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TN #:	258433
Document Title:	Statewide Reach Codes Program Comments - City of Palo Alto Local Ordinance Application Cost Effectiveness Report Appendix (Single Family New Construction)
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Comment Received From: Statewide Reach Codes Program Submitted On: 8/9/2024 Docket Number: 22-BSTD-07

## City of Palo Alto Local Ordinance Application Cost Effectiveness Report Appendix (Single Family New Construction)

Appendix documenting utility tariff data used in the cost-effectiveness calculations for Single Family New Construction Buildings.

Additional submitted attachment is included below.



Last modified: 2024/03/25 Revision: 1.1

# 2022 Cost-Effectiveness Study: Single Family New Construction

#### Prepared by:

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**Prepared for:** Kelly Cunningham, Codes and Standards Program, Pacific Gas and Electric









## Legal Notice

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# Acronym List

2023 PV\$ - Present value costs in 2023

ACH50 – Air Changes per Hour at 50 pascals pressure differential

- ACM Alternative Calculation Method
- ADU Accessory Dwelling Unit
- AFUE Annual Fuel Utilization Efficiency
- B/C Lifecycle Benefit-to-Cost Ratio
- BEopt Building Energy Optimization Tool
- BSC Building Standards Commission
- CA IOUs California Investor-Owned Utilities
- CASE Codes and Standards Enhancement
- CBECC-Res Computer program developed by the California Energy Commission for use in demonstrating compliance with the California Residential Building Energy Efficiency Standards
- CFI California Flexible Installation
- CFM Cubic Feet per Minute
- CO<sub>2</sub> Carbon Dioxide
- CPAU City of Palo Alto Utilities
- CPUC California Public Utilities Commission
- CZ California Climate Zone
- DHW Domestic Hot Water
- DOE Department of Energy
- DWHR Drain Water Heat Recovery
- EDR Energy Design Rating
- EER Energy Efficiency Ratio
- EF Energy Factor



# 7 Appendices

## 7.1 Map of California Climate Zones

Climate zone geographical boundaries are depicted in Figure 4. The map in Figure 4 along with a zip-code search directory is available at: <u>https://ww2.energy.ca.gov/maps/renewable/building\_climate\_zones.html</u>

## Figure 4: Map of California climate zones.



## 7.2 Utility Rate Schedules

The Reach Codes Team used the CA IOU and POU rate tariffs detailed below to determine the On-Bill savings for each package. The California Climate Credit was applied for both electricity and natural gas service for the IOUs using the 2023 credits shows below.<sup>22</sup> The credits were applied to reduce the total calculated annual bill, including any fixed fees or minimum bill amounts.

#### 2023 Electric California Climate Credit Schedule

	February or March	April	Мау	June	July	Aug	Sept	Oct
PG&E	\$38.39							\$38.39
SCE	\$71.00							\$71.00
SDG&E	\$60.70							\$60.70

## **Residential Natural Gas California Climate Credit**

In 2023, the 2023 Natural Gas California Climate Credit will be distributed in February or March instead of April.

	2018‡	2019	2020	2021	2022	2023	Total Value Received Per Household 2018-2023
PG&E	\$30	\$25	\$27	\$25	\$48	\$52.78	\$208
SDG&E	*	\$34	\$21	\$18	\$43	\$43.40	\$162
Southwest Gas	\$22	\$25	\$27	\$28	\$49	\$56.35	\$207
SoCalGas	*	\$50	\$26	\$22	\$44	\$50.77	\$194

Electricity rates reflect the most recently approved tariffs. Monthly gas rates were estimated based on recent gas rates (November 2023) and a curve to reflect how natural gas prices fluctuate with seasonal supply and demand. The seasonal curve was estimated from monthly residential tariffs between 2014 and 2023 (between 2017 and 2023 for CPAU). 12-month curves were created from monthly gas rates for each of the ten years (seven years for CPAU). These annual curves were then averaged to arrive at an average normalized annual curve. This was conducted separately for baseline and excess energy rates. Costs used in this analysis were then derived by establishing the most recent baseline and excess rate from the latest tariff as a reference point (November 2023), and then using the normalized curve to estimate the cost for the remaining months relative to the reference point rate.

<sup>&</sup>lt;sup>22</sup> https://www.cpuc.ca.gov/industries-and-topics/natural-gas/greenhouse-gas-cap-and-trade-program/california-climate-credit

## 7.2.1 Pacific Gas & Electric

The following pages provide details on the PG&E electricity and natural gas tariffs applied in this study. Table 29 describes the baseline territories that were assumed for each climate zone. A net surplus compensation rate of \$0.07051/ kWh was applied to any net annual electricity generation based on a one-year average of the rates between December 2022 and November 2023.

## Table 29: PG&E Baseline Territory by Climate Zone

Climate Zone	Baseline Territory
CZ01	V
CZ02	Х
CZ03	Т
CZ04	Х
CZ05	Т
CZ11	R
CZ12	S
CZ13	R
CZ16	Y

The PG&E monthly gas rate for G-1 in \$/therm was applied on a monthly basis according to the rates shown in Table 30. These rates are based on applying a normalization curve to the November 2023 tariff based on ten years of historical gas data. Corresponding CARE rates reflect the 20 percent discount per the GL-1 tariff.

Manth	Total Charge					
WONTH	Baseline	Excess				
January	\$2.05	\$2.43				
February	\$2.08	\$2.46				
March	\$1.92	\$2.31				
April	\$1.80	\$2.20				
May	\$1.77	\$2.18				
June	\$1.78	\$2.18				
July	\$1.80	\$2.20				
August	\$1.85	\$2.26				
September	\$1.92	\$2.33				
October	\$1.99	\$2.40				
November	\$2.06	\$2.46				
December	\$2.05	\$2.44				

## Table 30: PG&E Monthly Gas Rate (\$/therm)

# Residential GAS Baseline Territories and Quantities <sup>1/</sup>

## Effective April 1, 2022 - Present

#### BASELINE QUANTITIES (Therms Per Day Per Dwelling Unit)

Individually Metered							
Baseline	Summer	Winter Off-Peak	Winter On-Peak				
Territories	(April-October)	(Nov, Feb, Mar)	(Dec, Jan)				
	Effective Apr. 1, 2022	Effective Nov. 1, 2022	Effective Dec. 1, 2022				
Р	0.39	1.88	2.19				
Q	0.56	1.48	2.00				
R	0.36	1.24	1.81				
S	0.39	1.38	1.94				
Т	0.56	1.31	1.68				
V	0.59	1.51	1.71				
W	0.39	1.14	1.68				
Х	0.49	1.48	2.00				
Y	0.72	2.22	2.58				
	Mas	ter Metered					
Baseline	Summer	Winter Off-Peak	Winter On-Peak				
Territories	(April-October)	(Nov, Feb, Mar)	(Dec, Jan)				
	Effective Apr. 1, 2022	Effective Nov. 1, 2022	Effective Dec. 1, 2022				
Р	0.29	1.01	1.13				
Q	0.56	0.67	0.77				
R	0.33	0.87	1 16				
	0.00	0.07	1.10				
S	0.29	0.61	0.65				
S T	0.29 0.56	0.61 1.01	0.65				
S T V	0.29 0.56 0.59	0.61 1.01 1.28	0.65 1.10 1.32				
S T V W	0.29 0.56 0.59 0.26	0.61 1.01 1.28 0.71	0.65 1.10 1.32 0.87				
S T V W X	0.29 0.56 0.59 0.26 0.33	0.61 1.01 1.28 0.71 0.67	0.65 1.10 1.32 0.87 0.77				

Summer Season: Apr-Oct Winter Off-Peak: Nov, Feb, Mar Winter On-Peak: Dec, Jan

Advice Letter: 4589-G Decision 21-11-016 GRC 2020 Ph II [Application 19-11-019] Filed: Nov 22, 2019 U 39

RATES:

(Cont'd)

Pacific Gas and Electric Company

E-TOU-C TOTAL BUNDLED RATES

Cal. P.U.C. Sheet No. 56550-E Gal. P.U.C. Sheet No. 56229-E

Oakland, California

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ELECTRIC SCHEDULE E-TOU-C

Sheet 2

RESIDENTIAL TIME-OF-USE (PEAK PRICING 4 - 9 p.m. EVERY DAY)

Total Energy Rates (Sper kWh)	PEAK		OFF-PE	ĸ
Summer	- Terns			
Total Usage Baseline Credit (Applied to Baseline Usage Only)	\$0.53933 (\$0.08851)	(l) (R)	\$0.45589 (\$0.08851)	(I) (R)
Winter				
Total Usage	\$0,43662	(1)	\$0,40827	(1)
Baseline Credit (Applied to Baseline Usage Only)	(\$0.08851)	(R)	(\$0.08851)	(R)
Delivery Minimum Bill Amount (\$ per meter per day)	\$0.37612			
California Climate Credit (per household, per semi- annual payment occurring in the March* and October bill cycles)	(\$38.39)			

Total bundled service charges shown on customer's bills are unbundled according to the component rates shown below. Where the delivery minimum bill amount applies, the customer's bill will equal the rates shown below. Where the delivery minimum bill amount applies, the customer's bill will equal the sum of (1) the delivery minimum bill amount plus (2) for bundled service, the generation rate times the number of kWh used. For revenue accounting purposes, the revenues from the delivery minimum bill amount will be assigned to the Transmission, Transmission Rate Adjustments, Reliability Services, Public Purpose Programs, Nuclear Decommissioning, Competition Transition Charges, Energy Cost Recovery Amount, Wildfire Fund Charge, and New System Generation Charges based on kWh usage times the corresponding unbundled rate component per kWh, with any residual revenue accimated to Distribution. assigned to Distribution.

Pursuant to D.23-02-014, disbursement of the April 2023 residential Climate Credit shall begin by March 1, 2023.

(Continued)

7009-E Advice Decision

Issued by Meredith Allen Vice President, Regulatory Affairs Submitted August 25, 2023 Effective September 1, 2023 Resolution

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U 39

Pacific Gas and

Electric Company

Oakland, California

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## ELECTRIC SCHEDULE E-TOU-C RESIDENTIAL TIME-OF-USE (PEAK PRICING 4 - 9 p.m. EVERY DAY) Sheet 3

Cancelling Revised

Revised

RATES: (Cont'd.)

UNBUNDLING OF E-TOU-C TOTAL RATES

Energy Rates by Component (\$ per kWh)	PEAK	1	-	OFF-P	EAK
Generation:					
Summer (all usage)	\$0.19776		\$0.	13432	
www.er (ar usage)	20.14010		20	12414	
Distribution**:				1.1.1.1	
Summer (all usage)	\$0.17029	(0)	\$0	15029	(0)
Winter (all usage)	\$0.11618	(1)	\$0	11286	(1)
Conservation Incentive Adjustment (Baseli	ne Usage)		(\$0.02216)	m	
Conservation Incentive Adjustment (Over E	Baseline Usage)		\$0.06635	Ø	
Transmission* (all usage)			\$0.05254		
Transmission Rate Adjustments* (all usage	)		\$0.00059		
Reliability Services" (all usage)			\$0.00089		
Public Purpose Programs (all usage)			50.02578		
Nuclear Decommissioning (all usage)			50.00135		
Competition Transition Charges (all usage			(\$0.00030		
Wildfire Fund Charge (all usage)			\$0.00530		
New System Generation Charge (all usage)			\$0.00346		
Wildfire Mendening Charge (all manne)			\$0.00254		
Recovery Bond Charge (all usage)			\$0.00528	(D)	
Recovery Bond Credit (all usage)			(\$0.00528)	0	
Recovery bond creat (at usage)	and the state of the state of the state		80.00020)	14	

Transmission, Transmission Rate Adjustments and Reliability Service charges are combined for presentation on customer bills. Distribution and New System Generation Charges are combined for presentation on customer ...

bills.

<sup>bins.</sup> Direct Access, Community Choice Aggregation and Transitional Bundled Service Customers pay the applicable Vintaged Power Charge Indifference Adjustment. Generation and Bundled PCIA are combined for presentation on bundled customer bills.

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Advice 7009-E Decision

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Issued by Meredith Allen Vice President, Regulatory Affairs

Submitted Effective Resolution

Cal. P.U.C. Sheet No.

Cal. P.U.C. Sheet No.

56551-E

56230-E

August 25 September 1,



Pacific Gas and Electric Company

Oakland, California

	Revised
Cancelling	Revised

Cal. P.U.C. Sheet No. 56547-E Cal. P.U.C. Sheet No. 56226-E

#### ELECTRIC SCHEDULE E-ELEC Sheet 2 RESIDENTIAL TIME-OF-USE (ELECTRIC HOME) SERVICE FOR CUSTOMERS WITH QUALIFYING ELECTRIC TECHNOLOGIES

RATES:(Cont'd.)

#### TOTAL BUNDLED RATES

Base Services Charge (\$ per meter per day) \$0.49281

Total Energy Rates (\$ per kWh) PEAK PART-PEAK OFF-PEAK \$0.56589 Summer Usage \$0.34733 \$0.40401 8 Winter Usage \$0.33438 \$0.31229 \$0.29843 (II) (II)

California Climate Credit (per household, per semi-annual payment occurring in the Marcht and October bill cycles) (\$38.39)

Total bundled service charges shown on a customer's bills are unbundled according to the component rates shown below.

