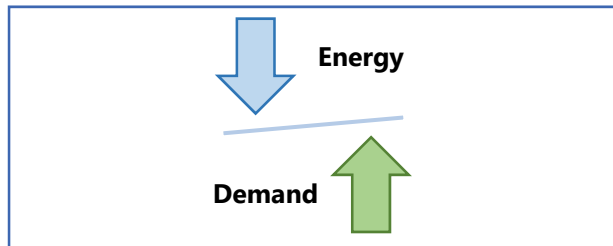
- Offers a standard 12% discount – 5 year contract
  
- 200 MW cap
  
- Eligible accounts must be ≥ 150kW non-residential, non-government accounts (max of 20 customers can participate w/loads less than 150kW)

\* Option E is limited to customers w/ qualifying technologies, including technologies currently eligible for TOU-8, Options A and R and BTM paired storage (solar+storage) and standalone storage

Option D vs. E  
(Illustrative TOU-GS-2 Rate Examples)

Option **D** recovers more costs via **demand** charges  
(tends to benefit higher load factor customers)

Option **E** recovers more costs via **energy** charges  
(tends to benefit lower load factor / DER customers)



Energy Charge - ¢/kWh		
Summer On-Peak	10.6	46.4
Summer Mid-Peak	9.8	16.0
Summer Off-Peak	7.3	11.0
Winter Mid-Peak	8.7	14.6
Winter Off-Peak	7.8	8.2
Winter Super-Off-Peak	6.0	7.3
Customer Charge - \$/month	125.25	125.25
Facilities Related Demand Charge (FRD) - \$/kW	11.41	8.19
Time Related Demand Charge (TRD) - \$/kW		
Summer On-Peak	26.81	3.46
Summer Mid-Peak	0.00	0.00
Winter Mid-Peak	6.98	0.74
Winter Off-Peak	0.00	0.00
CPP Event Energy Charge - ¢/kWh	40.0	40.0
Summer Non-Event Demand On-Peak Credit - \$/kW	(3.42)	(3.42)

# Rate Plan Comparison Tool (RPCT)

- SCE has launched a new tool with rate analysis results available directly to customers
- Visit [www.sce.com/ratetool](http://www.sce.com/ratetool) and login with your MyAccount credentials

**Rate Plan Comparison Tool for Businesses**

Find out which rate plan is best for your bottom line. Use the tool to get a custom comparison between your current rate plan and other rate plan options.

**Important Rate Plan Changes are Coming**

Starting in **March 2019**, there will be rate plan changes that may affect your business. Use the Rate Plan Comparison Tool below to find out how your account(s) are affected.

**🕒 Time-of-use (TOU) Peak Periods are Changing.**

Lowest energy prices until 4 p.m. every day

[Learn more about TOU changes >](#)

**🔔 Some Businesses will be automatically enrolled in Critical Peak Pricing (CPP)**

Check out the program details to see if CPP can help lower your energy costs.

[Learn more about CPP >](#)


Be sure to [update your contact preferences](#) so that you receive notifications for CPP events.

**Use the Tool to Compare Your Rate Options**

- Get estimates based on your past usage.
- See how your monthly bills and average seasonal costs, could change with different rate plans.
- Choose and switch plans now.

*Note: Your service account(s) must have 12 months of usage.*

[Use the Rate Plan Comparison Tool >](#)





