

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking on the
Commission's Own Motion to Conduct a
Comprehensive Examination of Investor
Owned Electric Utilities' Residential Rate
Structures, the Transition to Time Varying and
Dynamic Rates, and Other Statutory
Obligations.

Rulemaking 12-06-013
(Filed June 21, 2012)

**SUPPLEMENTAL INFORMATION REQUESTED BY
COMMISSION STAFF ON BILL CALCULATOR
RESULTS OF PACIFIC GAS AND ELECTRIC COMPANY
(U39 E)**

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Dated: July 17, 2013

Attorneys for
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Pursuant to an informal request by Commission staff for supplemental information on the bill calculator results filed by PG&E on July 1, 2013 pursuant to the June 21, 2013, ALJ Ruling in this proceeding, PG&E provides supplemental information regarding rate outputs for the illustrative transition rates provided in its July 1 filing. Please note that this supplemental information is illustrative only and provided at the request of Commission staff, and does not represent a specific rate design proposal by PG&E.

In response to CPUC's request for additional rate design information, Attachment 1 provides illustrative transitional rate designs and corresponding illustrative bill impacts. In designing the transitional rates and calculating corresponding bill impacts, PG&E adopted the following approaches for the illustrative non-TOU and optional TOU rate structures:

Design of Illustrative Transition Non-TOU Tiered Rate Structure. The transitional non-TOU tiered rates are calculated as the average of May 1, 2013 E-1 and EL-1 rates in effect and corresponding illustrative non-CARE and CARE two tiered End State rates. Averaging of the 2 sets of rates was done outside the Bill Calculator. These transitional rates were then fed back into the bill calculator as inputs in appropriate cells of the "Inputs-Intermediate" tab of the Bill Calculator to determine the transitional bill impacts. The effective transitional CARE discount is approximately 35% for the transition rate levels.

Design of Illustrative Transition Optional Two Tiered TOU Rate Structure. The illustrative transitional, optional TOU rate structure is assumed to be a two tiered TOU rate structure, and was calculated using the Bill Calculator. The On-Peak to Mid-Peak price ratio and the Mid-Peak to Off-Peak price ratio are set at 1.3, and the Winter Mid-Peak to Summer Mid-Peak price ratio and the Winter Off-Peak to Summer Off-Peak price ratio are set at 0.9. The baseline credit is assumed to be 5 cents per kWh. The CARE discount for the transitional optional two tiered TOU rate structure is 20% for both the volumetric rates and the customer charge.

Calculation of Illustrative Transition Bill Impacts. Bill impacts for both illustrative transitional non-TOU two tiered rate design and illustrative transitional optional two tiered TOU

rates are calculated in the Bill Calculator. The illustrative transition bill impacts shown are the differences in bill amounts between the May 1, 2013 rates based bill amount and the transitional rate based bill amount assuming all current non- TOU (E1) customers move either to the non-TOU tiered rates or to the TOU rate structure for non-TOU bill impacts and optional TOU bill impacts respectively.

In addition to filing these illustrative transitional rate and bill impacts, PG&E also has corrected a formula error in the Bill Calculator that did not affect any other output results. In the Output tab called "PGE-Bill-Impact-Output-2", there are four tables, showing bill impact matrices of illustrative non-TOU and TOU rates for the non-CARE and CARE customer populations. These tables appear in pages 19 through 22 of the PDF file of the Bill Calculator. In fifth column of these tables, the "Average Monthly Bill Change" had a formula error. These monthly average bill impacts were being divided by an additional 12 that was not needed. PG&E has corrected this error by removing the 12 from the denominator. These columns now correctly reflect the monthly bill impacts. This formula error does not impact any other output results. Accordingly, PG&E also attaches as Attachment 2 the corrected Illustrative End State standard Tiered and Optional TOU rate and bill impacts to replace the information filed on July 1, 2013.

Respectfully Submitted,

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ATTACHMENT 1

PG&E's Illustrative Rate Summary Form –
Supplemental Filing

Same as submitted on July 1, 2013.

Name of Party:

Name of Party: Pacific Gas and Electric Company

Illustrative End-State Default TOU Rates

	PG&E			SCE			SDG&E		
	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh
Non-CARE	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
TOU Period									
Sum On-Peak									
Sum Mid-Peak									
Sum Off-Peak									
Win Mid-Peak									
Win Off-Peak									
Baseline Credit for Tier 1 (cents/kWh)									
Average Rate									
Customer Charge \$/Mo.									
Min Bill \$/Mo.									
Demand Charge \$/Mo.									
CARE									
TOU Period									
Sum On-Peak									
Sum Mid-Peak									
Sum Off-Peak									
Win Mid-Peak									
Win Off-Peak									
Baseline Credit for Tier 1 (cents/kWh)									
Average Rate									
Customer Charge \$/Mo.									
Min Bill \$/Mo.									
Demand Charge \$/Mo.									

Note

PG&E did not propose a default TOU rate and therefore has not completed this information.

Name of Party: Pacific Gas and Electric Company**Illustrative Transitional Optional TOU Rates**

Non-CARE	PG&E		
	cents/kWh	cents/kWh	cents/kWh
	Tier 1	Tier 2	Tier 3
TOU Period			
Sum On-Peak	27.1	32.1	
Sum Mid-Peak	19.7	24.7	
Sum Off-Peak	14.0	19.0	
Win Mid-Peak	17.2	22.2	
Win Off-Peak	12.1	17.1	
Baseline Credit for Tier 1 (cents/kWh)		5.0	
Average Rate		18.3	
Customer Charge \$/Mo.		5.0	
Min Bill \$/Mo.		0.0	
Demand Charge \$/Mo.		0.0	
CARE			
TOU Period			
Sum On-Peak	21.7	25.7	
Sum Mid-Peak	15.8	19.8	
Sum Off-Peak	11.2	15.2	
Win Mid-Peak	13.8	17.8	
Win Off-Peak	9.7	13.7	
Baseline Credit for Tier 1 (cents/kWh)		4.0	
Average Rate		14.5	
Customer Charge \$/Mo.		4.0	
Min Bill \$/Mo.		0.0	
Demand Charge \$/Mo.		0.0	

Notes for Optional Transitional TOU Rates

PG&E has assumed a 5 cents per kWh baseline credit for Non-CARE customers which results in a two-tiered TOU rate as the transitional TOU rate.

The PG&E Bill Calculator has been used to derive the rates.

Calculations for the rates are based on 2011 usage data in the PG&E Bill Calculator.

The revenue collected from these rates is consistent with the level collected by May 1, 2013 rates (Advice letter 4212-E).

The On-Peak to Mid-Peak price ratios is set at 1.3.

The Mid-Peak to Off-Peak price ratios is set at 1.3.

The Winter Mid-Peak to Summer Mid-Peak price ratio is set at 0.9.

The Winter Off-Peak to Summer Off-Peak price ratio is set at 0.9.

CARE discount is set at 20% off Transitional Non-CARE Optional TOU rates.

Same as submitted on July 1, 2013.

Name of Party: Pacific Gas and Electric Company

Illustrative Optional End State TOU Rates

Non-CARE	PG&E		
	cents/kWh	cents/kWh	cents/kWh
	Tier 1	Tier 2	Tier 3
TOU Period			
Sum On-Peak	25.8		
Sum Mid-Peak	19.9		
Sum Off-Peak	15.3		
Win Mid-Peak	17.9		
Win Off-Peak	13.7		
Baseline Credit for Tier 1 (cents/kWh)	Not Applicable		
Average Rate	18.2		
Customer Charge \$/Mo.	10.0		
Min Bill \$/Mo.	0		
Demand Charge \$/Mo.	0		
CARE			
TOU Period			
Sum On-Peak	20.6		
Sum Mid-Peak	15.9		
Sum Off-Peak	12.2		
Win Mid-Peak	14.3		
Win Off-Peak	11.0		
Baseline Credit for Tier 1 (cents/kWh)	Not Applicable		
Average Rate	14.8		
Customer Charge \$/Mo.	8.0		
Min Bill \$/Mo.	0		
Demand Charge \$/Mo.	0		

Notes for Optional TOU End State Rates

Although PG&E is showing the rates as "Tier 1" in the template, PG&E's Optional TOU design is for non-tiered rates (i.e., rates that vary by TOU period but not by tier).

The PG&E Bill Calculator has been used to derive the rates.

Calculations for the rates are based on 2011 usage data in the PG&E Bill Calculator.

The revenue collected from these rates is consistent with the level collected by May 1, 2013 rates (Advice letter 4212-E).

The On-Peak to Mid-Peak price ratios is set at 1.3.

The Mid-Peak to Off-Peak price ratios is set at 1.3.

The Winter Mid-Peak to Summer Mid-Peak price ratio is set at 0.9.

The Winter Off-Peak to Summer Off-Peak price ratio is set at 0.9.

CARE discount is set at 20% off Non-CARE rates and customer charge.

Same as submitted on July 1, 2013.

Name of Party: Pacific Gas and Electric Company**Illustrative Tiered Transitional and End-State Rates**

	PG&E				
	May 2013 Rates	Trans Default Rate	Trans Opt-Out Rate	End-State Default Rate	End-State Opt-Out Rate
Non-CARE					
Tier1 (¢/kWh)	13.2	14.2		15.2	
Tier 2 (¢/kWh)	15.0	16.6		18.2	
Tier 3 (¢/kWh)	31.1	24.7		18.2	
Tier 4 (¢/kWh)	35.1	26.7		18.2	
Tier 5 (¢/kWh)	35.1	26.7		18.2	
Average Rate	18.9	18.6		18.3	
Customer Charge \$/Mo.		5.0		10.0	
Min. Bill \$/Mo.	4.5	0.0		0.0	
Demand Charge \$/Mo.		0.0		0.0	
TOU On-Peak Surcharge (¢/kWh)		0.0		0.0	
TOU Off-Peak Credit (¢/kWh)		0.0		0.0	
CARE					
Tier1 (¢/kWh)	8.3	10.2		12.1	
Tier 2 (¢/kWh)	9.6	12.1		14.6	
Tier 3 (¢/kWh)	14.0	14.3		14.6	
Tier 4 (¢/kWh)	14.0	14.3		14.6	
Tier 5 (¢/kWh)	14.0	14.3		14.6	
Average Rate	9.7	12.1		14.5	
Customer Charge \$/Mo.		4.0		8.0	
Min. Bill \$/Mo.	3.6	0.0		0.0	
Demand Charge \$/Mo.		0.0		0.0	
TOU On-Peak Surcharge (¢/kWh)		0.0		0.0	
TOU Off-Peak Credit (¢/kWh)		0.0		0.0	

NotesEnd State Rates

The PG&E Bill Calculator has been used to derive the End-State rates.

Calculations for the End-State rates are based on 2011 usage data in the PG&E Bill Calculator.

The revenue collected from the end state rates shown above is consistent with the level collected by May 1, 2013 rates (Advice letter 4212-E).

The Tier-2 to Tier-1 rate ratio of the End-State rates is set at 1.2.

CARE discounts are set at 20% off Non-CARE rates for the End State.

Transitional Rates

The transition rate shown is the rate at the mid-point of the transition period. The specific transition period will be determined by CPUC in future rate proceedings.

PG&E has taken the average of the May 1, 2013 Rates and the End State Rate to determine the transitional rates.

CARE discounts is approximately 35% off Non-CARE rates.

Transitional Rate Calculation

Non-TOU Transitional Rate Calculation Methodology

PG&E has taken the average of the May 1, 2013 Rates and the End State Rate to determine the transitional rates. This calculation is illustrated in the table below. It shows how the transitional default rate shown in column C in the "All Tiered" tab is calculated.

		May 2013 Rates (E-1, EL-1)	Transitional Non-TOU Default Rate	End-State Non TOU Default Rate
Row	Non-CARE	Column B	Column C	Column D
10	Tier1 (¢/kWh)	13.23	=AVERAGE(C10,E10)	15.18
11	Tier 2 (¢/kWh)	15.04	=AVERAGE(C11,E11)	18.22
12	Tier 3 (¢/kWh)	31.11	=AVERAGE(C12,E12)	18.22
13	Tier 4 (¢/kWh)	35.11	=AVERAGE(C13,E13)	18.22
14	Tier 5 (¢/kWh)	35.11	=AVERAGE(C14,E14)	18.22
15	Average Rate	18.9	=AVERAGE(C15,E15)	18.3
16	Customer Charge \$/Mo.		5	10
17	Min. Bill \$/Mo.	4.5	0	0
18	Demand Charge \$/Mo.		0	0
19	TOU On-Peak Surcharge (¢/kWh)		0	0
20	TOU Off-Peak Credit (¢/kWh)		0	0
Row	CARE	Column B	Column C	Column D
22	Tier1 (¢/kWh)	8.32	=AVERAGE(C22,E22)	12.15
23	Tier 2 (¢/kWh)	9.56	=AVERAGE(C23,E23)	14.58
24	Tier 3 (¢/kWh)	13.97	=AVERAGE(C24,E24)	14.58
25	Tier 4 (¢/kWh)	13.97	=AVERAGE(C25,E25)	14.58
26	Tier 5 (¢/kWh)	13.97	=AVERAGE(C26,E26)	14.58
27	Average Rate	9.7	=AVERAGE(C27,E27)	14.5
28	Customer Charge \$/Mo.		=0.8*D16	8
29	Min. Bill \$/Mo.	3.6	0	0
30	Demand Charge \$/Mo.		0	0
31	TOU On-Peak Surcharge (¢/kWh)		0	0
32	TOU Off-Peak Credit (¢/kWh)		0	0

TOU Transitional Rate Calculation Methodology

PG&E has assumed a 5 cents per kWh baseline credit which results in a two-tiered TOU rate as the transitional TOU rate. Bill Calculator has been used to calculate the transitional TOU rates. These rates are shown in tab "Trans TOU".

PG&E's Illustrative Transitional Rate Designs and
Corresponding Illustrative Bill Impacts

PG&E -Rate Design and Bill Impact Analysis Model for Residential
 May 1, 2013 Revenue Collection Scenario from PGE; Transitional Rates

Rate Design Inputs: Non-TOU and TOU

Current Rate Date => 5/1/2013

2 Tier Rate Ratio => 20%

of Tiers => 4

Baseline Allowance Percent => 55%

Baseline Allowance from the sample (Do not use the percent input) => No

Tier-3 to Tier-4 Delta (cents/kWh) => 4.00

Tier-4 to Tier-5 Delta (cents/kWh) =>

T1 Increase (Over Current) => 3.0000%

T2 Increase (Over Current) => 3.0000%

Minimum Charge imposed in lieu of Customer Charge => No

Minimum Charge Applicable to Delivery Charge Only => Yes

Cust Charge \$/Mo. => 5.00

Fixed Charge High Demand \$/Mo. => -

Fixed Charge Low Demand \$/Mo. => -

Fixed Charge Break Point kW => 3.00

CARE Discount for Tier-1, Cust. Chg., Demand Chg. & Min. Bill Amt. => 20%

CARE Discount for Tier-2 => 20%

CARE Discount for Tier-3 and Above => 20%

Income Based Discount 100% of Poverty Level or Below => 35%

Income Based Discount 100% to 200% of Poverty Level => 25%

Income Based Discount 200% to 300% of Poverty Level => 10%

Frozen CARE T1/T2 =>

Use existing CARE Tier-3 rate =>

Apply Income Based Discount Instead of Tier Based CARE Disc =>

Additional TOU Rate Design Specific Inputs

Number of TOU Periods => 3

TOU Rate Percent Differential: On-peak to Part-peak => 30%

TOU Rate Pct. Differential: Part-peak to Offpeak (N/A if 2 TOU periods) => 30%

TOU Base Line Credit in cents per kWh => 5.00

Flat Non-TOU Tier-1 => No

Resulting Transitional 4-Tier Rate

Non-CAPE	Tier	Forecast Rates (\$/kWh)	% of Sales	May 13 Rate	4-Tier Rate
	1	12.93	61%	13.2	14.2
	2	2.45	11%	15.0	16.6
	3	3.32	16%	31.1	24.7
	4	1.70	8%	35.1	26.7
	5	0.94	4%	35.1	26.7
Cust \$/Mo.				0.0	5.0
Fixed Charge High Demand \$/Mo.				0.0	0.0
Fixed Charge Low Demand \$/Mo.				0.0	0.0
Min Charge \$/Mo.				4.5	0.0

CAPE	Tier	Forecast Rates (\$/kWh)	% of Sales	May 13 Rate	4-Tier Rate
	1	5.32	68%	8.3	10.2
	2	0.86	11%	9.6	12.1
	3	1.03	13%	14.0	14.3
	4	0.44	6%	14.0	14.3
	5	0.20	2%	14.0	14.3
Cust \$/Mo.				0.0	4.0
Fixed Charge High Demand \$/Mo.				0.0	0.0
Fixed Charge Low Demand \$/Mo.				0.0	0.0
Min Charge \$/Mo.				3.6	0.0

The following table shows the resulting transitional rates for the May 1, 2013 revenue collection scenario. The transitional rates are based on the May 1, 2013 revenue collection scenario and the transitional rates are based on the May 1, 2013 revenue collection scenario. The transitional rates are based on the May 1, 2013 revenue collection scenario and the transitional rates are based on the May 1, 2013 revenue collection scenario.

Notes on Transitional Non-TCU Rate Impact Calculation
 The transitional rates are the difference between the May 1, 2013 rate and the transitional rate based on a 100% assumption. The transitional rate based on a 100% assumption was based on the May 1, 2013 rate.

Notes on Transitional CAPE TCU Rate Impact Calculation
 The transitional rates are the difference between the May 1, 2013 rate and the transitional rate based on a 100% assumption. The transitional rate based on a 100% assumption was based on the May 1, 2013 rate.

Resulting Transitional Optional TOU Rate				
Rate Class		Forecast Energy Rate (\$/kWh)	% of Sales	Cost
Tier-1	Summer On-Peak	1.31	6.0%	27.1
	Summer Part-Peak	1.40	7.0%	19.7
	Summer Off-Peak	3.62	17.0%	14.0
	Winter Part-Peak	0.79	4.0%	17.2
	Winter Off-Peak	5.82	27.0%	12.1
Tier-2	Summer On-Peak	0.92	4.0%	32.1
	Summer Part-Peak	0.94	4.0%	24.7
	Summer Off-Peak	2.35	11.0%	19.0
	Winter Part-Peak	0.49	2.0%	22.2
	Winter Off-Peak	3.71	18%	17.1
	Cust \$/Mo.			5.0
	Fixed Charge High Demand \$/Mo.			0.0
	Fixed Charge Low Demand \$/Mo.			0.0
	Min Charge \$/Mo.			0.0
Rate Class		Forecast Energy Rate (\$/kWh)	% of Sales	Cost
Tier-1	Summer On-Peak	0.60	8%	21.7
	Summer Part-Peak	0.59	8%	15.8
	Summer Off-Peak	1.48	19%	11.2
	Winter Part-Peak	0.31	4%	13.8
	Winter Off-Peak	2.34	30%	9.7
Tier-2	Summer On-Peak	0.32	4%	25.7
	Summer Part-Peak	0.31	4%	19.8
	Summer Off-Peak	0.74	9%	15.2
	Winter Part-Peak	0.13	2%	17.8
	Winter Off-Peak	1.03	12%	13.7
	Cust \$/Mo.			4.0
	Fixed Charge High Demand \$/Mo.			0.0
	Fixed Charge Low Demand \$/Mo.			0.0
	Min Charge \$/Mo.			0.0



Average Transitional Rate Impact Summary (Cents / kWh) by Zone				
Non-CARE Customers				
Baseline Region	Cost Based Rate	Jul-12 Rate	Illustrative Non-TOU 4-Tier Rate	
Q	15.3	18.5	18.2	
T	16.9	19.2	19.1	
V	17.0	15.9	17.0	
X	17.7	19.1	18.7	
S	18.5	19.2	18.6	
P	17.6	17.4	17.5	
R	18.4	19.0	18.4	
W	19.5	18.7	18.3	
Y	16.1	16.2	17.0	
Z	21.1	16.3	17.7	
Non-CARE Customers	17.8	18.9	18.6	
CARE Customers				
Baseline Region	Cost Base Rate	Jul-12 Rate	Illustrative Non-TOU 4-Tier Rate	
Q	N/A	N/A	N/A	
T	16.3	9.8	12.5	
V	18.1	9.3	12.4	
X	17.7	9.5	12.1	
S	18.7	10.0	12.2	
P	16.6	9.4	11.7	
R	18.7	9.6	11.9	
W	18.2	9.7	11.9	
Y	16.0	8.8	11.4	
Z	N/A	N/A	N/A	
CARE Customers	17.8	9.7	12.1	
CARE Discount - Residential		Customer Rate Impact		Non-TOU 4-Tier Rate
Residential CARE Subsidy (\$M) =>		\$ 568,668,152	\$ 440,000,000	
Residential CARE subsidy funded by non-residential class (\$M) =>		\$ 398,067,707	\$ 308,000,000	
Effective CARE Discount % =>		49%	35%	
Percent of Revenue Requirement met by Fixed Customer Charge =>		0%	5%	
Percent Fixed Cost Not Recovered		18%	13%	

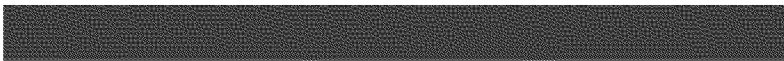


Average Transitional Rate Impact Summary (Cents / kWh) by Zone

Non-CARE				
Baseline Region	Cost Based Rate	Jul-12 Rate	Illustrative Optional TOU Rate	
Q	15.3	18.5	17.7	
T	16.9	19.2	18.3	
V	17.0	15.9	17.3	
X	17.7	19.1	18.1	
S	18.5	19.2	18.4	
P	17.6	17.4	17.8	
R	18.4	19.0	18.7	
W	19.5	18.7	19.1	
Y	16.1	16.2	17.2	
Z	21.1	16.3	17.2	
Non-CARE Customers	17.8	18.9	18.3	

CARE				
Baseline Region	Cost Base Rate	Jul-12 Rate	Illustrative Optional TOU Rate	
Q	N/A	N/A	N/A	
T	16.3	9.8	14.5	
V	18.1	9.3	14.1	
X	17.7	9.5	14.3	
S	18.7	10.0	14.8	
P	16.6	9.4	13.8	
R	18.7	9.6	14.7	
W	18.2	9.7	15.1	
Y	16.0	8.8	13.5	
Z	N/A	N/A	N/A	
CARE Customers	17.8	9.7	14.5	

Category	Residential Rate (\$/kWh)	Commercial Rate (\$/kWh)	TOU
Residential CARE Subsidy (\$M) =>	\$ 568,668,152	\$ 232,000,000	
Residential CARE subsidy funded by non-residential class (\$M) =>	\$ 398,067,707	\$ 162,400,000	
Effective CARE Discount % =>	49%	21%	
Percent of Revenue Requirement met by Fixed Customer Charge =>	0%	5%	
Percent Fixed Cost Not Recovered	18%	13%	



Baseline Territory	Estimated Usage, GWh		
	Non-CARE	CARE	Total
Q	0.07	0.00	0.07
T	3.90	1.11	5.01
V	0.18	0.08	0.26
X	8.55	2.01	10.55
S	4.17	1.57	5.74
P	1.08	0.77	1.85
R	2.15	1.18	3.33
W	0.97	1.03	2.00
Y	0.23	0.10	0.33
Z	0.05	0.00	0.05
Total	21.35	7.85	29.20



Detailed Inputs

Note: All Yellow highlighted cells are for the user input. The cells that are not yellow highlighted should remain unchanged, If the Yellow highlighted inputs are changed from the default, the highlight turns Red. Such Red cells can also be updated by the users.

User Inputs

Basic Inputs for Calculation Tabs

Percent Non-Residential Usage of the Total Usage Less CARE and Streetlights Billions	70%
Minimum Charge(\$/month)	4.50
Missing income replacement	75,000
Max Customer Monthly Ave Usage	2,000
Number of household members	3

Sources: PG&E's data, RASS Income data, Brattle study on elasticity

Shading Key

Placeholder for additional user input
Automatically updated by macros
Formula used in macro
Hard-entered numbers, pasted values
Simple formulas
Simple cell references

Number of hours per time period

Summer Peak	768
Summer Partial-Peak	956
Summer Off-Peak	2,680
Winter Partial Peak	381
Winter Off-Peak	3,963

Source: Computed based on PG&E's E-6 rate schedule based TOU definition for 2011.