#### UNBUNDLING OF TOTAL RATES

Energy Rates by Component (\$ per kWh)	PEAK		PART-PEA	ĸ	OFF-PEA	ĸ
Generation:						
Summer Usage	\$0.28164		\$0.18253		\$0.13743	
Winter Usage	\$0.11951		\$0.09954		\$0.08619	
Distribution**:						
Summer Usage	\$0.17932	(1)	\$0.11655	(1)	\$0.10497	(1)
Winter Usage	\$0.10994	(1)	\$0.10782	(1)	\$0.10731	(1)
Transmission* (all usage)	\$0.05254		\$0.05254		\$0.05254	
Transmission Rate Adjustments* (all usage)	\$0,00059		\$0.00059		\$0,00059	
Reliability Services* (all usage)	\$0 00069		\$0 00069		\$0 00069	
Public Purpose Programs (all usage)	\$0.02578		\$0.02578		\$0 02578	
Nuclear Decommissioning (all usage)	\$0 00135		\$0 00135		\$0 00135	
Competition Transition Charges (all usage)	\$0,00030		\$0,00030		\$0 00030	
Energy Cost Recovery Amount (all usage)	(\$0,00071)		(\$0,00071)		(\$0,00071)	
Wildfire Fund Charge (all usage)	\$0.00530		\$0.00530		\$0.00530	
New System Generation Charge (all usage)**	\$0.00346		\$0.00346		\$0.00346	
Wildfire Hardening Charge (all usage)	\$0.00254		\$0.00254		\$0.00254	
Recovery Bond Charge (all usage)	\$0.00528	(P)	\$0.00528	(P)	\$0.00528	(P)
Decovery Bond Credit (all usage)	(\$0.00520)	- Charles	(\$0.00520)	5	(\$0.00520)	
Recovery bond Credit (all usage)	(\$0.00526)	(1)	(\$0.00326)	(0)	(\$0.00520)	(1)
Adjustment (all usage)***	\$0.01309		20.01209		\$0.01509	

Transmission, Transmission Rate Adjustments and Reliability Service charges are combined for presentation on customer bills.

\*\*

Distribution and New System Generation Charges are combined for presentation on customer bills. Direct Access, Community Choice Aggregation and Transitional Bundled Service Customers pay the applicable Vintaged Power Charge Indifference Adjustment. Generation and Bundled PCIA are combined for presentation on bundled customer \*\*\* bills.

Pursuant to D.23-02-014, disbursement of the April 2023 residential Climate Credit shall begin by March 1, 2023. t

(Continued)

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Decision		Meredith Allen	Effective	September 1, 2023
		Vice President, Regulatory Affairs	Resolution	



CARE percentage discount of 35.000% on their total bundled charges (except for the California Climate Credit, which will not be discounted). Customers taking service on this rate schedule whose otherwise applicable rate schedule has a Delivery Minimum Bill Amount (all other schedules) will receive a CARE percentage discount ("A" or "C" below) on their total bundled charges on their otherwise applicable rate schedule (except for the California Climate Credit, which will not be discounted) and also will receive a percentage discount ("B" or "D" below) on the delivery minimum bill amount, if applicable. The CARE discount will be calculated for direct access and community choice aggregation customers based on the total charges as if they were subject to bundled service rates. Discounts will be applied as a residual reduction to distribution charges, after D-CARE customers are exempted from the Wildfire Fund Charge, Recovery Bond Charge, Recovery Bond Credit, and the CARE surcharge portion of the public purpose program charge used to fund the CARE discount. These conditions also apply to master-metered customers and to gualified sub-metered tenants where the master-meter customer is jointly served under PG&E's Rate Schedule D-CARE and either Schedule EM, ES, ESR, ET, or EM-TOU.

For master-metered customers where one or more of the submetered tenants qualifies for CARE rates under the eligibility and certification criteria set forth in Rule 19.1, 19.2, or 19.3, the CARE discount is equal to a percentage ("C" below) of the total bundled charges, multiplied by the number of CARE units divided by the total number of units. In addition, master-metered customers eligible for D-CARE will receive a percentage discount ("D" below) on the delivery minimum bill amount, if applicable.

It is the responsibility of the master-metered customer to advise PG&E within 15 days following any change in the number of dwelling units and/or any decrease in the number of qualifying CARE applicants that results when such applicants move out of their submetered or non-submetered dwelling unit, or submetered permanent-residence RV or permanent-residence boat.

(L) (L)

(Continued)

54734-E

53424-E

CD

(N)

(N)

(T)

(T)

(T)

Cal. P.U.C. Sheet No.

Sheet 1

PRAF	Paci. Elect	fic Ga tric C	is and ompany	Cancelling	Revised Revised	Cal. P.U.C Cal. P.U.C	. Sheet No. . Sheet No.	56208-E 56020-E
U 39	San Fi	ancisco	, California				6 - Carrol	
1.0		DISCO			CARE		Sheet 2	
-		0,500	ONTTORCALITE	CUSTOMERS	IL INAILS	I ON ENERG	(CANE)	
RATES:	(Cont'd)	A. B. C. D.	D-CARE Discour Delivery Minimur Master-Meter D- Master-Meter De Bill Discount:	nt: n Bill Discount: CARE Discount: livery Minimum	34.965 50.000 34.965 50.000	% (Percent) % (Percent) % (Percent) % (Percent)	(l) (l)	
SPECIAL	IONS:	1. OT Custo 2. EL under the ce Acces Servic Applic sub-m progra	HERWISE APPLI mer's otherwise ap IGIBILITY: To be the criteria set for rtification requiren s, Community Cho e customers are a ants may qualify for etered tenants par am cannot concurr	CABLE SCHEDUI oplicable rate sche eligible to receive th in PG&E's Elec ments thereof to the sice Aggregation S los eligible to take or D-CAR at theie rticipating in the F ently participate in	LE: The Sp edule will a D-CARE ti tric Rules 1 e satisfacti Service, an a service, an a service or amily Elect to the CARE	pecial Conditio pply to this sch ne applicant m 19.1, 19.2, and on of PG&E. ( d Transitional I n Schedule D-( esidence only, ric Rate Assist program.	ns of the ledule. ust qualify 19.3 and me Qualifying Dir Bundled CARE. Customers ance (FERA	eet eet or )

Advice 6968-E Decision Issued by Meredith Allen Vice President, Regulatory Affairs Submitted Ju Effective \_\_\_\_\_, Resolution

June 23, 2023 July 1, 2023

## 7.2.2 Southern California Edison

The following pages provide details on the SCE electricity tariffs applied in this study. Table 31 describes the baseline territories that were assumed for each climate zone. A net surplus compensation rate of \$ 0.06030/ kWh was applied to any net annual electricity generation based on a one-year average of the rates between December 2022 and November 2023.

## Table 31: SCE Baseline Territory by Climate Zone

Climate Zone	Baseline Territory
CZ06	6
CZ08	8
CZ09	9
CZ10	10
CZ14	14
CZ15	15

Winter Daily Allocations (October through May)

Summer Daily Allocations (June through September)

All-All-Daily kWh Electric Daily kWh Electric **Baseline Region Number** Allocation Allocation **Baseline Region Number** Allocation Allocation 5 17.9 17.2 5 29.1 18.7 6 11.4 8.8 6 11.3 13.0 8 12.6 9.8 8 10.6 12.7 16.5 9 9 12.4 12.3 14.3 10 18.9 15.8 10 12.5 17.0 13 22.0 24.6 13 12.6 24.3 14 12.0 21.3 18.7 18.3 14 15 9.9 18.2 15 46.4 24.1 16 12.6 23.1 16 14.4 13.5

ECIAL CONDITIONS	3	Schedule TO TIME-OF-US DOMESTIC (Continued	<u>U-D</u> <u>SE</u> 2	Sheet 12
Applicable rate tin	ne periods are defi	ned as follows:		
Option 4-9 PM, O	ption 4-9 PM-CPP	, Option PRIME, O	ption PRIME-CPP	
TOUG	Weel	kdays	Weekends	and Holidays
I OII Period		An end of the second se		
TOOTCHOU	Summer	Winter	Summer	Winter
On-Peak	Summer 4 p.m 9 p.m.	Winter N/A	Summer N/A	Winter N/A
On-Peak Mid-Peak	Summer 4 p.m 9 p.m. N/A	Winter N/A 4 p.m 9 p.m.	Summer N/A 4 p.m 9 p.m.	Winter N/A 4 p.m 9 p.m.
On-Peak Mid-Peak Off-Peak	Summer 4 p.m 9 p.m. N/A All other hours	Winter N/A 4 p.m 9 p.m. 9 p.m 8 a.m.	Summer N/A 4 p.m 9 p.m. All other hours	Winter N/A 4 p.m 9 p.m. 9 p.m 8 a.m.
On-Peak Mid-Peak Off-Peak Super-Off-Peak	Summer 4 p.m 9 p.m. N/A All other hours N/A	Winter N/A 4 p.m 9 p.m. 9 p.m 8 a.m. 8 a.m 4 p.m.	Summer N/A 4 p.m 9 p.m. All other hours N/A	Winter N/A 4 p.m 9 p.m. 9 p.m 8 a.m. 8 a.m 4 p.m.

Southern California Ed Rosemead, California	(U 338-E)	Cancel	Revised	d Cal. PUC d Cal. PUC	Sheet No. Sheet No.	85111-E 74502-E
		Schedule TO TIME-OF-U DOMESTI	U-D SE C		Sheet 2	
RATES		(				
Customers receiving s Option 4-9 PM-CPP, Option A-CPP, Optior usage during CPP E reduction on CPP Nor described in Special C	service under this Sch Option 5-8 PM, Option B, or Option B-CPI vent Energy Charge -Event Energy Credit Conditions 1 and 3, be	nedule will be cha on 5-8 PM-CPP, P, as listed belor periods and Cl Periods during S low:	arged the app Option PRIM w. CPP Even PP Non-Even Summer Seas	licable rates u ME, Option PF at Charges will at Energy Cre on days, 4:00	Inder Optio RIME-CPP I apply to edits will a p.m. to 9:0	n 4-9 PM, Option A, all energy pply as a 0 p.m., as
		Delivery Service	e Gener	ation <sup>2</sup>		
Option 4	-9 PM / Option 4-9 PM-CPP	Total	UG***	DWPEC <sup>3</sup>		
	Summer Season - On-F Mid-F Off-F	Peak         0.28829 (R)           Peak         0.28829 (R)           Peak         0.24482 (R)	0.28543 (I) 0.17707 (I) 0.11382 (I)	0.00000 0.00000 0.00000		
	Winter Season - Mid-F	wak 0.28829 (R)	0.21752 (0	0.00000		
	Off-I Super-Off-F	Pank 0.24482 (R) Pank 0.22919 (R)	0.13851 (i) 0.11890 (i)	0.00000		
Basetto	Gredit**** - \$/kWh	(0.09759) (i)	0.00000			
Fixed Re	ecovery Charge - \$/kWh	0.00090 (R)				
Basic Ci	harge - \$/day					
	Single-Family Reside Molti-Family Reside	ince 0.031				
Minimun	n Charge** - \$/day					
	Multi-Family Reade	ance 0.346				
Minimun	n Charge (Medical Baseline	a)** - \$/clay				
	Multi-Family Realds	ance 0.173				
Californi	a Climate Credit <sup>10</sup>	(71.00) (i)				
Californi	a Alternate Rates for					
Energy I	Discount - %	100.00*				
Option 4 CPP Ev	-9 PM-CPP ant Energy Charge - \$/kW/		0.80000			
Summar On-Peak	CPP Non-Event Credit k Energy Credit - S/kWh		(0.15170)			
	- Annihabita d'annih dia ann		100000			
	Summer Sea	HARCHY	(0.67183) (R)			
Represents 100% of the disc The Minimum Charge is appli "The angoing Competition Tra "The Baseline Credit applies i Customers with Heat Pump V ""The Maximum Available Cre Total = Total Delivery Servico Customers, except DA and C provided by Schedule DA-CF Generation = The Gen rates DWREC = Depariment of Wa Condition of this Schedule. Applied on an equal basis, po	ount percentage as shown in the licable when the Delivery Servin metion Charge CTC of (\$0.000 p to 100% of the Baseline Alk Vater Heaters served under the dit is the capped credit amounter that are applicable to Bandle CAS service Customers are no 15 or Schedule CCA-CRS, are applicable only to Bundled ter Resources (DWR) Energy at household, semi-annually. 1	he applicable Special Co ce Energy Charge, plus 303) per kWh is recover cation, regardless of Tir is Option. The Baseline, it or CPP Customers du ad Service, Direct Access t subject to the DWRBC Service Customers. Se Gredit – For more inform See the Special Conditio	andition of this Sohn the applicable Bass and in the US compo- me-of-Use time part Allocations are set al participating in of a (DA) and Commu- rate component of ne Special Condition nation on the DWR ris of this Schedule	adule. c Charge is less than ment of Generation. od. Additional Base forth in Preliminary 3 her demand respon- mity Choice Aggreg this Schedule but in below for PCIA rec Energy Credit, see I for more informatio	In the Minimum line Allocations Statement, Part Se programs. ation Service (C stead pay the D overy. the Billing Calcu h.	Charge. apply for H. ICA Service) WRBC as lation Special
		(Continued)				
(To be inserted by utili	ty)	Issued by	(	To be inserted	by Cal. PL	JC)
(To be inserted by utili Advice 4929-E	ty)	Issued by Michael Backstro	om D	To be inserted ate Submitted	by Cal. PL Dec 28,	2022

