

ATTACHMENT 1

Name of Party:

Name of Party: Pacific Gas and Electric Company

Illustrative End-State Default TOU Rates

	PG&E			SCE			SDG&E		
Non-CARE	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh
	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:

Name of Party: Pacific Gas and Electric Company

Illustrative Transitional Default TOU Rates

Non-CARE	PG&E			SCE			SDG&E		
	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh
	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 Optional 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		
Wm 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		
Wm 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

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 discounts are set at 20% off Non-CARE rates.

The TOU rates for PG&E shown above are for the end state. The transition rates will depend on the length of the transition period.

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	

Notes

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

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

The revenue collected from the transition and 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.

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 -Rate Design and Bill Impact Analysis Model for Residential
 May 1, 2013 Revenue Collection Scenario from PGE

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

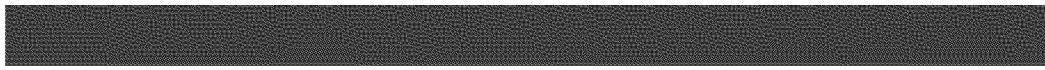
Number of TOU Periods => 3

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					
Rate Code	Tier	Forecast Sales (\$/MWh)	% of Sales	May-13 Rate	2-Tier Rate
	1	12.93	61%	13.2	15.2
	2	2.45	11%	15.0	18.2
	3	3.32	16%	31.1	18.2
	4	1.70	8%	35.1	18.2
	5	0.94	4%	35.1	18.2
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

Rate Code	Tier	Forecast Sales (\$/MWh)	% of Sales	May-13 Rate	2-Tier Rate
	1	5.32	68%	8.3	12.1
	2	0.86	11%	9.6	14.6
	3	1.03	13%	14.0	14.6
	4	0.44	6%	14.0	14.6
	5	0.20	2%	14.0	14.6
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

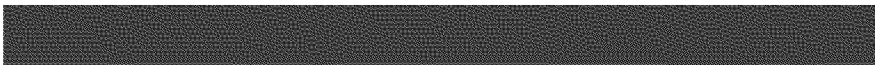
Instructions for running this model:
 To enter a new TCU or a TCU rate design, on Steps 1 through 4 by clicking the respective tabs on the left side of the sheet.
 For designing a new TCU rate structure, run steps 2 and 3 by clicking those buttons after steps 1 through 4 are completed.
 For designing a TCU rate structure, run steps 1 and 3 by clicking those buttons after steps 1 through 4 are completed.
 Please enter scaling name and tolerance number in cell B2.



Resulting TOU Rate				
Non-CARE		Forecast Period Sales (\$MM)	% 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.			10.0
	Fixed Charge High Demand \$/Mo.			0.0
	Fixed Charge Low Demand \$/Mo.			0.0
	Min Charge \$/Mo.			0.0
CARE		Forecast Period Sales (\$MM)	% 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.			8.0
	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 Base 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 ? 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 Design Measures		Current Rate Levels		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			Total
	Non-CARE	CARE		
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	3,983

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	8	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	26% 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	4098 E-A			
4					
5					

	Effective Dates				
1	05/01/13	11/01/11	1/1/2013	5/1/2013	
Non-CARE Tier-1 \$/kWh	0.132300	0.122350	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	23,224,447,566.00	22,808,978,953.00			
CARE Sales kWh	8,901,348,709.00	8,363,553,053.00			
Non-Res except streetlight kWh	53,129,423,077.00	54,319,747,671.00			
DWR Charges \$	105,949,957.00	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	1,288,031
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, 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 \$	2,314,456,307				
Transmission \$	493,940,832				
Distribution \$	2,008,947,757				
Other \$	384,533,940				
Total \$	5,201,945,479				

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	\$/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			1.0661819 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.

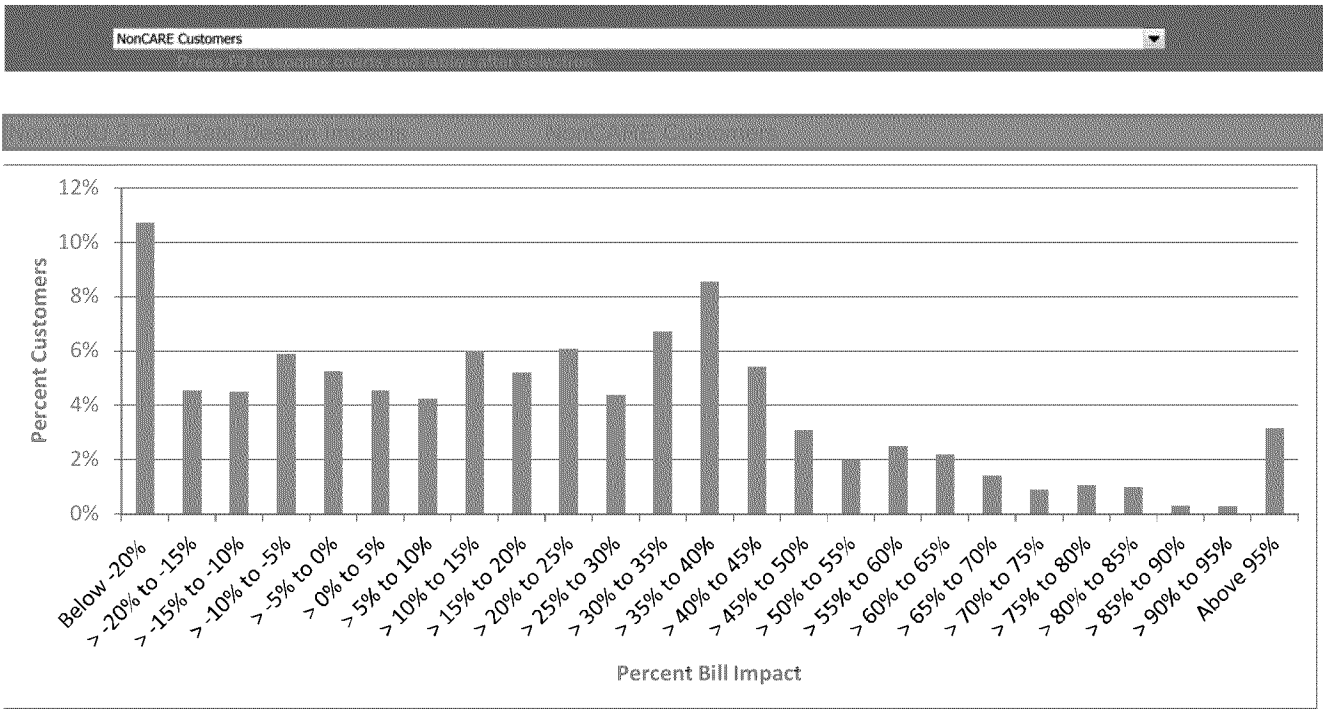
Average Usage Quantity (kWh Per Day)			
Territory	Season	Basic	All Electric
P	Summer	27.82	32.73
Q	Summer	13.64	16.55
R	Summer	31.09	38.00
S	Summer	27.82	32.73
T	Summer	13.64	16.55
V	Summer	21.82	35.27
W	Summer	33.64	42.73
X	Summer	20.00	18.73
Y	Summer	21.27	25.64
Z	Summer	14.36	20.36
P	Winter	23.09	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)

