

**Schedule 33**  
**Retail Transmission Rates**

**Calculation of SCE Retail Transmission Rates**

Retail Base TRR: \$ - 1-BaseTRR WS, Line 86

Input cells are shaded yellow

**1) Derivation of "Total Demand Rate" and "Total Energy Rate":**

		Col 1 Note 1	Col 2	Col 3 Note 2	Col 4 Note 3	Col 5 Note 4	Col 6 Note 5	Col 7 Note 6	Col 8 Note 7	Col 9	Col 10 Note 8	Col 11 Note 8	Col 12 Note 8	Col 13	Col 14
				Sales Forecast Billing Determinants:											
			= Retail Base TRR * Line1:Col1	Sales Forecast (Not Including Backup)	Sales Forecast (Backup)	NEM Adjustment	Applies to supplemental kW demand charges	Applies to contracted standby kW demand charges	= (Line1:Col3 + Line1:Col4) - Line1:Col5	= Line1:Col2 / (Line1:Col8*10^6)	= Line1:Col2 / ((Line1:Col6 + Line1:Col7)*10^3)	Determinants: to be applied to the Supplemental kW demand charges,			
Line	CPUC Rate Group	12-CP factors	Total Allocated costs	GWh	Backup GWh	NEM GWh	Maximum demand - MW	Standby demand - MW	Billing Determinants with NEM Adjustment	Total energy rate - \$/kWh	Total demand rate - \$/kW-month	GWh	Maximum demand - MW	Standby demand - MW	Notes
1a	Domestic	- % \$	-	-	-	-	-	-	-	\$	-	-	-	-	
1b	GS-1	- % \$	-	-	-	-	-	-	-	\$	-	-	-	-	
1b <sub>2</sub>	GS-1 continued														Notes 8,9,10
1c	TC-1	- % \$	-	-	-	-	-	-	-	\$	-	-	-	-	
1d	GS-2	- % \$	-	-	-	-	-	-	-						
1e	TOU-GS-3	- % \$	-	-	-	-	-	-	-						
1f	TOU-8-SEC	- % \$	-	-	-	-	-	-	-						
1g	TOU-8-PRI	- % \$	-	-	-	-	-	-	-						
1h	TOU-8-SUB	- % \$	-	-	-	-	-	-	-						
1i	TOU-8-Standby-SEC	- % \$	-	-	-	-	-	-	-						
1j	TOU-8-Standby-PRI	- % \$	-	-	-	-	-	-	-						
1k	TOU-8-Standby-SUB	- % \$	-	-	-	-	-	-	-						
1l	TOU-PA-2	- % \$	-	-	-	-	-	-	-						
1m	TOU-PA-3	- % \$	-	-	-	-	-	-	-						
1n	Street Lighting	- % \$	-	-	-	-	-	-	-	\$	-	-	-	-	
1o	---														
2	Totals:	- % \$	-	-	-	-	-	-	-						

**2) Determination of Standby Demand Rates for Large Power (TOU-8) Rate Groups**

	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8						
	from Line1:Col2	from Line144:Col73	= Col1 / Col2 / 10^3 from Line44:Col4	= Line9:Col2 / Line9:Col3		from Line1:Col2	Note 11	= Col 6 / (Col 7 * 10^3)	= Line9:Col1 + Line9:Col4	from Line1:Col5	= Line9:Col6 / Line9:Col6 / 10^3			
	Standby Total Allocated costs	Standby Demand MW Adjusted 42-CP at backup load	Contracted Standby Demand Charge \$/kW Adjusted 42-CP at total load	Backup allocation factors	CPUC Rate Group	Non-Standby Allocated Costs	Sum of Standby and Non-Standby Demand	Supplemental kW demand Charge \$/kW	Backup revenue requirement	Standby demand - MW	Contracted standby kW demand Charge \$/kW			
9														
9a	TOU-8-Standby-SEC	\$ -	\$ -	\$ -	- %	TOU-8-SEC	\$ -	\$ -	\$ -	-	\$ -			
9b	TOU-8-Standby-PRI	\$ -	\$ -	\$ -	- %	TOU-8-PRI	\$ -	\$ -	\$ -	-	\$ -			
9c	TOU-8-Standby-SUB	\$ -	\$ -	\$ -	- %	TOU-8-SUB	\$ -	\$ -	\$ -	-	\$ -			
9d	---					---								

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**3) End-User Transmission Rates**

	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10
	= Col 2 + Col 3 from Line 1: Col 2	= Line 16: Col 24 - Line 16: Col 3	= Line 16: Col 7 * Line 1: Col 76 * 10^3		= Line 16: Col 2 / (Line 1: Col 8 * 10^6)	= Line 16: Col 2 / Line 1: Col 65 / 10^3	from Line 9: Col 37	= Line 16: Col 6 * 0.746	= Line 16: Col 7 * 0.746	
						Note 1340	Note 1444			