PRISM Models Hours by Period

Period	Peak	Shoulder	Off-Peak	Daily
Summer (3-Year PRISM)	4	5	15	24
Winter (2-Year PRISM)	2		22	24

Source: Brattle's Cyan PRISM Model

Elasticity Input for non TOU Energy Conservation Estimation

	Non-CARE	CARE
Tier-1	(0.20)	(0.20)
Tier-2	(0.20)	(0.20)
Tier-3	(0.20)	(0.20)
Tier-4	(0.20)	(0.20)
Tier-5	(0.20)	(0.20)

Source: User input

Bill Impact Classification - Percent		
Percent Impact Category	Percent Impact Classification	Percent Impact Threshold
0	N/A	(1,000,000.00)
1	Below -20%	0.20
2	> -20% to -15%	0.15
3	> -15% to -10%	0.10
4	> -10% to -5%	0.05
5	> -5% to 0%	0.05
6	> 0% to 5%	0.10
7	> 5% to 10%	0.15
8	> 10% to 15%	0.20
9	> 15% to 20%	0.25
10	> 20% to 25%	0.30
11	> 25% to 30%	0.35
12	> 30% to 35%	0.40
13	> 35% to 40%	0.45
14	> 40% to 45%	0.50
15	> 45% to 50%	0.55
16	> 50% to 55%	0.60
17	> 55% to 60%	0.65
18	> 60% to 65%	0.70
19	> 65% to 70%	0.75
20	> 70% to 75%	0.80
21	> 75% to 80%	0.85
22	> 80% to 85%	0.90
23	> 85% to 90%	0.95
24	> 90% to 95%	1.00
25	Above 95%	1.00

Percent Of Sample Classification		
Percent Of Sample Category	Percent Of Sample Classification	Percent Of Sample Threshold
0	N/A	(1,000,000.00)
1	0% to 4%	0.04
2	4% to 8%	0.08
3	8% to 12%	0.12
4	12% to 16%	0.16
5	16% to 20%	0.20
6	20% to 24%	0.24
7	24% to 28%	0.28
8	28% to 32%	0.32
9	32% to 36%	0.36
10	36% to 40%	0.40
11	40% to 44%	0.44
12	44% to 48%	0.48
13	48% to 52%	0.52
14	52% to 56%	0.56
15	56% to 60%	0.60
16	60% to 64%	0.64
17	64% to 68%	0.68
18	68% to 72%	0.72
19	72% to 76%	0.76
20	76% to 80%	0.80
21	80% to 84%	0.84
22	84% to 88%	0.88
23	88% to 92%	0.92
24	92% to 96%	0.96
25	96% to 100%	1.00

Note: Bill Impact Classification inputs should be updated for Column A and E values of 1 through 25 only. For these values, the Column C and G values should be provided in ascending order. The descriptions in column B and F should be updated accordingly.

Elasticity Input for TOU Energy Conservation Estimation

Substitution Elasticity for Non-CPP Days	(0.23)
Daily Elasticity for Non-CPP Days	(0.04)

Source: User input

Load Factor Range

Classification	Load Factor Range	Load Factor	
0	N/A	-1000000	
1	0 to 25%	0.25	Low
2	25% to 40%	0.40	Medium
3	Above 40%	1.00	High

Income Range

Classification	Income Range	Income
0	N/A	-1000000
1	0 to 30K	30,000
2	30K to 60K	60,000
3	60K to 75K	75,000
4	75K to 100K	100,000
5	Above 100K	

Current Rates Data					
Current Rates	Effective Dates	Advice Letter			
1	5/1/2013	4213-E			
2	1/1/2011	3698-E			
3	1/1/2013	4096-E-A			
4					
5					

	Effective Dates				
1	05/01/13	11/01/11	7/1/2013	5/1/2013	
Non-CARE Tier-1 \$/kWh	0.132300	0.122330	0.132300	0.132300	
Non-CARE Tier-2 \$/kWh	0.150400	0.139070	0.150400	0.150400	
Non-CARE Tier-3 \$/kWh	0.311140	0.292760	0.300250	0.311140	
Non-CARE Tier-4 \$/kWh	0.351140	0.332760	0.340250	0.351140	
Non-CARE Tier-5 \$/kWh	0.351140	0.332760	0.340250	0.351140	
CARE Tier-1 \$/kWh	0.083160	0.083160	0.083160	0.083160	
CARE Tier-2 \$/kWh	0.095630	0.095630	0.095630	0.095630	
CARE Tier-3 \$/kWh	0.139740	0.124740	0.139740	0.139740	
CARE Tier-4 \$/kWh	0.139740	0.124740	0.139740	0.139740	
CARE Tier-5 \$/kWh	0.139740	0.124740	0.139740	0.139740	
Customer Charge					
Fixed Ch. High					
Fixed Ch. Low					
Annual Peak kW threshold					
Minimum Charge \$/Month	4.50	4.50			
CARE Surcharge \$/kWh	0.01	0.01			
Non-CARE Sales kWh	23,224,447,565.00	22,808,978,953.00			
CARE Sales kWh	8,901,349,709.00	8,363,553,053.00			
Non-Res except streetlight kWh	53,129,423,077.00	54,319,747,671.00			
DWR Charges \$	105,949,997.00	108,326,111.00			
Transmission Rate \$/kWh	0.02	0.02			

Source: Respective Advice Letter. Refer to PG&E Rate Schedule website.
 Note: the purple cells are open for users to fill in data for up to 3 other rates. The inputs should be provided from respective advice letters

Inputs (Intermediate)

Basic Inputs

Number of Samples	7,782
No. of CARE customers	1,268,031
Total number of customers	4,621,589

Source: Data in "Customer Data" tab

Non TOU Tier Collapsing Criteria

Number of Tiers	2	3	4
Tier-1			
Tier-2	2	2	2
Tier-3	2	3	3
Tier-4	2	3	4
Tier-5			

Instructions:
 For Two Tiered Rate Design, provide updates in cells B125:B127
 The inputs can be either 1 or 2 satisfying B125<= B126 <= B127
 For Three Tiered Rate Design, provide updates in cells C125:C127
 The inputs need to satisfy C125 <= C126 <= C127, C127 = 2 or 3
 For Four Tiered Rate Design, provide updates in cells D125:D127
 The inputs need to satisfy D125<= D126 <= D127, and D127 = 3 or 4, a
 D126 = 2 or 3 and D125 = 1 or 2

Note: User can specify the ratios in the purple cells.

Seasonal TOU Price Ratios

Part-peak Price Ratio	Summer to Winter	0.9
Off-peak Price Ratio	Summer to Winter	0.9

Note: User can specify the ratios in the purple cells.

Revenue Requirement Prior to CARE Subsidy Allocation

	1	0	0	0	0
Effective Dates	5/1/13	11/1/11			
Generation \$	2,314,456,301				
Transmission \$	493,940,832				
Distribution \$	2,006,947,757				
Other \$	384,520,397				
Total \$	5,201,865,288				

Source: See Revenue Summary tab.

Other Cost-Fixed and Volumetric Split

	NonCARE	CARE
Percent of Other Cost treated as volumetric	0%	0%

Source: User Input

Generation Charge for "Minimum Bill on Delivery Charge Only" Calculation

	Non TOU	TOU Onpeak	TOU Partpeak	TOU Offpeak
Generation Charge \$/kWh	0.08	0.10	0.07	0.05

Note: User can specify the value. Recommended value is \$0.08/kWh.

Fair Cost Rate Input			Unit
Generation Marginal Energy Cost	Summer	On-Peak	0.0535526 \$/kWh
Generation Marginal Energy Cost	Summer	Part-Peak	0.0451922 \$/kWh
Generation Marginal Energy Cost	Summer	Off-Peak	0.0359244 \$/kWh
Generation Marginal Energy Cost	Winter	On-Peak	0.0485903 \$/kWh
Generation Marginal Energy Cost	Winter	Part-Peak	0.0372057 \$/kWh
Generation Marginal Energy Cost	Winter	Off-Peak	0.0372057 \$/kWh
Generation Marginal Capacity Cost			99.3400000 \$/kW-year
Transmission Marginal Cost			19.2900000 \$/kW-year
Distribution Marginal Cost-Primary			57.2100000 \$/kW-year
Distribution Marginal Cost-Secondary			0.8100000 \$/kW-year
Distribution Marginal Cost-New Business			21.0900000 \$/kW-year
Fixed Customer Charge			91.7200000 \$/kW-year
Miscellaneous Fixed Cost			5.0000000 \$/year
Equal Percent Marginal Cost Multiplier (EPMC)-Generation			1.0661819 None
Equal Percent Marginal Cost Multiplier (EPMC)-Transmission			4.2517147 None
Equal Percent Marginal Cost Multiplier (EPMC)-Distribution			1.7115940 None
Generation Marginal Capacity Cost Allocation Factor		Jan	None
Generation Marginal Capacity Cost Allocation Factor		Feb	None
Generation Marginal Capacity Cost Allocation Factor		Mar	None
Generation Marginal Capacity Cost Allocation Factor		Apr	None
Generation Marginal Capacity Cost Allocation Factor		May	0.0068400 None
Generation Marginal Capacity Cost Allocation Factor		Jun	0.0614200 None
Generation Marginal Capacity Cost Allocation Factor		Jul	0.2852600 None
Generation Marginal Capacity Cost Allocation Factor		Aug	0.4040300 None
Generation Marginal Capacity Cost Allocation Factor		Sep	0.2345200 None
Generation Marginal Capacity Cost Allocation Factor		Oct	0.0059500 None
Generation Marginal Capacity Cost Allocation Factor		Nov	None
Generation Marginal Capacity Cost Allocation Factor		Dec	None
Transmission Marginal Cost Allocation Factor		Jan	0.0186667 None
Transmission Marginal Cost Allocation Factor		Feb	0.0186667 None
Transmission Marginal Cost Allocation Factor		Mar	0.0186667 None
Transmission Marginal Cost Allocation Factor		Apr	0.0186667 None
Transmission Marginal Cost Allocation Factor		May	0.1500000 None
Transmission Marginal Cost Allocation Factor		Jun	0.1500000 None
Transmission Marginal Cost Allocation Factor		Jul	0.1500000 None
Transmission Marginal Cost Allocation Factor		Aug	0.1500000 None
Transmission Marginal Cost Allocation Factor		Sep	0.1500000 None
Transmission Marginal Cost Allocation Factor		Oct	0.1500000 None
Transmission Marginal Cost Allocation Factor		Nov	0.0186667 None
Transmission Marginal Cost Allocation Factor		Dec	0.0186667 None
Planning Reserve Margin			1.1500000 None
Line Loss Factor-Transmission			1.0700000 None
Line Loss Factor-Distribution			1.0520000 None
Load Coincidence Factor-Generation			1.0000000 None
Load Coincidence Factor-Transmission			1.0000000 None
Load Coincidence Factor-Dist-Primary			1.0000000 None
Load Coincidence Factor-Dist-Secondary			1.0000000 None
Peak Capacity Allocation Factor (PCAF) to Final Line Transformer (FLT) Factor			0.5000000 None

Source: Consistent with PG&E's 2011 GRC Phase-II filing. User can, however, change these inputs.

Elasticity based usage adjustment factors			
Current IBR to non TOU			
Tier-1	Non-CARE		1.00
Tier-2	Non-CARE		1.00
Tier-3	Non-CARE		1.00
Tier-4	Non-CARE		1.00
Tier-5	Non-CARE		1.00
Tier-1	CARE		1.00
Tier-2	CARE		1.00
Tier-3	CARE		1.00
Tier-4	CARE		1.00
Tier-5	CARE		1.00

Note: the user can specify th ratios in the purple cells.

Coincident Load Factor Averages (To replace missing values)					
	Month	Coast	Hills	Inner Valley	Outer Valley
Non-CARE	1	1.1080	1.1980	1.0580	1.1030
Non-CARE	2	1.1720	1.3730	1.1260	1.3840
Non-CARE	3	1.0450	0.8800	0.9270	1.1270
Non-CARE	4	1.0760	1.0430	1.0520	1.1010
Non-CARE	5	1.3680	1.2820	1.3010	1.0570
Non-CARE	6	1.4190	1.0850	0.8460	0.8840
Non-CARE	7	1.3000	1.0400	0.9460	0.8390
Non-CARE	8	1.3310	1.1120	1.1790	1.1990
Non-CARE	9	1.3820	1.1800	1.1230	1.2750
Non-CARE	10	1.0610	1.0140	0.9690	0.9360
Non-CARE	11	1.2950	1.2150	0.9860	1.3030
Non-CARE	12	1.2460	1.0090	0.9930	1.4480
CARE	1	1.1730	1.1490	1.0010	1.1650
CARE	2	1.2130	1.3550	1.3250	1.1510
CARE	3	1.0990	0.9780	0.9210	0.7840
CARE	4	1.2250	1.1700	1.0610	1.0480
CARE	5	1.5390	1.2180	1.0570	0.9390
CARE	6	1.2870	1.0210	0.9870	0.7350
CARE	7	1.3020	1.0630	0.8470	0.8440
CARE	8	1.3810	0.9830	0.9540	0.7970
CARE	9	1.1550	0.9980	1.0780	0.7620
CARE	10	0.9010	0.8940	0.9500	0.9220
CARE	11	1.0550	1.0450	0.9860	1.2120
CARE	12	1.2730	1.1690	1.1500	1.1270

Source: The data comes from the Load-Factor-Summary tab
 Note: formula change within each column (between Non-Care and CARE break)

Current IBR to TOU		
NonCARE	Sum On-Peak	1.00
NonCARE	Sum Part-Peak	1.00
NonCARE	Sum Off-Peak	1.00
NonCARE	Win Part-Peak	1.00
NonCARE	Win Off-Peak	1.00
CARE	Sum On-Peak	1.00
CARE	Sum Part-Peak	1.00
CARE	Sum Off-Peak	1.00
CARE	Win Part-Peak	1.00
CARE	Win Off-Peak	1.00

Note: the user can specify th ratios in the purple cells.

Non-coincident Load Factor Averages (To replace missing values)					
	Month	Coast	Hills	Inner Valley	Outer Valley
Non-CARE	1	0.1980	0.2000	0.2140	0.2290
Non-CARE	2	0.2130	0.2180	0.2340	0.2480
Non-CARE	3	0.2080	0.1840	0.2020	0.2160
Non-CARE	4	0.2120	0.1950	0.2150	0.2120
Non-CARE	5	0.2100	0.1790	0.1830	0.1930
Non-CARE	6	0.2110	0.1790	0.1790	0.2280
Non-CARE	7	0.2130	0.1680	0.1810	0.2380
Non-CARE	8	0.2000	0.1780	0.1970	0.2390
Non-CARE	9	0.2080	0.1870	0.1950	0.2380
Non-CARE	10	0.2050	0.1840	0.1880	0.1920
Non-CARE	11	0.2100	0.1990	0.2040	0.2240
Non-CARE	12	0.2000	0.1980	0.1970	0.2210
CARE	1	0.2230	0.2150	0.1970	0.2450
CARE	2	0.2360	0.2180	0.2290	0.2480
CARE	3	0.2500	0.1900	0.1960	0.2100
CARE	4	0.2400	0.2020	0.1960	0.2080
CARE	5	0.2220	0.1750	0.1840	0.1950
CARE	6	0.2490	0.1900	0.1940	0.2370
CARE	7	0.2390	0.1860	0.2050	0.2670
CARE	8	0.2360	0.1890	0.2010	0.2790
CARE	9	0.2440	0.1940	0.2060	0.2590
CARE	10	0.2330	0.1850	0.1980	0.2090
CARE	11	0.2260	0.1950	0.2050	0.2330
CARE	12	0.2180	0.1890	0.1970	0.2430

Source: The data comes from the Load-Factor-Summary tab

Note: formula change within each column (between Non-Care and CARE break)

Time Of Use (TOU) kWh split by zone (To replace missing values)				
Zone	Month	Onpeak	Partpeak	Offpeak
Coast	1	0.00	0.12	0.88
Coast	2	0.00	0.12	0.88
Coast	3	0.00	0.11	0.89
Coast	4	0.00	0.11	0.89
Coast	5	0.18	0.24	0.58
Coast	6	0.18	0.25	0.57
Coast	7	0.19	0.24	0.57
Coast	8	0.19	0.26	0.55
Coast	9	0.18	0.25	0.57
Coast	10	0.20	0.25	0.55
Coast	11	0.00	0.12	0.88
Coast	12	0.00	0.12	0.88
Hills	1	0.00	0.12	0.88
Hills	2	0.00	0.12	0.88
Hills	3	0.00	0.11	0.89
Hills	4	0.00	0.11	0.89
Hills	5	0.20	0.25	0.55
Hills	6	0.20	0.26	0.54
Hills	7	0.22	0.25	0.53
Hills	8	0.22	0.26	0.52
Hills	9	0.21	0.25	0.54
Hills	10	0.21	0.26	0.53
Hills	11	0.00	0.12	0.88
Hills	12	0.00	0.12	0.88
Inner-Valley	1	0.00	0.12	0.88
Inner-Valley	2	0.00	0.11	0.89
Inner-Valley	3	0.00	0.11	0.89
Inner-Valley	4	0.00	0.11	0.89
Inner-Valley	5	0.20	0.24	0.56
Inner-Valley	6	0.21	0.26	0.53
Inner-Valley	7	0.24	0.25	0.51
Inner-Valley	8	0.25	0.26	0.49
Inner-Valley	9	0.23	0.25	0.52
Inner-Valley	10	0.21	0.25	0.54
Inner-Valley	11	0.00	0.11	0.89
Inner-Valley	12	0.00	0.11	0.89
Outer-Valley	1	0.00	0.12	0.88
Outer-Valley	2	0.00	0.11	0.89
Outer-Valley	3	0.00	0.10	0.90
Outer-Valley	4	0.00	0.11	0.89
Outer-Valley	5	0.20	0.24	0.56
Outer-Valley	6	0.22	0.26	0.52
Outer-Valley	7	0.25	0.25	0.50
Outer-Valley	8	0.25	0.25	0.50
Outer-Valley	9	0.22	0.25	0.53
Outer-Valley	10	0.21	0.25	0.54
Outer-Valley	11	0.00	0.11	0.89
Outer-Valley	12	0.00	0.11	0.89

Source: A separate analysis was performed by using climate zone level load profile data for 2011.

Average Usage Quantity (kWh Per Day)			
Territory	Season	Basic	All Electric
P	Summer	27.82	32.73
Q	Summer	13.64	16.55
R	Summer	31.09	38.00
S	Summer	27.82	32.73
T	Summer	13.64	16.55
V	Summer	21.82	35.27
W	Summer	33.64	42.73
X	Summer	20.00	18.73
Y	Summer	21.27	25.64
Z	Summer	14.36	20.36
P	Winter	23.09	61.64
Q	Winter	21.27	35.09
R	Winter	21.27	54.91
S	Winter	21.82	52.00
T	Winter	16.55	30.55
V	Winter	24.73	60.73
W	Winter	19.82	41.45
X	Winter	21.27	35.09
Y	Winter	24.00	55.82
Z	Winter	19.27	40.91

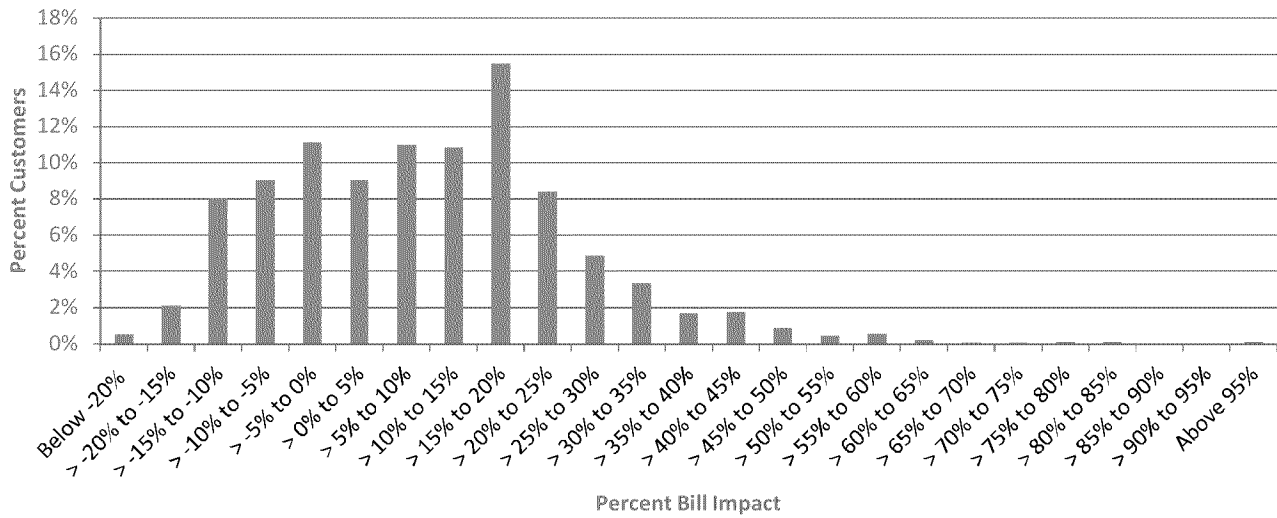
Source: Rate schedule baseline quantity and the percent baseline quantity for the Advice Letter 3856-E

Medical Allowance - Baseline Quantity (kWh Per Month)

Allowance (kWh/month)	500.00
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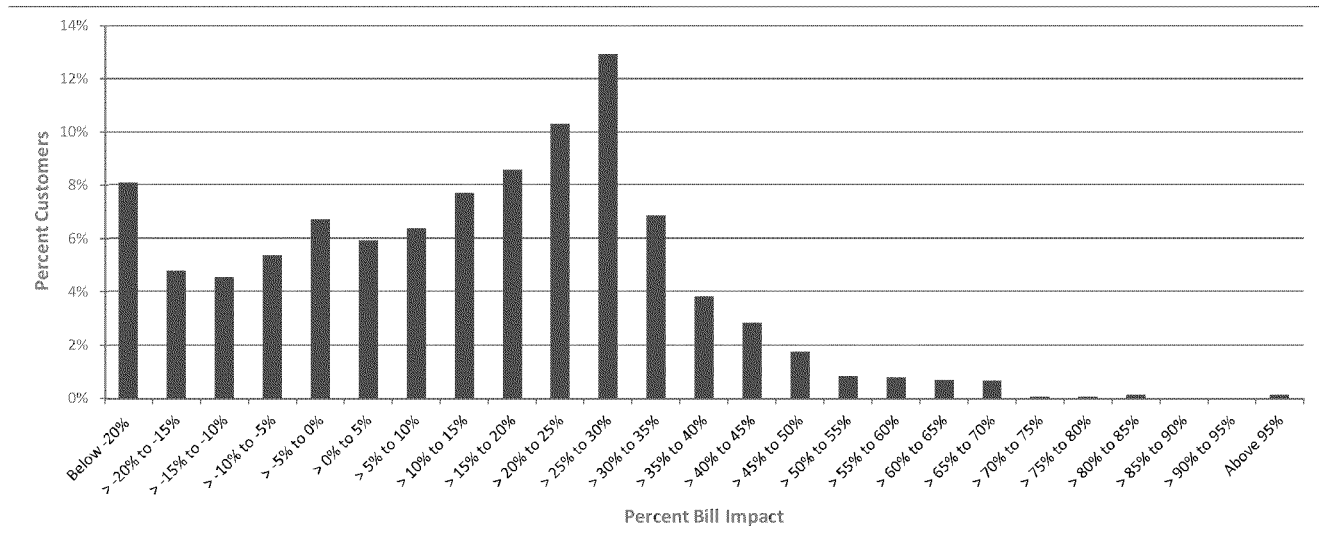
Source: User Input