# Appendix

# Acronyms

**A** = Application

**Ag** = Agricultural

**B** = Billion

**BA** = Balancing Account

**BIP** = Base Interruptible Program

**BRRBA** = Base Revenue Requirement Balancing Account

**CARE** = California Alternate Rates for Energy

**CCA** = Community Choice Aggregation

**C&I** = Commercial & Industrial

**CPP** = Critical Peak Pricing

**CPUC/Commission** = California Public Utilities Commission

**D** = Decision

**DA** = Direct Access

**DR** = Demand Response

**EDR** = Economic Development Rate

**EITE** = Emissions Intensive and Trade Exposed

**ERRA** = Energy Resource Recovery Account

**F&PP** = Fuel and Purchased Power

**FERC** = Federal Energy Regulatory Commission

**GRC** = General Rate Case

**kW** = kilowatt

**kWh** = kilowatt hour

**M** = Million

**MPB** = Market Price Benchmark (MPB)

**MMBtu** = Million British Thermal Units

**PCIA** = Power Charge Indifference Adjustment

**RTP** = Real Time Pricing

**SCE** = Southern California Edison

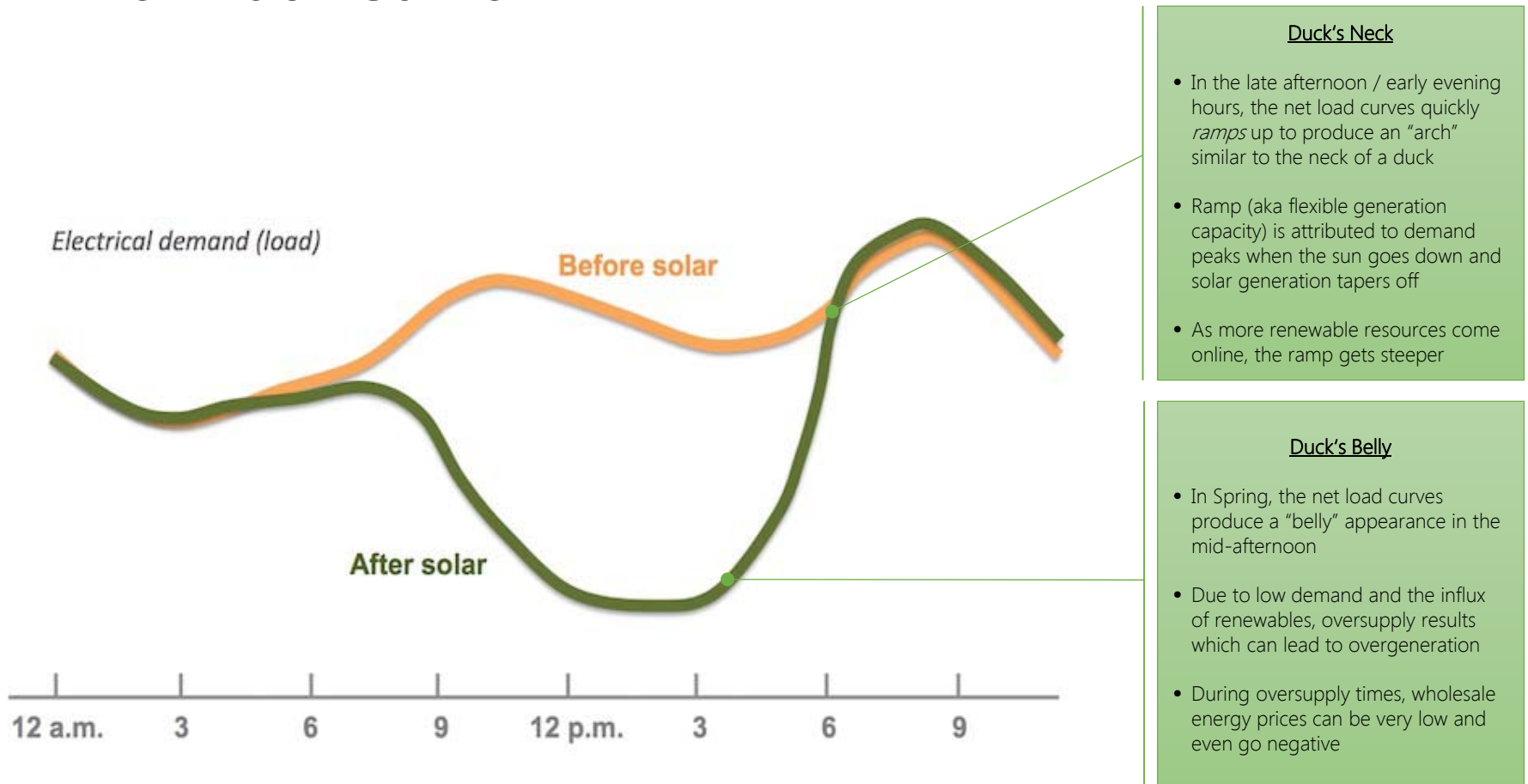
**SAR** = System Average Rate

**SONGS** = San Onofre Nuclear Generation Station

**TOU** = Time-of-Use

**TRD** = Time Related Demand

# The "Duck Curve"



# Time-of-Use Period Change

TOU Period	Season	Current	New
On-Peak	Summer	Weekdays: 12pm-6pm	Weekdays: 4-9pm
Mid-Peak	Summer	Weekdays: 8am-12pm; 6pm-11pm	Weekends: 4-9pm
	Winter	Weekdays: 8am-9pm	Weekdays and Weekends: 4-9pm
Off-Peak	Summer	Weekdays: 11pm-8am Weekends: All hours	Weekdays and Weekends: All hours except 4-9pm
	Winter	Weekdays: 9pm-8am Weekends: All hours	Weekdays and Weekends: 9pm-8am
Super-Off-Peak	Winter	N/A	Weekdays and Weekends: 8am-4pm

# Rate Proceeding Updates

- 2019 Energy Resource Recovery Account (ERRA) | A.18-05-003

## Status / Implementation

**Current Status:** Filed Update Testimony on Nov. 7, 2018 to update latest sales forecast assumptions  
**Implementation:** Requested January 1, 2019 (likely Q2 2019)