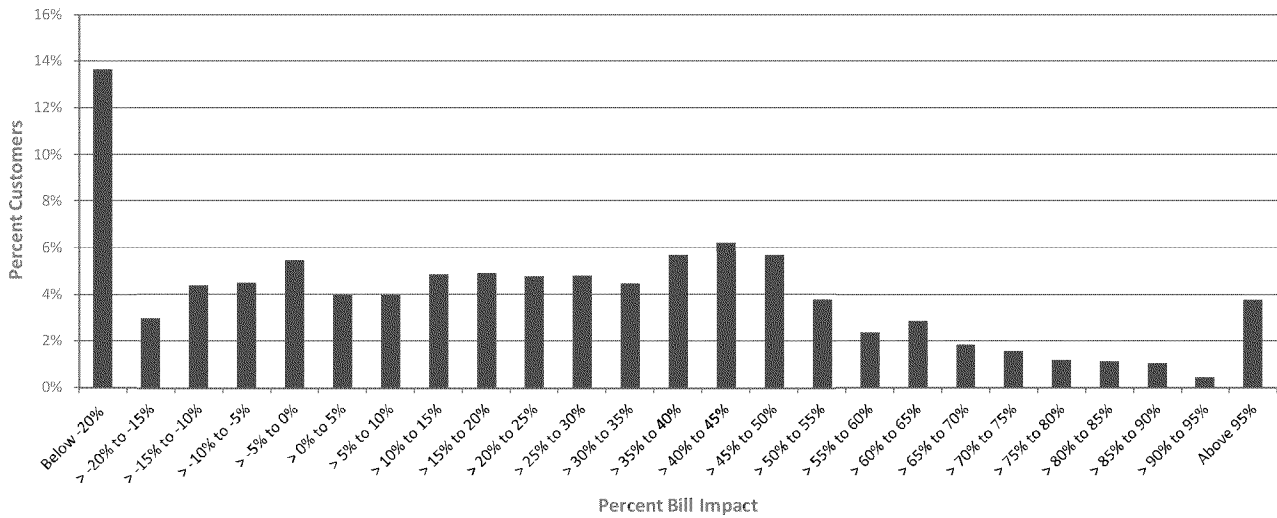
Allowance (kWh/month)	500.00
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Source: User Input



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	18.09	-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%	13.34	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%	100,109	3%	855	13%	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	19.78	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%	46.04	65.67	19.63	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 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	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	(10.88)	171,796	430	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	185,272	185,272	(4.25)	155,482	24,043	5,747	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	160,263	160,263	(2.70)	32,199	114,096	13,968	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	172,463	172,463	(1.57)	248	13,692	122,184	36,338	-	-	-	-	-	-	-	-	-
5	16% to 20%	195,803	195,803	(0.75)	254	-	9,373	160,032	26,144	-	-	-	-	-	-	-	-
6	20% to 24%	181,503	181,503	(0.16)	-	-	-	1,555	150,018	29,929	-	-	-	-	-	-	-
7	24% to 28%	189,478	185,447	0.33	-	-	-	-	117,160	-	-	-	-	-	-	-	-
8	28% to 32%	184,539	179,697	0.67	-	-	-	-	5,736	69,782	51,386	8,447	-	-	-	-	-
9	32% to 36%	219,516	209,302	0.87	-	-	-	-	-	8,338	86,381	51,185	6,686	5,355	810	201	191
10	36% to 40%	252,792	226,984	0.98	-	-	-	-	-	421	32,782	33,867	49,098	9,661	500	691	245
11	40% to 44%	189,181	178,535	1.07	-	-	-	-	-	728	10,509	20,813	17,141	11,455	7,215	1,498	590
12	44% to 48%	159,239	151,657	1.12	-	-	-	-	-	421	10,509	20,813	17,141	11,455	7,215	1,498	590
13	48% to 52%	190,670	165,795	1.18	-	-	-	-	-	226	1,514	13,051	13,487	7,980	5,407	4,814	2,086
14	52% to 56%	169,433	147,980	1.22	-	-	-	-	-	5,593	3,097	14,418	23,740	7,953	9,553	3,188	3,629
15	56% to 60%	160,053	136,544	1.27	-	-	-	-	-	5,397	299	8,015	31,408	7,497	5,958	8,764	21,452
16	60% to 64%	195,388	156,600	1.32	-	-	-	-	-	-	1,427	5,627	7,225	5,958	8,764	21,452	60,797
17	64% to 68%	196,272	174,979	1.37	-	-	-	-	-	299	728	7,761	24,228	4,864	16,015	60,797	101,432
18	68% to 72%	181,049	140,972	1.43	-	-	-	-	-	356	728	7,761	24,228	4,864	16,015	60,797	101,432
19	72% to 76%	187,636	138,780	1.49	-	-	-	-	-	-	-	738	16,358	22,114	27,466	74,861	158,879
20	76% to 80%	137,665	39,747	1.61	-	-	-	-	-	-	254	1,550	1,750	1,841	12,861	21,490	-
21	80% to 84%	174,401	26,017	1.81	-	-	-	-	-	-	-	-	9,697	818	15,502	-	-
22	84% to 88%	188,398	19,532	1.98	-	-	-	-	-	-	-	-	1,234	12,184	5,837	-	-
23	88% to 92%	178,026	13,353	2.18	-	-	-	-	-	-	-	-	532	12,058	537	-	-
24	92% to 96%	202,538	2,589	2.46	-	-	-	-	-	-	-	-	226	2,062	-	-	-
25	96% to 100%	198,777	1,100	2.78	-	-	-	-	-	-	-	-	226	302	1,100	-	-
		4,621,580	3,353,549	(0.30)	359,980	152,261	151,272	197,925	176,162	152,826	142,780	201,350	174,787	204,355	147,239	225,653	266,657