RATES (Continued)	TIME- DOM (Con	OF-USE IESTIC tinued)		Sheet	U
<u>RATES</u> (Continued)	DOM (Con	ESTIC tinued)			
RATES (Continued)	(Con	tinued)			
RATES (Continued)					
			-		
	Option PRIME / Option PRIME-CPP	Delivery Service Total <sup>1</sup>	Genera	DWREC <sup>3</sup>	
	Energy Charge - \$/kWh/Meter/Day		00 1		
	Summer Season		and the		
	On-Peak Mid Peak	0.22789 (I)	0.42769 (I)	0.00000	
	Off-Peak	0.15191 (I)	0.10162 (I)	0.00000	
			and the set of		
	Winter Season	0 00050 //	0.26020 ///	0.00000	
	Mid-Peak Off-Peak	0.23353 (I) 0.14530 (I)	0.36028 (1)	0.00000	
	Super-Off-Peak	0.14530 (I)	0.08630 (1)	0.00000	
	Fixed Recovery Charge - \$/kWh	0.00260 (I)			
	Basic Charge - \$/Meter/Day	0.427 (I)			
	EV Meter Credit (Separately Metered E	(0.323) (N)	1.10		
	EV Submeter Credit - \$/Meter/Day	(0.111) (R)			
	California Climate Credit <sup>10</sup>	(71.00)			
	California Alternate Rates for				
	Energy Discount - %	100.00*			
	Family Electric Rate Assistance Discou	100.00			
	Medical Line Item Discount - %	100.000			
	Option PRIME-CPP		part and a second		
	CPP Event Energy Charge - \$/kWh		0.80000		
	Summer CPP Non-Event Credit				
	On-Peak Energy Credit - \$/kWh		(0.15170)		
	Maximum Available Credit - \$/kWh****		1.00		
	Summer Season		(0.71812) (R)		
Represents 100% of the disc	ount percentage as shown in the applicable S	pecial Condition of	this Schedule.		
The Maximum Available Cre	dit is the capped credit amount for CPP Custor	ners dual participal	ting in other deman	eneration. d response programs.	
Total = Total Delivery Servic	e rates are applicable to Bundled Service, Dire	ect Access (DA) an	d Community Choi	e Aggregation Servic	e (CCA Service)
provided by Schedule DA-CF	RS or Schedule CCA-CRS.	E DWRDG rate con	iponent of this 30h	equie out instead pay	uje DWRDC as
Generation = The Gen rates DWREC = Department of V	are applicable only to Bundled Service Custon Vater Resources (DWR) Energy Credit – For	more information	Condition below for on the DWR Ener	PCIA recovery. ov Credit, see the B	illing Calculation
Special Condition of this Sch	edule.	0			
Applied on an equal basis, p	er nousehold, semi-annually. See the Special	Conditions of this \$	schedule for more i	ntormation.	
	(Contin	ued)	1.00		
To be inserted by utility		Lby	(To bo in	sorted by Cal	
dvice 5041-F	Michael Ba	ckstrom	Date Sub	mitted May 3	0 2023

Rosemead, California (U 338-E)	Cancelling	Revised Revised	Cal. PUC Sheet No. Cal. PUC Sheet No.	85618-E 85109-E
CALIFO	Schedule D-CARE DRNIA ALTERNATE RATE DOMESTIC SERVIC	S FOR ENE	Sheet 1	5
APPLICABILITY				
Applicable to domestic service to Accommodation or Multifamily Accon this Schedule. Customers enrolled Assistance (FERA) program.	<ul> <li>CARE households res mmodation where the custo in the CARE program are in</li> </ul>	iding in a mer meets not eligible	permanent Single-F all the Special Condition for the Family Electric	Family ons of Rate
Pursuant to Special Condition 12 her receive the California Climate Credit /	ein, customers receiving se as shown in the Rates secti	ervice under ion below.	this Schedule are eligi	ible to
TERRITORY				
Within the entire territory served.				
RATES				
The applicable charges set forth in Sc	chedule D shall apply to Cus	stomers ser	ved under this Schedul	le.
CARE Discount:				
sharges. CARE Customers are requiate payment charges in full. In a Surcharge of \$0.00888 per kWh and The 29.8 percent discount, in addition of 32.5 percent.	uired to pay the PUCRF an addition, CARE Customers I the Wildfire Fund Non-Byp In to these exemptions result	nd any appl s are exem passable Ci tin an avera	icable user fees, taxes opt from paying the optimized of \$0.00530 per age effective CARE Dis	s, and CARE kWh. (F scount
	(Continued)			

## 7.2.3 Southern California Gas

Following are the SoCalGas natural gas tariffs applied in this study. Table 32 describes the baseline territories that were assumed for each climate zone.

## Table 32: SoCalGas Baseline Territory by Climate Zone

Climate Zone	Baseline Territory
CZ05	2
CZ06	1
CZ08	1
CZ09	1
CZ10	1
CZ14	2
CZ15	1

The SoCalGas monthly gas rate in \$/therm was applied on a monthly basis according to the rates shown in Table 33. These rates are based on applying a normalization curve to the November 2023 tariff based on ten years of historical gas data. Long-term historical natural gas rate data was only available for SoCalGas' procurement charges.<sup>23</sup> The baseline and excess transmission charges were found to be consistent over the course of a year and applied for the entire year based on 2023 rates. CARE rates reflect the 20 percent discount per the GR tariff.

Table 33: SoCalGas Monthly Gas Rate (\$/therm)	
--	--

Month	Procurement	Transportat	tion Charge	Total Charge		
wonth	Charge	Baseline	Excess	Baseline	Excess	
January	\$0.72	\$0.86	\$1.31	\$1.92	\$2.36	
February	\$0.50	\$0.86	\$1.31	\$1.57	\$2.02	
March	\$0.44	\$0.86	\$1.31	\$1.48	\$1.93	
April	\$0.39	\$0.86	\$1.31	\$1.39	\$1.84	
May	\$0.41	\$0.86	\$1.31	\$1.43	\$1.87	
June	\$0.46	\$0.86	\$1.31	\$1.49	\$1.93	
July	\$0.47	\$0.86	\$1.31	\$1.51	\$1.96	
August	\$0.51	\$0.86	\$1.31	\$1.58	\$2.03	
September	\$0.46	\$0.86	\$1.31	\$1.52	\$1.96	
October	\$0.45	\$0.86	\$1.31	\$1.48	\$1.92	
November	\$0.48	\$0.86	\$1.31	\$1.54	\$1.99	
December	\$0.57	\$0.86	\$1.31	\$1.63	\$2.08	

				Residential R Nov-23	lates				
Custon	ner Type Rate Schedule	Commodity Charge	Rate Type	Procurement Charge ¢/therm	Transportation Charge ¢/therm	New Rate Effective 11/1/2023	New Rate Effective 10/1/2023	Absolute Rate Change	% Change
Reside	ntial Individually Metered								
	Schedule No. GR	GR	Baseline	67.806	86.490	154.296	125.096	29.200	23.3%
	Res. Service	GR	Non Baseline	67.806	131.037	198.843	169.726	29.117	17.2%
		GT-R	Baseline	00.000	86.490	86.490	87.038	-00.548	-0.6%
		GT-R	Non Baseline	00.000	131.037	131.037	131.668	-00.631	-0.5%

<sup>23</sup> The SoCalGas procurement and transmission charges were obtained from the following site: <u>https://www.socalgas.com/for-your-business/energy-market-services/gas-prices RES2023.xlsx (live.com)</u>

## 7.2.4 San Diego Gas & Electric

Following are the SDG&E electricity and natural gas tariffs applied in this study. Table 34 describes the baseline territories that were assumed for each climate zone. A net surplus compensation rate of \$0.04542/ kWh was applied to any net annual electricity generation based on a one-year average of the rates between December 2022 and November 2023.

## Table 34: SDG&E Baseline Territory by Climate Zone

Climate Zone	Baseline Territory
CZ07	Coastal
CZ10	Inland
CZ14	Mountain

The SDG&E monthly gas rate in \$/therm was applied on a monthly basis according to the rates shown in Table 35. These rates are based on applying a normalization curve to the November 2023 tariff based on ten years of historical gas data. CARE rates reflect the 20 percent discount per the G-CARE tariff.

## Table 35: SDG&E Monthly Gas Rate (\$/therm)

Month	Total Charge			
wonth	Baseline	Excess		
January	\$2.34	\$2.63		
February	\$2.28	\$2.57		
March	\$2.21	\$2.51		
April	\$2.14	\$2.45		
May	\$2.18	\$2.48		
June	\$2.23	\$2.55		
July	\$2.26	\$2.57		
August	\$2.32	\$2.62		
September	\$2.26	\$2.59		
October	\$2.21	\$2.55		
November	\$2.24	\$2.57		
December	\$2.38	\$2.70		

<u>Baseline Usage</u>: The following quantities of gas used in individually metered residences are to be billed at the baseline rates:

Daily Therm <u>Allowance</u>
0.359
1.233
0.692

SCHEDULE TOU-DR1 RESIDENTIAL TIME-OF-USE           RATES           Total Rates:           Description - TOU DR1         VOC Total Rate         DWR Credit         Total Rates           Description - TOU DR1         VOC Total Rate         DWR Credit         Total Rate           On-Peak         O.25752         R         0.00530         1         0.35375           On-Peak         O.25752         R         0.00530         1         0.35375           On-Peak         O.25752         R         0.00530         0.00530         0.00530         0.00530         0.00546         O.10724)         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530         0.008402         0.00530 <th colspan<="" th=""><th>Sheet 2</th></th>	<th>Sheet 2</th>	Sheet 2
Schebolic FOU-DRY           RESIDENTIAL TIME-OF-USE           RATES           Total Rate:           On-Peak         OST Peak           ON-Peak         OST PEAK         OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK           OST PEAK         OST PEAK         OST PEAK <td colspa<="" th=""><th></th></td>	<th></th>	
RESIDENTIAL TIME-DF-USE           RATES           Total Rates:           Description - TOU DR1         UPC Total Rate         DWR BC +         EECC Rate +         Total           Super Off-Peak         0.05752         R 0.00530         1         0.51979           Super Off-Peak         0.25752         R 0.00530         1         0.51979           Super Off-Peak         0.43809         1         0.05301         0.05301         0.05421         0.651979           Super Off-Peak         0.43809         I         0.05301         0.05402         I         0.360           Description - TOU DR1         UPC Total         DWR BC +         EECC Rate +         Total           Super Off-Peak         0.25682         R         0.00000         0.32725         I         0.36046           Off-Peak         0.25682          Care Rate <t< td=""><td></td></t<>		
Bases           Description - TOU DR1         UC Total Rate         DWR BC + BECC Rate & DECC RATE RATE + DECC RATE + BECC RATE + DECC RATE + BECC RATE + BE		
RATES           Total Rates;           Description - TOU DR1         UDC Total Rate         OWR BC +         EECC Rate +         Total           Summer:         O.25752         R         0.00530         I         0.51979           OH-Peak         0.25752         R         0.00530         1         0.51979           OH-Peak         0.25752         R         0.00530         1         0.63846           OH-Peak         0.43809         I         0.00530         I         0.63846           OH-Peak         0.43809         I         0.00530         I         0.63846           OH-Peak         0.43809         I         0.00530         I         0.65366           Super Off-Peak         0.01724)         R         Colspan="2">Colspan="2">Colspan="2"           OH-Peak          OH-Peak <th colspa<="" td=""><td></td></th>	<td></td>	
Total Rate:           Description – TOU DR1         UDC Total Rate         WWR BC + EECC Rate + Total         Total Rate           Summer:         0.0.5752         R         0.00530         1         0.51979           ON-Peak         0.25752         R         0.00530         1         0.51979           On-Peak         0.25752         R         0.00530         1         0.35515           On-Peak         0.43809         1         0.00530         1         0.36646           On-Peak         0.43809         I         0.00530         I         0.05714           On-Peak         0.43809         I         0.0380           On-Peak         0.43809         I         0.0380           On-Peak         0.25682         R         0.00000         0.0380         I         0.03806           On-Pea		
Description - TOU DR1         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total           Summer: On-Peak         0.25752         R         0.00530         I         0.57043         I         0.83325           Oft-Peak         0.25752         R         0.00530         I         0.5697         I         0.51979           Super Oft-Peak         0.25752         R         0.00530         I         0.05567         I         0.51979           On-Peak         0.25752         R         0.00530         I         0.10555         I         0.55194           On-Peak         0.43809         I         0.00530         I         0.10855         I         0.55194           Summer Baseline Adjustment Credit up to 130% of Baseline         0.11724)         R         (0.11724)         I         0.11724)           Winter Baseline Adjustment Credit up to 130% of Baseline         0.380         I         0.380         I         0.380           Description - TOU DR1-         UDC Total         DWR Credit         Rate         Total         Effective           On-Peak         0.25682         R         0.00000         0.57043         I         0.5379         I         0.33965		
Description - TOU DR1         UDC Total Rate         DWR BC+ WF-NBC         EECC Rate + DWR Credit         Total Rate           Summer: On-Peak Super Off-Peak         0.25752         R         0.00530         I         0.5697         I         0.83255           Off-Peak Super Off-Peak         0.25752         R         0.00530         I         0.9233         I         0.35515           Winter: On-Peak         0.43809         I         0.00530         I         0.19357         I         0.65194           Super Off-Peak         0.43809         I         0.00530         I         0.19357         I         0.65646           Super Off-Peak         0.43809         I         0.00530         I         0.10855         I         0.55194           Super Off-Peak         0.43809         I         0.00530         I         0.08402         I         0.52741           30% of Baseline         I         0.11724)         R         III1724)         III1724)         IIII1724)         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_	
Summer:         On-Peak         0.25752         R         0.00530         I         0.57043         I         0.83325           On-Peak         0.25752         R         0.00530         I         0.26697         I         0.61979           Super Off-Peak         0.25752         R         0.00530         I         0.09233         I         0.35515           Winter:         0.43809         I         0.00530         I         0.19307         I         0.83466           Off-Peak         0.43809         I         0.00530         I         0.19307         I         0.83646           Summer Baseline         Adation Adation         I         0.00530         I         0.10855         I         0.55194           Summer - CARE Rates:         0.01724)         R         I         I         0.11724)         R         I         0.380           Off-Peak         0.25682         R         0.00000         0.57043         I         0.82725         I         0.5366           On-Peak         0.25682         R         0.00000         0.25791         0.53791         0.33965           Super Off-Peak         0.25682         R         0.00000         0.193071	-	
On-Peak Super Off-Peak         0.25752         R         0.00530         I         0.57043         I         0.83325           Winter:         0.25752         R         0.00530         I         0.35615         I         0.35975           On-Peak Off-Peak         0.43809         I         0.00530         I         0.09233         I         0.55194           On-Peak Off-Peak         0.43809         I         0.00530         I         0.19307         I         0.683646           Super Off-Peak         0.43809         I         0.00530         I         0.19307         I         0.68646           Summer Baseline         Adjustment Credit up to 130% of Baseline         0.380         I         0.00530         I         0.19307         I         0.6846           Minimum Bill (\$iday)         0.380         I         0.380         I         0.380         I         0.380           Description - TOU DR1- CARE         UDC Total Rate         WF NBC         ECC Rate + DWR Credit         Total         Effective Care Rate           Super Off-Peak         0.25682         0.00000         0.57043         I         0.43779         I         0.33965           Super Off-Peak         0.25682         0.000000	1	
Off-Peak         0.25752         R         0.00530         I         0.2697         I         0.51979           Winter:         0.7Peak         0.43809         I         0.00530         I         0.09233         I         0.35615           Winter:         0.7Peak         0.43809         I         0.00530         I         0.19307         I         0.63846           Off-Peak         0.43809         I         0.00530         I         0.08402         I         0.57194           Super Off-Peak         0.43809         I         0.00530         I         0.08402         I         0.52741           Summer Baseline Adjustment Credit up to 130% of Baseline         (0.11724)         R         (0.11724)         R         (0.11724)           Minimum Bill (Siday)         0.360         I         0.380         I         0.380           Description – TOU DR1- CARE         UDC Total Rate         DWR BC + Winter AcaRE Rates:         D.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           On-Peak         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Oif-Peak         0.25682<	1	
Output Cirreax         Output	1	
Witter.         0.43809         I         0.00530         I         0.19307         I         0.63646           Off-Peak         0.43809         I         0.00530         I         0.19307         I         0.63646           Super Off-Peak         0.43809         I         0.00530         I         0.10855         I         0.55194           Summer Baseline Adjustment Credit up to 130% of Baseline         0.11724)         R         (0.11724)         0.01724)           Minimum Bill (Siday)         0.380         I         0.380         I         0.380           Description – TOU DR1- CARE         UDC Total         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total         Effective Care Rate           Summer – CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           On-Peak         0.25682         R         0.00000         0.59233         I         0.34915         I         0.22725           On-Peak         0.25682         R         0.00000         0.19307         I         0.63046         I         0.41930           Orl-Peak         0.43739         I         0.00000         0.19307         I         0.6	1	
Ort-Peak Super Off-Peak         O.4.3699         I         0.00030         I         0.139/f         I         0.0380/f         I         0.0530/f         I         0.05402/f         I         0.0520/f         I         0.01720/f         I         0.052741         I         0.01720/f         I         0.01720/f         I         0.01720/f         I         0.02725         I         0.05386         I         0.0390/f         I         0.02725         I         0.		
Super Off-Peak         Outbody         I         Outbody	1	
Summer Baseline Adjustment Credit up to 130% of Baseline         (0.11724)         R         (0.11724)           Minimum Bill (\$iday)         0.380         I         0.380           Description - TOU DR1- CARE         UDC Total         DWR BC + Rate         EECC Rate + DWR Credit         Total         Total           Description - TOU DR1- CARE         UDC Total         DWR BC + Rate         EECC Rate + DWR Credit         Total         Total           Summer - CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Super Off-Peak         0.25682         R         0.00000         0.25897         I         0.33965           Super Off-Peak         0.43739         I         0.00000         0.19307         I         0.83046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.83046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34465           Summer Baseline         Majustment Credit up to         130% of Baseline         I         0.11724)         R         (0.11724)         R <td>i</td>	i	
Summer Baseline Adjustment Credit up to 130% of Baseline       (0.11724)       R       (0.11724)         Minimum Bill (\$Iday)       0.380       I       0.380         Description - TOU DR1- CARE       UDC Total       DWR BC + Rate       EECC Rate + DWR Credit       Total       Fffective Care Rate         Summer - CARE Rates:       0.25682       R       0.00000       0.57043       I       0.82725       I       0.55366         On-Peak       0.25682       R       0.00000       0.25697       I       0.51379       I       0.33965         Super Off-Peak       0.25682       R       0.00000       0.09233       I       0.34915       I       0.22725         Winter Baseline Adjustment       0.43739       I       0.00000       0.19307       I       0.63046       I       0.41930         Off-Peak       0.43739       I       0.00000       0.19307       I       0.63046       I       0.41930         Super Off-Peak       0.43739       I       0.00000       0.08402       I       0.5114       I       0.34465         Super Off-Peak       0.41724)       R       (0.11724)       R       (0.11724)       R       0.011724)       R       0.011724)       R		
Winter Baseline         Adjustment Credit up to 130% of Baseline         (0.11724)         R         (0.11724)           Minimum Bill (Siday)         0.380         I         0.380         I         0.380           Description - TOU DR1- CARE         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate         Total Effective Care Rate           Summer - CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           On-Peak         0.25682         R         0.00000         0.52567         I         0.51379         I         0.33965           Super Off-Peak         0.25682         R         0.00000         0.19307         I         0.63046         I         0.41930           On-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.34485           Summer Baseline         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         0.11724)         R         (0.11724)         R         (0.11724)         R         0.190         I         0.190         I         0.190         I	R	
Minimum Bill (\$kday)         0.380         I         0.380           Description - TOU DR1- CARE         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate         Total Effective Care Rate           Summer - CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Off-Peak         0.25682         R         0.00000         0.52697         I         0.51379         I         0.33905           Super Off-Peak         0.25682         R         0.00000         0.9233         I         0.34915         I         0.2725           Winter - CARE Rates:         0.00000         0.19307         I         0.8046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.1855         I         0.54594         I         0.36160           Super Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34465           Summer Baseline         Adjustment (Credit up to 130% of Baseline         (0.11724)         R         (0.11724)         R         (0.08004)         0.190         I         0.900         I         0.900	R	
Description - TOU DR1- CARE         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate         Total Effective Care Rate           Summer - CARE Rates: On-Peak         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Off-Peak         0.25682         R         0.00000         0.25697         I         0.51379         I         0.33965           Super Off-Peak         0.25682         R         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline Adjustment Credit up to 130% of Baseline Adjustment Credit up to 130% of         I         0.11724)         R         (0.11724)         R         (0.00004)           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I         0.190           Note:         I         1         Otal Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Sched	I	
CARE         Rate         WF-NBC         DWR Credit         Rate         Effective Care Rate           Summer - CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Off-Peak         0.25682         R         0.00000         0.25697         I         0.51379         I         0.33965           Super Off-Peak         0.25682         R         0.00000         0.92333         I         0.34915         I         0.22725           Winter - CARE Rates:         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         Maistment Credit up to         (0.11724)         R         (0.11724)         R         (0.11724)         R         (0.08004)           130% of Baseline         0.190         I         0.190         I         0.190         I         0.190         I <t< td=""><td></td></t<>		
Summer - CARE Rates:         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Super Off-Peak         0.25682         R         0.00000         0.25697         1         0.51379         1         0.33965           Super Off-Peak         0.25682         R         0.00000         0.09233         1         0.34915         1         0.22725           Winter - CARE Rates:         0.43739         I         0.00000         0.19307         I         0.83046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Summer Baseline         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         (0.11724)         R         (0.11724)         R         (0.11724)         R         (0.08004)           30% of Baseline         0.190         I	914	
On-Peak         0.25682         R         0.00000         0.57043         I         0.82725         I         0.55366           Off-Peak         0.25682         R         0.00000         0.25697         I         0.51379         I         0.33965           Super Off-Peak         0.25682         R         0.00000         0.09233         I         0.34915         I         0.22725           Winter - CARE Rates:         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         Adjustment Credit up to         I         I         0.11724)         R         (0.11724)         R         (0.08004)           130% of Baseline         Winter Baseline Adjustment         I         I         I         0.190         I         I         0.190         I         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-	
Off-Peak         0.25682         R         0.00000         0.25697         1         0.51379         1         0.33965           Super Off-Peak         0.25682         R         0.00000         0.09233         1         0.34915         1         0.22725           Winter - CARE Rates:         0         0.43739         1         0.00000         0.19307         1         0.63046         1         0.41930           Off-Peak         0.43739         1         0.00000         0.19307         1         0.63046         1         0.41930           Super Off-Peak         0.43739         1         0.00000         0.08402         1         0.54594         1         0.34660           Super Off-Peak         0.43739         1         0.00000         0.08402         1         0.52141         1         0.34485           Summer Baseline         (0.11724)         R         (0.11724)         R         (0.08004)         1           30% of Baseline         (0.11724)         R         (0.11724)         R         (0.08004)         1         0.190         I         Note:           11         Total Rates resented are for customers that receive commodity cust) rates, with the EECC rates reflecting a DWR Credi are applicable to bundled cus	I	
Super Off-Peak         0.25682         R         0.00000         0.09233         1         0.34915         1         0.22725           Winter - CARE Rates:         0.43739         I         0.00000         0.19307         1         0.63046         1         0.41930           Off-Peak         0.43739         I         0.00000         0.19307         I         0.63046         I         0.41930           Super Off-Peak         0.43739         I         0.00000         0.19855         I         0.54594         I         0.36160           Summer Baseline         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         (0.11724)         R         (0.11724)         R         (0.08004)           30% of Baseline         (0.11724)         R         (0.11724)         R         (0.08004)           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I         0.190           Note:         I         0.190         I         0.190         I         0.190         I         0.190           Vinter Rates presented are for oustomers only. See Special Condition 16 for PCIA (Power Charge Indi	1	
Winter - CARE Rates:       0.43739       I       0.00000       0.19307       I       0.63046       I       0.41930         Off-Peak       0.43739       I       0.00000       0.19307       I       0.63046       I       0.41930         Super Off-Peak       0.43739       I       0.00000       0.19355       I       0.54594       I       0.36160         Super Off-Peak       0.43739       I       0.00000       0.08402       I       0.52141       I       0.34465         Summer Baseline       (0.11724)       R       (0.11724)       R       (0.08004)       1         130% of Baseline       (0.11724)       R       (0.11724)       R       (0.08004)       1         Winter Baseline Adjustment Credit up to 130% of Baseline       (0.11724)       R       (0.11724)       R       (0.08004)         Minimum Bill (\$/day)       0.190       I       0.190       I       0.190       I       0.190         Note:       I       Total Rates presented are for customers only. See Special Condition 16 for PCIA (Power Charge Indifference Adjustment) receive commodity cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers only. See Special Condition 18 for PCIA (Power Charge Indifference Adjustment) receive commodity supply and delivery service from Utibity.	1	
On-Peak         0.43739         I         0.00000         0.19307         1         0.63046         1         0.41930           Off-Peak         0.43739         I         0.00000         0.10855         I         0.54594         I         0.36160           Super Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.3465           Summer Baseline Adjustment Credit up to 130% of Baseline Adjustment Credit up to 130% of Baseline         (0.11724)         R         (0.11724)         R         (0.08004)           Minimum Bill (\$/day)         0.190         I         (0.11724)         R         (0.11724)         R         (0.08004)           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         0.190         I         0.190           Note:         (1)         Total Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule EECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers only. See Special Condition 16 for PCL4 (Power Charge indifference Adjustment) reci (2)         Total Rates presented are for customers that receive commodity supply and delivery service from UNN:         (3)           (3)         DWR-BC and WF-NBC charges do not apply to CARE custome	1.1	
Off-Peak         0.43739         I         0.00000         0.10855         I         0.54594         I         0.38160           Super Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         Adjustment Credit up to         (0.11724)         R         (0.11724)         R         (0.08004)           130% of Baseline         Winter Baseline Adjustment         (0.11724)         R         (0.11724)         R         (0.08004)           State ine         (0.11724)         R         (0.11724)         R         (0.08004)           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I           Note:         (1)         Total Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule EECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers only. See Special Condition 16 for PCIA (Power Charge Indifference Adjustment) red           (2)         Total Rates presented are for oustomers that receive commodity supply and delivery service from Utility.           (3)         DWR-NBC and WF-NBC charges do not apply to CARE customers.           (4)         As identified in the rates tables, customer bills will also include l	1	
Super Off-Peak         0.43739         I         0.00000         0.08402         I         0.52141         I         0.34485           Summer Baseline         Adjustment Credit up to         (0.11724)         R         (0.11724)         R         (0.08004)           130% of Baseline         Winter Baseline Adjustment         (0.11724)         R         (0.11724)         R         (0.08004)           Credit up to         130% of         Isseline         (0.11724)         R         (0.08004)           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I         0.190           Minimum Bill (\$/day)         0.190         I         0.190         I         0.190         I         0.190         I           Note:         I         Total Rates consist of UDC, Schedule EVC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule ECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers that receive commodity supply and delivery service from Utility.           (3)         DWR-NBC and WF-NBC charges do not apply to CARE customers.         I         A sidentified in the rates tables, customer bills will also incl	1	
Summer Baseline       (0.11724)       R       (0.11724)       R       (0.08004)         130% of Baseline       Winter Baseline Adjustment       (0.11724)       R       (0.08004)       (0.08004)         Credit up to 130% of       (0.11724)       R       (0.11724)       R       (0.08004)         Baseline       (0.11724)       R       (0.11724)       R       (0.08004)         Minimum Bill (\$/day)       0.190       I       0.190       I       0.190         Note:       (1)       Total Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule EECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled oustomers only. See Special Condition 16 for PCIA (Power Charge Indifference Adjustment) red         (2)       Total Rates presented are for oustomers that receive commodity supply and delivery service from Utility.         (3)       DWR-BC and WF-NBC charges do not apply to CARE customers.         (4)       As identified in the rates tables, customer bills will also include line-item summer and winter credits for usage up to 130 baseline to provide the rate capping benefits adopted by Assembly Bill 1X and Senate Bil 695.         (5)       WF-NBC rate is 0.00530 + DWR-BC Bond Charge is 0.00000 .	1	
Vinime baseline rogulation       (0.11724)       R       (0.11724)       R       (0.08004)         Baseline       (0.11724)       R       (0.11724)       R       (0.08004)         Minimum Bill (\$/day)       0.190       I       0.190       I       0.190       I       0.190         Note:       (1)       Total Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule EECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers only. See Special Condition 16 for PCIA (Power Charge Indifference Adjustment) rec         (2)       Total Rates presented are for customers that receive commodity supply and delivery service from Utility.         (3)       DWR-BC and WF-NBC charges do not apply to CARE customers.         (4)       As identified in the rates tables, customer bills will also include line-item summer and winter credits for usage up to 130 baseline to provide the rate capping benefits adopted by Assembly Bill 1X and Senate Bil 695.         (5)       WF-NBC rate is 0.00530 + DWR-BC Bond Charge is 0.00000 .	R	
Minimum Bill (\$/day)         0.190         I         0.190	R	
<ol> <li>Note:</li> <li>Total Rates consist of UDC, Schedule DWR-BC (Department of Water Resources Bond Charge), Schedule WF-NBC Fund charge) and Schedule EECC (Electric Energy Commodity Cost) rates, with the EECC rates reflecting a DWR Credit are applicable to bundled customers only. See Special Condition 16 for PCIA (Power Charge Indifference Adjustment) rec (2) Total Rates presented are for outcomers that receive commodity supply and delivery service from Utility.</li> <li>DWR-BC and WF-NBC charges do not apply to CARE customers.</li> <li>As identified in the rates tables, customer bills will also include line-item summer and winter credits for usage up to 130 baseline to provide the rate capping benefits adopted by Assembly Bill 1X and Senate Bill 695.</li> <li>WF-NBC rate is 0.00530 + DWR-BC Bond Charge is 0.00000 -</li> </ol>	i	
	R I I (CA Widfire L EECC rates zovery.	
(Continued)		
2C8 Issued by Submitted		
Advice Ltr. No. 4129-E Dan Skopec Effective	Dec 30, 2	
Decision No. Regulatory Affairs Resolution No.	Dec 30, 2 Jan 1, 2	