NonCARE Customers



Non TOU Transitional 4-Tier Rate Design Impacts												NonCARE Customers		
Impact	Customer	Average	Average	%	Monthly \$	Average Bill to Income Ratio								
			Cents/kWh											
Below -20%	17,747	1%	2,674	19%	31.08	24.63	-21%	831.27	658.77	(172.50)	6.1%	4.8%		
> -20% to -15%	71,466	2%	1,358	19%	27.54	22.87	-17%	374.14	310.69	(63.44)	3.2%	2.7%		
> -15% to -10%	270,766	8%	1,004	17%	24.21	21.17	-13%	243.08	212.55	(30.53)	2.7%	2.4%		
> -10% to -5%	303,787	9%	816	15%	21.35	19.70	-8%	174.20	160.70	(13.49)	2.1%	2.0%		
> -5% to 0%	374,402	11%	703	14%	18.94	18.45	-3%	133.17	129.69	(3.48)	1.6%	1.6%		
> 0% to 5%	303,637	9%	614	14%	17.02	17.44	2%	104.54	107.11	2.57	1.4%	1.4%		
> 5% to 10%	369,272	11%	501	13%	15.69	16.85	7%	78.63	84.46	5.82	0.9%	1.0%		
> 10% to 15%	364,016	11%	455	12%	14.36	16.11	12%	65.29	73.27	7.97	0.9%	1.1%		
> 15% to 20%	519,198	15%	348	12%	13.55	15.91	17%	47.19	55.44	8.25	0.7%	0.8%		
> 20% to 25%	281,686	8%	247	11%	13.39	16.33	22%	33.06	40.33	7.27	0.6%	0.7%		
> 25% to 30%	163,766	5%	181	11%	13.33	16.98	27%	24.12	30.74	6.62	0.4%	0.5%		
> 30% to 35%	112,846	3%	145	10%	13.36	17.69	32%	19.40	25.68	6.28	0.4%	0.5%		
> 35% to 40%	56,999	2%	120	10%	13.39	18.40	37%	16.03	22.03	6.00	0.3%	0.4%		
> 40% to 45%	59,928	2%	90	9%	13.89	19.74	42%	12.56	17.86	5.30	0.2%	0.3%		
> 45% to 50%	29,909	1%	70	10%	14.50	21.37	47%	10.12	14.91	4.79	0.2%	0.3%		
> 50% to 55%	14,621	0%	75	9%	13.68	20.86	52%	10.28	15.67	5.39	0.2%	0.2%		
> 55% to 60%	18,989	1%	75	11%	13.38	20.89	56%	10.01	15.62	5.62	0.2%	0.4%		
> 60% to 65%	6,607	0%	65	11%	13.49	21.84	62%	8.83	14.30	5.47	0.1%	0.2%		
> 65% to 70%	2,244	0%	53	8%	14.16	23.72	68%	7.44	12.46	5.03	0.1%	0.2%		
> 70% to 75%	1,867	0%	39	15%	15.77	27.10	72%	6.12	10.51	4.39	0.1%	0.2%		
> 75% to 80%	2,936	0%	49	9%	13.79	24.39	77%	6.77	11.98	5.20	0.1%	0.1%		
> 80% to 85%	2,637	0%	49	8%	13.51	24.45	81%	6.59	11.94	5.34	0.1%	0.2%		
> 85% to 90%	-	0%	-	0%	-	-	0%	-	-	-	0.0%	0.0%		
> 90% to 95%	1,481	0%	30	17%	16.10	30.93	92%	4.81	9.25	4.43	0.1%	0.2%		
Above 95%	2,742	0%	36	15%	13.90	28.17	103%	4.97	10.09	5.11	0.1%	0.2%		
Group Total	3,353,549	100%	530	13%	18.95	18.60	-2%	100.50	98.65	(1.85)	1.4%	1.3%		

Transitional Optional TOU Rate Design Impacts NonCARE Customers



Transitional Optional TOU Rate Design Impacts NonCARE Customers

Impact	Customer		Average Monthly - kWh		Average Cents/kWh			Monthly \$			Average Bill to Income Ratio	
	Percent Range	Number	Percent	LF	May-13	Proposed	Change	May-13	Proposed	Change	May-13	Proposed
Below -20%	271,169	8%	1,173	17%	26.46	19.06	-28%	310.41	223.65	(86.76)	3.0%	2.2%
> -20% to -15%	160,224	5%	916	16%	23.03	19.00	-17%	210.92	174.04	(36.88)	2.4%	2.0%
> -15% to -10%	152,298	5%	815	15%	21.49	18.80	-12%	175.13	153.25	(21.88)	2.1%	1.9%
> -10% to -5%	179,960	5%	764	15%	19.99	18.52	-7%	152.68	141.44	(11.24)	1.9%	1.8%
> -5% to 0%	225,180	7%	656	14%	18.80	18.35	-2%	123.41	120.49	(2.92)	1.5%	1.5%
> 0% to 5%	198,408	6%	634	13%	18.04	18.40	2%	114.33	116.63	2.30	1.5%	1.5%
> 5% to 10%	213,416	6%	573	14%	16.64	17.87	7%	95.35	102.38	7.03	1.2%	1.3%
> 10% to 15%	258,021	8%	491	13%	15.91	17.90	13%	78.17	87.96	9.79	0.9%	1.1%
> 15% to 20%	286,516	9%	479	13%	14.72	17.32	18%	70.46	82.92	12.47	1.0%	1.2%
> 20% to 25%	345,739	10%	407	12%	14.00	17.14	22%	56.99	69.77	12.78	0.8%	1.0%
> 25% to 30%	433,858	13%	324	12%	13.57	17.27	27%	44.03	56.03	12.00	0.7%	0.9%
> 30% to 35%	229,773	7%	246	12%	13.44	17.74	32%	33.06	43.64	10.58	0.6%	0.7%
> 35% to 40%	128,644	4%	181	10%	13.37	18.34	37%	24.23	33.23	9.00	0.4%	0.6%
> 40% to 45%	95,674	3%	151	12%	13.36	19.02	42%	20.16	28.71	8.54	0.4%	0.5%
> 45% to 50%	58,257	2%	139	9%	13.32	19.61	47%	18.49	27.21	8.73	0.4%	0.5%
> 50% to 55%	28,179	1%	89	8%	14.09	21.41	52%	12.55	19.06	6.52	0.3%	0.4%
> 55% to 60%	26,268	1%	75	8%	14.04	22.06	57%	10.58	16.63	6.04	0.2%	0.3%
> 60% to 65%	23,597	1%	82	9%	13.73	22.27	62%	11.24	18.23	6.99	0.2%	0.3%
> 65% to 70%	23,095	1%	71	11%	13.74	22.84	66%	9.77	16.24	6.47	0.2%	0.3%
> 70% to 75%	2,120	0%	67	10%	13.29	22.91	72%	8.89	15.32	6.44	0.1%	0.2%
> 75% to 80%	2,636	0%	46	13%	14.92	26.48	77%	6.86	12.18	5.32	0.1%	0.1%
> 80% to 85%	5,013	0%	50	9%	13.66	25.04	83%	6.81	12.48	5.67	0.1%	0.2%
> 85% to 90%	643	0%	37	5%	15.99	30.01	88%	5.98	11.22	5.24	0.2%	0.5%
> 90% to 95%	440	0%	44	4%	14.26	27.36	92%	6.31	12.10	5.79	0.1%	0.2%
Above 95%	4,421	0%	34	15%	14.50	29.75	105%	4.99	10.24	5.25	0.1%	0.2%
Group Total	3,353,549	100%	530	13%	18.95	18.27	-4%	100.50	96.89	(3.61)	1.4%	1.3%

Bill Impact Matrix for Transitional non TOU Illustrative Rate Design - Non-CARE Customer																		
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%	
1	0% to 4%	172,226	172,226	(65.29)	17,747	70,766	83,263	430	-	-	-	-	-	-	-	-	-	
2	4% to 8%	185,272	185,272	(25.50)	-	198	155,284	29,790	-	-	-	-	-	-	-	-	-	
3	8% to 12%	160,263	160,263	(16.20)	-	-	32,199	128,064	-	-	-	-	-	-	-	-	-	
4	12% to 16%	172,472	172,472	(9.46)	-	503	-	135,876	36,093	-	-	-	-	-	-	-	-	
5	16% to 20%	191,247	191,247	(4.58)	-	-	-	9,627	181,620	-	-	-	-	-	-	-	-	
6	20% to 24%	182,540	180,066	(1.03)	-	-	-	-	156,690	22,115	-	-	1,261	-	-	-	-	
7	24% to 28%	185,634	184,657	1.67	-	-	-	-	151,196	191	10,193	-	958	5,611	992	737	1,232	
8	28% to 32%	187,371	181,040	3.66	-	-	-	-	101,597	47,086	6,210	1,008	5,789	5,706	743	882	-	
9	32% to 36%	233,220	212,687	5.11	-	-	-	-	15,453	133,267	10,465	6,955	1,056	4,501	5,905	5,719	-	
10	36% to 40%	233,675	211,548	5.84	-	-	-	-	524	79,181	18,751	6,313	989	6,135	9,255	1,600	-	
11	40% to 44%	193,299	182,317	6.36	-	-	-	-	626	32,860	18,914	1,925	1,388	1,925	76,893	47,786	-	
12	44% to 48%	163,919	156,838	6.73	-	-	-	-	226	14,597	21,833	10,257	5,345	85,266	19,313	-	-	
13	48% to 52%	178,180	157,277	7.04	-	-	-	-	5,593	17,969	27,468	11,474	35,523	59,250	-	-	-	
14	52% to 56%	182,107	155,366	7.32	-	-	-	-	5,397	3,923	43,235	6,259	96,553	-	-	-	-	
15	56% to 60%	167,773	135,684	7.62	-	-	-	-	-	11,445	13,917	28,789	81,534	-	-	-	-	
16	60% to 64%	188,710	158,236	7.92	-	-	-	-	299	8,285	25,574	81,967	42,112	-	-	-	-	
17	64% to 68%	195,155	174,038	8.20	-	-	-	-	356	1,467	41,990	124,439	5,786	-	-	-	-	
18	68% to 72%	185,244	139,940	8.56	-	-	-	-	-	201	37,097	102,642	-	-	-	-	-	
19	72% to 76%	183,563	139,797	8.92	-	-	-	-	-	3,006	22,310	114,481	-	-	-	-	-	
20	76% to 80%	137,579	39,988	9.62	-	-	-	-	254	3,300	14,702	21,731	-	-	-	-	-	
21	80% to 84%	170,938	26,017	10.83	-	-	-	-	-	9,697	16,320	-	-	-	-	-	-	
22	84% to 88%	191,958	19,307	11.87	-	-	-	-	-	1,512	17,795	-	-	-	-	-	-	
23	88% to 92%	177,920	13,578	13.06	-	-	-	-	-	757	12,821	-	-	-	-	-	-	
24	92% to 96%	206,941	2,589	14.78	-	-	-	-	-	527	2,062	-	-	-	-	-	-	
25	96% to 100%	194,374	1,100	16.71	-	-	-	-	-	-	1,100	-	-	-	-	-	-	
		4,621,580	3,363,549	(1.85)	17,747	71,466	270,766	303,787	374,402	308,837	369,272	365,016	519,108	281,666	163,766	112,846	56,599	

Bill Impact Matrix for Transitional non TOU Illustrative Rate Design - CARE Customer																		
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%	
1	0% to 4%	172,226	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	4% to 8%	185,272	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	8% to 12%	160,263	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	12% to 16%	172,472	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	16% to 20%	191,247	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	20% to 24%	182,540	2,475	0.41	-	-	-	-	-	-	-	2,475	-	-	-	-	-	
7	24% to 28%	185,634	977	1.47	-	-	-	-	-	-	-	-	556	-	-	-	-	
8	28% to 32%	187,371	6,331	3.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	32% to 36%	233,220	20,633	5.15	-	-	-	-	-	-	-	-	-	235	241	4,303	159	
10	36% to 40%	233,675	22,126	5.82	-	-	-	-	-	-	-	-	-	-	-	178	205	
11	40% to 44%	193,299	10,982	6.35	-	-	-	-	-	-	-	-	-	-	241	-	245	
12	44% to 48%	163,919	7,081	6.68	-	-	-	-	-	-	-	-	-	-	198	296	-	
13	48% to 52%	178,180	20,903	7.09	-	-	-	-	-	-	-	-	-	-	205	-	-	
14	52% to 56%	182,107	26,741	7.26	-	-	-	-	-	-	-	-	-	-	205	234	205	
15	56% to 60%	167,773	32,089	7.62	-	-	-	-	-	-	-	-	-	-	221	-	3,463	
16	60% to 64%	188,710	30,475	7.92	-	-	-	-	-	-	-	-	-	-	198	241	677	
17	64% to 68%	195,155	21,116	8.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	68% to 72%	185,244	45,305	8.59	-	-	-	-	-	-	-	-	-	-	245	4,950	717	
19	72% to 76%	183,563	43,766	8.99	-	-	-	-	-	-	-	-	-	-	-	255	2,433	
20	76% to 80%	137,579	97,591	9.78	-	-	-	-	-	-	-	-	-	703	11,607	73,379	-	
21	80% to 84%	170,938	144,920	10.73	-	-	-	-	-	-	-	-	775	3,610	34,615	29,758	76,162	
22	84% to 88%	191,958	172,651	11.76	-	-	-	-	-	-	-	842	33,458	15,994	11,828	81,468	29,061	
23	88% to 92%	177,920	164,342	13.24	-	-	-	-	-	-	804	7,041	31,750	57,780	66,967	-	-	
24	92% to 96%	206,941	204,352	14.82	-	-	-	-	-	-	-	10,890	40,427	55,524	63,002	34,519	-	
25	96% to 100%	194,374	193,274	19.74	-	-	-	-	-	-	9,638	37,696	54,530	46,527	41,601	3,282	-	
		4,621,580	1,268,031	12.40	-	-	-	-	-	-	10,442	51,893	136,786	154,343	212,246	236,780	187,000	

Bill Impact Matrix for Transitional non TOU Illustrative Rate Design - Non-CARE Customer																
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
1	0% to 4%	172,226	172,226	(65.29)	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	185,272	(25.50)	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	160,263	(16.20)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,472	172,472	(9.46)	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	191,247	191,247	(4.58)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	182,540	180,066	(1.03)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	185,634	184,657	1.87	6,650	5,914	254	536	201	-	-	-	-	-	-	-
8	28% to 32%	187,371	181,040	3.66	3,757	4,476	677	399	241	483	979	179	-	-	-	-
9	32% to 36%	233,220	212,687	5.11	9,675	4,947	4,259	403	396	684	433	2,757	2,637	-	1,048	-
10	36% to 40%	233,675	211,548	5.84	39,845	14,572	9,430	17,651	5,769	1,077	456	-	-	-	433	2,742
11	40% to 44%	193,299	182,317	6.36	-	-	-	-	-	-	-	-	-	-	-	-
12	44% to 48%	163,919	156,838	6.73	-	-	-	-	-	-	-	-	-	-	-	-
13	48% to 52%	178,180	157,277	7.04	-	-	-	-	-	-	-	-	-	-	-	-
14	52% to 56%	182,107	155,366	7.32	-	-	-	-	-	-	-	-	-	-	-	-
15	56% to 60%	167,773	135,684	7.62	-	-	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	188,710	158,236	7.92	-	-	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	195,155	174,038	8.20	-	-	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	185,244	139,940	8.56	-	-	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	183,563	139,797	8.92	-	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	137,579	39,988	9.62	-	-	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	170,938	26,017	10.83	-	-	-	-	-	-	-	-	-	-	-	-
22	84% to 88%	191,958	19,307	11.87	-	-	-	-	-	-	-	-	-	-	-	-
23	88% to 92%	177,920	13,578	13.06	-	-	-	-	-	-	-	-	-	-	-	-
24	92% to 96%	206,941	2,589	14.78	-	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	194,374	1,100	16.71	-	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	3,353,549	(1.65)	69,928	29,909	14,621	16,989	6,607	2,224	1,867	2,936	2,637	-	1,481	2,742

Bill Impact Matrix for Transitional non TOU Illustrative Rate Design - CARE Customer																
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change	> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
1	0% to 4%	172,226	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,472	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	191,247	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	182,540	2,475	0.41	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	185,634	977	1.47	-	-	-	-	-	-	421	-	-	-	-	-
8	28% to 32%	187,371	6,331	3.48	428	198	-	241	-	-	-	-	-	-	-	-
9	32% to 36%	233,220	20,533	5.15	241	-	292	-	-	-	4,102	446	3,518	-	201	503
10	36% to 40%	233,675	22,126	5.82	255	-	198	-	198	5,651	4,652	10,790	201	637	4,760	4,917
11	40% to 44%	193,299	10,982	6.35	-	-	205	1,441	8,557	292	-	-	-	-	-	-
12	44% to 48%	163,919	7,081	6.68	-	-	496	6,092	1,357	-	-	-	-	-	-	-
13	48% to 52%	178,180	20,903	7.09	573	-	18,788	-	-	-	-	-	-	-	-	-
14	52% to 56%	182,107	26,741	7.26	-	1,553	24,749	-	-	-	-	-	-	-	-	-
15	56% to 60%	167,773	32,089	7.62	4,962	-	-	23,443	-	-	-	-	-	-	-	-
16	60% to 64%	188,710	30,475	7.92	442	28,916	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	195,155	21,116	8.22	10,194	10,922	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	185,244	45,305	8.59	39,393	-	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	183,563	43,766	8.99	41,079	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	137,579	97,591	9.78	10,259	-	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	170,938	144,920	10.73	-	-	-	-	-	-	-	-	-	-	-	-
22	84% to 88%	191,958	172,651	11.76	-	-	-	-	-	-	-	-	-	-	-	-
23	88% to 92%	177,920	164,342	13.24	-	-	-	-	-	-	-	-	-	-	-	-
24	92% to 96%	206,941	204,352	14.82	-	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	194,374	193,274	19.74	-	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	1,268,031	12.40	107,826	65,092	44,708	9,191	8,755	5,942	9,175	13,236	3,720	637	4,961	5,419

Bill Impact Matrix for Transitional Optional TOU Illustrative Rate Design - Non-CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,428	172,428	(113.78)	159,746	12,682	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	176,653	176,653	(43.30)	92,782	74,590	9,290	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	163,997	163,997	(27.11)	13,487	70,888	73,303	6,319	-	-	-	-	-	-	-	-	-
4	12% to 16%	170,749	170,749	(14.57)	5,154	2,063	64,244	97,382	1,906	-	-	-	-	-	-	-	-
5	16% to 20%	162,616	162,616	(6.32)	-	-	5,471	76,259	80,885	-	-	-	-	-	-	-	-
6	20% to 24%	216,387	213,357	(0.83)	-	-	-	-	142,389	62,249	235	7,348	477	659	-	-	-
7	24% to 28%	186,260	181,671	2.90	-	-	-	-	-	118,683	22,833	8,004	1,897	4,667	1,219	1,935	5,284
8	28% to 32%	206,011	194,657	5.67	-	-	-	-	-	14,576	79,337	16,737	7,972	2,107	5,339	5,353	9,419
9	32% to 36%	214,809	204,261	6.81	-	-	-	-	-	1,254	43,538	30,613	2,927	10,085	9,959	21,791	13,042
10	36% to 40%	198,973	182,483	7.69	-	-	-	-	-	1,121	17,499	35,540	13,069	2,898	14,308	25,287	34,003
11	40% to 44%	171,865	158,855	8.35	-	-	-	-	-	299	12,730	23,506	12,887	19,227	14,505	30,476	11,451
12	44% to 48%	182,083	170,348	8.99	-	-	-	-	-	226	4,839	15,614	23,224	21,287	40,982	24,007	22,883
13	48% to 52%	140,884	118,531	9.65	-	-	-	-	-	-	3,674	15,942	15,699	15,247	31,164	19,833	7,055
14	52% to 56%	186,584	169,114	10.44	-	-	-	-	-	-	14,001	30,394	13,895	34,065	54,142	18,317	1,749
15	56% to 60%	217,387	184,303	11.28	-	-	-	-	-	-	1,481	23,618	31,630	44,510	56,816	24,162	1,881
16	60% to 64%	174,537	138,507	12.08	-	-	-	-	-	-	1,448	4,603	36,002	36,249	40,335	6,081	1,202
17	64% to 68%	218,090	166,399	12.98	-	-	-	-	-	-	1,068	9,487	46,677	31,778	62,320	8,804	5,571
18	68% to 72%	188,218	124,876	14.05	-	-	-	-	-	-	5,469	4,775	13,211	50,123	36,612	7,876	5,849
19	72% to 76%	153,746	97,129	15.35	-	-	-	-	-	-	5,017	12,812	21,489	17,144	20,074	10,657	5,633
20	76% to 80%	191,506	104,966	17.11	-	-	-	-	-	-	-	11,223	27,879	20,110	25,477	12,132	1,373
21	80% to 84%	166,076	43,189	19.20	-	-	-	-	-	-	-	2,127	6,851	16,469	6,671	10,324	746
22	84% to 88%	171,706	38,891	22.17	-	-	-	-	-	-	245	299	8,295	14,022	12,162	2,142	1,204
23	88% to 92%	203,564	5,289	26.37	-	-	-	-	-	-	-	-	503	1,407	2,097	319	299
24	92% to 96%	175,633	9,730	30.79	-	-	-	-	-	-	-	-	4,877	773	2,693	1,110	277
25	96% to 100%	210,819	553	40.52	-	-	-	-	-	-	-	-	-	254	299	-	-
		4,621,580	3,353,549	(3.61)	271,169	160,224	152,298	179,960	225,180	198,408	213,416	258,021	286,516	345,739	433,858	229,773	128,644

Bill Impact Matrix for Transitional Optional TOU Illustrative Rate Design - CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Monthly Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,428	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	176,653	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	163,997	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	170,749	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	162,616	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	216,387	3,031	0.46	-	-	-	-	-	-	-	2,475	556	-	-	-	-
7	24% to 28%	186,260	4,589	3.45	-	-	-	-	-	-	-	-	-	-	-	-	-
8	28% to 32%	206,011	11,354	5.90	-	-	-	-	-	-	-	-	-	235	226	201	4,102
9	32% to 36%	214,809	10,548	6.74	-	-	-	-	-	-	-	-	-	-	-	-	-
10	36% to 40%	198,973	16,490	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-
11	40% to 44%	171,865	13,010	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-
12	44% to 48%	182,083	11,735	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
13	48% to 52%	140,884	22,353	9.60	-	-	-	-	-	-	-	-	-	-	-	-	-
14	52% to 56%	186,584	17,470	10.50	-	-	-	-	-	-	-	-	-	-	-	198	198
15	56% to 60%	217,387	33,083	11.23	-	-	-	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	174,537	36,030	12.02	-	-	-	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	218,090	51,691	13.06	-	-	-	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	188,218	63,342	14.08	-	-	-	-	-	-	-	-	-	-	-	-	453
19	72% to 76%	153,746	56,617	15.50	-	-	-	-	-	-	-	-	-	-	-	241	-
20	76% to 80%	191,506	86,540	17.21	-	-	-	-	-	-	-	-	201	-	-	563	849
21	80% to 84%	166,076	122,888	19.48	-	-	-	-	-	-	-	-	-	-	-	-	4,379
22	84% to 88%	171,706	132,815	21.91	-	-	-	-	-	-	-	-	-	-	302	11,603	6,979
23	88% to 92%	203,564	198,275	26.19	-	-	-	-	-	-	-	-	-	452	1,086	12,303	19,381
24	92% to 96%	175,633	165,903	32.15	-	-	-	-	-	-	-	-	226	982	2,539	3,420	7,978
25	96% to 100%	210,819	210,266	48.92	-	-	-	-	-	-	-	421	1,255	2,413	12,365	20,250	27,054
		4,621,580	1,268,031	25.03	-	-	-	-	-	-	-	2,896	2,237	4,082	16,517	48,780	71,372