## Highlights

1. SCE requested approval of a 2019 ERRA revenue requirement of \$4.785B
  - Increase of ~\$999M from SCE's June forecast filing
  - Increase of ~\$209M over current authorized ERRA rate levels
2. Main drivers:
  - Significant ERRA under-collection due to July/August 2018 market price spikes
  - Increased forecast gas and power prices for 2019 (May: \$2.26/MMBtu -> Nov: \$2.51/MMBtu)
3. SCE proposed to assign a pro-rata (~23%) share of the 2018 ERRA Undercollection to 2019 departing load customers (see next slide)
4. The 2019 semi-annual California Residential Climate Credit is set at \$33 per household

# Rate Proceeding Updates

- Power Charge Indifference Adjustment (PCIA) | R.17-06-026



## PCIA Charge

A charge that is applied to departing load customers and is designed to maintain bundled service customer indifference to departing load and CCA formation.

## Status / Implementation

**Current Status:** CPUC approvals received

**Implementation:** Requested January 1, 2019 (likely Q2 2019 as 5 Applications to Re-hear D.18-10-019 filed)

## Highlights

### 1. PCIA Exemption for CCA and DA CARE and Medical Baseline Customers

**ISSUE:** Departing load CARE and Medical Baseline customers receive a “double discount” because SCE already provides the full discount through their delivery rate.

Bundled service CARE and Medical Baseline customers have never been exempt from the same PCIA costs, which are included in their generation rate.

**D.18-07-009:** Eliminates the PCIA exemption by 1/1/19 to avoid continuing cost shifts to bundled service customers.

### 2. Reform PCIA Methodology

**ISSUE:** Current PCIA methodology is outdated and does not fairly apportion SCE’s generation procurement costs between bundled and departing load customers.

**D.18-10-019:**

- (1) Revises inputs to the Market Price Benchmark (MPB) used to calculate the PCIA
- (2) Caps future PCIA increases to 0.5¢/kWh per year, starting in 2020
- (3) Adopts a true-up mechanism consistent with ERRA proceeding
- (4) PCIA represents about \$420M/year for all departing load customers
- (5) Revises allocation of PCIA revenues to the various rate groups

# Rate Proceeding Updates

- 2018 General Rate Case (GRC) [Phase 1](#) | A.16-09-001



## GRC Phase 1

Forecasts amount of money it takes to operate the utility (i.e., O&M, capital expenditures) needed over a 3-year period (e.g. 2018-2020); Excludes fuel/purchased power, transmission revenues, and certain other costs.

### Status / Implementation

**Current Status:** Pending CPUC approval (*application filed Sept. 1, 2016*)  
**Implementation:** TBD – 1<sup>st</sup> Half 2019

### Highlights

1. Requested 2018 base revenue requirement of \$5.534B, \$106M or 0.38% decrease over presently authorized rates
2. Requested post test year increases: \$431M (7.2%) in 2019 and \$503M (9.4%) in 2020 over presently authorized rates
3. Reflected reductions resulting from the Federal Income Tax Legislation (aka The Tax Cuts and Jobs Act enacted on Dec. 22, 2017)\*

\* Fed Income Tax Legislation updates filed Feb. 16, 2018

# Rate Proceeding Updates

- 2018 General Rate Case (GRC) [Phase 2](#) | A.17-06-030



[GRC Phase 2](#)  
Ratesetting Phase; Allocation of the authorized revenue requirement (all CPUC jurisdictional) across customer classes; Does not result in any overall revenue changes, only reallocation of revenues between customer classes and rate designs.

## Status / Implementation

**Current Status:** Case fully settled and Final Decision (D.18-11-027) issued on Nov. 29, 2018 adopting all revenue allocation and rate design proposals for all customer classes

**Implementation:** March 1, 2019

## Highlights

### Key Changes

1. New rate designs using updated TOU periods
2. Introduction of time-differentiated distribution in rates
  - Significantly less recovery via non-coincident demand charges (“FRD”) in non-residential rates
3. Introduction of flexible capacity price signals in rates
  - Address duck curve “ramp” issues by including a capacity price signal in winter mid-peak period
4. Provide a menu of rate options; including **default Critical Peak Pricing** and new rate options for customers adopting DERs

### Key Takeaways

1. Customers whose usage is relatively less during peak periods or who **can** avoid usage in the new high cost periods (4-9pm, winter ramp) will see the **largest benefit** in terms of revenue allocation (e.g., 9-5 C&I customers, schools, etc.)
2. Customers whose usage is relatively more during peak periods or who **cannot** avoid usage in the new high cost periods will see the **largest increases** in terms of revenue allocation (e.g., residential, streetlights)