Bill Impact Matrix for non TOU Proposed 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	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%	172,463	-	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	0.37	-	-	-	-	-	-	-	-	-	-	-	-	-
8	28% to 32%	184,539	4,842	0.65	-	-	-	-	-	-	-	-	-	-	-	-	-
9	32% to 36%	219,516	17,214	0.86	-	-	-	-	-	-	-	-	-	-	-	-	-
10	36% to 40%	252,792	26,808	0.98	-	-	-	-	-	-	-	-	-	-	-	-	-
11	40% to 44%	189,181	10,646	1.06	-	-	-	-	-	-	-	-	-	-	-	-	-
12	44% to 48%	159,239	7,582	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-
13	48% to 52%	190,670	24,875	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-
14	52% to 56%	169,433	22,043	1.21	-	-	-	-	-	-	-	-	-	-	-	-	-
15	56% to 60%	160,053	24,509	1.27	-	-	-	-	-	-	-	-	-	-	-	-	-
16	60% to 64%	195,388	38,788	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-
17	64% to 68%	196,272	21,293	1.37	-	-	-	-	-	-	-	-	-	-	-	-	-
18	68% to 72%	181,049	40,077	1.43	-	-	-	-	-	-	-	-	-	-	-	-	-
19	72% to 76%	187,636	48,856	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-
20	76% to 80%	137,665	97,918	1.63	-	-	-	-	-	-	-	-	-	-	-	-	-
21	80% to 84%	174,401	148,384	1.79	-	-	-	-	-	-	-	-	-	-	-	-	292
22	84% to 88%	188,398	168,866	1.97	-	-	-	-	-	-	-	-	-	439	403	27,156	6,795
23	88% to 92%	178,026	164,673	2.21	-	-	-	-	-	-	-	-	804	-	788	6,253	25,214
24	92% to 96%	202,538	199,949	2.47	-	-	-	-	-	-	-	-	-	6,233	4,392	10,819	35,848
25	96% to 100%	198,777	197,677	3.28	-	-	-	-	-	-	-	6,384	3,254	16,135	21,816	23,075	35,848
		4,621,580	1,268,031	2.07	-	-	-	-	-	-	-	6,384	4,058	22,806	26,612	61,838	74,392

Bill Impact Matrix for non TOU Proposed Rate Design - Non-CARE Customers					> 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	(10.88)	-	-	-	-	-	-	-	-	-	-	-	
2	4% to 8%	185,272	185,272	(4.25)	-	-	-	-	-	-	-	-	-	-	-	
3	8% to 12%	160,263	160,263	(2.70)	-	-	-	-	-	-	-	-	-	-	-	
4	12% to 16%	172,463	172,463	(1.57)	-	-	-	-	-	-	-	-	-	-	-	
5	16% to 20%	195,803	195,803	(0.75)	-	-	-	-	-	-	-	-	-	-	-	
6	20% to 24%	181,503	181,503	(0.16)	-	-	-	-	-	-	-	-	-	-	-	
7	24% to 28%	188,478	185,447	0.33	-	-	-	-	-	-	-	-	-	-	-	
8	28% to 32%	184,539	179,697	0.67	4,651	277	-	292	584	663	-	-	-	-	7,985	
9	32% to 36%	219,516	209,302	0.87	241	4,217	245	500	832	4,102	898	5,661	198	1,044	703	
10	36% to 40%	252,792	226,984	0.98	6,042	302	-	1,520	12,484	4,214	772	21,044	32,172	8,160	1,206	
11	40% to 44%	189,181	178,535	1.07	1,797	523	1,622	596	46,900	38,402	27,919	4,251	-	7,275	43,864	
12	44% to 48%	159,239	151,657	1.12	4,372	476	8,670	81,161	12,499	-	-	-	-	-	-	
13	48% to 52%	190,670	165,795	1.18	15,863	25,878	57,613	-	-	-	-	-	-	-	-	
14	52% to 56%	169,433	147,990	1.22	18,882	69,075	-	-	-	-	-	-	-	-	-	
15	56% to 60%	160,053	135,544	1.27	82,149	2,941	-	-	-	-	-	-	-	-	-	
16	60% to 64%	195,388	156,600	1.32	42,112	-	-	-	-	-	-	-	-	-	-	
17	64% to 68%	196,272	174,979	1.37	5,766	-	-	-	-	-	-	-	-	-	-	
18	68% to 72%	181,049	140,972	1.43	-	-	-	-	-	-	-	-	-	-	-	
19	72% to 76%	187,636	138,780	1.49	-	-	-	-	-	-	-	-	-	-	-	
20	76% to 80%	137,665	38,747	1.61	-	-	-	-	-	-	-	-	-	-	-	
21	80% to 84%	174,401	26,017	1.81	-	-	-	-	-	-	-	-	-	-	-	
22	84% to 88%	188,398	19,532	1.98	-	-	-	-	-	-	-	-	-	-	-	
23	88% to 92%	178,026	13,353	2.18	-	-	-	-	-	-	-	-	-	-	-	
24	92% to 96%	202,538	2,589	2.46	-	-	-	-	-	-	-	-	-	-	-	
25	96% to 100%	198,777	1,100	2.78	-	-	-	-	-	-	-	-	-	-	-	
		4,621,580	3,353,549	(0.30)	161,893	103,690	66,150	84,069	75,300	47,381	30,087	35,650	33,108	9,886	9,184	105,871