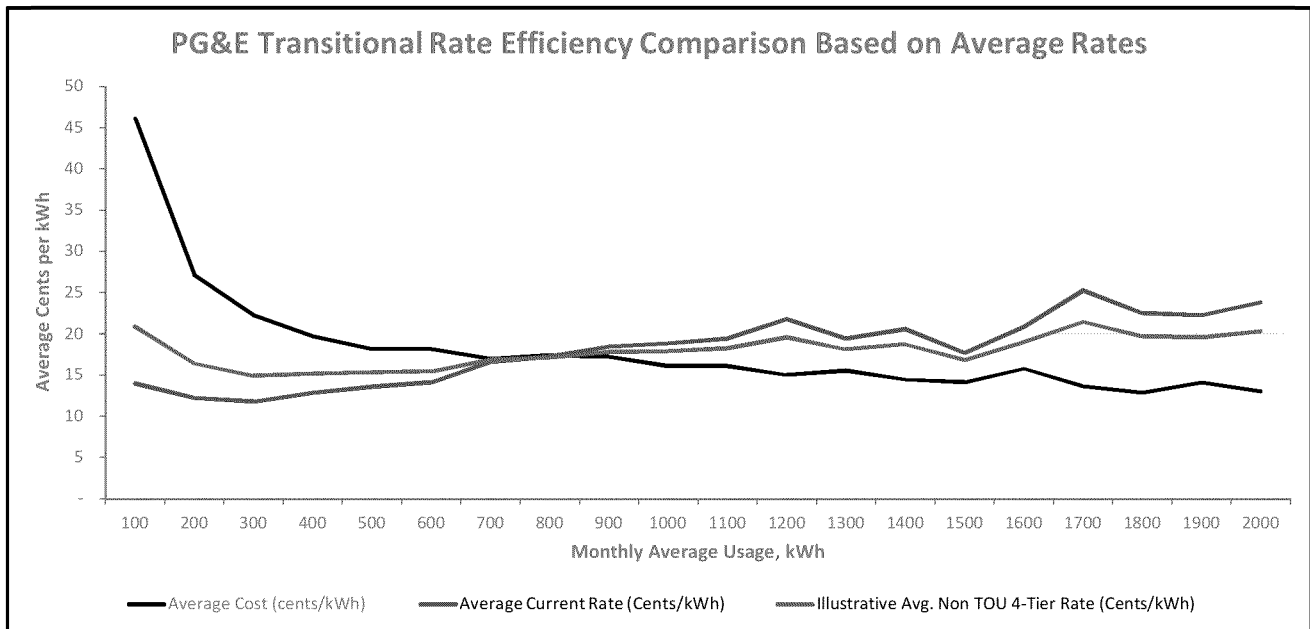
Bill Impact Matrix for Transitional Optional TOU Illustrative Rate Design - Non-CARE Customers																
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
1	0% to 4%	172,428	172,428	(113.78)	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	176,653	176,653	(43.30)	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	163,997	163,997	(27.11)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	170,749	170,749	(14.57)	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	162,616	162,616	(6.32)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	216,387	213,357	(0.83)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	186,260	181,671	2.90	1,967	500	5,746	5,780	757	392	-	-	-	-	-	-
8	28% to 32%	206,011	194,657	5.67	10,244	6,046	6,303	6,866	4,360	8,686	898	1,379	5,013	404	440	1,048
9	32% to 36%	214,809	204,261	6.81	17,376	16,611	3,753	8,722	12,185	10,740	1,222	245	-	-	-	198
10	36% to 40%	198,973	182,483	7.69	18,374	13,124	6,077	889	-	-	-	292	-	-	-	-
11	40% to 44%	171,865	158,855	8.35	20,126	5,069	1,223	3,789	292	3,277	-	-	-	-	-	-
12	44% to 48%	182,083	170,348	8.99	6,452	4,832	-	-	6,003	-	-	-	-	-	-	-
13	48% to 52%	140,884	118,531	9.65	848	4,193	4,876	-	-	-	-	-	-	-	-	-
14	52% to 56%	186,584	169,114	10.44	1,949	178	201	223	-	-	-	-	-	-	-	-
15	56% to 60%	217,387	184,303	11.28	205	-	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	174,537	138,507	12.08	12,285	302	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	218,090	166,399	12.98	439	255	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	188,218	124,876	14.05	292	669	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	153,746	97,129	15.35	4,304	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	191,506	104,966	17.11	292	6,479	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	166,076	43,189	19.20	-	-	-	-	-	-	-	-	-	-	-	-
22	84% to 88%	171,706	38,891	22.17	521	-	-	-	-	-	-	-	-	-	-	-
23	88% to 92%	203,564	5,289	26.37	-	-	-	-	-	-	-	-	-	-	-	-
24	92% to 96%	175,633	9,730	30.79	-	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	210,819	553	40.52	-	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	3,353,549	(3.61)	95,674	58,257	28,179	26,268	23,597	23,095	2,120	2,636	5,013	643	440	4,421

Bill Impact Matrix for Transitional Optional TOU Illustrative Rate Design - CARE Customers																
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change	> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
1	0% to 4%	172,428	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	176,653	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	163,997	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	170,749	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	162,616	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	216,387	3,031	0.46	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	186,260	4,589	3.45	-	223	-	-	-	-	-	-	421	-	-	3,518
8	28% to 32%	206,011	11,354	5.90	451	302	-	205	198	241	-	-	-	-	4,102	1,519
9	32% to 36%	214,809	10,548	6.74	442	-	-	-	-	-	-	201	-	-	205	9,699
10	36% to 40%	198,973	16,490	7.46	-	-	-	-	-	-	221	-	-	878	439	14,952
11	40% to 44%	171,865	13,010	8.31	178	-	-	-	617	654	198	393	1,759	4,620	4,591	-
12	44% to 48%	182,083	11,735	9.00	-	-	451	4,670	198	198	2,035	2,021	1,870	292	-	-
13	48% to 52%	140,884	22,353	9.60	234	255	296	277	446	13,022	890	4,597	1,811	725	-	-
14	52% to 56%	186,584	17,470	10.50	241	-	198	239	876	1,057	2,829	10,064	818	450	302	-
15	56% to 60%	217,387	33,083	11.23	504	241	198	4,005	2,522	8,498	5,878	10,079	936	223	-	-
16	60% to 64%	174,537	36,030	12.02	-	456	383	5,646	2,494	12,659	8,158	5,711	523	-	-	-
17	64% to 68%	218,090	51,691	13.06	245	440	282	639	10,118	14,981	22,710	389	632	778	221	255
18	68% to 72%	188,218	63,342	14.08	376	4,140	14,229	2,798	13,082	23,168	3,283	1,399	414	-	-	-
19	72% to 76%	153,746	56,617	15.50	442	5,613	1,300	3,966	30,044	7,714	5,327	1,114	603	223	-	-
20	76% to 80%	191,506	86,540	17.21	3,747	7,499	3,814	11,390	38,049	8,059	10,335	960	550	223	302	-
21	80% to 84%	166,076	122,888	19.48	2,067	17,809	19,134	24,236	29,779	16,809	3,091	1,129	3,864	591	-	-
22	84% to 88%	171,706	132,815	21.91	13,462	10,277	18,872	32,297	21,138	8,162	6,192	1,975	1,566	-	-	-
23	88% to 92%	203,564	198,275	26.19	9,300	42,359	32,444	22,717	32,680	10,172	11,027	2,485	1,869	-	-	-
24	92% to 96%	175,633	165,903	32.15	14,204	23,439	15,244	49,214	11,453	20,916	14,203	882	705	499	-	-
25	96% to 100%	210,819	210,266	48.92	18,409	39,299	36,171	27,633	18,324	6,173	245	-	254	-	-	-
		4,621,580	1,268,031	25.03	64,302	152,351	142,563	165,742	216,491	152,463	94,785	43,414	18,539	11,079	10,454	29,944

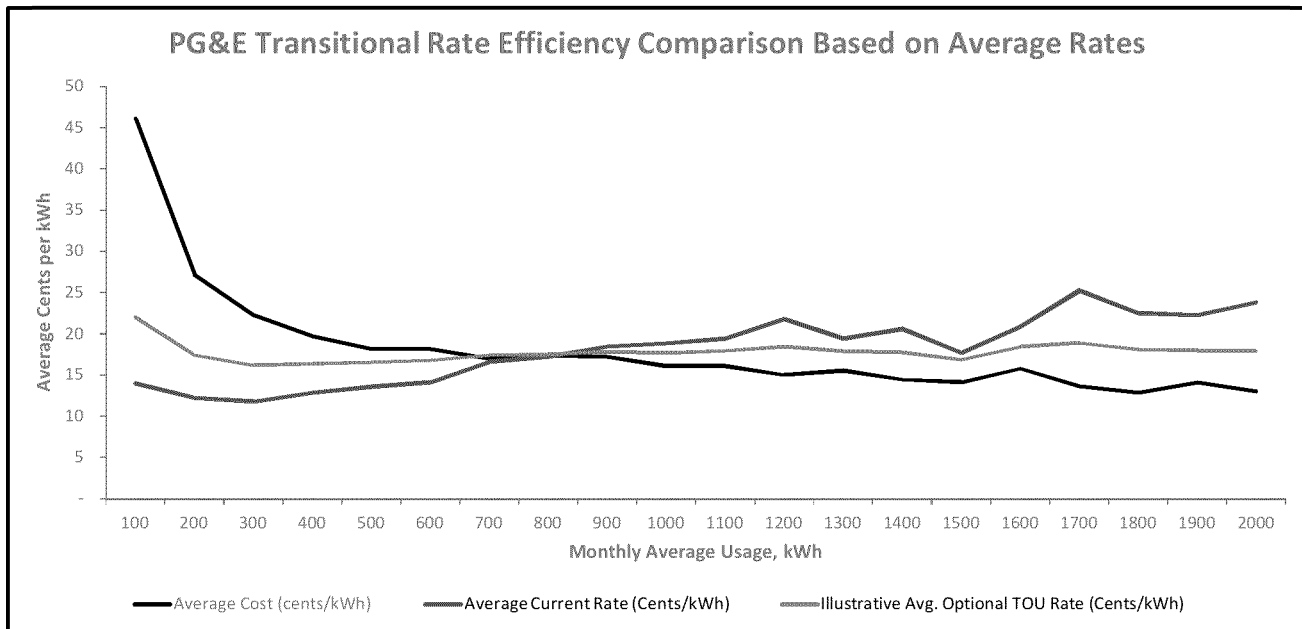
PG&E Transitional Bill Impact Tables by Load Factor and Income Ranges

Load Factor Description	Load Factor Range	Avg. Percent Non TOU Bill Impact	Avg. Current Bill	Avg. Non TOU Bill	Avg. Cost Based Bill	Avg. Percent Optional TOU Bill Impact	Avg. Optional TOU Bill	Number of Households
Non CARE								
Low	0 to 25%	-1%	98.77	97.30	94.38	-3%	95.86	3,276,526
Medium	25% to 40%	-11%	186.87	166.68	107.96	-20%	150.04	70,879
High	Above 40%	22%	29.13	35.60	36.44	28%	37.16	6,144
Non CARE Average		-2%	100.50	98.65	94.56	-4%	96.89	3,353,549
CARE								
Low	0 to 25%	26%	48.22	60.53	91.05	51%	72.90	1,202,126
Medium	25% to 40%	17%	81.54	95.64	106.43	39%	113.29	63,527
High	Above 40%	21%	56.04	68.07	71.30	40%	78.68	2,378
CARE Average		25%	49.90	62.30	91.78	50%	74.93	1,268,031
All Customers								
Low	0 to 25%	3%	85.20	87.43	93.48	5%	89.69	4,478,652
Medium	25% to 40%	-3%	137.09	133.10	107.24	-3%	132.67	134,406
High	Above 40%	22%	36.64	44.66	46.17	33%	48.74	8,522
All Customers Average		2%	86.62	88.68	93.80	5%	90.87	4,621,580

Income Range	Avg. Percent Non TOU Bill Impact	Avg. Current Bill	Avg. Non TOU Bill	Avg. Cost Based Bill	Avg. Percent Optional TOU Bill Impact	Avg. Optional TOU Bill	Number of Households	
Non CARE								
0 to 30K	4%	69.01	71.55	77.11	6%	72.95	351,895	
30K to 60K	3%	77.15	79.71	84.29	5%	81.08	875,392	
60K to 75K	-1%	101.10	100.13	100.79	-1%	100.08	464,643	
75K to 100K	-2%	99.32	97.81	94.14	-3%	96.39	596,618	
100K to 500K	-6%	130.50	122.99	106.28	-11%	116.69	1,065,002	
Non CARE Average		-2%	100.50	98.65	94.56	-4%	96.89	3,353,549
CARE								
0 to 30K	28%	41.42	53.08	81.83	54%	63.86	694,134	
30K to 60K	24%	55.12	68.10	98.36	49%	81.95	404,439	
60K to 75K	19%	76.89	91.28	120.11	43%	110.21	62,731	
75K to 100K	23%	57.73	71.22	102.52	49%	85.73	67,939	
100K to 500K	16%	89.88	104.25	136.59	38%	124.04	38,788	
CARE Average		25%	49.90	62.30	91.78	50%	74.93	1,268,031
All Customers								
0 to 30K	17%	50.71	59.29	80.25	32%	66.92	1,046,029	
30K to 60K	8%	70.19	76.04	88.73	16%	81.36	1,279,831	
60K to 75K	1%	98.22	99.08	103.09	3%	101.28	527,374	
75K to 100K	0%	95.07	95.09	94.99	0%	95.30	664,557	
100K to 500K	-5%	129.07	122.33	107.35	-9%	116.95	1,103,790	
All Customers Average		2%	86.62	88.68	93.80	5%	90.87	4,621,580



Cost of Service vs. Current and Illustrative Transitional Rate Designs					
Average Monthly Usage	Average Cost (cents/kWh)	Average Current Rate (Cents/kWh)	Illustrative Avg. Non TOU (Cents/kWh)	Percent Change-Current	Percent Change-Illustrative Non TOU
100	46.07	13.99	20.90	-70%	-55%
200	27.17	12.25	16.41	-55%	-40%
300	22.30	11.81	14.89	-47%	-33%
400	19.75	12.88	15.18	-35%	-23%
500	18.18	13.56	15.31	-25%	-16%
600	18.16	14.16	15.45	-22%	-15%
700	16.99	16.63	16.86	-2%	-1%
800	17.42	17.26	17.10	-1%	-2%
900	17.18	18.51	17.82	8%	4%
1000	16.10	18.87	17.90	17%	11%
1100	16.05	19.46	18.23	21%	14%
1200	15.00	21.81	19.61	45%	31%
1300	15.57	19.47	18.13	25%	16%
1400	14.46	20.63	18.73	43%	30%
1500	14.13	17.72	16.83	25%	19%
1600	15.80	20.90	19.02	32%	20%
1700	13.67	25.28	21.46	85%	57%
1800	12.86	22.54	19.71	75%	53%
1900	14.13	22.30	19.61	58%	39%
2000	13.03	23.83	20.30	83%	56%

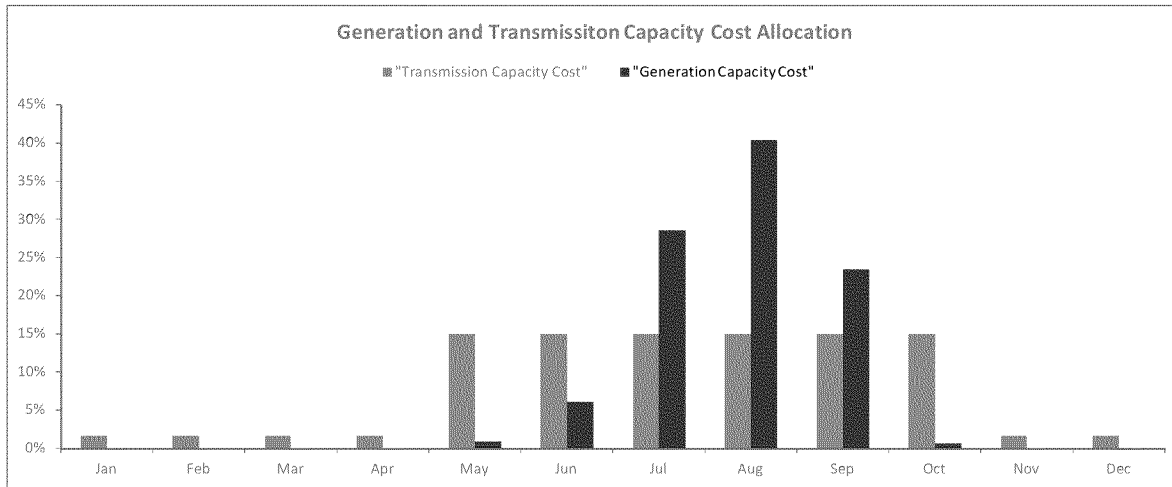


Cost of Service vs. Current and Illustrative Transitional Rate Designs					
Average Monthly Usage	Average Cost (cents/kWh)	Average Current Rate (Cents/kWh)	Illustrative Avg. Optional TOU (Cents/kWh)	Percent Change-Current	Percent Change-Illustrative Optional TOU
100	46.07	13.99	22.04	-70%	-52%
200	27.17	12.25	17.47	-55%	-36%
300	22.30	11.81	16.24	-47%	-27%
400	19.75	12.88	16.38	-35%	-17%
500	18.18	13.56	16.54	-25%	-9%
600	18.16	14.16	16.76	-22%	-3%
700	16.99	16.63	17.43	-2%	3%
800	17.42	17.26	17.51	-1%	1%
900	17.18	18.51	17.85	8%	4%
1000	16.10	18.87	17.65	17%	10%
1100	16.05	19.46	17.97	21%	12%
1200	15.00	21.81	18.45	45%	23%
1300	15.57	19.47	17.90	25%	15%
1400	14.46	20.63	17.76	43%	23%
1500	14.13	17.72	16.87	25%	19%
1600	15.80	20.90	18.42	32%	17%
1700	13.67	25.28	18.94	85%	39%
1800	12.86	22.54	18.08	75%	41%
1900	14.13	22.30	17.97	58%	27%
2000	13.03	23.83	17.90	83%	37%

Cost of Service vs. Current and Transitional Illustrative Rate Designs							
Monthly Average Bill					Difference from Cost		
Average Monthly Usage	Average Cost	Average Current	Average Non TOU 4-Tier Rate	Average Optional TOU	Current	Non TOU 4-Tier Rate	Optional TOU
100	\$29.25	\$8.88	\$13.27	\$13.99	(\$20.37)	(\$15.98)	(\$15.25)
200	\$41.86	\$16.87	\$25.22	\$26.92	(\$22.98)	(\$18.37)	(\$14.94)
300	\$55.68	\$29.49	\$37.20	\$40.55	(\$26.19)	(\$18.49)	(\$15.13)
400	\$69.19	\$45.10	\$53.17	\$57.38	(\$24.09)	(\$18.01)	(\$11.81)
500	\$80.59	\$60.09	\$67.88	\$73.34	(\$20.50)	(\$12.71)	(\$7.26)
600	\$99.39	\$77.53	\$84.56	\$91.73	(\$21.86)	(\$14.82)	(\$7.66)
700	\$109.91	\$107.56	\$109.07	\$112.73	(\$2.35)	(\$0.83)	\$2.82
800	\$130.28	\$129.06	\$127.84	\$136.94	(\$12.22)	(\$2.43)	\$0.66
900	\$145.42	\$156.67	\$150.79	\$151.10	\$11.25	\$5.37	\$5.67
1000	\$153.50	\$179.83	\$170.55	\$168.22	\$26.33	\$17.08	\$14.73
1100	\$167.58	\$203.22	\$190.35	\$187.57	\$35.63	\$22.76	\$19.99
1200	\$171.34	\$249.12	\$223.96	\$210.57	\$77.77	\$52.62	\$39.52
1300	\$195.09	\$243.93	\$227.14	\$224.31	\$48.84	\$32.05	\$29.22
1400	\$194.16	\$277.00	\$251.57	\$238.54	\$82.83	\$57.41	\$44.38
1500	\$205.72	\$258.03	\$245.07	\$245.57	\$52.31	\$39.34	\$39.85
1600	\$241.40	\$319.41	\$290.62	\$281.51	\$78.01	\$49.25	\$40.11
1700	\$222.61	\$411.73	\$349.47	\$308.46	\$189.11	\$126.86	\$85.85
1800	\$224.44	\$393.23	\$343.05	\$315.55	\$168.79	\$119.51	\$91.31
1900	\$261.08	\$412.02	\$362.34	\$331.95	\$150.94	\$101.26	\$70.87
2000	\$321.86	\$589.91	\$442.63	\$442.20	\$266.95	\$179.77	\$120.35
Total	\$93.80	\$86.62	\$88.68	\$90.87	(\$7.18)	(\$5.12)	(\$2.93)

Annual Average Revenue for Transitional Rates					Difference from Cost		
Average Monthly Usage	Cost Based	Current Total	Non TOU 4-Tier Rate Total	Optional TOU Total	Current Total	Non TOU 4-Tier Rate Total	Optional TOU Total
100	\$62,503,329.62	\$18,973,280.89	\$28,350,894.86	\$29,904,342.93	(\$43,530,048.74)	(\$34,152,434.76)	(\$32,598,986.69)
200	\$223,376,486.32	\$100,715,673.17	\$134,957,741.72	\$143,642,281.34	(\$122,660,813.15)	(\$88,418,744.59)	(\$79,734,204.97)
300	\$359,696,364.83	\$190,502,307.45	\$240,274,788.01	\$261,929,668.96	(\$169,194,057.38)	(\$119,421,576.82)	(\$97,766,695.87)
400	\$661,218,176.63	\$444,941,762.34	\$523,568,853.09	\$594,820,937.94	(\$237,174,416.29)	(\$167,647,325.54)	(\$116,298,180.89)
500	\$584,036,342.24	\$435,463,868.57	\$491,926,813.96	\$531,458,283.89	(\$148,572,473.66)	(\$92,109,528.27)	(\$52,578,058.35)
600	\$628,660,211.63	\$490,380,841.64	\$534,893,070.91	\$580,238,647.48	(\$138,279,369.99)	(\$83,767,140.73)	(\$48,421,564.35)
700	\$546,967,065.16	\$535,293,782.99	\$542,822,474.11	\$561,019,261.52	(\$11,673,282.17)	(\$4,144,591.05)	\$14,052,196.35
800	\$536,434,945.89	\$531,414,446.08	\$526,416,313.47	\$539,142,752.90	(\$5,020,499.80)	(\$10,019,832.42)	\$2,707,807.02
900	\$401,923,684.54	\$433,022,186.01	\$416,755,266.87	\$417,601,698.49	\$31,098,501.47	\$14,831,582.33	\$15,678,013.95
1000	\$220,817,363.58	\$258,699,888.36	\$245,384,819.65	\$242,000,533.22	\$7,881,704.79	\$24,567,436.07	\$21,183,249.65
1100	\$203,030,176.31	\$246,197,209.43	\$230,605,505.81	\$227,246,843.66	\$43,167,033.12	\$27,575,329.50	\$24,216,667.34
1200	\$192,473,235.61	\$279,836,732.67	\$251,580,752.01	\$235,646,556.76	\$87,383,497.06	\$59,107,516.40	\$44,173,321.16
1300	\$118,669,165.04	\$148,375,548.35	\$138,162,509.51	\$136,440,865.17	\$29,706,383.31	\$19,493,344.48	\$17,771,700.13
1400	\$109,026,213.29	\$156,822,568.23	\$142,425,413.23	\$135,049,500.29	\$46,896,354.92	\$32,500,199.94	\$25,123,287.00
1500	\$90,322,828.95	\$113,287,872.55	\$107,595,718.27	\$107,817,447.49	\$22,965,043.60	\$17,272,889.32	\$17,494,618.54
1600	\$36,328,154.62	\$46,068,052.67	\$43,736,564.58	\$42,365,094.03	\$11,739,898.05	\$7,408,300.95	\$6,036,939.41
1700	\$33,528,382.82	\$62,011,101.72	\$52,634,590.62	\$46,457,803.53	\$28,482,718.90	\$19,106,207.80	\$12,929,420.71
1800	\$14,050,539.12	\$24,617,323.66	\$21,632,237.28	\$19,754,405.62	\$10,589,784.52	\$7,481,098.16	\$5,703,600.49
1900	\$11,134,863.64	\$17,572,306.65	\$15,453,613.32	\$14,157,290.49	\$6,437,443.01	\$4,318,749.68	\$3,022,426.85
2000	\$146,769,735.06	\$268,501,627.91	\$228,747,331.30	\$201,648,946.69	\$121,731,891.86	\$81,978,095.24	\$54,673,210.64
Total	\$5,201,865,288	\$4,803,797,581	\$4,917,826,763	\$5,039,449,322	(\$398,067,707)	(\$284,038,525)	(\$162,415,966)

Cost Basis					
Cost Components		Marginal Cost	Unit	Allocation	Other
Generation Energy Charge	Summer, on-peak	6.59	Cents/kWh	Volumetric	
	Summer, part-peak	6.05	Cents/kWh		
	Summer, Off-peak	4.42	Cents/kWh		
	Winter, on-peak	5.98	Cents/kWh		
	Winter, off-peak	4.58	Cents/kWh		
Generation Capacity Cost	Annual	122.22	\$/kW-yr	Allocated to summer months.	Reserve margin = 15%
Transmission Capacity Cost	Annual	86.22	\$/kW-yr	Allocated to summer months	Line Loss = 7%
Distribution Capacity Cost	Primary	105.12	\$/kW-yr	Allocated equally to all months	Line Loss = 5.3%
	Secondary	1.08	\$/kW-yr	Allocated equally to all months	Line Loss = 5.3%
Customer Access Charge		123.14	\$/year	Allocated equally to all months	
Other Fixed Charge		83.20	\$/year	Allocated equally to all months	



Illustrative Energy Conservation Estimation Using Elasticity of Usage for Transitional Rates

The results below are based on 100% volumetric rate designs

Energy Conservation	Current Rate	Non TOU Rate	Optional TOU Rate
Usage, kWh	29,201,592,102	28,926,098,301	28,490,607,581
Conserved kWh		275,493,801	710,984,521
Percent conserved		0.94%	2.43%

5-Tiered Rates	Non TOU Rate		Optional TOU Rate				
	NonCARE	CARE	NonCARE	CARE			
Tier-1	\$0.13230	\$0.08316	\$0.14207	\$0.10231	Summer, on-peak	\$0.32131	\$0.25705
Tier-2	\$0.15040	\$0.09563	\$0.16630	\$0.12070	Summer, part-peak	\$0.24716	\$0.19773
Tier-3	\$0.31114	\$0.13974	\$0.24667	\$0.14275	Summer, off-peak	\$0.19012	\$0.15210
Tier-4	\$0.35114	\$0.13974	\$0.26667	\$0.14275	Winter, part-peak	\$0.22245	\$0.17796
Tier-5	\$0.35114	\$0.13974	\$0.26667	\$0.14275	Winter, off-peak	\$0.17111	\$0.13689

Summary of Usage	Current Rate		Illustrative Non TOU Rate		Illustrative TOU Rate		
	NonCARE	CARE	NonCARE	CARE	NonCARE	CARE	
Tier-1	12,933,913,864	5,321,735,874	12,742,948,871	5,076,594,753	Summer, on-peak	2,041,245,929	804,804,972
Tier-2	2,448,663,859	861,927,586	2,396,889,608	816,744,379	Summer, part-peak	2,246,114,758	831,571,065
Tier-3	3,324,020,293	1,671,246,605	3,461,771,103	1,664,046,498	Summer, off-peak	6,059,957,328	2,161,791,686
Tier-4	1,695,693,048		1,777,275,812		Winter, part-peak	1,209,072,898	396,206,910
Tier-5	944,390,972		989,827,277		Winter, off-peak	9,514,804,890	3,225,037,046
Total	21,346,682,036	7,854,910,066	21,368,712,670	7,557,385,630	Total	21,071,195,903	7,419,411,679

Methodology

The energy conservation calculation is done in two steps.
 Step 1: Energy conservation due to moving from the current rate to illustrative non-TOU rate is calculated.
 Step 2: Energy conservation due to moving from the illustrative non-TOU rate to illustrative Optional TOU rate is calculated.
 This methodology is based on a survey data that requires a two step calculation.