#### **Time Periods**

\*

All time periods listed are applicable to local time. The definition of time will be based upon the date service is rendered.

TOU Periods – Weekdays	Summer	Winter
On-Peak	4:00 p.m. – 9:00 p.m.	4:00 p.m. – 9:00 p.m.
Off-Peak	6:00 a.m. – 4:00 p.m.; 9:00 p.m midnight	6:00 a.m. – 4:00 p.m. Excluding 10:00 a.m. – 2:00 p.m. in March and April; 9:00 p.m midnight
Super Off-Peak	Midnight – 6:00 a.m.	Midnight – 6:00 a.m. 10:00 a.m. – 2:00 p.m. in March and April
TOU Period – Weekends and Holidays	Summer	Winter
On-Peak	4:00 p.m. – 9:00 p.m.	4:00 p.m. – 9:00 p.m.
Off-Peak	2:00 p.m. – 4:00 p.m.; 9:00 p.m midnight	2:00 p.m. – 4:00 p.m.; 9:00 p.m midnight
Super Off-Peak	Midnight – 2:00 p.m.	Midnight – 2:00 p.m.

Seasons:	Summer	June 1 – October 31
	Winter	November 1 - May 31

Baseline Usage: The following quantities of electricity are used to calculate the baseline adjustment 15. credit.

	Baseline Allowance For Climatic Zones*				
	Coastal	Inland	Mountain	Desert	
Basic Allowance		2071.		1.5	
Summer (June 1 to October 31)	9.0	10.4	13.6	15.9	
Winter (November 1 to May 31)	9.2	9.6	12.9	10.9	
All Electric**					
Summer (June 1 to October 31)	6.0	8.7	15,2	17.0	
Winter (November 1 to May 31)	8.8	12.2	22.1	17.1	

Climatic Zones are shown on the Territory Served, Map No. 1. \*\*

All Electric allowances are available upon application to those customers who have permanently installed space heating or who have electric water heating and receive no energy from another source.