Bill Impact Matrix for non TOU Proposed Rate Design - CARE Customers					> 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	0.37	-	-	-	-	-	-	-	-	-	-	3,031	
8	28% to 32%	184,539	4,842	0.65	-	-	-	-	-	-	-	-	201	-	4,640	
9	32% to 36%	219,516	17,214	0.86	-	-	-	-	-	241	-	-	302	221	15,933	
10	36% to 40%	252,792	26,808	0.98	-	-	235	-	-	-	4,102	159	292	241	22,071	
11	40% to 44%	189,181	10,646	1.06	-	-	-	-	-	-	-	201	-	-	10,445	
12	44% to 48%	159,239	7,582	1.12	-	-	-	-	-	-	-	-	205	-	7,131	
13	48% to 52%	190,670	24,875	1.19	-	-	241	-	-	178	-	-	-	-	24,456	
14	52% to 56%	169,433	22,043	1.21	-	-	-	-	-	-	296	-	-	513	21,235	
15	56% to 60%	160,053	24,509	1.27	-	-	198	-	-	-	-	205	282	881	23,143	
16	60% to 64%	195,388	38,788	1.32	-	-	-	205	-	234	3,943	292	4,911	28,040	1,164	
17	64% to 68%	196,272	21,293	1.37	-	-	-	221	-	439	-	-	9,972	10,661	-	
18	68% to 72%	181,049	40,077	1.43	-	-	198	245	-	-	241	4,893	34,500	-	-	
19	72% to 76%	187,636	48,856	1.50	-	-	-	-	-	5,631	1,670	37,248	4,307	-	-	
20	76% to 80%	137,665	97,918	1.63	482	-	198	909	5,628	5,794	10,096	65,029	9,783	-	-	
21	80% to 84%	174,401	148,384	1.79	241	3,369	21,374	13,487	4,486	21,917	71,566	-	-	-	-	
22	84% to 88%	188,398	168,866	1.97	15,148	813	2,000	9,752	36,526	44,942	24,892	-	-	-	-	
23	88% to 92%	178,026	164,673	2.21	10,627	21,378	33,103	22,458	24,352	44,909	-	-	-	-	-	
24	92% to 96%	202,538	199,949	2.47	32,521	23,248	39,940	23,062	34,313	205	-	-	-	-	-	
25	96% to 100%	198,777	197,677	3.28	23,040	23,242	18,559	23,042	3,282	-	-	-	-	-	-	
		4,621,580	1,268,031	2.07	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 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	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	(12.27)	172,240	226	-	-	-	-	-	-	-	-	-	-	-	
2	4% to 8%		181,138	181,138	(4.82)	175,527	5,611	-	-	-	-	-	-	-	-	-	-	-	
3	8% to 12%		167,697	167,275	(3.07)	101,852	54,547	10,876	-	-	-	-	-	-	-	-	-	-	
4	12% to 16%		160,816	160,816	(1.74)	3,574	39,173	105,457	12,612	-	-	-	-	-	-	-	-	-	
5	16% to 20%		192,376	191,988	(0.84)	4,645	546	29,989	129,604	27,203	-	-	-	-	-	-	-	-	
6	20% to 24%		193,575	193,340	(0.20)	-	-	7,874	154,697	30,769	-	-	-	-	-	-	-	-	
7	24% to 28%		178,131	174,434	0.34	-	-	-	-	97,036	61,890	1,843	277	191	277	4,651	-	-	
8	28% to 32%		179,753	173,052	0.70	-	-	-	-	5,380	50,179	65,719	11,641	5,771	1,013	483	241	-	
9	32% to 36%		252,630	221,409	0.93	-	-	-	-	-	12,111	53,531	51,797	23,259	2,796	748	5,990	-	
10	36% to 40%		184,500	170,739	1.06	-	-	-	-	-	1,139	9,761	31,959	16,638	11,465	1,451	1,116	-	
11	40% to 44%		183,602	169,025	1.16	-	-	-	-	-	945	15,325	7,348	13,320	3,346	6,724	5,601	-	
12	44% to 48%		185,579	157,819	1.24	-	-	-	-	-	5,303	5,097	14,629	18,944	1,710	10,184	2,150	-	
13	48% to 52%		190,347	169,748	1.31	-	-	-	-	-	728	1,076	7,080	25,245	12,180	7,812	8,661	-	
14	52% to 56%		186,041	156,186	1.38	-	-	-	-	-	245	634	7,617	11,341	19,663	5,473	14,923	-	
15	56% to 60%		157,549	116,004	1.44	-	-	-	-	-	-	728	11,085	13,946	10,624	6,016	7,618	-	
16	60% to 64%		199,027	159,337	1.51	-	-	-	-	-	-	226	6,454	6,413	19,653	11,451	29,430	-	
17	64% to 68%		219,732	166,318	1.58	-	-	-	-	-	-	451	4,495	4,336	16,892	38,739	23,638	-	
18	68% to 72%		180,083	122,378	1.66	-	-	-	-	-	-	537	705	8,078	9,345	13,957	29,805	-	
19	72% to 76%		201,202	117,363	1.73	-	-	-	-	-	-	1,309	1,355	550	13,384	13,946	21,965	-	
20	76% to 80%		174,506	76,535	1.84	-	-	-	-	-	-	597	4,325	819	12,014	4,075	12,530	-	
21	80% to 84%		152,615	51,827	1.98	-	-	-	-	-	-	477	720	624	6,764	4,448	8,180	-	
22	84% to 88%		157,659	22,658	2.19	-	-	-	-	-	-	-	801	8,197	1,603	1,953	4,567	-	
23	88% to 92%		187,112	37,051	2.37	-	-	-	-	-	-	-	4,651	526	226	12,327	3,684	9,692	-
24	92% to 96%		186,396	13,374	2.72	-	-	-	-	-	-	-	-	480	700	2,632	5,986	2,631	-
25	96% to 100%		197,049	11,271	3.15	-	-	-	-	-	-	-	-	480	302	2,442	7,361	410	-
			4,621,580	3,353,549	(0.32)	457,838	100,103	146,321	150,091	181,900	133,184	132,541	161,962	163,776	158,898	160,130	149,143	189,147	