Consumption Change: Current Rate Design to Illustrative Non TOU Rate

Non-CARE								
Tier	Current Rate Based usage (kWh/yr)	Current Rate (\$/kWh)	New price (\$/kWh)	Change in price (%)	Price elasticity	Change in quantity (%)	Flat Rate usage (kWh/yr)	Change in usage (kWh/yr)
1	12,933,913,864	\$0.13230	\$0.14207	7.4%	-0.33	-1.5%	12,742,948,871	(190,964,994)
2	2,448,663,859	\$0.15040	\$0.16630	10.6%	-0.20	-2.1%	2,396,889,608	(51,774,251)
3	3,324,020,293	\$0.31114	\$0.24667	-20.7%	-0.20	4.1%	3,461,771,103	137,750,810
4	1,695,693,048	\$0.35114	\$0.26667	-24.1%	-0.20	4.8%	1,777,275,812	81,582,764
5	944,390,972	\$0.35114	\$0.26667	-24.1%	-0.20	4.8%	989,827,277	45,436,305
Total	21,346,682,036					0.10%	21,368,712,670	22,030,634

CARE								
Tier	Current usage (kWh/yr)	2020 IBR Rate (\$/kWh)	New price (\$/kWh)	Change in price (%)	Price elasticity	Change in quantity (%)	New usage (kWh/yr)	Change in usage (kWh/yr)
1	5,321,735,874	\$0.08316	\$0.10231	23.0%	-0.20	-4.6%	5,076,594,753	(245,141,121)
2	861,927,586	\$0.09563	\$0.12070	26.2%	-0.20	-5.2%	816,744,379	(45,183,207)
3	1,671,246,605	\$0.13974	\$0.14275	2.2%	-0.20	-0.4%	1,664,046,498	(7,200,107)
Total	7,854,910,066					-3.79%	7,557,385,630	(297,524,436)

Consumption Change: Illustrative Non TOU Rate to Optional TOU Rate

Non-CARE								
Summer								
	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Peak		2,236,476,188	2,912,078	\$0.14207	\$0.321311	-8.73%	2,041,245,929	(195,230,258)
Partial-Peak		2,335,136,207	2,437,512	\$0.14207	\$0.247162	-3.81%	2,246,114,758	(89,021,449)
Off-Peak		5,978,072,420	2,222,332	\$0.14207	\$0.190125	1.37%	6,059,957,328	81,884,907
Total	4,416	10,549,684,815					10,347,318,015	(202,366,800)

Winter								
	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Partial-Peak		1,277,754,979	3,353,688	\$0.14207	\$0.22245	-5.38%	1,209,072,898	(68,682,081)
Off-Peak		9,541,272,877	2,407,588	\$0.14207	\$0.17111	-0.28%	9,514,804,990	(26,467,887)
Total	4,344	10,819,027,855					10,723,877,888	(95,149,968)

CARE								
Summer								
	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Peak		884,024,158	1,151,073	\$0.10231	\$0.25705	-8.96%	804,804,972	(79,219,186)
Partial-Peak		866,730,703	904,729	\$0.10231	\$0.19773	-4.06%	831,571,065	(35,159,638)
Off-Peak		2,138,011,238	794,800	\$0.10231	\$0.15210	1.11%	2,161,791,686	23,780,447
Total	4,416	3,888,766,099					3,798,167,722	(90,598,377)

Winter								
	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Partial-Peak		420,536,016	1,103,769	\$0.10231	\$0.17796	-5.79%	396,206,910	(24,329,106)
Off-Peak		3,248,083,516	819,802	\$0.10231	\$0.13689	-0.71%	3,225,037,046	(23,046,469)
Total	4,344	3,668,619,531					3,621,243,957	(47,375,575)

ATTACHMENT 2

PG&E's Corrected Illustrative End State Standard
Tiered and Optional TOU Rate and Bill Impacts to
Replace the Information filed on July 1, 2013

PG&E -Rate Design and Bill Impact Analysis Model for Residential
 May 1, 2013 Revenue Collection from PGE, End State Rates

Rate Design Inputs Non TOU and TOU

Current Rate Date => 5/1/2013

2 Tier Rate Ratio => 20%

of Tiers => 2

Baseline Allowance Percent => 55%

Baseline Allowance from the sample (Do not use the percent input) => No

Tier-3 to Tier-4 Delta (cents/kWh) => 4.00

Tier-4 to Tier-5 Delta (cents/kWh) => -

T1 Increase (Over Current) => 3.0000%

T2 Increase (Over Current) => 3.0000%

Minimum Charge Imposed in lieu of Customer Charge => No

Minimum Charge Applicable to Delivery Charge Only => Yes

Cust Charge \$/Mo. => 10.00

Fixed Charge High Demand \$/Mo. => -

Fixed Charge Low Demand \$/Mo. => -

Fixed Charge Break Point kW => 3.00

CARE Discount for Tier-1, Cust. Chg., Demand Chg. & Min. Bill Amt. => 20%

CARE Discount for Tier-2 => 20%

CARE Discount for Tier-3 and Above => 20%

Income Based Discount 100% of Poverty Level or Below => 35%

Income Based Discount 100% to 200% of Poverty Level => 25%

Income Based Discount 200% to 300% of Poverty Level => 10%

Frozen CARE T1/T2 =>

Use existing CARE Tier-3 rate =>

Apply Income Based Discount Instead of Tier Based CARE Disc =>

Additional TOU Rate Design Specific Inputs

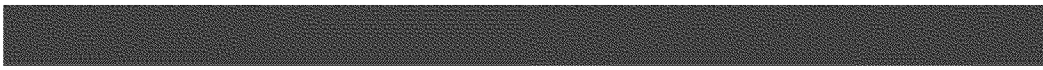
Number of TOU Periods => 3

TOU Rate Percent Differential: On-peak to Part-peak => 30%

TOU Rate Pct. Differential: Part-peak to Offpeak (N/A if 2 TOU periods) => 30%

TOU Base Line Credit in cents per kWh => -

Flat Non-TOU Tier-1 => No



Resulting 2-Tier Rate					
Non-CARE	Tier	Forecast Sales (GWh)	% of Sales	May-13 Rate	2-Tier Rate
	1	12.93	61%	13.2	15.183
	2	2.45	11%	15.0	18.220
	3	3.32	16%	31.1	18.220
	4	1.70	8%	35.1	18.220
	5	0.94	4%	35.1	18.220
Cust \$/Mo.				0.0	10.0
Fixed Charge High Demand \$/Mo.				0.0	0.0
Fixed Charge Low Demand \$/Mo.				0.0	0.0
Min Charge \$/Mo.				4.5	0.0
CARE	Tier	Forecast Sales (GWh)	% of Sales	May-13 Rate	2-Tier Rate
	1	5.32	68%	8.3	12.1467
	2	0.86	11%	9.6	14.5760
	3	1.03	13%	14.0	14.5760
	4	0.44	6%	14.0	14.5760
	5	0.20	2%	14.0	14.5760
Cust \$/Mo.				0.0	8.0
Fixed Charge High Demand \$/Mo.				0.0	0.0
Fixed Charge Low Demand \$/Mo.				0.0	0.0
Min Charge \$/Mo.				3.6	0.0

INSTRUCTIONS FOR RUNNING THIS MODEL
 For either a non-VOL or a VOL rate design, run steps 1 through 4 by clicking the respective macro button located in row sheet.
 For designing a non-VOL rate structure, run steps 5 and 6 by clicking those buttons after steps 1 through 4 are completed.
 For designing a VOL rate structure, run steps 7 and 8 by clicking those buttons after steps 1 through 4 are completed.
 Please enter scenario name and reference number in cell B2.



Resulting TOU Rate				
Non-CARE		Forecast Period Sales (GWh)	% of Sales	Rate
Tier-1	Summer On-Peak	1.31	6.0%	25.8
	Summer Part-Peak	1.40	7.0%	19.9
	Summer Off-Peak	3.62	17.0%	15.3
	Winter Part-Peak	0.79	4.0%	17.9
	Winter Off-Peak	5.82	27.0%	13.7
	Tier-2	Summer On-Peak	0.92	4.0%
Summer Part-Peak		0.94	4.0%	19.9
Summer Off-Peak		2.35	11.0%	15.3
Winter Part-Peak		0.49	2.0%	17.9
Winter Off-Peak		3.71	18%	13.7
		Cust \$/Mo.		
	Fixed Charge High Demand \$/Mo.			0.0
	Fixed Charge Low Demand \$/Mo.			0.0
	Min Charge \$/Mo.			0.0
CARE		Forecast Period Sales (GWh)	% of Sales	Rate
Tier-1	Summer On-Peak	0.60	8%	20.6
	Summer Part-Peak	0.59	8%	15.9
	Summer Off-Peak	1.48	19%	12.2
	Winter Part-Peak	0.31	4%	14.3
	Winter Off-Peak	2.34	30%	11.0
	Tier-2	Summer On-Peak	0.32	4%
Summer Part-Peak		0.31	4%	15.9
Summer Off-Peak		0.74	9%	12.2
Winter Part-Peak		0.13	2%	14.3
Winter Off-Peak		1.03	12%	11.0
		Cust \$/Mo.		
	Fixed Charge High Demand \$/Mo.			0.0
	Fixed Charge Low Demand \$/Mo.			0.0
	Min Charge \$/Mo.			0.0

Average Rate Impact Summary (Cents / kWh) by Zone					
NON-CARE					
Baseline Region	Cost Based Rate	Jul-12 Rate	Proposed Non-TOU Flat Rate		
Q	15.3	18.5	18.0		
T	16.9	19.2	19.1		
V	17.0	15.9	18.1		
X	17.7	19.1	18.3		
S	18.5	19.2	18.0		
P	17.6	17.4	17.7		
R	18.4	19.0	17.8		
W	19.5	18.7	17.9		
Y	16.1	16.2	17.9		
Z	21.1	16.3	19.4		
Non-CARE Customers	17.8	18.9	18.3		
CARE					
Baseline Region	Cost Based Rate	Jul-12 Rate	Proposed Non-TOU Flat Rate		
Q	N/A	N/A	N/A		
T	16.3	9.8	15.2		
V	18.1	9.3	15.5		
X	17.7	9.5	14.7		
S	18.7	10.0	14.4		
P	16.6	9.4	14.1		
R	18.7	9.6	14.2		
W	18.2	9.7	14.1		
Y	16.0	8.8	14.0		
Z	N/A	N/A	N/A		
CARE Customers	17.8	9.7	14.5		
Rate Design Measures		Current Rate Levels		Non-TOU 2-Flat Rate	
Residential CARE Subsidy (\$M) =>		\$	568,668,152	\$	236,000,000
Residential CARE subsidy funded by non-residential class (\$M) =>		\$	398,067,707	\$	165,200,000
Effective CARE Discount % =>			49%		21%
Percent of Revenue Requirement met by Fixed Customer Charge =>			0%		10%
Percent Fixed Cost Not Recovered			18%		8%

Average Rate Impact Summary (Cents / kWh) by Zone

NON-CARE				
Baseline Region	Cost Based Rate	Jul-12 Rate	Proposed TOU Rate	
Q	15.3	18.5	17.5	
T	16.9	19.2	18.7	
V	17.0	15.9	18.2	
X	17.7	19.1	18.1	
S	18.5	19.2	18.1	
P	17.6	17.4	18.0	
R	18.4	19.0	18.2	
W	19.5	18.7	18.7	
Y	16.1	16.2	17.9	
Z	21.1	16.3	18.7	
Non-CARE Customers	17.8	18.9	18.2	

CARE				
Baseline Region	Cost Base Rate	Jul-12 Rate	Proposed TOU Rate	
Q	N/A	N/A	N/A	
T	16.3	9.8	15.0	
V	18.1	9.3	15.6	
X	17.7	9.5	14.8	
S	18.7	10.0	14.6	
P	16.6	9.4	14.3	
R	18.7	9.6	14.7	
W	18.2	9.7	15.0	
Y	16.0	8.8	14.4	
Z	N/A	N/A	N/A	
CARE Customers	17.8	9.7	14.8	

Rate Action Measure	Current Rate	TOU
Residential CARE Subsidy (\$M) =>	\$ 568,668,152	\$ 214,000,000
Residential CARE subsidy funded by non-residential class (\$M) =>	\$ 398,067,707	\$ 149,800,000
Effective CARE Discount % =>	49%	19%
Percent of Revenue Requirement met by Fixed Customer Charge =>	0%	10%
Percent Fixed Cost Not Recovered	18%	8%



Baseline Territory	Estimated Usage, GWh		
	Non-CARE	CARE	Total
Q	0.07	0.00	0.07
T	3.90	1.11	5.01
V	0.18	0.08	0.26
X	8.55	2.01	10.55
S	4.17	1.57	5.74
P	1.08	0.77	1.85
R	2.15	1.18	3.33
W	0.97	1.03	2.00
Y	0.23	0.10	0.33
Z	0.05	0.00	0.05
Total	21.35	7.85	29.20



Detailed Inputs

Note: All Yellow highlighted cells are for the user input. The cells that are not yellow highlighted should remain unchanged, If the Yellow highlighted inputs are changed from the default, the highlight turns Red. Such Red cells can also be updated by the users.

User Inputs

Basic Inputs for Calculation Tabs

Percent Non-Residential Usage of the Total Usage Less CARE and Streetlights Billions	70%
Minimum Charge(\$/month)	4.50
Missing income replacement	75,000
Max Customer Monthly Ave Usage	2,000
Number of household members	3

Sources: PG&E's data, RASS Income data, Brattle study on elasticity

Shading Key

Placeholder for additional user input
Automatically updated by macros
Formula used in macro
Hard-entered numbers, pasted values
Simple formulas
Simple cell references

Number of hours per time period

Summer Peak	768
Summer Partial-Peak	958
Summer Off-Peak	2,690
Winter Partial Peak	381
Winter Off-Peak	3,963

Source: Computed based on PG&E's E-6 rate schedule based TOU definition for 2011.

PRISM Models Hours by Period

Period	Peak	Shoulder	Off-Peak	Daily
Summer (3-Year PRISM)	4	5	15	24
Winter (2-Year PRISM)	2		22	24

Source: Brattle's Cyan PRISM Model

Elasticity Input for non TOU Energy Conservation Estimation

	Non-CARE	CARE
Tier-1	(0.20)	(0.20)
Tier-2	(0.20)	(0.20)
Tier-3	(0.20)	(0.20)
Tier-4	(0.20)	(0.20)
Tier-5	(0.20)	(0.20)

Source: User input

Bill Impact Classification - Percent		
Percent Impact Category	Percent Impact Classification	Percent Impact Threshold
0	N/A	(1,000,000.00)
1	Below -20%	0.20
2	> -20% to -15%	0.15
3	> -15% to -10%	0.10
4	> -10% to -5%	0.05
5	> -5% to 0%	
6	> 0% to 5%	0.05
7	> 5% to 10%	0.10
8	> 10% to 15%	0.15
9	> 15% to 20%	0.20
10	> 20% to 25%	0.25
11	> 25% to 30%	0.30
12	> 30% to 35%	0.35
13	> 35% to 40%	0.40
14	> 40% to 45%	0.45
15	> 45% to 50%	0.50
16	> 50% to 55%	0.55
17	> 55% to 60%	0.60
18	> 60% to 65%	0.65
19	> 65% to 70%	0.70
20	> 70% to 75%	0.75
21	> 75% to 80%	0.80
22	> 80% to 85%	0.85
23	> 85% to 90%	0.90
24	> 90% to 95%	0.95
25	Above 95%	1.00

Percent Of Sample Classification		
Percent Of Sample Category	Percent Of Sample Classification	Percent Of Sample Threshold
0	N/A	(1,000,000.00)
1	0% to 4%	0.04
2	4% to 8%	0.08
3	8% to 12%	0.12
4	12% to 16%	0.16
5	16% to 20%	0.20
6	20% to 24%	0.24
7	24% to 28%	0.28
8	28% to 32%	0.32
9	32% to 36%	0.36
10	36% to 40%	0.40
11	40% to 44%	0.44
12	44% to 48%	0.48
13	48% to 52%	0.52
14	52% to 56%	0.56
15	56% to 60%	0.60
16	60% to 64%	0.64
17	64% to 68%	0.68
18	68% to 72%	0.72
19	72% to 76%	0.76
20	76% to 80%	0.80
21	80% to 84%	0.84
22	84% to 88%	0.88
23	88% to 92%	0.92
24	92% to 96%	0.96
25	96% to 100%	1.00

Note: Bill Impact Classification inputs should be updated for Column A and E values of 1 through 25 only. For these values, the Column C and G values should be provided in ascending order. The descriptions in column B and F should be updated accordingly.

Elasticity Input for TOU Energy Conservation Estimation

Substitution Elasticity for Non-CPP Days	(0.20)
Daily Elasticity for Non-CPP Days	(0.04)

Source: User input

Load Factor Range

Classification	Load Factor Range	Load Factor	
0	N/A	-1000000	
1	0 to 25%	0.25	Low
2	25% to 40%	0.40	Medium
3	Above 40%	1.00	High

Income Range

Classification	Income Range	Income
0	N/A	-1000000
1	0 to 30K	30,000
2	30K to 60K	60,000
3	60K to 75K	75,000
4	75K to 100K	100,000
5	Above 100K	

Current Rates Data					
Current Rates	Effective Dates	Advice Letter			
1	5/1/2013	4212-E			
2	11/1/2011	3898-E			
3	1/1/2013	4096 E-A			
4					
5					

	Effective Dates				
1	05/01/13	11/01/11	7/1/2013	5/1/2013	
Non-CARE Tier-1 \$/kWh	0.152300	0.152300	0.152300	0.152300	
Non-CARE Tier-2 \$/kWh	0.150400	0.139070	0.150400	0.150400	
Non-CARE Tier-3 \$/kWh	0.311140	0.292760	0.300250	0.311140	
Non-CARE Tier-4 \$/kWh	0.351140	0.332760	0.340250	0.351140	
Non-CARE Tier-5 \$/kWh	0.351140	0.332760	0.340250	0.351140	
CARE Tier-1 \$/kWh	0.083160	0.083160	0.083160	0.083160	
CARE Tier-2 \$/kWh	0.095630	0.095630	0.095630	0.095630	
CARE Tier-3 \$/kWh	0.139740	0.124740	0.139740	0.139740	
CARE Tier-4 \$/kWh	0.139740	0.124740	0.139740	0.139740	
CARE Tier-5 \$/kWh	0.139740	0.124740	0.139740	0.139740	
Customer Charge					
Fixed Ch. High					
Fixed Ch. Low					
Annual Peak kW threshold					
Minimum Charge \$/Month	4.50	4.50			
CARE Surcharge \$/kWh	0.01	0.01			
Non-CARE Sales kWh	23,224,447,566.00	22,808,978,983.00			
CARE Sales kWh	8,901,348,709.00	8,363,553,083.00			
Non-Res except streetlight kWh	53,129,423,077.00	54,319,747,671.00			
DWR Charges \$	105,949,997.00	108,326,111.00			
Transmission Rate \$/kWh	0.02	0.02			

Source: Respective Advice Letter. Refer to PG&E Rate Schedule website.
 Note: the purple cells are open for users to fill in data for up to 3 other rates. The inputs should be provided from respective advice letters

Inputs (Intermediate)

Basic Inputs	
Number of Samples	7.782
No. of CARE customers	1,266,031
Total number of customers	4,621,580

Source: Data in "Customer Data" tab

Non TOU Tier Collapsing Criteria			
Number of Tiers	2	3	4
Tier-1			
Tier-2	2	2	2
Tier-3	2	3	3
Tier-4	2	3	4
Tier-5			

Instructions:
 For Two Tiered Rate Design, provide updates in cells B125:B127
 The inputs can be either 1 or 2 satisfying B125<= B126 <= B127
 For Three Tiered Rate Design, provide updates in cells C125:C127
 The inputs need to satisfy C125 <= C126 <= C127, C127 = 2 or 3
 For Four Tiered Rate Design, provide updates in cells D125:D127
 The inputs need to satisfy D125<= D126 <= D127, and D127 = 3 or 4, D126 = 2 or 3 and D125 = 1 or 2

Note: User can specify the ratios in the purple cells.

Seasonal TOU Price Ratios

Part-peak Price Ratio	Summer to Winter	0.9
Off-peak Price Ratio	Summer to Winter	0.9

Note: User can specify the ratios in the purple cells.

Revenue Requirement Prior to CARE Subsidy Allocation					
	1	0	0	0	0

Effective Dates	5/1/13	11/1/11			
Generation \$	2,314,456,301				
Transmission \$	493,940,832				
Distribution \$	2,008,947,757				
Other \$	384,526,397				
Total \$	5,201,865,283				

Source: See Revenue Summary tab.