	CPUC Rate Group	Total Revenues Allocated to costs	Revenue associated with Supplemental Demand or Energy	Standby Demand Revenue	Energy Charge - \$/kWh	Supplemental Demand Charge - \$/kW-month	Contracted standby kW demand Charge - \$/kW-month	Supplemental Demand Charge - \$/HP-month	Contracted standby kW demand Charge - \$/HP-month	Notes
15	Domestic	\$ -	\$ -		\$ -					
16a	GS-1	\$ -	\$ -	\$ -	\$ -					Note 1542
16c	TC-1	\$ -	\$ -		\$ -					
16d	GS-2	\$ -	\$ -	\$ -	\$ -					
16e	TOU-GS-3	\$ -	\$ -	\$ -	\$ -					
16f	TOU-8-SEC	\$ -	\$ -		\$ -					
16g	TOU-8-PRI	\$ -	\$ -		\$ -					
16h	TOU-8-SUB	\$ -	\$ -		\$ -					
16i	TOU-8-Standby-SEC	\$ -	\$ -	\$ -	\$ -					
16j	TOU-8-Standby-PRI	\$ -	\$ -	\$ -	\$ -					
16k	TOU-8-Standby-SUB	\$ -	\$ -	\$ -	\$ -					
16l	TOU-PA-2	\$ -	\$ -	\$ -	\$ -			\$ -	\$ -	Note 1644
16m	TOU-PA-3	\$ -	\$ -	\$ -	\$ -					
16n	Street Lighting	\$ -	\$ -		\$ -					
16o	---									
17	Totals:	\$ -	\$ -	\$ -						

**Notes:**

- 1) See Col 9 of Lines 35a, 35b, 35c, etc.
- 2) Sales forecast in total Giga-watt hours usage, represents the customers' total annual GWh usage. Based on same forecast as Gross Load forecast in Schedule 32, Line 1, but at customer meter level.  
Does not include Backup GWh included in Column 4 (the sum of Column 3 and 4 equals total Sales Forecast).
- 3) Backup GWh represents the amount of electric service that is provided by SCE to a customer who has an onsite generating facility during unscheduled outages of the customer's on-site generator.  
Only applies to TOU-8-Standby-SEC, TOU-8-Standby-PRI, TOU-8-Standby-SUB Rate Groups.
- 43) Amount of energy included in the sales forecast that is not subject to transmission charges pursuant to the California Public Utilities Commission ("CPUC") approved Net Energy Metering Program.
- 54) Sales forecast pertaining to the sum of monthly maximum supplemental Mega-watt demand, applies to demand charge schedules
- 59) Sales forecast pertaining to the sum of monthly contracted standby Mega-watt demand, applies to standby schedules
- 76) Net Forecast in total Giga-watt hours usage - represents the customers' annual Net GWh, applicable to Non-Demand Charge Schedules such as Residential or Small General Service
- 87) Recorded sales from Sample meters adjusted for population - use to set the total demand rate for the optional time-of-use schedules within the GS-1 rate group
- 98) Line 1b2, Col 19 = Line 1b Col 98 \* Line 1b Col 19 \* 10^6
- 109) Total demand rate for the optional time-of-use schedules within the GS-1 rate group, Line 1b2:Col 109 = Line 1b2:Col 124 / ((Line 1b2:Col 10 / ((Line 1b:Col 124 + Line 1b:Col 132) \* 10^3)
- 11) Sum of the TOU-8-Standby and TOU-8-Non-Standby billing determinants in Line 1:Col 6
- 12) For TOU-8 Rates revenue = Supplemental Demand Charge on Line 9 Column 8 \* Maximum Demand on Lines 1 Column 6
- 1340) For optional time-of-use schedules within the GS-1 rate group (Line 16b:Col 6), = (Line 1b2:Col 110 - Line 16:Col 3) / Line 1b:Col 124 / 10^3
- 1444) For the non TOU-8-Standby rate group, it is the minimum of Line 16i:Col 7, or the total demand rate in Line 1:Col 109
- 1542) Applicable to time-of-use schedules within the GS-1 rate group
- 1643) Applicable to the optional schedules that contain horse power charge such as PA-1
- 17) GWh for TOU-8-Standby-SEC, TOU-8-Standby-PRI, TOU-8-Standby-SUB Rate Groups are placed in TOU-8-SEC, TOU-8-PRI, TOU-8-SUB Rate Groups respectively.