Bill Impact Matrix for TOU Proposed 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	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	(2.77)	-	-	-	-	421	-	-	-	-	-	-	-	-	-	
4	12% to 16%		160,816	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	16% to 20%		192,376	389	(0.51)	-	-	-	-	389	-	-	-	-	-	-	-	-	-	
6	20% to 24%		193,575	235	(0.26)	-	-	-	-	235	-	-	-	-	-	-	-	-	-	
7	24% to 28%		178,131	3,697	0.39	-	-	-	-	-	389	-	-	-	-	-	-	-	-	
8	28% to 32%		179,753	6,701	0.69	-	-	-	-	-	241	-	-	-	-	-	-	-	-	
9	32% to 36%		252,630	31,221	0.94	-	-	-	-	-	235	720	-	-	-	-	-	-	-	
10	36% to 40%		184,500	13,761	1.06	-	-	-	-	-	389	282	201	-	-	-	-	-	-	
11	40% to 44%		183,602	14,577	1.15	-	-	-	-	-	204	-	-	-	-	-	-	-	-	
12	44% to 48%		185,579	27,760	1.25	-	-	-	-	-	-	226	-	-	-	241	-	-	-	
13	48% to 52%		190,347	20,599	1.31	-	-	-	-	-	-	589	178	205	-	-	-	-	-	
14	52% to 56%		186,041	29,855	1.38	-	-	-	-	-	-	-	-	452	9,903	282	-	-	-	
15	56% to 60%		157,549	41,545	1.44	-	-	-	-	-	-	405	-	-	277	282	241	-	-	
16	60% to 64%		199,027	39,690	1.51	-	-	-	-	-	-	336	-	241	5,510	1,489	241	191	-	
17	64% to 68%		219,732	53,413	1.58	-	-	-	-	-	-	-	480	1,101	389	9,029	4,665	-	-	
18	68% to 72%		180,083	57,705	1.65	-	-	-	-	-	-	-	-	286	-	5,530	555	5,926	-	
19	72% to 76%		201,202	83,839	1.74	-	-	-	-	-	-	-	5,345	974	709	-	836	205	-	
20	76% to 80%		174,506	97,971	1.84	-	-	-	-	-	-	-	389	1,091	1,014	1,145	559	493	-	
21	80% to 84%		152,615	100,788	2.00	-	-	-	-	-	-	-	-	855	814	1,507	12,312	1,444	-	
22	84% to 88%		157,659	135,001	2.18	-	-	-	-	-	-	4,651	432	286	5,889	1,539	2,766	2,848	-	
23	88% to 92%		187,112	150,061	2.38	-	-	-	-	-	-	-	248	-	4,916	1,108	2,694	7,057	3,485	-
24	92% to 96%		186,396	173,022	2.74	-	-	-	-	-	-	-	-	239	1,009	1,209	11,392	2,462	8,927	-
25	96% to 100%		197,049	185,778	3.55	-	-	-	-	-	-	-	-	451	5,090	1,531	3,080	16,133	9,587	-
			4,621,580	1,268,031	2.19	-	-	-	-	1,046	1,736	7,456	7,714	16,507	27,877	38,205	47,591	33,337		