Other Cost-Fixed and Volumetric Split	NonCARE	CARE
Percent of Other Cost treated as volumetric	0%	0%

Source: User Input

Generation Charge for "Minimum Bill on Delivery Charge Only" Calculation

	Non TOU	TOU Onpeak	TOU Partpeak	TOU Offpeak
Generation Charge \$/kWh	0.08	0.10	0.07	0.05

Note: User can specify the value. Recommended value is \$0.08/kWh.

Fair Cost Rate Input			Unit
Generation Marginal Energy Cost	Summer	On-Peak	0.0535586 \$/kWh
Generation Marginal Energy Cost	Summer	Part-Peak	0.0491922 \$/kWh
Generation Marginal Energy Cost	Summer	Off-Peak	0.0359244 \$/kWh
Generation Marginal Energy Cost	Winter	On-Peak	- \$/kWh
Generation Marginal Energy Cost	Winter	Part-Peak	0.0485903 \$/kWh
Generation Marginal Energy Cost	Winter	Off-Peak	0.0372057 \$/kWh
Generation Marginal Capacity Cost			99.3400000 \$/kW-year
Transmission Marginal Cost			19.2900000 \$/kW-year
Distribution Marginal Cost-Primary			57.2100000 \$/kW-year
Distribution Marginal Cost-Secondary			0.8100000 \$/kW-year
Distribution Marginal Cost-New Business			21.0900000 \$/kW-year
Fixed Customer Charge			91.7200000 \$/kW-year
Miscellaneous Fixed Cost			5.0000000 \$/year
Equal Percent Marginal Cost Multiplier (EPMC)-Generation			1.0581819 None
Equal Percent Marginal Cost Multiplier (EPMC)-Transmission			4.2517147 None
Equal Percent Marginal Cost Multiplier (EPMC)-Distribution			1.7115940 None
Generation Marginal Capacity Cost Allocation Factor		Jan	- None
Generation Marginal Capacity Cost Allocation Factor		Feb	- None
Generation Marginal Capacity Cost Allocation Factor		Mar	- None
Generation Marginal Capacity Cost Allocation Factor		Apr	- None
Generation Marginal Capacity Cost Allocation Factor		May	0.0888400 None
Generation Marginal Capacity Cost Allocation Factor		Jun	0.0813200 None
Generation Marginal Capacity Cost Allocation Factor		Jul	0.2892900 None
Generation Marginal Capacity Cost Allocation Factor		Aug	0.4040200 None
Generation Marginal Capacity Cost Allocation Factor		Sep	0.2345200 None
Generation Marginal Capacity Cost Allocation Factor		Oct	0.0059500 None
Generation Marginal Capacity Cost Allocation Factor		Nov	- None
Generation Marginal Capacity Cost Allocation Factor		Dec	- None
Transmission Marginal Cost Allocation Factor		Jan	0.0166667 None
Transmission Marginal Cost Allocation Factor		Feb	0.0166667 None
Transmission Marginal Cost Allocation Factor		Mar	0.0166667 None
Transmission Marginal Cost Allocation Factor		Apr	0.0166667 None
Transmission Marginal Cost Allocation Factor		May	0.1500000 None
Transmission Marginal Cost Allocation Factor		Jun	0.1500000 None
Transmission Marginal Cost Allocation Factor		Jul	0.1500000 None
Transmission Marginal Cost Allocation Factor		Aug	0.1500000 None
Transmission Marginal Cost Allocation Factor		Sep	0.1500000 None
Transmission Marginal Cost Allocation Factor		Oct	0.1500000 None
Transmission Marginal Cost Allocation Factor		Nov	0.0166667 None
Transmission Marginal Cost Allocation Factor		Dec	0.0166667 None
Planning Reserve Margin			1.1500000 None
Line Loss Factor-Transmission			1.0700000 None
Line Loss Factor-Distribution			1.0530000 None
Load Coincidence Factor-Generation			1.0000000 None
Load Coincidence Factor-Transmission			1.0000000 None
Load Coincidence Factor-Dist-Primary			1.0000000 None
Load Coincidence Factor-Dist-Secondary			1.0000000 None
Peak Capacity Allocation Factor (PCAF) to Final Line Transformer (FLT) Factor			0.5000000 None

Source: Consistent with PG&E's 2011 GRC Phase-II filing. User can, however, change these inputs.

Elasticity based usage adjustment factors

Current IBR to non TOU

Tier-1	Non-CARE	1.00
Tier-2	Non-CARE	1.00
Tier-3	Non-CARE	1.00
Tier-4	Non-CARE	1.00
Tier-5	Non-CARE	1.00
Tier-1	CARE	1.00
Tier-2	CARE	1.00
Tier-3	CARE	1.00
Tier-4	CARE	1.00
Tier-5	CARE	1.00

Note: the user can specify th ratios in the purple cells.

Coincident Load Factor Averages (To replace missing values)

	Month	Coast	Hills	Inner Valley	Outer Valley
Non-CARE	1	1.1080	1.1980	1.0580	1.1030
Non-CARE	2	1.1720	1.3730	1.1260	1.3840
Non-CARE	3	1.0450	0.8800	0.9270	1.1270
Non-CARE	4	1.0760	1.0430	1.0520	1.1010
Non-CARE	5	1.3680	1.2820	1.3010	1.0570
Non-CARE	6	1.4190	1.0850	0.8460	0.8840
Non-CARE	7	1.3000	1.0400	0.9460	0.8390
Non-CARE	8	1.3310	1.1120	1.1790	1.1990
Non-CARE	9	1.3820	1.1600	1.1230	1.2750
Non-CARE	10	1.0610	1.0140	0.9690	0.9360
Non-CARE	11	1.2950	1.2150	0.9860	1.3030
Non-CARE	12	1.2460	1.0090	0.9930	1.4480
CARE	1	1.1730	1.1490	1.0010	1.1650
CARE	2	1.2130	1.3550	1.3250	1.1510
CARE	3	1.0990	0.9780	0.9210	0.7840
CARE	4	1.2250	1.1700	1.0610	1.0480
CARE	5	1.5390	1.2180	1.0570	0.9390
CARE	6	1.2870	1.0210	0.9870	0.7350
CARE	7	1.3020	1.0630	0.8470	0.8440
CARE	8	1.3810	0.9830	0.9540	0.7970
CARE	9	1.1550	0.9980	1.0780	0.7620
CARE	10	0.9010	0.8940	0.9500	0.9220
CARE	11	1.0550	1.0450	0.9860	1.2120
CARE	12	1.2730	1.1690	1.1500	1.1270

Source: The data comes from the Load-Factor-Summary tab

Note: formula change within each column (between Non-Care and CARE break)

Current IBR to TOU		
NonCARE	Sum On-Peak	1.00
NonCARE	Sum Part-Peak	1.00
NonCARE	Sum Off-Peak	1.00
NonCARE	Win Part-Peak	1.00
NonCARE	Win Off-Peak	1.00
CARE	Sum On-Peak	1.00
CARE	Sum Part-Peak	1.00
CARE	Sum Off-Peak	1.00
CARE	Win Part-Peak	1.00
CARE	Win Off-Peak	1.00

Note: the user can specify th ratios in the purple cells.

Non-coincident Load Factor Averages (To replace missing values)					
	Month	Coast	Hills	Inner Valley	Outer Valley
Non-CARE	1	0.1980	0.2000	0.2140	0.2290
Non-CARE	2	0.2130	0.2180	0.2340	0.2480
Non-CARE	3	0.2080	0.1840	0.2020	0.2160
Non-CARE	4	0.2120	0.1950	0.2150	0.2120
Non-CARE	5	0.2100	0.1790	0.1830	0.1930
Non-CARE	6	0.2110	0.1790	0.1790	0.2280
Non-CARE	7	0.2130	0.1680	0.1810	0.2380
Non-CARE	8	0.2000	0.1780	0.1970	0.2390
Non-CARE	9	0.2080	0.1870	0.1950	0.2380
Non-CARE	10	0.2050	0.1840	0.1880	0.1920
Non-CARE	11	0.2100	0.1990	0.2040	0.2240
Non-CARE	12	0.2000	0.1980	0.1970	0.2210
CARE	1	0.2230	0.2150	0.1970	0.2450
CARE	2	0.2360	0.2180	0.2290	0.2480
CARE	3	0.2500	0.1900	0.1960	0.2100
CARE	4	0.2400	0.2020	0.1960	0.2080
CARE	5	0.2220	0.1750	0.1840	0.1950
CARE	6	0.2490	0.1900	0.1940	0.2370
CARE	7	0.2390	0.1860	0.2050	0.2670
CARE	8	0.2360	0.1890	0.2010	0.2790
CARE	9	0.2440	0.1940	0.2060	0.2590
CARE	10	0.2330	0.1880	0.1980	0.2090
CARE	11	0.2260	0.1950	0.2050	0.2330
CARE	12	0.2180	0.1890	0.1970	0.2430

Source: The data comes from the Load-Factor-Summary tab

Note: formula change within each column (between Non-Care and CARE break)

Time Of Use (TOU) kWh split by zone (To replace missing values)				
Zone	Month	Onpeak	Partpeak	Offpeak
Coast	1	0.00	0.12	0.88
Coast	2	0.00	0.12	0.88
Coast	3	0.00	0.11	0.89
Coast	4	0.00	0.11	0.89
Coast	5	0.18	0.24	0.58
Coast	6	0.18	0.25	0.57
Coast	7	0.19	0.24	0.57
Coast	8	0.19	0.25	0.56
Coast	9	0.18	0.25	0.57
Coast	10	0.20	0.25	0.55
Coast	11	0.00	0.12	0.88
Coast	12	0.00	0.12	0.88
Hills	1	0.00	0.12	0.88
Hills	2	0.00	0.12	0.88
Hills	3	0.00	0.11	0.89
Hills	4	0.00	0.11	0.89
Hills	5	0.20	0.25	0.55
Hills	6	0.20	0.26	0.54
Hills	7	0.22	0.25	0.53
Hills	8	0.22	0.26	0.52
Hills	9	0.21	0.25	0.54
Hills	10	0.21	0.26	0.53
Hills	11	0.00	0.12	0.88
Hills	12	0.00	0.12	0.88
Inner-Valley	1	0.00	0.12	0.88
Inner-Valley	2	0.00	0.11	0.89
Inner-Valley	3	0.00	0.11	0.89
Inner-Valley	4	0.00	0.11	0.89
Inner-Valley	5	0.20	0.24	0.56
Inner-Valley	6	0.21	0.26	0.53
Inner-Valley	7	0.24	0.25	0.51
Inner-Valley	8	0.25	0.26	0.49
Inner-Valley	9	0.23	0.25	0.52
Inner-Valley	10	0.21	0.25	0.54
Inner-Valley	11	0.00	0.11	0.89
Inner-Valley	12	0.00	0.11	0.89
Outer-Valley	1	0.00	0.12	0.88
Outer-Valley	2	0.00	0.11	0.89
Outer-Valley	3	0.00	0.10	0.90
Outer-Valley	4	0.00	0.11	0.89
Outer-Valley	5	0.20	0.24	0.56
Outer-Valley	6	0.22	0.26	0.52
Outer-Valley	7	0.25	0.25	0.50
Outer-Valley	8	0.25	0.25	0.50
Outer-Valley	9	0.22	0.25	0.53
Outer-Valley	10	0.21	0.25	0.54
Outer-Valley	11	0.00	0.11	0.89
Outer-Valley	12	0.00	0.11	0.89

Source: A separate analysis was performed by using climate zone level load profile data for 2011.

Average Usage Quantity (kWh Per Day)				
	Territory	Season	Basic	All Electric
P		Summer	27.82	32.73
Q		Summer	13.64	16.55
R		Summer	31.09	38.00
S		Summer	27.82	32.73
T		Summer	13.64	16.55
V		Summer	21.82	35.27
W		Summer	33.64	42.73
X		Summer	20.00	18.73
Y		Summer	21.27	25.64
Z		Summer	14.36	20.36
P		Winter	23.09	61.64
Q		Winter	21.27	35.09
R		Winter	21.27	54.91
S		Winter	21.82	52.00
T		Winter	16.55	30.55
V		Winter	24.73	60.73
W		Winter	19.82	41.45
X		Winter	21.27	35.09
Y		Winter	24.00	55.82
Z		Winter	19.27	40.91

Source: Rate schedule baseline quantity and the percent baseline quantity for the Advice Letter 3856-E

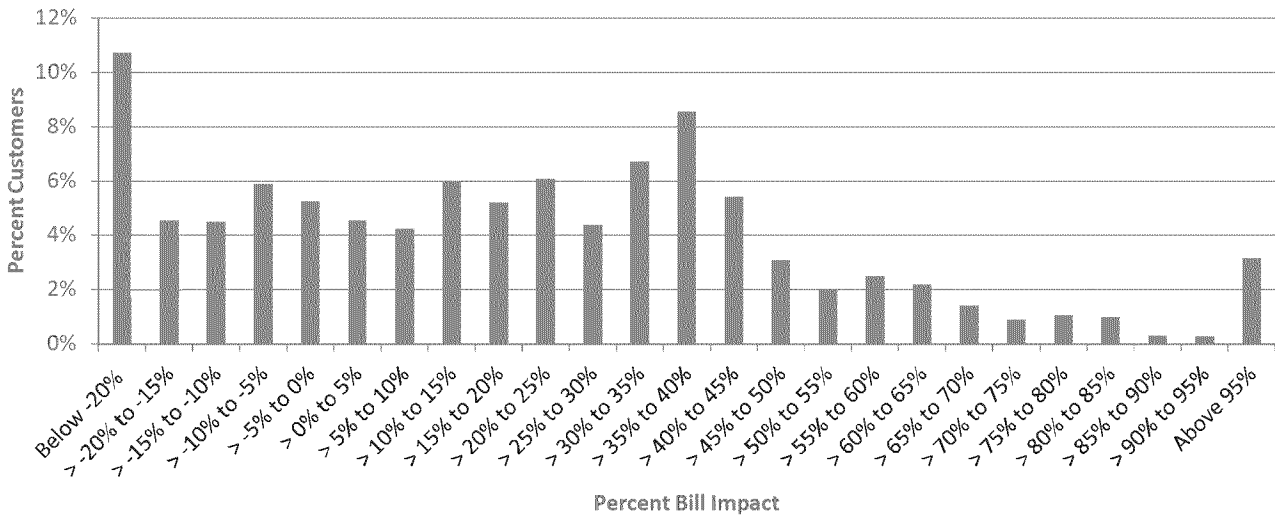
Medical Allowance - Baseline Quantity (kWh Per Month)

Allowance (kWh/month)

Source: User Input

NonCARE Customers

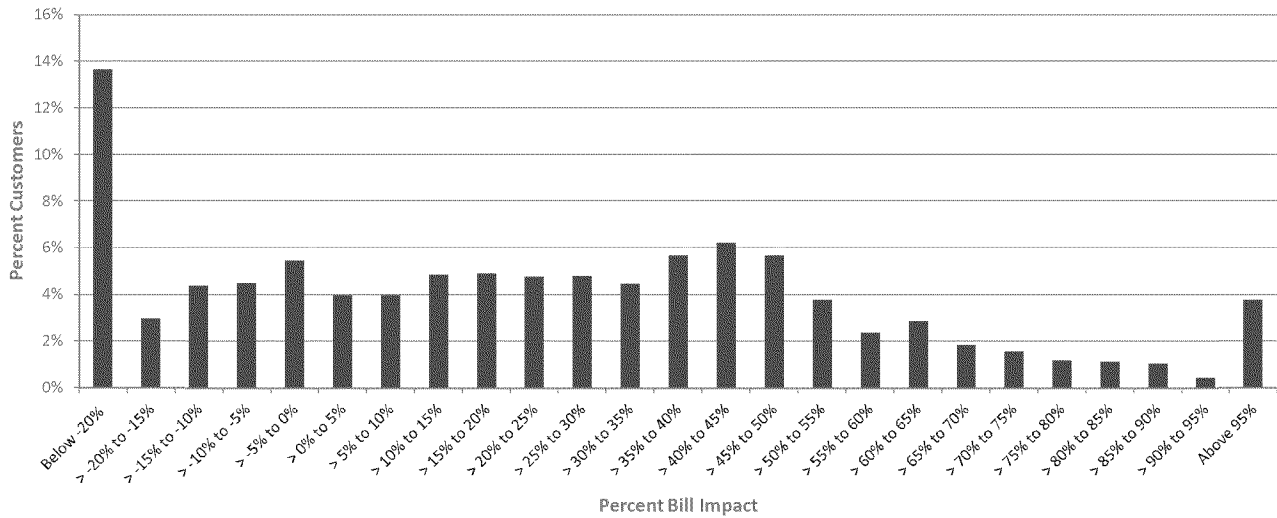
Percent Customers



Non TOU 2-Tier Rate Design Impacts NonCARE Customers

Impact	Customer	Average	Average Cents/kWh	%	Monthly \$	Average Bill to Income Ratio						
Below -20%	359,980	11%	1,157	17%	25.77	18.15	-30%	298.10	209.99	(88.10)	3.1%	2.2%
> -20% to -15%	152,261	5%	848	15%	22.03	16.09	-18%	186.80	153.36	(33.44)	2.2%	1.8%
> -15% to -10%	151,272	5%	785	15%	20.61	18.01	-13%	161.74	141.30	(20.43)	2.0%	1.8%
> -10% to -5%	197,925	6%	745	14%	19.35	17.94	-7%	144.25	133.69	(10.55)	1.9%	1.8%
> -5% to 0%	176,162	5%	656	14%	18.42	17.97	-2%	120.89	117.97	(2.93)	1.4%	1.3%
> 0% to 5%	152,826	5%	626	15%	17.46	17.92	3%	109.23	112.12	2.89	1.5%	1.5%
> 5% to 10%	142,780	4%	620	14%	16.54	17.77	7%	102.53	110.16	7.63	1.3%	1.3%
> 10% to 15%	201,380	6%	510	13%	16.01	18.04	13%	81.71	92.06	10.35	0.9%	1.0%
> 15% to 20%	174,787	5%	483	13%	15.35	18.04	18%	74.11	87.09	12.97	1.0%	1.2%
> 20% to 25%	204,355	6%	484	13%	14.53	17.82	23%	70.33	86.26	15.92	0.9%	1.1%
> 25% to 30%	147,239	4%	447	12%	14.03	17.85	27%	62.73	79.82	17.09	1.0%	1.3%
> 30% to 35%	225,653	7%	381	12%	13.69	18.13	32%	52.19	69.14	16.96	0.7%	1.0%
> 35% to 40%	286,657	9%	327	12%	13.41	18.41	37%	43.90	60.26	16.37	0.7%	0.9%
> 40% to 45%	181,898	5%	261	11%	13.44	19.14	42%	35.07	49.95	14.88	0.6%	0.9%
> 45% to 50%	103,690	3%	227	12%	13.34	19.65	47%	30.25	44.56	14.31	0.5%	0.7%
> 50% to 55%	66,150	2%	200	11%	13.26	20.20	52%	26.54	40.43	13.89	0.4%	0.7%
> 55% to 60%	84,069	3%	178	13%	13.26	20.82	57%	23.54	36.97	13.43	0.4%	0.7%
> 60% to 65%	73,300	2%	151	10%	13.40	21.85	63%	20.24	33.00	12.76	0.4%	0.6%
> 65% to 70%	47,381	1%	137	10%	13.44	22.47	67%	18.45	30.84	12.40	0.3%	0.6%
> 70% to 75%	30,087	1%	127	11%	13.35	23.07	73%	17.01	29.40	12.39	0.3%	0.6%
> 75% to 80%	35,650	1%	104	8%	13.92	24.79	78%	14.49	25.81	11.32	0.3%	0.5%
> 80% to 85%	33,108	1%	109	11%	13.94	24.35	83%	14.56	26.58	12.02	0.2%	0.4%
> 85% to 90%	9,886	0%	95	12%	13.71	25.73	88%	13.00	24.40	11.40	0.2%	0.4%
> 90% to 95%	9,184	0%	88	8%	13.78	26.50	92%	12.17	23.41	11.24	0.3%	0.5%
Above 95%	105,871	3%	56	9%	15.16	32.91	117%	8.56	18.58	10.02	0.2%	0.4%
Group Total	3,353,549	100%	530	13%	18.95	18.27	-4%	100.50	96.89	(3.61)	1.4%	1.3%

TOU Rate Design Impacts NonCARE Customers



TOU Rate Design Impacts NonCARE Customers

Impact	Customer		Average Monthly - kWh		Average Cents/kWh			Monthly \$			Average Bill to Income Ratio	
	Percent Range	Number	Percent	LF	May-13	Proposed	Change	May-13	Proposed	Change	May-13	Proposed
Below -20%	457,838	14%	1,074	17%	25.24	17.18	-32%	271.10	184.59	(86.51)	2.8%	1.9%
> -20% to -15%	100,103	3%	855	15%	21.43	17.69	-17%	183.13	151.15	(31.98)	2.3%	1.9%
> -15% to -10%	146,321	4%	777	15%	20.17	17.67	-12%	156.67	137.24	(19.43)	1.9%	1.7%
> -10% to -5%	150,091	4%	711	14%	19.31	17.86	-7%	137.34	127.08	(10.27)	1.7%	1.6%
> -5% to 0%	181,900	5%	679	14%	18.53	18.03	-3%	125.84	122.46	(3.38)	1.6%	1.5%
> 0% to 5%	133,184	4%	610	14%	17.69	18.11	2%	107.89	110.46	2.57	1.4%	1.4%
> 5% to 10%	132,541	4%	607	13%	16.71	17.94	7%	101.54	109.00	7.45	1.2%	1.3%
> 10% to 15%	161,962	5%	545	14%	16.31	18.37	13%	88.89	100.10	11.21	1.1%	1.3%
> 15% to 20%	163,776	5%	500	14%	15.60	18.35	18%	77.94	91.68	13.74	0.9%	1.1%
> 20% to 25%	158,898	5%	460	13%	15.17	18.57	22%	69.71	85.33	15.62	0.9%	1.1%
> 25% to 30%	160,130	5%	491	13%	14.41	18.37	28%	70.72	90.19	19.47	1.0%	1.3%
> 30% to 35%	149,143	4%	434	12%	14.00	18.56	33%	60.84	80.61	19.76	0.9%	1.2%
> 35% to 40%	189,147	6%	385	12%	13.66	18.77	37%	52.55	72.22	19.67	0.8%	1.0%
> 40% to 45%	208,315	6%	342	12%	13.45	19.18	43%	48.04	65.67	17.63	0.7%	1.0%
> 45% to 50%	189,931	6%	299	11%	13.35	19.63	47%	39.96	58.75	18.79	0.7%	1.1%
> 50% to 55%	126,277	4%	248	11%	13.34	20.29	52%	33.12	50.36	17.24	0.5%	0.8%
> 55% to 60%	79,708	2%	214	11%	13.32	20.91	57%	28.52	44.76	16.24	0.5%	0.8%
> 60% to 65%	96,157	3%	188	12%	13.28	21.57	62%	25.01	40.64	15.63	0.5%	0.8%
> 65% to 70%	61,593	2%	178	10%	13.28	22.25	67%	23.68	39.65	15.97	0.5%	0.8%
> 70% to 75%	52,360	2%	144	11%	13.40	23.10	72%	19.23	33.15	13.93	0.3%	0.5%
> 75% to 80%	40,257	1%	132	8%	13.61	24.10	77%	17.95	31.79	13.84	0.3%	0.6%
> 80% to 85%	37,435	1%	120	10%	13.43	24.51	82%	16.07	29.32	13.25	0.4%	0.7%
> 85% to 90%	35,485	1%	112	13%	13.40	25.06	87%	15.02	28.10	13.07	0.2%	0.5%
> 90% to 95%	14,895	0%	105	6%	13.53	25.88	91%	14.26	27.29	13.03	0.2%	0.3%
Above 95%	126,103	4%	64	9%	14.72	32.21	119%	9.36	20.50	11.13	0.2%	0.4%
Group Total	3,353,549	100%	530	13%	18.95	18.23	-4%	100.50	96.72	(3.78)	1.4%	1.3%