San Diego, California       Canceling       Revised       Cal. P.U.C. Sheet No.       37016-1         SCHEDULE EV-TOU-5       Sheet 1         COST-BASED DOMESTIC TIME-OF-USE FOR HOUSEHOLDS WITH ELECTRIC VEHICLES         APPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is. 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home retueling appliance (HRA) at the customer's premises; or 2) a natural gas revice on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.         IERRITORY         Within the entire territory served by the utility.         Rate         Description - EV-TOU-5 Rate         Mere       MR BC+       ECC Rate +       Total         Basic Service Fee       16.00       MW F-MBC       DWR Credit       Rate         On-Peak       0.28032 I       0.00530 I       0.33067 I       0.81629 I       1       0.5588 I	San Diego, California       Cancelling       Revised       Cal P.U.C. Sheet No.       37016-1         SCHEDULE EV-TOU-6       Sheet 1         COST-BASED DOMESTIC TIME-OF-USE FOR HOUSEHOLDS WITH ELECTRIC VEHICLES         APPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; 0: 2) a natural gas vehicle (NOV) refueled via a home refueluing applicance (HRA) at the customer's premises or 2) a natural gas vehicle (NOV) refueled via a nore refueluing applicance (HRA) at the customer's premises on-board generator) hybrid electric vehicle (HEV).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (NAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.         IERRITORY         Within the entire territory served by the utility.         Rate         Basic Service Fee         1000530 I       053067 I       081629 I         On-Peak       0280032 I       000530 I       053067 I <th>San Diego Gas &amp; Electric Comp</th> <th>bany</th> <th>-</th> <th>Revised</th> <th>Udi. F.U.U.</th> <th>Sheer NO.</th> <th></th> <th>51211-E</th>	San Diego Gas & Electric Comp	bany	-	Revised	Udi. F.U.U.	Sheer NO.		51211-E	
SPEEDULE EV.TOU-5       Schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling application (HRA) at the customer's with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HEV).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. <b>ERRITORY</b> Within the entire territory served by the utility. <b>Basic Service Fee</b> Integer MFRS + ECC Rate + Total         On-Peak       0.28032 1 0.00530 1 0.53067 1 0.81629 1 0.015351 1 0.015351 1 0.92537 1 0.416129 1 15.02531 1 0.95530 1 0.05530 1 0.05530 1 0.15557 1 0.416129 1 1.5151 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.416129 1 1.51551 1 0.97588 1 0.00530 1 0.05230 1 0.15557 1 0.511	SCHEDULE EV-TOU-3       Schedule EV-TOU-S RATE LECTRIC VEHICLES         ADPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling applicance (HRA) at the customer's premises; or 2) a natural gas vehice (NGV) refueled via a home refueling applicance (HRA) at the customer's premises; or 2) a natural gas vehice (NGV) refueled via a home require a qualifying motor vehicle, as described above to participate on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.         Emprise:         Totation PWR BC + ECC Rate + Total         Batter Distribution - EV-TOU-5 Rate * WF-NBC         Distribution - EV-TOU-5 Rate * WF-NBC         Non Receive Fee         10,00530 1         0,00530 1         0,00530 1         0,00530 1         0,00530 1         0,00530 1 <td colspa<="" th=""><th>San Diego, California</th><th>Can</th><th>celing _</th><th>Revised</th><th>Cal. P.U.C.</th><th>Sheet No.</th><th></th><th>37016-E</th></td>	<th>San Diego, California</th> <th>Can</th> <th>celing _</th> <th>Revised</th> <th>Cal. P.U.C.</th> <th>Sheet No.</th> <th></th> <th>37016-E</th>	San Diego, California	Can	celing _	Revised	Cal. P.U.C.	Sheet No.		37016-E
COST-BASED DOMESTIC TIME-OF-USE FOR HOUSEHOLDS WITH ELECTRIC VEHICLES         APPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharging outie at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via previous (between the customer's prevented to utilize EV-TOU-5 as their otherwise applicable schedule (NAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.         Emerition Extend to the utility.         Emerition Extend to the utility.         <td colspan="</td> <td>COST-BASED DOMESTIC TIME-OF-USE FOR HOUSEHOLDS WITH ELECTRIC VEHICLES         APPLICABILIT         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle (MGV) relucied via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 1) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 1) is schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HEV).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual Califonia Climate Credit \$(60.70) per Schedule GHG-ARR.         <b>EXPENDENCE</b>         Description – EV-TOU-5 Rate &amp; Wr MBC &amp; Wr MBC</td> <td></td> <td>S</td> <td>CHED</td> <td>ULE EV</td> <td>-TOU-5</td> <td></td> <td></td> <td>Sheet 1</td>	COST-BASED DOMESTIC TIME-OF-USE FOR HOUSEHOLDS WITH ELECTRIC VEHICLES         APPLICABILIT         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle (MGV) relucied via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 1) a natural gas vehicle (NGV) refueled via a home refueling appliance (HRA) at the customer's premises; or 1) is schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HEV).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual Califonia Climate Credit \$(60.70) per Schedule GHG-ARR. <b>EXPENDENCE</b> Description – EV-TOU-5 Rate & Wr MBC		S	CHED	ULE EV	-TOU-5			Sheet 1	
APPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (PEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; or 2) a natural gas vehicle (NGV) refueled via a home refueling appliance (HAA) at the customer's premise; This schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HAC).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. <b>TERRITORY</b> Within the entire terntory served by the utility. <b>Barses Data taking Dataking Data taking</b> <	APPLICABILITY         Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customers y premises; or 2) a natural gas vehicle (NGV) retueled via a home refueling appliance (HAA) at the customers y premises; or 2) an atural gas vehicle (NGV) retueled via a home refueling appliance (HAA) at the customers y premises; or 1) is schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HEV).         Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5.         Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARE <b>DERRITORY</b> Within the entire territory served by the utility. <b>Baic Description</b> - <u>EV-TOU-5 Rate</u> <u>MW R BC + ECC Rate + Total</u> <u>Sammer</u> <u>16.00</u> <u>0.00530 I 0.00530 I 0.5567 I 0.61492 I 1         <u>0.00530 I 0.00530 I 0.05237 I 0.51149 I 1         <u>0.00530 I 0.00530 I 0.05237 I 0.51149 I 1         <u>0.00530 I 0.00530 I 0.05267 I 0.51149 I 1         <u>0.00530 I 0.05263 I 0.00530 I 0.16213 I 0.44775 I 1         <u>0.00530 </u></u></u></u></u></u>	COST-BASED DOM	IESTIC TIME-C	OF-USE	FOR HO	USEHOLDS	WITH ELEC	TRIC VEHICI	ES	
Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outlet at the customer's premises; or 2) a natural gas vehicle (NGV) retueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (NGV) retueled via a home refueling appliance (HRA) at the customer's premises; or 2) an atural gas vehicle (NGV) retueled via a home refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle is on available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's on-board generator) hybrid electric vehicle (HEV). Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5. Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. <u>IERRITORY</u> Within the entire territory served by the utility. <u>RATES</u> Total Rates:    tr>  Description - EV-TOU-5 Rates    UDC Total  DWR BC +        Basic Service Fee   16.00     Supmore   0.28032 I     0.05588 I   0.00530 I     0.70:Peak   0.28032 I     0.05588 I   0.00530 I     0.16:Peak   0.28032 I     0.05588 I   0.0530 I     0.05588 I   0.0530 I    0.16:Peak   0.28032 I	Service under this schedule is specifically limited to customers who require service for charging of a currently registered Motor Vehicle, as defined by the California Motor Vehicle Code, which is: 1) a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) recharged via a recharging outer at the customer's premises; or 2) a natural gas vehicle (IGV) or plug-in hybrid electric vehicle (PHEV) recharged via a rome refueling appliance (HRA) at the customer's premises; or 2) a natural gas vehicle (IGV) or plug-in hybrid electric vehicle (HEV). Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5. Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. <b>TERRITORY</b> Within the entire territory served by the utility. <b>RATES</b> <b>Total Rates</b> :			API	PLICABIL	ITY				
Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5. Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. <u>TERRITORY</u> Within the entire territory served by the utility. <u>RATES</u> <u>Total Rates:</u> <u>Description - EV-TOU-5 Rates</u> <u>UDC Total</u> <u>Rate</u> <u>WF-NBC</u> <u>DWR Credit</u> <u>Rate</u> <u>Basic Service Fee</u> <u>16.00</u> <u>Summer</u> <u>0n-Peak</u> <u>0.28032</u> I 0.00530 I 0.53067 I 0.81629 I <u>0ff-Peak</u> <u>0.28032</u> I 0.00530 I 0.09233 I 0.15351 I <u>Super Off-Peak</u> <u>0.28032</u> I 0.00530 I 0.22587 I 0.51149 I <u>0ff-Peak</u> <u>0.28032</u> I 0.00530 I 0.16213 I 0.44775 I <u>Super Off-Peak</u> <u>0.28032</u> I 0.00530 I 0.62267 I 0.51149 I <u>0.14520 I</u> <u>0.14520 I</u>	Residential customers taking service on Schedule NBT, who are required to utilize EV-TOU-5 as their otherwise applicable schedule (OAS) for electric service, do not require a qualifying motor vehicle, as described above to participate on Schedule EV-TOU-5. Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR. TERRITORY Within the entire territory served by the utility. RATES Total Rates: Description - EV-TOU-5 Rates UDC Total DWR BC + EECC Rate + Total Rate WF-NBC DWR Credit Rate Basic Service Fee 16.00 16.00 Summer 0n-Peak 0.28032 I 0.00530 I 0.53067 I 0.81629 I Off-Peak 0.28032 I 0.00530 I 0.19567 I 0.48129 I Super Off-Peak 0.28032 I 0.00530 I 0.09233 I 0.15351 I Winter 0n-Peak 0.28032 I 0.00530 I 0.09233 I 0.15351 I Super Off-Peak 0.28032 I 0.00530 I 0.16213 I 0.44775 I Super Off-Peak 0.28032 I 0.00530 I 0.16213 I 0.44775 I Super Off-Peak 0.28032 I 0.00530 I 0.08402 I 0.14520 I	Service under this schedule registered Motor Vehicle, a vehicle (BEV) or plug-in hy premises; or 2) a natural ga premises. This schedule recharged solely from the ve	e is specifically as defined by t vbrid electric ve as vehicle (NGV is not availab ehicle's on-boa	limited t the Cali ehicle (F /) refuel ole to c ard gene	to custom ifornia Mo PHEV) reo led via a l ustomers erator) hyt	ers who requ tor Vehicle charged via a nome refuelir with a com- rid electric v	ire service for Code, which a recharging og appliance ventional ch ehicle (HEV)	or charging of is: 1) a batte outlet at the (HRA) at the arge sustainin	a currently ery electric customer's customer's ng (battery	
Description of participate on outcome EV 100 0.           Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.           IERRITORY           Within the entire territory served by the utility.           RATES           Total Rates:           Description - EV-TOU-5 Rates           UDC Total DWR BC + EECC Rate + Total Rate           Basic Service Fee           16.00           On-Peak           0.28032 I 0.00530 I 0.53067 I 0.81629 I           On-Peak           0.28032 I 0.00530 I 0.19567 I 0.48129 I           Super Off-Peak           0.28032 I 0.00530 I 0.22587 I 0.51149 I           Super Off-Peak           0.28032 I 0.00530 I 0.122587 I 0.51149 I           On-Peak           0.28032 I 0.00530 I 0.16213 I 0.44775 I           Super Off-Peak           0.28032 I 0.00530 I 0.08402 I 0.14520 I	Customers on this schedule may also qualify for a semi-annual California Climate Credit \$(60.70) per Schedule GHG-ARR.           IERRITORY           Within the entire territory served by the utility.           RATES           Data Rates:           Difference           16.00           Same territory served by the utility.           Basic Service Fee         16.00           16.00         16.00           Super Off-Peak         0.28032 I 0.00530 I 0.53067 I 0.81629 I           Onf-Peak         0.28032 I 0.00530 I 0.19567 I 0.48129 I         0.15351 I           Super Off-Peak         0.28032 I 0.00530 I 0.09233 I 0.15351 I           Onf-Peak         0.28032 I 0.00530 I 0.22587 I 0.51149 I         0.15351 I           Onf-Peak         0.28032 I 0.00530 I 0.16213 I 0.44775 I           Super Off-Peak         0.28032 I 0.00530 I 0.08402 I 0.14520 I         0.14520 I	Residential customers taki otherwise applicable scheo described above to participa	ng service on dule (OAS) for ate on Schedule	Sched r electri	ule NBT, ic service	who are re do not rec	quired to ut juire a qual	lize EV-TOU fying motor	-5 as their vehicle, as	
IERRITORY         Within the entire territory served by the utility.         RATES         Total Rates:         Description - EV-TOU-5 Rates       DWC Total DWR BC + EECC Rate + Total Rate         Basic Service Fee       16.00         On-Peak       0.28032 I 0.00530 I 0.53067 I 0.81629 I         On-Peak       0.28032 I 0.00530 I 0.19567 I 0.81629 I         Super Off-Peak       0.28032 I 0.00530 I 0.22587 I 0.51149 I         On-Peak       0.28032 I 0.00530 I 0.22587 I 0.51149 I         Off-Peak       0.28032 I 0.00530 I 0.16213 I 0.44775 I       0.14520 I         Super Off-Peak       0.05588 I 0.00530 I 0.08402 I 0.14520 I	IERRITORY         Within the entire territory served by the utility.         RATES         Total Rates:         Description - EV-TOU-5 Rates       DWR BC + EECC Rate + Total Rate         Basic Service Fee         16.00       16.00         Summer         0n-Peak       0.28032       1       0.00530       1       0.53067       1       0.81629       1         Super Off-Peak       0.28032       1       0.00530       1       0.19567       1       0.48129       1         Winter       0.28032       1       0.00530       1       0.22567       1       0.51149       1         Off-Peak       0.28032       1       0.00530       1       0.22567       1       0.51149       1         Off-Peak       0.28032       1       0.00530       1       0.22567       1       0.51149       1         Super Off-Peak       0.28032       1       0.00530       1       0.22567       1       0.414775       I         Super Off-Peak       0.28032       1       0.00530       1       0.48402       1       0.14520       1 <td>Customers on this schedule ma</td> <td>av also qualify for</td> <td>a semi-a</td> <td>annual Cali</td> <td>fornia Climate</td> <td>Credit \$(60.7)</td> <td>)) per Schedule</td> <td>GHG-ARR.</td>	Customers on this schedule ma	av also qualify for	a semi-a	annual Cali	fornia Climate	Credit \$(60.7)	)) per Schedule	GHG-ARR.	
Within the entire territory served by the utility.         RATES         Total Rates:         Description - EV-TOU-5 Rates       UDC Total DWR BC + EECC Rate + Total Rate         Basic Service Fee       16.00       16.00         Summer         On-Peak       0.28032       I       0.00530       I       0.53067       I       0.81629       I         Super Off-Peak       0.28032       I       0.00530       I       0.19567       I       0.48129       I         Super Off-Peak       0.28032       I       0.00530       I       0.9233       I       0.15351       I         On-Peak       0.28032       I       0.00530       I       0.22587       I       0.51149       I         Off-Peak       0.28032       I       0.00530       I       0.16213       I       0.44775       I         Super Off-Peak       0.28032       I       0.00530       I       0.08402       I       0.14520       I	Within the entire territory served by the utility.         RATES         Total Rates:         Description - EV-TOU-5 Rates       DWR DC + total DWR BC + total Rate         Basic Service Fee       16.00         Summer         On-Peak       0.28032       1       0.00530       1       0.53067       I       0.81629       I         Off-Peak       0.28032       I       0.00530       I       0.19567       I       0.48129       I         Super Off-Peak       0.25588       I       0.00530       I       0.22587       I       0.51149       I         Off-Peak       0.28032       I       0.00530       I       0.16213       I       0.44775       I         Super Off-Peak       0.28032       I       0.00530       I       0.22587       I       0.51149       I         Off-Peak       0.28032       I       0.00530       I       0.22587       I       0.51149       I         Off-Peak       0.28032       I       0.00530       I       0.16213       I       0.14520       I	TERRITORY	,,,							
RATES         Total Rates:         Description - EV-TOU-5 Rates       UDC Total Rate       DWR BC + Rate       EECC Rate + Rate       Total Rate         Basic Service Fee       16.00       16.00       16.00         Summer       0.28032 I       0.00530 I       0.53067 I       0.81629 I       0.48129 I         Off-Peak       0.28032 I       0.00530 I       0.19567 I       0.48129 I       I         Winter       0.05588 I       0.00530 I       0.09233 I       0.15351 I         Off-Peak       0.28032 I       0.00530 I       0.22587 I       0.51149 I         Off-Peak       0.28032 I       0.00530 I       0.16213 I       0.44775 I         Super Off-Peak       0.28032 I       0.00530 I       0.16213 I       0.44775 I         Our-Peak       0.28032 I       0.00530 I       0.16213 I       0.44775 I         Super Off-Peak       0.05588 I       0.00530 I       0.16213 I       0.14520 I	RATES         Total Rates:         Description - EV-TOU-5 Rates       UDC Total Rate       DWR BC + WF-NBC       EECC Rate + DWR Credit       Total Rate         Basic Service Fee       16.00       16.00       16.00         Summer       0.28032       I       0.00530       I       0.53067       I       0.81629       I         On-Peak       0.28032       I       0.00530       I       0.19567       I       0.48129       I         Super Off-Peak       0.05588       I       0.00530       I       0.09233       I       0.15351       I         Winter       On-Peak       0.28032       I       0.00530       I       0.22587       I       0.51149       I         Off-Peak       0.28032       I       0.00530       I       0.16213       I       0.44775       I         Super Off-Peak       0.05588       I       0.00530       I       0.08402       I       0.14520       I	Within the entire territory se	rved by the util	lity						
INTES           Total Rates:           Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00           Summer         0.00530         1         0.53067         1         0.81629         1           Off-Peak         0.28032         I         0.00530         1         0.19567         1         0.48129         1           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.25588         I         0.00530         I         0.08402         I         0.14520         I	Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00           Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.22637         I         0.51149         I           On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Super Off-Peak         0.28032         I         0.00530         I         0.42757         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	DATES	i i ca cy nic an							
Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + Rate         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00         16.00         16.00         16.00         16.00         16.00         16.00         10.00 <t< td=""><td>Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00         16.00           Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Off-Peak         0.28032         I         0.00530         I         0.18213         I         0.44775         I           Super Off-Peak         0.25588         I         0.00530         I         0.08402         I         0.14520         I</td><td>KATES</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00         16.00           Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Off-Peak         0.28032         I         0.00530         I         0.18213         I         0.44775         I           Super Off-Peak         0.25588         I         0.00530         I         0.08402         I         0.14520         I	KATES								
Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00         16.00           Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.22587         I         0.51149         I           On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.14520         I	Description - EV-TOU-5 Rates         UDC Total Rate         DWR BC + WF-NBC         EECC Rate + DWR Credit         Total Rate           Basic Service Fee         16.00         16.00         16.00           Summer         0n-Peak         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.25588         I         0.00530         I         0.08402         I         0.14520         I	Total Rates:								
Basic Service Fee         16.00         16.00           Summer         0.0.9eak         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Basic Service Fee         16.00         16.00           Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.19567         I         0.48129         I           On-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I		UDC Total D	WR BC +	EEC	C Rate +	Total			
Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Summer         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates	Rate V	NF-NBC		R Credit	Rate			
On-Peak         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	On-Peak         0.28032         I         0.00530         I         0.53067         I         0.81629         I           Off-Peak         0.28032         I         0.00530         I         0.19567         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Off-Peak         0.25588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates Basic Service Fee	Rate V 16.00	WF-NBC	DW	R Credit	Rate 16.00			
On-Peak         0.28032         I         0.00530         I         0.19367         I         0.48129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0.28032         I         0.00530         I         0.22587         I         0.51149         I           On-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	On-Peak         0.28032         I         0.00530         I         0.19567         I         0.46129         I           Super Off-Peak         0.05588         I         0.00530         I         0.09233         I         0.15351         I           Winter         0         0.28032         I         0.00530         I         0.22587         I         0.51149         I           On-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates Basic Service Fee Summer	Rate V 16.00	WF-NBC	- DW	R Credit	Rate 16.00			
Winter         0.03338         I         0.03111         I         0.51149         I           Off-Peak         0.035308         I         0.005300         I         0.08402         I         0.14520         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Winter         0.03338         I         0.03338         I         0.03233         I         0.13331         I           On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off Beak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0	0.00530	I 0.	53067 I	Rate 16.00 0.81629	I		
On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	On-Peak         0.28032         I         0.00530         I         0.22587         I         0.51149         I           Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0           0.05558         I         0         0	0.00530 0.00530	I 0. I 0.	53067 I 19567 I	Rate 16.00 0.81629 0.48129 0.15351	I I		
Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Off-Peak         0.28032         I         0.00530         I         0.16213         I         0.44775         I           Super Off-Peak         0.05588         I         0.00530         I         0.08402         I         0.14520         I	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter	Rate         V           16.00	0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0.	53067 I 19567 I 09233 I	Rate 16.00 0.81629 0.48129 0.15351	I I I		
Super Off-Peak 0.05588 I 0.00530 I 0.08402 I 0.14520 I	Super Off-Peak 0.05588 I 0.00530 I 0.08402 I 0.14520 I	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0.28032         I         0           0.05588         I         0         0         0.28032         I         0	0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0.	8 Credit 53067 I 19567 I 09233 I 22587 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149	I I I		
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0.28032         I         0           0.05588         I         0         0         0.28032         I         0           0.28032         I         0         0         0.28032         I         0	0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0. I 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775	I I I I		
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0.28032         I         0           0.05588         I         0         <	0.00530 0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	1 0. 1 0. 1 0. 1 0. 1 0. 1 0. 1 0. 1 0.	R Credit           53067         I           19567         I           09233         I           22587         I           16213         I           08402         I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520	I I I I I I		
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00	0.00530 0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0. I 0. I 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520	I I I I I I		
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0           0.05588         I         0         0           0.28032         I         0         0           0.28032         I         0         0           0.28032         I         0         0           0.05588         I         0         0	0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0. I 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520	I I I I		
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0           0.05588         I         0 </td <td>0.00530 0.00530 0.00530 0.00530 0.00530 0.00530</td> <td>I 0. I 0. I 0. I 0. I 0.</td> <td>R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I</td> <td>Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520</td> <td></td> <td></td>	0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520			
		Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0           0.05588         I         0 </td <td>WF-NBC 0.00530 0.00530 0.00530 0.00530 0.00530</td> <td>1 0. 1 0. 1 0. 1 0. 1 0. 1 0.</td> <td>R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I</td> <td>Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520</td> <td></td> <td></td>	WF-NBC 0.00530 0.00530 0.00530 0.00530 0.00530	1 0. 1 0. 1 0. 1 0. 1 0. 1 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520			
(Continued)	(Continued)	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0.05588         I         0           0.28032         I         0         0         0.28032         I         0           0.28032         I         0         0         0.05588         I         0	VF-NBC 0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0.	R Credit 53067 I 19567 I 09233 I 22587 I 16213 I 08402 I	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520			
(Continued) 1C5 Issued by Submitted Jan 30, 24	(Continued) 1C5 Issued by Submitted Jan 30, 2	Description – EV-TOU-5 Rates Basic Service Fee Summer On-Peak Off-Peak Super Off-Peak Winter On-Peak Off-Peak Super Off-Peak Super Off-Peak	Rate         V           16.00         0.28032         I         0           0.28032         I         0         0         0.05588         I         0           0.28032         I         0         0         0.28032         I         0           0.28032         I         0         0         0.05588         I         0	VF-NBC 0.00530 0.00530 0.00530 0.00530 0.00530 0.00530	I 0. I 0. I 0. I 0. I 0. I 0. I 0.	ed)	Rate 16.00 0.81629 0.48129 0.15351 0.51149 0.44775 0.14520	I I I I I	Jan 30, 20	