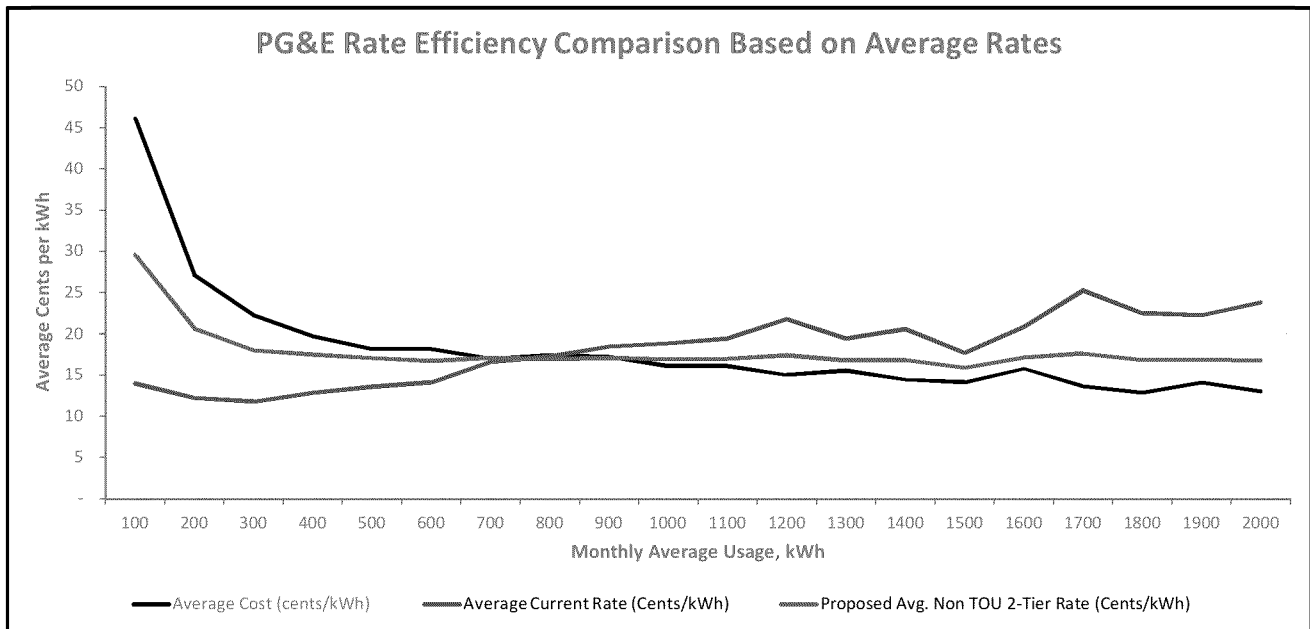
Bill Impact Matrix for TOU Proposed Rate Design - Non-CARE Customers					> 40% to 45%	> 45% to 50%	> 50% to 55%	> 55% to 60%	> 60% to 65%	> 65% to 70%	> 70% to 75%	> 75% to 80%	> 80% to 85%	> 85% to 90%	> 90% to 95%	Above 95%
Sample Bin in Increasing Order of Bill Impact	Percent of Sample	Count of All Customers	Count of Non-CARE Customers	Non-CARE Average Monthly Bill Change												
1	0% to 4%	172,466	172,466	(12.27)	-	-	-	-	-	-	-	-	-	-	-	-
2	4% to 8%	181,138	181,138	(4.82)	-	-	-	-	-	-	-	-	-	-	-	-
3	8% to 12%	167,697	167,275	(3.07)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	160,816	(1.74)	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	191,986	(0.84)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	193,340	(0.20)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	178,131	174,434	0.34	-	-	-	-	235	-	-	-	-	-	-	8,287
8	28% to 32%	179,753	173,052	0.70	730	-	490	821	-	1,015	463	4,088	768	1,006	1,024	22,335
9	32% to 36%	252,630	221,409	0.93	810	245	3,664	4,102	178	302	4,498	439	5,300	5,197	198	46,138
10	36% to 40%	184,500	170,739	1.06	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%	183,602	169,025	1.16	12,313	637	5,240	5,752	8,057	13,688	24,497	12,120	20,195	3,821	6,586	7,612
12	44% to 48%	185,579	157,819	1.24	1,739	2,253	5,240	11,159	32,943	12,329	14,834	11,917	437	526	-	6,003
13	48% to 52%	190,347	169,748	1.31	2,677	4,971	20,332	17,450	23,510	19,822	1,059	8,842	205	4,670	-	-
14	52% to 56%	186,041	156,186	1.38	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	1.44	11,213	27,650	20,772	3,775	1,926	444	205	-	-	-	-	-
16	60% to 64%	199,027	159,337	1.51	38,838	29,555	9,055	2,902	781	4,260	302	-	-	-	-	-
17	64% to 68%	219,732	166,318	1.58	30,089	19,082	14,001	6,137	8,513	-	-	-	-	-	-	-
18	68% to 72%	180,083	122,378	1.66	29,030	27,250	2,948	737	-	-	-	-	-	-	-	-
19	72% to 76%	201,202	117,363	1.73	32,474	17,408	13,575	660	-	669	-	-	-	-	-	-
20	76% to 80%	174,506	76,535	1.84	16,284	14,646	2,172	5,403	3,700	-	-	-	-	-	-	-
21	80% to 84%	152,615	51,827	1.98	16,719	6,470	675	493	-	6,003	-	-	-	-	-	-
22	84% to 88%	157,659	22,658	2.19	3,262	2,055	221	-	-	-	-	-	-	-	-	-
23	88% to 92%	187,112	37,051	2.37	4,914	733	299	-	-	-	-	-	-	-	-	-
24	92% to 96%	186,396	13,374	2.72	946	-	-	-	-	-	-	-	-	-	-	-
25	96% to 100%	197,049	11,271	3.15	277	-	-	-	-	-	-	-	-	-	-	-
		4,621,580	3,353,549	(0.32)	208,315	189,931	126,277	79,708	96,357	61,593	52,360	40,257	37,435	35,485	14,895	126,103

Bill Impact Matrix for TOU Proposed Rate Design - CARE Customers					> 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 Monthly 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	(2.77)	-	-	-	-	-	-	-	-	-	-	-	-
4	12% to 16%	160,816	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-
5	16% to 20%	192,376	389	(0.51)	-	-	-	-	-	-	-	-	-	-	-	-
6	20% to 24%	193,575	235	(0.26)	-	-	-	-	-	-	-	-	-	-	-	-
7	24% to 28%	178,131	3,697	0.39	-	-	-	-	-	-	-	-	-	-	-	3,031
8	28% to 32%	179,753	6,701	0.69	235	-	-	-	-	-	427	-	-	292	-	5,507
9	32% to 36%	252,630	31,221	0.94	-	-	-	-	4,343	-	-	361	302	-	-	25,261
10	36% to 40%	184,500	13,761	1.06	198	-	241	-	-	-	-	-	245	-	-	12,407
11	40% to 44%	183,602	14,577	1.15	-	-	198	-	-	-	-	178	-	-	-	13,795
12	44% to 48%	185,579	27,760	1.25	-	245	-	205	-	241	431	296	-	-	483	25,392
13	48% to 52%	190,347	20,599	1.31	-	-	-	-	299	198	-	3,463	-	-	-	15,667
14	52% to 56%	186,041	29,855	1.38	-	198	-	-	255	-	-	-	255	241	520	17,750
15	56% to 60%	157,549	41,545	1.44	198	255	-	3,716	-	201	205	-	4,581	-	627	30,557
16	60% to 64%	199,027	39,690	1.51	241	-	419	198	-	3,959	-	282	717	701	3,427	21,739
17	64% to 68%	219,732	53,413	1.58	-	241	-	396	976	-	-	205	617	1,213	11,385	22,717
18	68% to 72%	180,083	57,705	1.65	840	4,267	4,584	1,073	292	822	900	714	928	2,440	7,446	21,101
19	72% to 76%	201,202	83,839	1.74	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%	174,506	97,971	1.84	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%	152,615	100,788	2.00	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%	157,659	135,001	2.18	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%	187,112	150,061	2.38	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	2.74	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	3.55	22,950	31,270	19,672	26,906	7,694	20,471	10,785	7,018	1,143	1,282	714	-
		4,621,580	1,268,031	2.19	64,975	78,478	63,573	89,848	68,850	74,549	82,499	100,208	89,190	80,298	80,395	239,697