Bill Impact Matrix for non TOU Proposed Rate Design - Non-CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	< -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,226	172,226	(130.56)	171,796	430	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	185,272	(50.99)	155,482	24,043	5,747	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	160,263	(32.38)	32,199	114,096	13,968	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,463	172,463	(18.89)	248	13,692	122,184	36,338	-	-	-	-	-	-	-	-	-
5	16% to 20%	195,803	195,803	(9.01)	254	-	9,373	160,032	-	-	-	-	-	-	-	-	-
6	20% to 24%	181,503	181,503	(1.87)	-	-	-	1,555	150,018	-	-	-	-	-	-	-	-
7	24% to 28%	188,478	185,447	4.00	-	-	-	-	-	29,929	-	-	-	-	-	-	-
8	28% to 32%	184,539	179,697	8.00	-	-	-	-	-	117,160	-	-	-	-	-	-	-
9	32% to 36%	219,516	202,302	10.46	-	-	-	-	-	5,736	-	-	-	-	-	-	-
10	36% to 40%	252,792	225,984	11.80	-	-	-	-	-	-	51,386	-	-	-	-	-	-
11	40% to 44%	189,181	178,535	11.80	-	-	-	-	-	-	8,447	-	-	-	-	-	-
12	44% to 48%	159,239	151,657	13.48	-	-	-	-	-	-	51,185	-	-	-	-	-	-
13	48% to 52%	190,670	165,795	14.12	-	-	-	-	-	-	6,886	-	-	-	-	-	-
14	52% to 56%	169,433	147,390	14.88	-	-	-	-	-	-	5,365	-	-	-	-	-	-
15	56% to 60%	160,053	135,544	15.25	-	-	-	-	-	-	810	-	-	-	-	-	-
16	60% to 64%	195,388	156,600	15.84	-	-	-	-	-	-	500	-	-	-	-	-	-
17	64% to 68%	196,272	174,979	16.40	-	-	-	-	-	-	201	-	-	-	-	-	-
18	68% to 72%	181,049	140,972	17.13	-	-	-	-	-	-	6,886	-	-	-	-	-	-
19	72% to 76%	187,636	138,780	17.85	-	-	-	-	-	-	5,365	-	-	-	-	-	-
20	76% to 80%	137,665	99,747	19.27	-	-	-	-	-	-	810	-	-	-	-	-	-
21	80% to 84%	174,401	26,017	21.66	-	-	-	-	-	-	500	-	-	-	-	-	-
22	84% to 88%	188,398	19,532	23.76	-	-	-	-	-	-	201	-	-	-	-	-	-
23	88% to 92%	178,026	13,353	26.13	-	-	-	-	-	-	6,886	-	-	-	-	-	-
24	92% to 96%	202,538	2,588	29.56	-	-	-	-	-	-	5,365	-	-	-	-	-	-
25	96% to 100%	198,777	1,100	33.41	-	-	-	-	-	-	810	-	-	-	-	-	-
		4,621,580	3,353,549	(3.61)	359,980	(52,261)	(51,272)	197,925	176,162	152,826	142,780	201,380	174,787	204,355	147,239	225,653	286,657

Bill Impact Matrix for non TOU Proposed Rate Design - CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change	< -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,226	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,463	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	195,803	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	181,503	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	188,478	3,031	4.47	-	-	-	-	-	-	-	-	-	-	-	-	-
8	28% to 32%	184,539	4,842	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-
9	32% to 36%	219,516	17,214	10.36	-	-	-	-	-	-	-	-	-	-	-	-	-
10	36% to 40%	252,792	26,808	11.76	-	-	-	-	-	-	-	-	-	-	-	-	-
11	40% to 44%	189,181	10,646	12.72	-	-	-	-	-	-	-	-	-	-	-	-	-
12	44% to 48%	159,239	7,582	13.39	-	-	-	-	-	-	-	-	-	-	-	-	-
13	48% to 52%	190,670	24,875	14.24	-	-	-	-	-	-	-	-	-	-	-	-	-
14	52% to 56%	169,433	22,043	14.55	-	-	-	-	-	-	-	-	-	-	-	-	-
15	56% to 60%	160,053	24,509	15.22	-	-	-	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	195,388	38,788	15.80	-	-	-	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	196,272	21,293	16.44	-	-	-	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	181,049	40,077	17.16	-	-	-	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	187,636	48,556	18.01	-	-	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	137,665	97,918	19.56	-	-	-	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	174,401	148,384	21.51	-	-	-	-	-	-	-	-	-	-	-	-	-
22	84% to 88%	188,398	168,866	23.59	-	-	-	-	-	-	-	-	-	-	-	-	-
23	88% to 92%	178,026	164,673	26.50	-	-	-	-	-	-	-	-	-	-	-	-	-
24	92% to 96%	202,538	199,949	29.60	-	-	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	198,777	197,677	39.32	-	-	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	1,268,031	24.85	-	-	-	-	-	-	6,384	3,254	4,058	22,806	26,612	81,838	74,392

Bill Impact Matrix for non TOU Proposed Rate Design - Non-CARE Customer					> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change												
1	0% to 4%	172,226	172,226	(130.56)	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	185,272	(50.99)	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	160,263	(32.38)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,463	172,463	(18.89)	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	195,803	195,803	(9.01)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	181,503	181,503	(1.87)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	188,478	185,447	4.00	-	-	-	-	-	-	-	-	-	-	-	-
8	28% to 32%	184,539	179,697	8.00	4,651	277	-	292	584	663	499	4,695	737	1,044	703	25,404
9	32% to 36%	219,516	202,302	10.46	241	4,217	245	500	832	4,102	898	5,661	198	682	1,206	28,618
10	36% to 40%	252,792	225,984	11.80	6,042	302	-	1,520	12,484	4,214	772	21,044	32,172	8,160	7,275	43,884
11	40% to 44%	189,181	178,535	12.79	1,797	523	1,622	596	46,900	38,402	27,919	4,251	-	-	-	-
12	44% to 48%	159,239	151,657	13.48	4,372	476	6,670	81,161	12,499	-	-	-	-	-	-	-
13	48% to 52%	190,670	165,795	14.12	15,863	25,878	57,613	-	-	-	-	-	-	-	-	-
14	52% to 56%	169,433	147,390	14.88	18,882	69,075	-	-	-	-	-	-	-	-	-	-
15	56% to 60%	160,053	135,544	15.25	82,149	2,941	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	195,388	156,600	15.84	42,112	-	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	196,272	174,679	16.40	5,766	-	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	181,049	140,972	17.13	-	-	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	187,636	138,780	17.85	-	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	137,665	99,747	19.27	-	-	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	174,401	26,017	21.66	-	-	-	-	-	-	-	-	-	-	-	-
22	84% to 88%	188,398	19,532	23.76	-	-	-	-	-	-	-	-	-	-	-	-
23	88% to 92%	178,026	13,353	26.13	-	-	-	-	-	-	-	-	-	-	-	-
24	92% to 96%	202,538	2,589	29.56	-	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	198,777	1,100	33.41	-	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	3,353,549	(3.61)	181,898	103,690	66,150	84,069	73,300	47,381	30,087	65,650	33,106	9,886	9,164	105,871

Bill Impact Matrix for non TOU Proposed Rate Design - CARE Customer					> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change												
1	0% to 4%	172,226	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,463	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	195,803	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	181,503	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	188,478	3,031	4.47	-	-	-	-	-	-	-	-	-	-	-	3,031
8	28% to 32%	184,539	4,842	7.78	-	-	-	-	-	-	-	201	-	-	-	4,640
9	32% to 36%	219,516	17,214	10.36	-	-	-	-	241	-	-	226	302	221	292	15,933
10	36% to 40%	252,792	26,808	11.76	-	-	235	-	-	-	4,102	159	-	241	-	22,071
11	40% to 44%	189,181	10,646	12.72	-	-	-	-	-	-	-	201	-	-	-	10,445
12	44% to 48%	159,239	7,582	13.39	-	-	-	-	-	-	-	245	205	-	-	7,131
13	48% to 52%	190,670	24,875	14.24	-	241	-	-	-	178	-	-	-	-	-	24,456
14	52% to 56%	169,433	22,043	14.55	-	-	-	-	-	-	296	-	-	-	513	21,235
15	56% to 60%	160,053	24,509	15.22	-	-	198	-	-	-	-	205	282	-	881	23,143
16	60% to 64%	195,388	38,788	15.80	-	-	-	205	-	234	3,943	292	4,911	28,040	1,164	-
17	64% to 68%	196,272	21,293	16.44	-	-	-	221	-	439	-	-	9,972	10,661	-	-
18	68% to 72%	181,049	40,077	17.16	-	-	198	245	-	-	241	4,893	34,500	-	-	-
19	72% to 76%	187,636	48,856	18.01	-	-	-	-	-	5,631	1,670	37,248	4,307	-	-	-
20	76% to 80%	137,665	97,918	19.56	482	-	198	909	5,628	5,794	10,096	65,029	9,783	-	-	-
21	80% to 84%	174,401	148,384	21.51	241	3,369	21,374	13,487	4,486	21,917	71,566	11,662	-	-	-	-
22	84% to 88%	188,398	168,866	23.59	15,148	813	2,000	9,752	36,526	44,942	24,892	-	-	-	-	-
23	88% to 92%	178,026	164,673	26.50	10,627	21,378	33,103	22,458	24,352	44,909	-	-	-	-	-	-
24	92% to 96%	202,538	199,949	29.60	32,521	23,248	39,940	23,062	34,313	205	-	-	-	-	-	-
25	96% to 100%	198,777	197,677	39.32	23,040	23,242	18,559	23,042	3,282	-	-	-	-	-	-	-
		4,621,580	1,268,031	24.85	82,059	72,050	115,373	93,628	109,015	118,008	113,036	87,168	53,529	54,398	40,428	133,249

Bill Impact Matrix for TOU Proposed Rate Design - Non-CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,466	172,466	(147.27)	172,240	226	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	181,138	181,138	(57.85)	175,527	5,611	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	167,697	167,275	(36.79)	101,852	54,547	10,876	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	160,816	(20.90)	3,574	39,173	105,457	12,612	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	191,986	(10.11)	4,645	546	29,989	129,604	27,203	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	193,340	(2.37)	-	-	7,874	154,697	30,769	-	-	-	-	-	-	-	-
7	24% to 28%	178,108	174,688	4.06	-	-	-	-	97,036	61,890	1,843	277	191	277	4,651	-	-
8	28% to 32%	179,888	173,187	8.36	-	-	-	-	5,380	50,179	65,719	11,641	5,771	1,013	483	241	-
9	32% to 36%	252,522	221,302	11.11	-	-	-	-	-	12,111	53,531	51,797	23,259	2,796	748	5,990	-
10	36% to 40%	184,420	170,457	12.78	-	-	-	-	-	1,139	9,761	31,959	16,638	11,465	1,451	1,116	-
11	40% to 44%	187,503	173,127	13.98	-	-	-	-	-	945	15,325	7,348	13,320	3,346	6,724	5,601	-
12	44% to 48%	185,156	157,396	14.88	-	-	-	-	-	5,303	5,097	14,629	18,944	1,710	10,184	2,150	-
13	48% to 52%	186,922	166,323	15.77	-	-	-	-	-	728	1,076	7,080	25,245	12,180	7,812	8,661	-
14	52% to 56%	186,027	156,172	16.56	-	-	-	-	-	245	634	7,617	11,341	19,663	5,473	14,923	-
15	56% to 60%	157,549	116,004	17.25	-	-	-	-	-	-	728	11,085	13,946	10,824	6,016	7,618	-
16	60% to 64%	199,009	159,319	18.14	-	-	-	-	-	-	226	6,454	6,413	19,653	11,451	29,430	-
17	64% to 68%	219,786	166,373	18.94	-	-	-	-	-	-	451	4,495	4,336	16,892	38,739	23,638	-
18	68% to 72%	180,098	122,392	19.87	-	-	-	-	-	-	537	705	8,078	9,345	13,957	29,805	-
19	72% to 76%	201,133	117,294	20.82	-	-	-	-	-	-	1,309	1,355	550	13,384	13,946	21,985	-
20	76% to 80%	174,538	76,567	22.13	-	-	-	-	-	-	597	4,325	819	12,014	4,075	12,530	-
21	80% to 84%	152,662	51,572	23.80	-	-	-	-	-	-	477	720	624	6,764	4,448	8,180	-
22	84% to 88%	157,611	22,658	26.22	-	-	-	-	-	-	-	801	8,197	1,603	1,953	4,567	-
23	88% to 92%	187,135	37,051	28.41	-	-	-	-	-	-	-	4,651	526	226	12,327	3,684	9,692
24	92% to 96%	186,396	13,374	32.66	-	-	-	-	-	-	-	-	480	700	2,632	5,986	2,631
25	96% to 100%	197,049	11,271	37.84	-	-	-	-	-	-	-	-	480	302	2,442	7,361	410
		4,621,580	3,353,549	(3.78)	457,838	100,103	146,321	150,091	181,900	133,184	132,541	161,982	163,776	158,898	160,130	149,143	169,147

Bill Impact Matrix for TOU Proposed Rate Design - CARE Customer																	
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change	Below -20%	> -20% to -15%	> -15% to -10%	> -10% to -5%	> -5% to 0%	> 0% to 5%	> 5% to 10%	> 10% to 15%	> 15% to 20%	> 20% to 25%	> 25% to 30%	> 30% to 35%	> 35% to 40%
1	0% to 4%	172,466	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	181,138	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	167,697	421	(33.25)	-	-	-	-	421	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	389	(6.10)	-	-	-	-	389	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	235	(3.17)	-	-	-	-	235	-	-	-	-	-	-	-	-
7	24% to 28%	178,108	3,420	4.66	-	-	-	-	-	389	-	-	-	-	-	-	-
8	28% to 32%	179,888	6,701	8.23	-	-	-	-	-	241	-	-	-	-	-	-	-
9	32% to 36%	252,522	31,221	11.29	-	-	-	-	-	235	720	-	-	-	-	-	-
10	36% to 40%	184,420	13,962	12.76	-	-	-	-	-	389	282	201	-	-	-	-	-
11	40% to 44%	187,503	14,376	13.86	-	-	-	-	-	204	-	-	-	-	-	-	-
12	44% to 48%	185,156	27,760	14.96	-	-	-	-	-	-	226	-	-	-	241	-	-
13	48% to 52%	186,922	20,599	15.71	-	-	-	-	-	-	589	178	205	-	-	-	-
14	52% to 56%	186,027	29,855	16.55	-	-	-	-	-	-	-	-	452	9,903	282	-	-
15	56% to 60%	157,549	41,545	17.29	-	-	-	-	-	-	405	-	-	277	282	241	-
16	60% to 64%	199,009	39,690	18.12	-	-	-	-	-	-	336	-	241	5,510	1,489	241	191
17	64% to 68%	219,786	53,413	18.92	-	-	-	-	-	-	-	480	1,101	389	9,029	4,665	-
18	68% to 72%	180,098	57,705	19.86	-	-	-	-	-	-	-	-	286	-	5,530	555	5,926
19	72% to 76%	201,133	83,839	20.94	-	-	-	-	-	-	-	5,345	974	709	836	205	-
20	76% to 80%	174,538	97,971	22.05	-	-	-	-	-	-	389	1,091	1,014	1,145	559	483	-
21	80% to 84%	152,662	101,089	24.02	-	-	-	-	-	-	-	-	855	814	1,507	12,312	1,444
22	84% to 88%	157,611	134,953	26.16	-	-	-	-	-	-	4,651	432	286	5,889	1,539	2,766	2,848
23	88% to 92%	187,135	150,084	28.51	-	-	-	-	-	-	248	-	4,916	1,108	2,694	7,057	3,485
24	92% to 96%	186,396	173,022	32.83	-	-	-	-	-	-	-	239	1,009	1,209	11,392	2,462	8,927
25	96% to 100%	197,049	185,778	42.64	-	-	-	-	-	-	-	451	5,090	1,531	3,080	16,133	9,587
		4,621,580	1,268,031	26.31	-	-	-	-	1,046	1,459	7,456	7,714	16,507	27,877	38,205	47,888	33,337

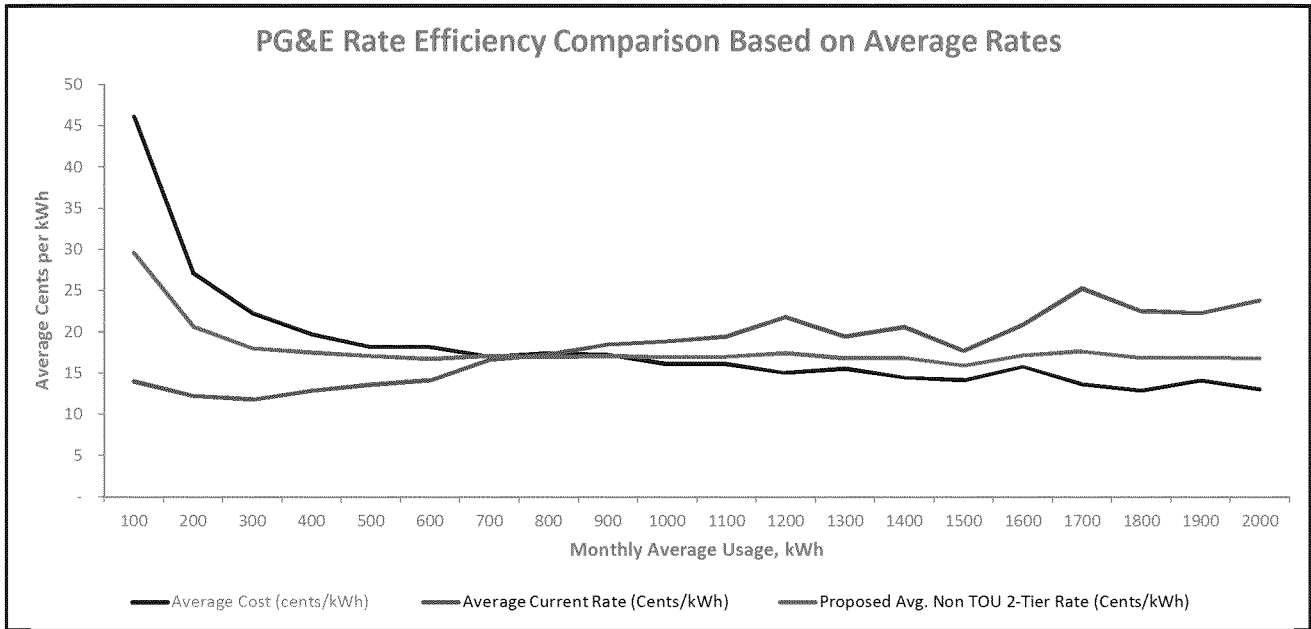
Bill Impact Matrix for TOU Proposed Rate Design - Non-CARE Customer					> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change												
1	0% to 4%	172,466	172,466	(147.27)	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	181,138	181,138	(57.85)	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	167,697	167,275	(36.79)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	160,816	(20.90)	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	191,986	(10.11)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	193,340	(2.37)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	178,108	174,688	4.06	-	-	-	-	235	-	-	-	-	-	-	8,287
8	28% to 32%	179,888	173,187	8.36	730	-	490	821	-	1,015	483	4,088	788	1,006	1,024	22,335
9	32% to 36%	252,522	221,302	11.11	810	245	3,664	4,102	178	302	4,498	439	5,300	5,197	198	46,138
10	36% to 40%	184,420	170,457	12.78	1,419	625	1,004	1,469	9,878	1,500	5,179	2,672	10,330	20,264	6,864	35,727
11	40% to 44%	187,503	173,127	13.98	12,313	637	5,240	5,752	8,057	13,888	24,497	12,120	20,195	3,821	6,586	7,612
12	44% to 48%	185,156	157,396	14.88	1,739	2,253	5,240	11,159	32,943	12,329	14,834	11,917	437	526	-	6,003
13	48% to 52%	186,922	166,323	15.77	2,677	4,971	20,332	17,450	23,510	19,822	1,059	8,842	205	4,670	-	-
14	52% to 56%	186,027	156,172	16.56	4,583	36,351	26,590	18,848	6,436	1,562	1,304	178	201	-	223	-
15	56% to 60%	157,549	116,004	17.25	11,213	27,650	20,772	3,775	1,926	444	205	-	-	-	-	-
16	60% to 64%	199,009	159,319	18.14	38,838	29,555	9,055	2,902	781	4,260	302	-	-	-	-	-
17	64% to 68%	219,786	166,373	18.94	30,089	19,082	14,001	6,137	8,513	-	-	-	-	-	-	-
18	68% to 72%	180,098	122,392	19.87	29,030	27,250	2,948	737	-	-	-	-	-	-	-	-
19	72% to 76%	201,133	117,294	20.82	32,474	17,408	13,575	680	-	669	-	-	-	-	-	-
20	76% to 80%	174,538	76,567	22.13	16,284	14,646	2,172	5,403	3,700	-	-	-	-	-	-	-
21	80% to 84%	152,662	51,572	23.80	16,719	6,470	675	493	-	6,003	-	-	-	-	-	-
22	84% to 88%	157,611	22,658	26.22	3,262	2,055	221	-	-	-	-	-	-	-	-	-
23	88% to 92%	187,135	37,051	28.41	4,914	733	299	-	-	-	-	-	-	-	-	-
24	92% to 96%	186,396	13,374	32.66	946	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	197,049	11,271	37.84	277	-	-	-	-	-	-	-	-	-	-	-
		4,821,580	3,353,545	(3.78)	208,315	188,931	128,277	79,708	96,157	61,593	52,360	40,257	37,435	35,485	14,895	126,103

Bill Impact Matrix for TOU Proposed Rate Design - CARE Customer					> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of CARE Customers	CARE Average Bill Change												
1	0% to 4%	172,466	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	181,138	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	167,697	421	(33.25)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	389	(6.10)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	235	(3.17)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	178,108	3,420	4.66	-	-	-	-	-	-	-	-	-	-	-	3,031
8	28% to 32%	179,888	6,701	8.23	235	-	-	-	-	-	427	-	-	292	-	5,507
9	32% to 36%	252,522	31,221	11.29	-	-	-	4,343	-	-	-	361	302	-	-	25,261
10	36% to 40%	184,420	13,962	12.76	198	-	241	-	-	-	-	-	245	-	-	12,407
11	40% to 44%	187,503	14,376	13.86	-	-	198	-	-	-	-	178	-	-	-	13,795
12	44% to 48%	185,156	27,760	14.96	-	245	-	205	-	241	431	296	-	-	483	25,392
13	48% to 52%	186,922	20,599	15.71	-	198	-	-	299	198	-	3,463	-	-	-	15,667
14	52% to 56%	186,027	29,855	16.55	-	-	-	-	255	-	-	-	255	241	520	17,750
15	56% to 60%	157,549	41,545	17.29	198	255	-	3,716	-	201	205	-	4,581	-	627	30,557
16	60% to 64%	199,009	39,690	18.12	241	-	419	198	-	3,959	-	282	717	701	3,427	21,739
17	64% to 68%	219,786	53,413	18.92	-	241	-	396	976	-	-	205	617	1,213	11,385	22,717
18	68% to 72%	180,098	57,705	19.86	840	4,267	4,584	1,073	292	822	900	714	928	2,440	7,446	21,101
19	72% to 76%	201,133	83,839	20.94	1,055	5,149	7,366	1,220	5,766	789	5,226	11,916	5,473	14,451	9,417	7,941
20	76% to 80%	174,538	97,971	22.05	5,346	536	1,436	17,951	2,705	10,066	5,561	6,363	14,444	19,788	2,865	6,230
21	80% to 84%	152,662	101,089	24.02	2,502	1,469	810	1,074	11,197	992	2,933	5,086	25,412	13,308	13,217	6,158
22	84% to 88%	157,611	134,953	26.16	11,823	10,747	7,164	7,369	9,778	9,444	12,071	18,195	15,537	8,773	3,331	2,510
23	88% to 92%	187,135	150,084	28.51	2,132	11,630	14,934	15,264	10,611	6,581	19,340	20,637	6,063	16,329	5,558	1,496
24	92% to 96%	186,396	173,022	32.83	17,455	12,472	6,749	14,477	14,936	20,787	24,619	25,495	7,474	1,481	1,404	436
25	96% to 100%	197,049	185,778	42.64	22,950	31,270	19,672	26,908	7,694	20,471	10,785	7,018	1,143	1,282	714	-
		4,821,580	1,288,031	26.31	64,975	78,478	63,573	89,548	88,850	74,549	82,499	100,208	83,190	80,288	80,395	239,697