**Rate Schedules in each CPUC Rate Group:**

CPUC Rate Group	Rate Schedules included in Each Rate Group in the Rate Effective Period
Domestic	Includes Schedules D, D-CARE, D-FERA, TOU-D-T, TOU-EV-1, TOU-D-TEV, DE, D-SDP, D-SDP-O, DM, DMS-1, DMS-2, DMS-3, and DS.
Domestic (cont')	D (Option CPP), D-CARE (Option CPP), TOU-D-Option A, TOU-D-Option B, TOU-D-3
GS-1	Includes Schedules GS-1, TOU-EV-3, and TOU-GS-1 (Option A, B, RTP, CPP, Standby, GS-APS, GS-APS-E, and ME).
TC-1	Includes Schedules TC-1, Wi-Fi-1, and WTR.
GS-2	Includes Schedules GS-2, TOU-EV-4, and TOU-GS-2 (Option A, B, R, RTP, CPP, Standby, GS-APS, GS-APS-E, and ME).
TOU-GS-3	Includes Schedules TOU-GS-3-CPP, and TOU-GS-3 (Option A, B, R, RTP, SOP, Standby, TOU-BIP, GS-APS, GS-APS-E, and ME).
TOU-8-SEC	Includes Schedules TOU-8-CPP, TOU-8-RBU, and TOU-8 (Option A, B, R, RTP, TOU-BIP, GS-APS, GS-APS-E, Backup-B, and ME).
TOU-8-PRI	Includes Schedules TOU-8-CPP, TOU-8-RBU, and TOU-8 (Option A, B, R, RTP, TOU-BIP, GS-APS, GS-APS-E, Backup-B, and ME).
TOU-8-SUB	Includes Schedules TOU-8-CPP, TOU-8-RBU, and TOU-8 (Option A, B, R, RTP, TOU-BIP, GS-APS, GS-APS-E, Backup-B, and ME).
TOU-8-Standby-SEC	Includes Schedules TOU-8-Standby (Option B, RTP, TOU-BIP, GS-APS, GS-APS-E, and ME).
TOU-8-Standby-PRI	Includes Schedules TOU-8-Standby (Option A, A2, B, RTP, TOU-BIP, GS-APS, GS-APS-E, and ME).
TOU-8-Standby-SUB	Includes Schedules TOU-8-Standby (Option A, A2, B, RTP, TOU-BIP, GS-APS, GS-APS-E, and ME).
TOU-PA-2	Includes Schedules PA-1, PA-2, TOU-PA-ICE, and TOU-PA-2 (Option A, B, RTP, SOP-1, SOP-2, CPP, Standby, and AP-I).
TOU-PA-3	Includes Schedules TOU-PA-3-CPP, and TOU-PA-3 (Option A, B, RTP, SOP-1, SOP-2, Standby, and AP-I).
Street Lighting	Includes Schedules AL-2, AL-2-B, DWL, LS-1, LS-2, LS-3, LS-3-B, and OL-1.
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29 Recorded 12-CP Load Data by Rate Group (MW)

	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11	
31				= Line35:(Col1+Col2 +Col3)/3						= Line35:(Col4*Col5/ Col6*Col9*7)	= Line35:(Col108 / total of Col108)	
32							from Line1:Col3 Note 17	from Line1:Col4	= Col 7 + Col 8			
33		12-CP MW										
34	CPUC Rate Group	-	-	-	3-Year Average	Line losses	Recorded GWh (Average)	Standby Adjusted Sales Forecast - GWh	Backup GWh	Total Sales Forecast - GWh	Loss Adjusted Average 12-CP	12-CP Allocation factors
35a	Domestic	-	-	-	-	-	-	-	-	-	-	- %
35b	GS-1	-	-	-	-	-	-	-	-	-	-	- %
35c	TC-1	-	-	-	-	-	-	-	-	-	-	- %
35d	GS-2	-	-	-	-	-	-	-	-	-	-	- %
35e	TOU-GS-3	-	-	-	-	-	-	-	-	-	-	- %
35f	TOU-8-SEC	-	-	-	-	-	-	-	-	-	-	- %
35g	TOU-8-PRI	-	-	-	-	-	-	-	-	-	-	- %
35h	TOU-8-SUB	-	-	-	-	-	-	-	-	-	-	- %
35i	TOU-8-Standby-SEC	-	-	-	-	-	-	-	-	-	-	- %
35j	TOU-8-Standby-PRI	-	-	-	-	-	-	-	-	-	-	- %
35k	TOU-8-Standby-SUB	-	-	-	-	-	-	-	-	-	-	- %
35l	TOU-PA-2	-	-	-	-	-	-	-	-	-	-	- %
35m	TOU-PA-3	-	-	-	-	-	-	-	-	-	-	- %
35n	Street Lighting	-	-	-	-	-	-	-	-	-	-	- %
35o	---	-	-	-	-	-	-	-	-	-	-	- %
36	Totals:	-	-	-	-	-	-	-	-	-	-	- %

39 Allocation Factors for Backup Rates:

40	Col 1	Col 2	Col 3	Col 4
41			=Line44:Col1+ Line44:Col2	from Line35:Col8
42				
43	CPUC Rate Group	12-CP at Backup Load	Line losses	Adjusted 12-CP at backup load
44a	TOU-8-Standby-SEC	=	=	=
44b	TOU-8-Standby-PRI	=	=	=
44c	TOU-8-Standby-SUB	=	=	=
44d	---	=	=	=