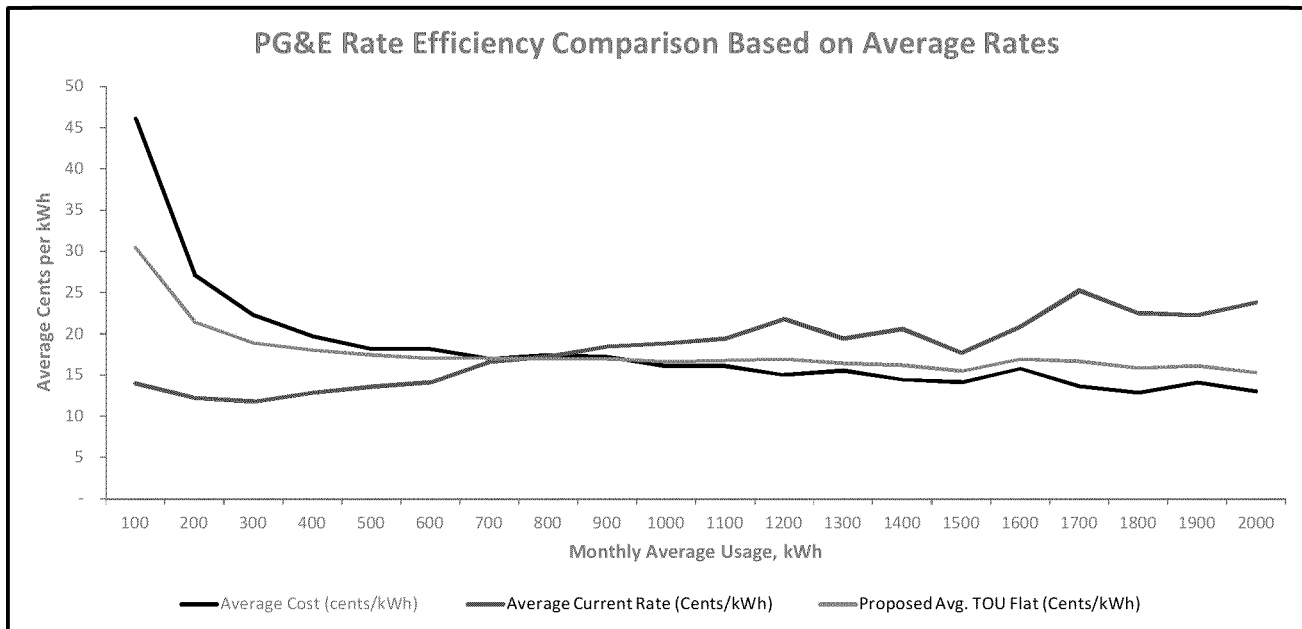
PG&E Bill Impact Tables by Load Factor and Income Ranges