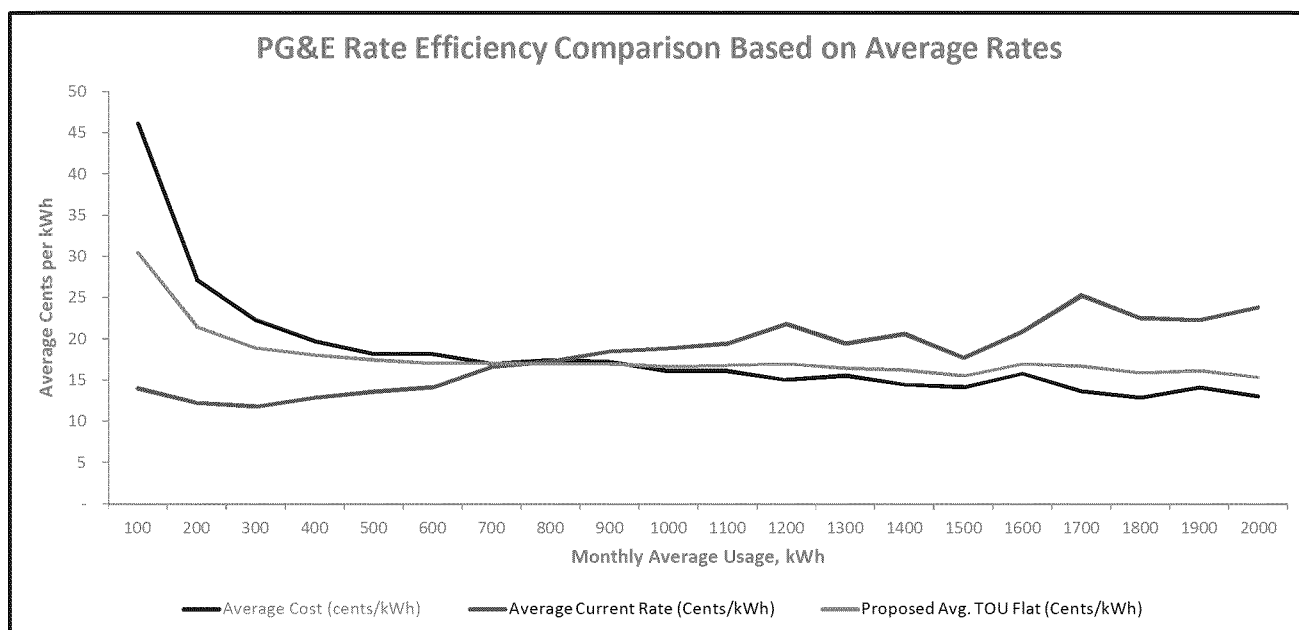
PG&E Bill Impact Tables by Load Factor and Income Ranges

Load Factor Description	Load Factor Range	Avg. Percent Non TOU Bill Impact	Avg. Current Bill	Avg. Non TOU Bill	Avg. Cost Based Bill	Avg. Percent TOU Bill Impact	Avg. TOU Bill	Number of Households
Non CARE								
Low	0 to 25%	-3%	98.77	95.92	94.38	-3%	95.87	3,276,526
Medium	25% to 40%	-22%	186.87	146.49	107.96	-25%	140.62	70,879
High	Above 40%	44%	29.13	42.06	36.44	50%	43.72	6,144
Non CARE Average		-4%	100.50	96.89	94.56	-4%	96.72	3,353,549
CARE								
Low	0 to 25%	51%	48.22	72.89	91.05	55%	74.54	1,202,126
Medium	25% to 40%	35%	81.54	109.74	106.43	32%	107.71	63,527
High	Above 40%	43%	56.04	80.10	71.30	42%	79.62	2,378
CARE Average		50%	49.90	74.75	91.78	53%	76.21	1,268,031
All Customers								
Low	0 to 25%	5%	85.20	89.74	93.48	6%	90.15	4,478,652
Medium	25% to 40%	-6%	137.09	129.12	107.24	-9%	125.06	134,406
High	Above 40%	44%	36.64	52.68	46.17	47%	53.74	8,522
All Customers Average		5%	86.62	90.81	93.80	5%	91.10	4,621,580

Income Range	Avg. Percent Non TOU Bill Impact	Avg. Current Bill	Avg. Non TOU Bill	Avg. Cost Based Bill	Avg. Percent TOU Bill Impact	Avg. TOU Bill	Number of Households	
Non CARE								
0 to 30K	8%	69.01	74.27	77.11	10%	75.80	351,895	
30K to 60K	7%	77.15	82.36	84.29	9%	83.77	875,392	
60K to 75K	-2%	101.10	99.25	100.79	-1%	99.88	464,643	
75K to 100K	-3%	99.32	96.39	94.14	-3%	96.28	596,618	
100K to 500K	-11%	130.50	115.55	106.28	-13%	113.15	1,065,002	
Non CARE Average		-4%	100.50	96.89	94.56	-4%	96.72	3,353,549
CARE								
0 to 30K	56%	41.42	64.78	81.83	61%	66.80	694,134	
30K to 60K	47%	55.12	81.16	98.36	50%	82.41	404,439	
60K to 75K	37%	76.89	105.70	120.11	37%	105.64	62,731	
75K to 100K	47%	57.73	84.76	102.52	48%	85.62	67,939	
100K to 500K	32%	89.88	118.69	136.59	29%	116.13	38,788	
CARE Average		50%	49.90	74.75	91.78	53%	76.21	1,268,031
All Customers								
0 to 30K	34%	50.71	67.97	80.25	38%	69.83	1,046,029	
30K to 60K	17%	70.19	81.98	88.73	19%	83.34	1,279,831	
60K to 75K	2%	98.22	100.02	103.09	2%	100.57	527,374	
75K to 100K	0%	95.07	95.20	94.99	0%	95.19	664,557	
100K to 500K	-10%	129.07	115.66	107.35	-12%	113.26	1,103,790	
All Customers Average		5%	86.62	90.81	93.80	5%	91.10	4,621,580



Cost of Service vs. Current and Proposed Rate Designs					
Average Monthly Usage	Average Cost (cents/kWh)	Average Current Rate (Cents/kWh)	Proposed Avg. Non TOU (Cents/kWh)	Percent Change-Current	Percent Change-Proposed Non TOU
100	46.07	13.99	29.59	-70%	-36%
200	27.17	12.25	20.67	-55%	-24%
300	22.30	11.81	18.01	-47%	-19%
400	19.75	12.88	17.50	-35%	-11%
500	18.18	13.56	17.07	-25%	-6%
600	18.16	14.16	16.74	-22%	-8%
700	16.99	16.63	17.10	-2%	1%
800	17.42	17.26	16.94	-1%	-3%
900	17.18	18.51	17.12	8%	0%
1000	16.10	18.87	16.93	17%	5%
1100	16.05	19.46	17.00	21%	6%
1200	15.00	21.81	17.41	45%	16%
1300	15.57	19.47	16.79	25%	8%
1400	14.46	20.63	16.84	43%	16%
1500	14.13	17.72	15.94	25%	13%
1600	15.80	20.90	17.13	32%	8%
1700	13.67	25.28	17.64	85%	29%
1800	12.86	22.54	16.89	75%	31%
1900	14.13	22.30	16.93	58%	20%
2000	13.03	23.83	16.78	83%	29%

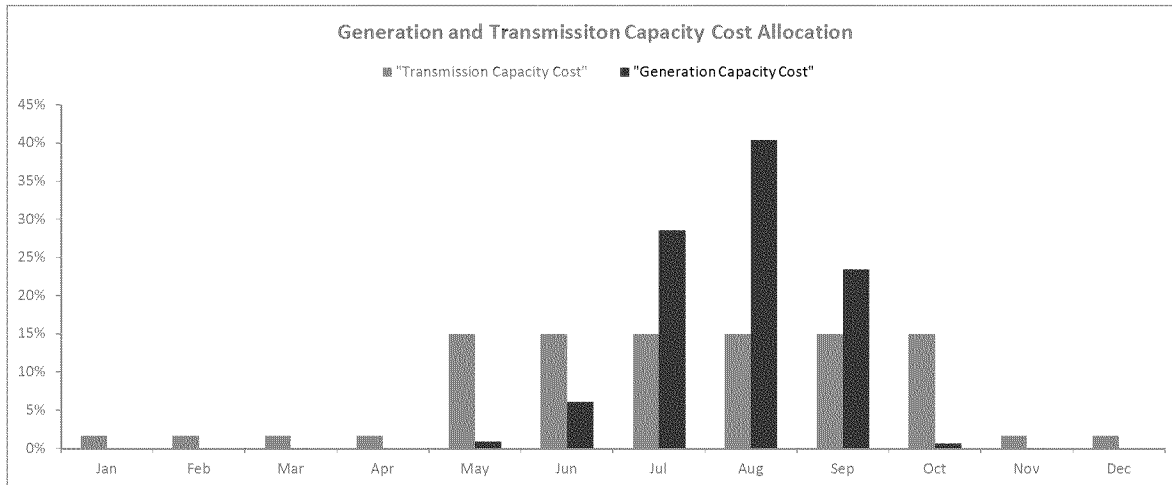


Cost of Service vs. Current and Proposed Rate Designs					
Average Monthly Usage	Average Cost (cents/kWh)	Average Current Rate (Cents/kWh)	Proposed Avg. TOU Flat (Cents/kWh)	Percent Change-Current	Percent Change-Proposed TOU
100	46.07	13.99	30.50	-70%	-34%
200	27.17	12.25	21.49	-55%	-21%
300	22.30	11.81	18.86	-47%	-15%
400	19.75	12.88	18.06	-35%	-9%
500	18.18	13.56	17.44	-25%	-4%
600	18.16	14.16	17.04	22%	-6%
700	16.99	16.63	17.07	-2%	0%
800	17.42	17.26	16.94	-1%	-3%
900	17.18	18.51	17.01	8%	-1%
1000	16.10	18.87	16.64	17%	3%
1100	16.05	19.46	16.80	21%	5%
1200	15.00	21.81	16.91	45%	13%
1300	15.57	19.47	16.43	25%	6%
1400	14.46	20.63	16.21	43%	12%
1500	14.13	17.72	15.52	25%	10%
1600	15.80	20.90	16.91	32%	7%
1700	13.67	25.28	16.68	85%	22%
1800	12.86	22.54	15.88	75%	23%
1900	14.13	22.30	16.10	58%	14%
2000	13.03	23.83	15.33	83%	18%

Cost of Service vs. Current and Proposed Rate Designs					Difference from Cost		
Monthly Average Bill							
Average Monthly Usage	Average Cost	Average Current	Average Non TOU 2-Tier Rate	Average TOU	Current	Non TOU 2-Tier Rate	TOU
100	\$29.25	\$8.88	\$18.79	\$19.36	(\$20.37)	(\$10.46)	(\$9.89)
200	\$41.86	\$18.87	\$31.85	\$33.11	(\$22.98)	(\$10.11)	(\$8.75)
300	\$55.68	\$29.49	\$44.97	\$47.09	(\$26.19)	(\$10.71)	(\$8.59)
400	\$69.19	\$42.10	\$61.30	\$63.24	(\$24.09)	(\$7.99)	(\$5.95)
500	\$80.59	\$60.09	\$75.69	\$77.32	(\$20.50)	(\$4.90)	(\$3.27)
600	\$99.39	\$77.53	\$91.61	\$93.27	(\$21.88)	(\$7.77)	(\$6.12)
700	\$109.91	\$107.56	\$110.60	\$110.38	(\$2.35)	\$0.69	\$0.48
800	\$136.28	\$129.08	\$126.85	\$126.88	(\$1.22)	(\$3.53)	(\$3.60)
900	\$145.42	\$156.67	\$144.91	\$143.96	\$11.25	(\$0.51)	(\$1.46)
1000	\$183.30	\$179.83	\$161.33	\$158.58	\$26.33	\$7.84	\$6.08
1100	\$167.58	\$203.22	\$177.48	\$175.44	\$35.63	\$9.89	\$7.86
1200	\$171.34	\$249.12	\$198.81	\$193.13	\$77.77	\$27.47	\$21.79
1300	\$195.09	\$243.93	\$210.35	\$205.93	\$48.84	\$15.26	\$10.84
1400	\$194.16	\$277.00	\$226.14	\$217.68	\$82.83	\$31.98	\$23.52
1500	\$205.72	\$258.03	\$232.10	\$225.94	\$52.31	\$26.38	\$20.22
1600	\$241.40	\$319.41	\$261.84	\$258.40	\$78.01	\$20.45	\$17.00
1700	\$222.61	\$411.73	\$287.24	\$271.68	\$189.11	\$64.62	\$49.07
1800	\$224.44	\$393.23	\$294.67	\$277.09	\$188.79	\$70.23	\$52.65
1900	\$261.08	\$412.02	\$312.67	\$297.44	\$150.94	\$51.58	\$36.36
2000	\$321.86	\$588.81	\$414.53	\$378.83	\$266.96	\$92.69	\$56.98
Total	\$93.80	\$86.62	\$90.81	\$91.10	(\$7.18)	(\$2.98)	(\$2.70)

Annual Average Revenue					Difference from Cost		
Average Monthly Usage	Cost Based	Current Total	Non TOU 2-Tier Rate Total	TOU Total	Current Total	Non TOU 2-Tier Rate Total	TOU Total
100	\$62,503,329.62	\$18,973,280.89	\$40,147,190.77	\$41,378,256.81	(\$43,530,048.74)	(\$22,356,138.86)	(\$21,125,072.81)
200	\$223,375,486.32	\$109,715,673.17	\$169,983,968.78	\$176,695,999.89	(\$122,660,813.16)	(\$53,393,119.54)	(\$46,681,086.44)
300	\$359,696,364.83	\$190,502,307.45	\$290,504,031.43	\$304,211,541.05	(\$169,194,057.38)	(\$69,192,333.40)	(\$55,484,823.78)
400	\$681,216,178.83	\$444,041,762.34	\$603,578,270.52	\$622,667,176.88	(\$237,174,410.29)	(\$77,837,903.11)	(\$58,549,001.77)
500	\$584,036,342.24	\$435,463,868.57	\$548,513,085.99	\$560,350,379.63	(\$148,572,473.66)	(\$35,523,256.25)	(\$23,685,962.61)
600	\$628,680,211.83	\$490,380,841.64	\$579,485,946.95	\$589,961,808.53	(\$138,279,369.99)	(\$49,174,264.67)	(\$38,699,493.10)
700	\$546,967,065.16	\$535,293,782.99	\$550,414,788.05	\$549,348,220.58	(\$11,673,282.17)	\$3,447,722.89	\$2,381,155.41
800	\$535,434,945.89	\$531,414,446.09	\$521,477,965.02	\$521,831,465.62	(\$8,020,499.80)	(\$14,956,980.87)	(\$14,803,480.27)
900	\$401,923,684.54	\$433,022,186.01	\$400,509,143.65	\$397,884,316.20	\$31,098,501.47	(\$1,414,540.89)	(\$4,039,368.34)
1000	\$229,817,383.58	\$253,690,858.35	\$232,089,881.17	\$228,130,267.09	\$7,681,704.74	\$11,272,467.59	\$7,312,883.56
1100	\$203,030,176.31	\$246,197,209.43	\$215,015,966.17	\$212,550,300.39	\$43,167,033.12	\$11,985,789.85	\$9,520,124.08
1200	\$192,473,235.61	\$279,896,732.67	\$223,325,256.87	\$216,945,806.36	\$87,363,497.06	\$30,862,031.26	\$24,472,570.75
1300	\$118,669,165.04	\$148,375,548.35	\$127,952,969.66	\$125,265,291.74	\$29,706,383.31	\$9,283,804.63	\$6,596,126.70
1400	\$109,926,213.29	\$156,822,566.21	\$128,030,258.24	\$123,242,002.88	\$46,885,354.92	\$18,404,044.95	\$19,315,849.59
1500	\$90,322,828.95	\$113,287,872.55	\$101,904,894.05	\$99,199,918.55	\$22,965,043.60	\$11,582,065.11	\$8,877,089.60
1600	\$36,326,154.62	\$48,068,052.67	\$39,405,056.48	\$36,887,248.82	\$11,739,898.05	\$3,076,901.86	\$2,599,094.20
1700	\$33,528,382.82	\$62,011,101.72	\$43,261,514.32	\$40,918,334.08	\$28,482,718.90	\$9,733,131.51	\$7,389,951.26
1800	\$14,050,539.12	\$24,617,323.55	\$18,447,150.93	\$17,346,702.41	\$10,566,784.52	\$4,396,611.90	\$3,296,163.29
1900	\$11,134,863.64	\$17,572,306.65	\$13,334,919.99	\$12,685,787.38	\$6,437,443.01	\$2,200,056.35	\$1,550,923.73
2000	\$149,769,736.06	\$268,501,627.91	\$189,039,663.06	\$172,752,028.68	\$121,731,891.86	\$42,269,827.60	\$25,982,292.62
Total	\$5,201,865,288	\$4,803,797,581	\$5,036,421,209	\$5,052,052,314	(\$398,067,707)	(\$165,444,079)	(\$149,812,974)

Cost Basis					
Cost Components		Marginal Cost	Unit	Allocation	Other
Generation Energy Charge	Summer, on-peak	6.59	Cents/kWh	Volumetric	
	Summer, part-peak	6.05	Cents/kWh		
	Summer, Off-peak	4.42	Cents/kWh		
	Winter, on-peak	5.98	Cents/kWh		
	Winter, off-peak	4.58	Cents/kWh		
Generation Capacity Cost	Annual	122.22	\$/kW-yr	Allocated to summer months	Reserve margin = 15%
Transmission Capacity Cost	Annual	86.22	\$/kW-yr	Allocated to summer months	Line Loss = 7%
Distribution Capacity Cost	Primary	105.12	\$/kW-yr	Allocated equally to all months	Line Loss = 5.3%
	Secondary	1.09	\$/kW-yr	Allocated equally to all months	Line Loss = 5.3%
Customer Access Charge		123.14	\$/year	Allocated equally to all months	
Other Fixed Charge		83.20	\$/year	Allocated equally to all months	



Illustrative Energy Conservation Estimation Using Elasticity of Usage

The results below are based on 100% volumetric rate designs

Energy Conservation	Current Rate	Non TOU Rate	TOU Rate
Usage, kWh	29,201,592,102	28,650,604,499	28,574,817,747
Conserved kWh		550,987,603	626,774,355
Percent conserved		1.89%	2.15%

5-Tiered Rates	NonCARE		Non TOU Rate			TOU Rate	
	NonCARE	CARE	NonCARE	CARE		NonCARE	CARE
Tier-1	\$0.13230	\$0.08316	\$0.15183	\$0.12147	Summer, on-peak	\$0.25809	\$0.20648
Tier-2	\$0.15040	\$0.09563	\$0.18220	\$0.14576	Summer, part-peak	\$0.19853	\$0.15883
Tier-3	\$0.31114	\$0.13974	\$0.18220	\$0.14576	Summer, off-peak	\$0.15272	\$0.12217
Tier-4	\$0.35114	\$0.13974	\$0.18220	\$0.14576	Winter, part-peak	\$0.17868	\$0.14294
Tier-5	\$0.35114	\$0.13974	\$0.18220	\$0.14576	Winter, off-peak	\$0.13745	\$0.10996

Summary of Usage	Current Rate		Proposed Non-TOU Rate			Proposed TOU Rate	
	NonCARE	CARE	NonCARE	CARE		NonCARE	CARE
	Tier-1	12,933,913,864	5,321,735,874	12,551,983,877		4,831,453,632	Summer, on-peak
Tier-2	2,448,663,859	861,927,586	2,345,115,357	771,561,172	Summer, part-peak	2,274,261,197	811,414,907
Tier-3	3,324,020,293	1,671,246,605	3,599,521,913	1,656,846,391	Summer, off-peak	6,135,895,664	2,109,392,779
Tier-4	1,695,693,048		1,858,858,576		Winter, part-peak	1,224,223,992	386,603,391
Tier-5	944,390,972		1,035,263,581		Winter, off-peak	9,634,036,598	3,146,866,510
Total	21,346,682,036	7,854,910,066	21,390,743,304	7,259,861,195	Total	21,335,242,573	7,239,575,174

Methodology

The energy conservation calculation is done in two steps.

Step 1: Energy conservation due to moving from the current rate to proposed non-TOU rate is calculated.

Step 2: Energy conservation due to moving from the proposed non-TOU rate to proposed TOU rate is calculated.

This methodology is based on a survey data that requires a two-step calculation.

Consumption Change: Current Rate Design to Flat Rate

Non-CARE									
Tier	Current Rate Based usage (kWh/yr)	Current Rate (\$/kWh)	New price (\$/kWh)	Change in price (%)	Price elasticity	Change in quantity (%)	Flat Rate usage (kWh/yr)	Change in usage (kWh/yr)	
1	12,933,913,864	\$0.13230	\$0.15183	14.8%	-0.20	-3.0%	12,551,983,877	(381,929,987)	
2	2,448,663,859	\$0.15040	\$0.18220	21.1%	-0.20	-4.2%	2,345,115,357	(103,548,501)	
3	3,324,020,293	\$0.31114	\$0.18220	-41.4%	-0.20	8.3%	3,599,521,913	275,501,620	
4	1,695,693,048	\$0.35114	\$0.18220	-48.1%	-0.20	9.6%	1,858,858,576	163,165,528	
5	944,390,972	\$0.35114	\$0.18220	-48.1%	-0.20	9.6%	1,035,263,581	90,872,609	
Total	21,346,682,036					0.21%	21,390,743,304	44,061,268	

CARE								
Tier	Current usage (kWh/yr)	2020 IBR Rate (\$/kWh)	New price (\$/kWh)	Change in price (%)	Price elasticity	Change in quantity (%)	New usage (kWh/yr)	Change in usage (kWh/yr)
1	5,321,735,874	\$0.08316	\$0.12147	46.1%	-0.20	-9.2%	4,831,453,632	(490,282,243)
2	861,927,586	\$0.09563	\$0.14576	52.4%	-0.20	-10.5%	771,561,172	(90,366,414)
3	1,671,246,605	\$0.13974	\$0.14576	4.3%	-0.20	-0.9%	1,656,846,391	(14,400,215)
Total	7,854,910,066					-7.58%	7,259,861,195	(595,048,871)

Consumption Change: Flat Rate to TOU Rate

Non-CARE Summer

	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Peak		2,238,781,941	2,915,081	\$0.15183	\$0.258094	-7.68%	2,066,825,123	(171,956,819)
Partial-Peak		2,337,543,677	2,440,025	\$0.15183	\$0.198534	-2.71%	2,274,261,197	(63,282,480)
Off-Peak		5,984,235,671	2,224,623	\$0.15183	\$0.152719	2.53%	6,135,895,664	151,659,993
Total	4,416	10,560,561,289					10,476,981,983	(83,579,306)

Non-CARE Winter

	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Partial-Peak		1,279,072,314	3,357,145	\$0.15183	\$0.17868	-4.29%	1,224,223,992	(54,848,322)
Off-Peak		9,551,109,702	2,410,071	\$0.15183	\$0.13745	0.87%	9,634,036,598	82,926,896
Total	4,344	10,830,182,016					10,858,260,590	28,078,574

CARE Summer

	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Peak		849,221,277	1,105,757	\$0.12147	\$0.20648	-7.53%	785,297,588	(63,923,689)
Partial-Peak		832,808,643	869,111	\$0.12147	\$0.15883	-2.55%	811,414,907	(21,393,737)
Off-Peak		2,053,840,519	763,509	\$0.12147	\$0.12217	2.70%	2,109,392,779	55,552,260
Total	4,416	3,735,870,439					3,706,105,274	(29,565,166)

CARE Winter

	Hours per season	Customer usage per season (kWh/season)	Customer usage per hour (kWh/hour)	Old Rate (\$/kWh)	New Rate (\$/kWh)	Consumption Change (%)	New Customer usage per season (kWh/season)	Change in usage (kWh/season)
Partial-Peak		403,980,060	1,060,315	\$0.12147	\$0.14294	-4.30%	386,603,391	(17,376,670)
Off-Peak		3,120,210,695	787,336	\$0.12147	\$0.10996	0.85%	3,146,866,510	26,655,815
Total	4,344	3,524,190,756					3,533,469,901	9,279,145