THE REPORT OF A DESCRIPTION OF A DESCRIP	ipany	Revised	Gar. P.U.G. Sneet NO.	37019-E
San Diego, California	Canceling	Revised	Cal. P.U.C. Sheet No.	35912-E
	SCHE	DULE EN	-TOU-5	Sheet 4
COST-BASED DOM	MESTIC TIME-OF-US	E FOR HO	USEHOLDS WITH ELECTR	RIC VEHICLES
tes: Transmission Energy 0.00242) per kWh and the /h. PPP Energy charges in P) \$0.00333/kWh (pursuan ocurement Energy Efficienc d Self-Generation Incentive stomer's bill and a 50% dis ERA) customers resulting in	charges include the Tr Transmission Access C ncludes Low Income PP It to PU Code Section 3 cy Surcharge Rate of \$0 Program rate (SGIP) \$0 scount is applied for CA their basic service fees t	ransmission harge Balan P rate (LI-P 99.8, the No .00422 /kWh .00122/kWh RE, Medical o be \$8 per i	Revenue Balancing Account cing Account Adjustment (TAC PP) \$0.01669/kWh, Non-low In n-LI-PPP rate may not exceed n, California Solar Initiative rate . The basic service fee of \$16   Baseline, or Family Electric R month.	Adjustment (TRBAA) of (BAA) of \$(0.01631) per come PPP rate (Non-LI- January 1, 2000 levels), c(CSI) of \$0.00000/kWh per month is applied to a tate Assistance Program
te Components e Utility Distribution Cor mponents (if applicable). Irpose Program (PPP) C ansition Charges (CTC), Ital Rate Adjustment Con	mpany Total Rates (U : (1) Transmission (Tr Charges, (4) Nuclear I (6) Local Generation mponent (TRAC).	JDC Total) ans) Charg Decommiss Charge (L	shown above are comprise les, (2) Distribution (Distr) C ioning (ND) Charge, (5) On GC), (7) Reliability Services	ed of the following charges, (3) Public going Competition s (RS), and (8) the
ertain Direct Access custo	omers are exempt from	m the TRA	C, as defined in Rule 1 – De	finitions.
Franchise Fee Differen hedule for all customers iferential shall be so indio	tial of 5.78% will be s within the corporate cated and added as a	e applied t e limits of separate it	o the monthly billings calo he City of San Diego. Su em to bills rendered to such	culated under this ich Franchise Fee customers.
time periods listed are a	applicable to actual "cl	ock" time)		
time periods listed are a TOU Period – Weekdays	applicable to actual "cl	ock" time)	Winter	
time periods. TOU Period – Weekdays On-Peak	applicable to actual "cl Summer 4:00 p.m. – 9:00 p.	ock" time) m. 4:0	Winter 0 p.m. – 9:00 p.m.	
time periods listed are a TOU Period – Weekdays On-Peak Off-Peak	applicable to actual "cl Summer 4:00 p.m. – 9:00 p. 6:00 a.m. – 4:00 p. 9:00 p.m. – midnig	m. 4:0 m.; 6:0 ht 9:0	Winter 0 p.m. – 9:00 p.m. 0 a.m. – 4:00 p.m. cluding 10:00 a.m.–2:00 p.m 0 p.m midnight	i.in March and April;
time periods listed are a TOU Period – Weekdays On-Peak Off-Peak Super-Off-Peak	applicable to actual "cl Summer 4:00 p.m. – 9:00 p. 6:00 a.m. – 4:00 p. 9:00 p.m. – midnig Midnight – 6:00 a.r	ock" time) m. 4:0 m.; 6:0 ht 9:0 n. Mid 10:	Winter 0 p.m. – 9:00 p.m. 0 a.m. – 4:00 p.m. cluding 10:00 a.m.–2:00 p.m 0 p.m midnight Inight – 6:00 a.m. 00 a.m. – 2:00 p.m. in Marcl	i.in March and April; h and April
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San Diego	Gas & Electric Company		Revised	Cal. P.U.C. Sheet I	NO.	35718
Sar	n Diego, California	Canceling	Revised	Cal. P.U.C. Sheet	No	32576
		SCH	EDULE E	-CARE		Sheet
	CAL	IFORNIA ALTE	RNATE R	ATES FOR ENERG	<u>BY</u>	
APPLICA	BILITY					
This sche following t in Rule 1 applicable	edule provides a Cal types of customers lis I, Definitions, and h e service schedule.	ifornia Alterna sted below that erein, and is	ate Rates at meet the taken in	for Energy (CAF e requirements fo conjunction with	RE) discount r CARE eligit n the custom	to each of the bility as defined her's otherwise
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2) Mi pro	ulti-family dwelling ur emises where the ind	nits and mobil lividual unit is	le home p submeter	arks supplied thro	ough one me	ter on a single
3) No	on-profit group living	facilities.				
4) Ag	gricultural employee h	nousing faciliti	es.			
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## 7.2.5 City of Palo Alto Utilities

Following are the CPAU electricity and natural gas tariffs applied in this study. The CPAU monthly gas rate in \$/therm was applied on a monthly basis according to the rates shown in Table 36. These rates are based on applying a normalization curve to the October 2023 tariff based on seven years of historical gas data. The monthly service charge applied was \$14.01 per month per the November 2023 G-1 tariff.

Month	G1 Volumetric Total Baseline	G1 Volumetric Total Excess
January	\$1.83532	\$3.35639
February	\$1.38055	\$2.59947
March	\$1.32506	\$2.47695
April	\$1.29680	\$2.44038
May	\$1.29511	\$2.43804
June	\$1.32034	\$2.45406
July	\$1.35688	\$2.61519
August	\$1.40696	\$2.67944
September	\$1.42130	\$2.70301
October	\$1.42310	\$2.48300
November	\$1.46286	\$2.45547
December	\$1.62415	\$2.62128

## Table 36: CPAU Monthly Gas Rate (\$/therm)

#### RESIDENTIAL ELECTRIC SERVICE

UTILITY RATE SCHEDULE E-1

#### A. APPLICABILITY:

This Rate Schedule applies to separately metered single-family residential dwellings receiving Electric Service from the City of Palo Alto Utilities.

#### B. TERRITORY:

This rate schedule applies everywhere the City of Palo Alto provides Electric Service.

### C. UNBUNDLED RATES:

Per kilowatt-hour (kWh)	Commodity	Distribution	Public Benefits	Total
Tier 1 usage				
	\$ 0.09999	\$ 0.06954	\$ 0.00568	\$ 0.17521
Tier 2 usage				
Any usage over Tier 1				
	0.13873	0.10225	0.00568	0.24666
Minimum Bill (\$/day)				0.4181

#### D. SPECIAL NOTES:

#### 1. Calculation of Cost Components

The actual bill amount is calculated based on the applicable rates in Section C above and adjusted for any applicable discounts, surcharges and/or taxes. On a Customer's bill statement, the bill amount may be broken down into appropriate components as calculated under Section C.

#### 2. Calculation of Usage Tiers

Tier 1 Electricity usage shall be calculated and billed based upon a level of 11 kWh per day, prorated by Meter reading days of Service. As an example, for a 30-day bill, the Tier 1 level would be 330 kWh. For further discussion of bill calculation and proration, refer to Rule and Regulation 11.

{End}

CITY OF PALO ALTO UTILITIES Issued by the City Council

Supersedes Sheet No E-1-1 dated 7-1-2022



Sheet No E-1-1 Effective 7-1-2023

## 7.2.6 Sacramento Municipal Utilities District (Electric Only)

Following are the SMUD electricity tariffs applied in this study. The rates effective January 2023 were used.

## Residential Time-of-Day Service Rate Schedule R-TOD

#### II. Firm Service Rates

A. Time-of-Day (5-8 p.m.) Rate

	Effective as of January 1, 2023	Effective as of January 1, 2024	Effective as of May 1, 2024	Effective as of January 1, 2025	Effective as of May 1, 2025
Time-of-Day (5-8 p.m.) Rate (RT02)		and the second second			
Non-Summer Season (October - May)			C		
System Infrastructure Fixed Charge permonth permeter	\$23.50	\$24,15	\$24.80	\$25.50	\$26.20
Electricity Usage Charge					
Peak S/k Wh	\$0.1547	\$0.1590	\$0.1633	\$0.1678	\$0.1724
Off-Peak S/kWh	\$0.1120	\$0.1151	\$0.1183	\$0.1215	\$0.1248
Summer Season (June - September)					
System Infrastructure Fixed Charge per month per meter	\$23.50	\$24.15	\$24.80	\$25.50	\$26.20
Electricity Usage Charge					
Peak S/k Wh	\$0.3279	\$0.3369	\$0.3462	\$0.3557	\$0.3655
Mid-Peak S/k Wh	\$0,1864	\$0.1914	\$0.1967	\$0.2021	\$0.2077
Off-Peak \$/kWh	\$0,1350	\$0,1387	\$0.1425	\$0.1464	\$0.1505

#### B. Optional Critical Peak Pricing Rate

- 1. The CPP Rate base prices per time-of-day period are the same as the prices per time-of-day period for TOD (5-8 p.m.).
- 2. The CPP Rate provides a discount per kWh on the Mid-Peak and Off-Peak prices during summer months.
- During CPP Events, customers will be charged for energy used at the applicable time-of-day period rate plus the CPP Rate Event Price per kWh as shown on www.smud.org.
- During CPP Events, energy exported to the grid will be compensated at the CPP Rate Event Price per kWh as shown on www.smud.org.
- 5. The CPP Rate Event Price and discount will be updated annually at SMUD's discretion and posted on www.smud.org.

#### C. Plug-In Electric Vehicle Credit (rate categories RT02 and RTC1)

This credit is for residential customers who have a licensed passenger battery electric plug-in or plug-in hybrid electric vehicle. Credit applies to all electricity usage charges from midnight to 6:00 a.m. daily.

Electric Vehicle Credit.....-\$0.0150/kWh

#### III. Electricity Usage Surcharges

Refer to the following rate schedules for details on these surcharges.

A. Hydro Generation Adjustment (HGA). Refer to Rate Schedule HGA.

#### IV. Rate Option Menu

- A. Energy Assistance Program Rate. Refer to Rate Schedule EAPR.
- B. Medical Equipment Discount Program. Refer to Rate Schedule MED.
- C. Joint Participation in Medical Equipment Discount and Energy Assistance Program Rate. Refer to Rate Schedule MED.