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%

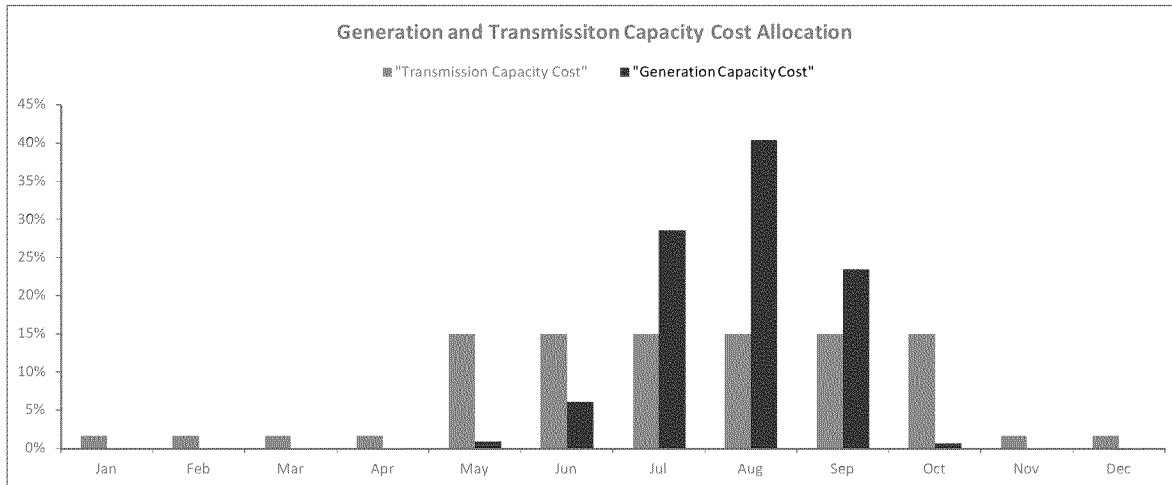


Cost of Service vs. Current and Proposed Rate Designs					
Average Monthly Usage	Average Cost (cents/kWh)	Average Current Rate (Cents/kWh)	Proposed Avg. TOU Flat (Cents/kWh)	Percent Change-Current	Percent Change-Proposed TOU
100	46.07	13.99	30.50	-70%	-34%
200	27.17	12.25	21.49	-55%	-21%
300	22.30	11.81	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							
Monthly Average Bill					Difference from Cost		
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	\$16.87	\$31.85	\$33.11	(\$22.98)	(\$10.01)	(\$8.75)
300	\$55.68	\$29.49	\$44.97	\$47.09	(\$26.19)	(\$10.71)	(\$8.59)
400	\$69.18	\$45.10	\$61.80	\$63.24	(\$24.09)	(\$7.89)	(\$5.96)
500	\$80.59	\$60.09	\$75.69	\$77.32	(\$20.50)	(\$4.90)	(\$3.27)
600	\$99.39	\$77.53	\$91.81	\$93.27	(\$21.86)	(\$7.77)	(\$6.12)
700	\$109.91	\$107.56	\$110.60	\$110.38	(\$2.35)	\$0.69	\$0.48
800	\$130.28	\$129.06	\$126.65	\$126.68	(\$1.22)	(\$3.63)	(\$3.60)
900	\$145.42	\$156.67	\$144.91	\$143.96	\$11.28	(\$0.51)	(\$1.46)
1000	\$153.50	\$179.83	\$161.33	\$158.58	\$26.33	\$7.84	\$5.08
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	\$261.64	\$258.40	\$78.01	\$20.46	\$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	\$168.79	\$79.23	\$52.65
1900	\$261.08	\$412.02	\$312.67	\$297.44	\$150.94	\$51.58	\$36.36
2000	\$321.86	\$589.91	\$414.65	\$378.93	\$266.95	\$92.69	\$66.98
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	\$223,376,486.32	\$109,715,673.17	\$169,983,366.78	\$176,895,399.88	(\$122,660,813.15)	(\$53,393,119.54)	(\$46,661,086.44)
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	\$681,219,178.63	\$444,041,762.34	\$603,579,279.52	\$622,667,176.88	(\$237,174,416.29)	(\$77,837,900.11)	(\$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	\$628,660,211.63	\$490,380,641.64	\$579,485,946.96	\$589,961,808.53	(\$138,279,369.99)	(\$49,174,264.67)	(\$38,698,403.19)
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	\$536,234,945.89	\$531,414,446.09	\$521,477,965.02	\$521,631,465.62	(\$5,020,499.80)	(\$14,956,880.87)	(\$14,803,480.27)
900	\$401,923,685.36	\$433,022,186.01	\$400,509,143.65	\$397,884,316.20	\$31,178,691.99	(\$1,414,541.70)	(\$4,039,369.15)
1000	\$220,817,383.58	\$258,699,088.36	\$232,089,851.17	\$229,130,267.08	\$57,681,704.74	\$11,272,487.39	\$7,812,833.50
1100	\$203,030,176.31	\$246,197,209.43	\$215,016,966.17	\$212,550,300.39	\$43,167,033.12	\$11,985,789.85	\$9,520,124.08
1200	\$192,473,235.61	\$279,838,732.67	\$223,325,266.87	\$216,945,806.36	\$37,363,497.08	\$30,852,031.26	\$24,472,570.76
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	\$123,242,062.88	\$46,896,354.92	\$18,164,044.95	\$13,315,949.59
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	\$36,329,154.62	\$43,068,052.67	\$39,405,056.48	\$38,687,248.82	\$11,739,898.05	\$3,076,901.88	\$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	\$24,617,323.66	\$18,447,160.93	\$17,346,702.41	\$10,566,784.52	\$4,396,611.80	\$3,296,193.29
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	\$146,769,736.08	\$268,501,827.91	\$189,039,563.60	\$172,752,028.68	\$121,731,891.89	\$42,269,827.80	\$26,982,292.62
Total	\$5,201,865,289	\$4,803,797,581	\$5,036,421,209	\$5,052,052,314	(\$397,987,516)	(\$165,444,080)	(\$149,812,975)

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

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	28,574,946,472
Conserved kWh		550,987,603	626,645,630
Percent conserved		1.89%	2.15%

5-Tiered Rates	Non TOU Rate		TOU Rate				
	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	2,066,825,123	785,311,551
Tier-2	2,448,663,859	861,927,586	2,345,115,357	771,561,172	Summer, part-peak	2,274,261,197	811,429,334
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	2,109,430,286
Tier-4	1,695,693,048		1,858,858,576		Winter, part-peak	1,224,223,992	386,610,265
Tier-5	944,390,972		1,035,263,581		Winter, off-peak	9,634,036,598	3,146,922,464
Total	21,346,682,036	7,854,910,066	21,390,743,304	7,259,861,195	Total	21,335,242,573	7,239,703,900

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	744	2,238,781,941	2,915,081	\$0.15183	\$0.258094	-7.68%	2,066,825,123	(171,956,819)
Partial-Peak	1,632	2,337,643,677	2,440,025	\$0.15183	\$0.198534	-2.71%	2,274,261,197	(63,282,480)
Off-Peak	2,040	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)

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	1,632	1,279,072,314	3,357,145	\$0.15183	\$0.17868	-4.29%	1,224,223,992	(54,848,322)
Off-Peak	2,040	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	744	849,221,277	1,105,757	\$0.12147	\$0.20648	-7.53%	785,311,551	(63,924,826)
Partial-Peak	1,632	832,608,643	869,111	\$0.12147	\$0.15883	-2.55%	811,429,334	(21,194,113)
Off-Peak	2,040	2,053,840,519	763,509	\$0.12147	\$0.12217	2.70%	2,109,430,286	55,553,248
Total	4,416	3,735,670,439					3,706,171,171	(29,565,691)

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	1,632	403,980,060	1,060,315	\$0.12147	\$0.14294	-4.30%	386,610,265	(17,376,979)
Off-Peak	2,040	3,120,210,695	787,336	\$0.12147	\$0.10996	0.85%	3,146,922,464	26,656,289
Total	4,344	3,524,190,756					3,533,532,729	9,279,310