#### SACRAMENTO MUNICIPAL UTILITY DISTRICT

Resolution No. 23-09-09 adopted September 21, 2023

Sheet No. R-TOD-2 Effective: September 22, 2023 A. Time-of-Day (5-8 p.m.) Rate (rate category RT02)

- The TOD (5-8 p.m.) Rate is the standard rate for SMUD's residential customers. Eligible customers can elect the Fixed Rate under Rate Schedule R as an alternative rate.
- The TOD (5-8 p.m.) Rate is an optional rate for customers who have an eligible renewable electrical generation facility under Rate Schedule NEM1 that was approved for installation by SMUD prior to January 1, 2018.
- This rate has five kilowatt-hour (kWh) prices, depending on the time-of-day and season as shown below. Holidays are detailed in Section V. Conditions of Service.

No. 61 1.	Peak	Weekdays between 5:00 p.m. and 8:00 p.m.
Summer (Jun 1 - Sept 30)	Mid-Peak	Weekdays between noon and midnight except during the Peak hours.
2	Off-Peak	All other hours, including weekends and holidays <sup>1</sup> .
Non-Summer	Peak	Weekdays between 5:00 p.m. and 8:00 p.m.
(Oct 1 - May 31)	Off-Peak	All other hours, including weekends and holidays1.

See Section V. Conditions of Service

## 7.2.7 Fuel Escalation Assumptions

The average annual escalation rates in Table 37 were used in this study. These are based on assumptions from the CPUC 2021 En Banc hearings on utility costs through 2030 (California Public Utilities Commission, 2021a). Escalation rates through the remainder of the 30-year evaluation period are based on the escalation rate assumptions within the 2022 TDV factors. No data was available to estimate electricity escalation rates for CPAU and SMUD, therefore electricity escalation rates for PG&E and statewide natural gas escalation rates were applied. Table 38 presents the average annual escalation rates used in the utility rate escalation sensitivity analysis shown in Section 4.6.3. Rates were applied for the same 30-year period and are based on the escalation rate assumptions within the 2025 LSC factors from 2027 through 2053.<sup>24</sup> These rates were developed for electricity use statewide (not utility-specific) and assume steep increases in gas rates in the latter half of the analysis period. Data was not available for years 2024, 2025, and 2026 and so the CPUC En Banc assumptions were applied for those years using the average rate across the three IOUs for statewide electricity escalation.

	Statewide Natural Gas Residential	Electric Residential Average Rate (%/year, real)				
Year	(%/year, real)	PG&E	SCE	SDG&E		
2024	4.6%	1.8%	1.6%	2.8%		
2025	4.6%	1.8%	1.6%	2.8%		
2026	4.6%	1.8%	1.6%	2.8%		
2027	4.6%	1.8%	1.6%	2.8%		
2028	4.6%	1.8%	1.6%	2.8%		
2029	4.6%	1.8%	1.6%	2.8%		
2030	4.6%	1.8%	1.6%	2.8%		
2031	2.0%	0.6%	0.6%	0.6%		
2032	2.4%	0.6%	0.6%	0.6%		
2033	2.1%	0.6%	0.6%	0.6%		
2034	1.9%	0.6%	0.6%	0.6%		
2035	1.9%	0.6%	0.6%	0.6%		
2036	1.8%	0.6%	0.6%	0.6%		
2037	1.7%	0.6%	0.6%	0.6%		
2038	1.6%	0.6%	0.6%	0.6%		
2039	2.1%	0.6%	0.6%	0.6%		
2040	1.6%	0.6%	0.6%	0.6%		
2041	2.2%	0.6%	0.6%	0.6%		
2042	2.2%	0.6%	0.6%	0.6%		
2043	2.3%	0.6%	0.6%	0.6%		
2044	2.4%	0.6%	0.6%	0.6%		
2045	2.5%	0.6%	0.6%	0.6%		
2046	1.5%	0.6%	0.6%	0.6%		
2047	1.3%	0.6%	0.6%	0.6%		
2048	1.6%	0.6%	0.6%	0.6%		
2049	1.3%	0.6%	0.6%	0.6%		
2050	1.5%	0.6%	0.6%	0.6%		
2051	1.8%	0.6%	0.6%	0.6%		
2052	1.8%	0.6%	0.6%	0.6%		
2053	1.8%	0.6%	0.6%	0.6%		

# Table 37: Real Utility Rate Escalation Rate Assumptions, CPUC En Banc and 2022 TDV Basis

<sup>&</sup>lt;sup>24</sup> https://www.energy.ca.gov/files/2025-energy-code-hourly-factors. Actual escalation factors were provided by consultants E3.

## Table 38: Real Utility Rate Escalation Rate Assumptions, 2025 LSC Basis

Year	Statewide Natural Gas Residential Average Rate (%/year, real)	Statewide Electricity Residential Average Rate (%/year, real)
2024	4.6%	2.1%
2025	4.6%	2.1%
2026	4.6%	2.1%
2027	4.2%	0.6%
2028	3.2%	1.9%
2029	3.6%	1.6%
2030	6.6%	1.3%
2031	6.7%	1.0%
2032	7.7%	1.2%
2033	8.2%	1.1%
2034	8.2%	1.1%
2035	8.2%	0.9%
2036	8.2%	1.1%
2037	8.2%	1.1%
2038	8.2%	1.0%
2039	8.2%	1.1%
2040	8.2%	1.1%
2041	8.2%	1.1%
2042	8.2%	1.1%
2043	8.2%	1.1%
2044	8.2%	1.1%
2045	8.2%	1.1%
2046	8.2%	1.1%
2047	3.1%	1.1%
2048	-0.5%	1.1%
2049	-0.6%	1.1%
2050	-0.5%	1.1%
2051	-0.6%	1.1%
2052	-0.6%	1.1%
2053	-0.6%	1.1%

## 7.3 Summary of Efficiency Measures

Table 39 provides the details of the efficiency (non-preempted) measures, by climate zone, included in the following packages for the single family prototype:

- Efficiency Only
- Efficiency + High Efficiency (Preempted) Equipment
- Efficiency + PV
- Efficiency + PV + Battery (all-electric only)

The efficiency measures for the single family mixed fuel Efficiency + PV + Battery package is presented in Table 40, and Table 41 presents the efficiency measures for all the ADU packages. In all tables, the lack of an "X" indicates that the prescriptive values for that climate zone were not changed. See Appendix 7.4 for a list of prescriptive values by climate zone. Efficiency measures are described in Section 3.3.1.

## Table 39: All-Electric Single Family Efficiency Measures, Various Packages

Climate Zone	3 ACH50	R-10 Slab	Attic Ceiling Insulation	0.25 Roof Solar Reflectance	0.24 U-Factor / 0.50 SHGC Windows	0.35 W/cfm	Buried Ducts	Basic Compact Hot Water Credit
1		Х	R-60				Х	
2		Х	R-60			Х	Х	Х
3			R-60			Х	Х	Х
4		Х	R-60			Х	Х	Х
5			R-49			Х	Х	Х
6			R-60			Х	Х	Х
7			R-49				Х	Х
8			R-60			Х	Х	Х
9			R-60			Х	Х	Х
10			R-60	Х		Х	Х	Х
11		Х	R-60	Х		Х	Х	Х
12		Х	R-60	Х		Х	Х	Х
13		Х	R-60	Х		Х	Х	Х
14	Х	Х	R-60	Х		Х	Х	Х
15		Х	R-60	Х		Х	Х	Х
16			R-60		Х	Х	Х	

## Table 40: Mixed Fuel Single Family Measures, Efficiency + PV + Battery Package<sup>25</sup>

Climate Zone	3 ACH50	R-10 Slab	Attic	0.25 Roof Solar Reflectance	0.24 U- Factor / 0.50 SHGC Windows	0.30 U- Factor / 0.50 SHGC Windows	0.35 W/cfm	Buried Ducts	Basic Compact Hot Water Credit
1		Х				Х		Х	
2		Х	R-49				Х	Х	Х
3			R-38			Х		Х	Х
4		Х	R-49				Х	Х	Х
5		Х	R-49				Х	Х	Х
6			R-49				Х	Х	Х
7			R-49				Х	Х	Х
8			R-49				Х	Х	Х
9			R-49				Х	Х	Х
10			R-49				Х	Х	Х
11			R-49				Х	Х	Х
12			R-49	Х			Х	Х	Х
13			R-49	Х			Х	Х	Х
14		Х	R-49	Х			Х	Х	Х
15		Х	R-49	Х			Х	Х	Х
16			R-49		Х		Х	Х	

## Table 41: Efficiency Measures for All ADU Packages

Climate Zone	3 ACH50	R-10 Slab	0.25 Roof Solar Reflectance	0.24 U-Factor / 0.50 SHGC Windows	Ductless VCHP <sup>1</sup>	Basic Compact Hot Water Credit <sup>1</sup>
1		Х			Х	
2		Х			Х	Х
3					Х	Х
4		Х			Х	Х
5					Х	Х
6					Х	Х
7					Х	Х
8					Х	Х
9					Х	Х
10			Х		Х	Х
11		Х	Х		Х	Х
12		Х	Х		Х	Х
13		Х	Х		Х	Х
14	Х	Х	Х		Х	Х
15		Х	Х		Х	Х
16				Х	Х	

<sup>1</sup> The ductless VCHP and compact hot water measures are only applied to the all-electric packages and not the mixed fuel packages.

<sup>&</sup>lt;sup>25</sup> The efficiency measures for the all-electric version of this package follow those listed in Table 39.

## 7.4 Summary of Applicable Prescriptive Base Case Measures

This appendix lists the prescriptive values, by climate zone, of building components relevant to the measures included in this analysis. Table 42 outlines envelope, PV, and battery values;

Table 43 outlines space conditioning values, and Table 44 outlines domestic water heating (DHW) values.

	Table 42 Freedriptive Envelope, FV; and Battery medeated by enmate Eene								
cz	Air Infiltration <sup>1</sup>	Foundation	Wall Insulation <sup>2</sup>	Attic Insulation <sup>3</sup>	Roof Aged Solar Reflectivity	Window U-Factor / SHGC	PV⁴	Battery	
1	5 ACH50	Uninsulated slab	R-21 + R-5	R-38	0.1	0.30 / 0.35	code min.	none	
2	5 ACH50	Uninsulated slab	R-21 + R-5	R-38	0.1	0.30 / 0.23	code min.	none	
3	5 ACH50	Uninsulated slab	R-21 + R-5	R-30	0.1	0.30 / 0.35	code min.	none	
4	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.1	0.30 / 0.23	code min.	none	
5	5 ACH50	Uninsulated slab	R-21 + R-5	R-30	0.1	0.30 / 0.35	code min.	none	
6	5 ACH50	Uninsulated slab	R-15 + R-4	R-30	0.1	0.30 / 0.23	code min.	none	
7	5 ACH50	Uninsulated slab	R-15 + R-4	R-30	0.1	0.30 / 0.23	code min.	none	
8	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.1	0.30 / 0.23	code min.	none	
9	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.1	0.30 / 0.23	code min.	none	
10	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
11	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
12	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
13	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
14	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
15	5 ACH50	Uninsulated slab	R-21 + R-5	R-38 + R-19	0.2	0.30 / 0.23	code min.	none	
16	5 ACH50	R-7, 16" slab insulation	R-21 + R-5	R-38 + R-19	0.1	0.30 / 0.35	code min.	none	

## Table 42 Prescriptive Envelope, PV, and Battery Measures by Climate Zone

<sup>1</sup> 5 ACH50 is prescriptively required however verification is not required.

<sup>2</sup> Cavity wall insulation + continuous rigid insulation.

<sup>3</sup> Ceiling/attic insulation R-value. R-38 + R-19 reflect High Performance Attics (HPAs) as defined by Option B in Table 150.1-A.

<sup>4</sup> Prescriptive PV capacities (kW-DC) by climate zone are summarized in Table 4.

cz	Heating Type	АС Туре	Heating Efficiency <sup>1</sup>	HVAC Efficiency (SEER2/EER2)	HVAC Fan Efficacy (W/cfm)	Ducts <sup>2</sup>
1	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
2	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
3	Heat pump	Heat pump	7.5	14.3 / 11.7	0.45	R-6, 5%, in attic (not buried)
4	Heat pump	Heat pump	7.5	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
5	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-6, 5%, in attic (not buried)
6	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-6, 5%, in attic (not buried)
7	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-6, 5%, in attic (not buried)
8	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
9	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
10	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
11	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
12	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
13	Heat pump	Heat pump	7.5	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
14	Heat pump	Heat pump	7.5	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
15	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)
16	Gas Furnace	AC	80%	14.3 / 11.7	0.45	R-8, 5%, in attic (not buried)

## Table 43 Prescriptive HVAC Measures by Climate Zone

<sup>1</sup> AFUE for gas furnaces, HSPF2 for heat pumps.

<sup>2</sup> Duct insulation R-value, duct leakage, duct location.

## Table 44 Prescriptive Water Heating Measures by Climate Zone

			DHW: Basia		
CZ	DHW Type	Single Family	ADU	Compact Distribution Credit	
1	Heat pump	Garage	In conditioned space, ducted to/from outside	Yes	
2	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
3	Gas tankless	Garage	In conditioned space, ducted to/from outside	No	
4	Gas tankless	Garage	In conditioned space, ducted to/from outside	No	
5	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
6	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
7	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
8	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
9	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
10	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
11	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
12	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
13	Gas tankless	Garage	In conditioned space, ducted to/from outside	No	
14	Gas tankless	Garage	In conditioned space, ducted to/from outside	No	
15	Heat pump	Garage	In conditioned space, ducted to/from outside	No	
16	Heat pump	Garage	In conditioned space, ducted to/from outside	Yes	

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