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PACIFIC GAS AND ELECTRIC COMPANY

AMENDED UPDATE TO PREPARED TESTIMONY SUBMITTED ON NOVEMBER 8, 2019

2020 ENERGY RESOURCE RECOVERY ACCOUNT AND GENERATION NON-BYPASSABLE CHARGES FORECAST AND GREENHOUSE GAS FORECAST REVENUE RETURN AND RECONCILIATION

PUBLIC VERSION

PACIFIC GAS AND ELECTRIC COMPANY
UPDATE TO PREPARED TESTIMONY
NOVEMBER 8, 2019

TABLE OF CONTENTS

A. Pacific Gas and Electric Company's November Update of the 2020 Forecast Revenue Requirements 1

B. PG&E's November Update Compared to June 3, 2019 Prepared Testimony 3

1. Departing Load Forecasts 3

a. Municipal, Split-Wheeling, Customer Generation, and New Western Area Power Administration Forecasts 3

b. Direct Access Forecast 3

c. Community Choice Aggregation Load Forecasts 4

d. Impact to Bundled Sales 5

2. GTSR Program 5

3. Updated Electric and Gas Prices, Generation Portfolio, Hedging Costs, and Collateral Costs 6

4. Generation Non-Bypassable Charges (NBCs) 6

a. Updated Market Price Benchmarks 7

b. General Rate Case (GRC) Costs Forecast Assumption Update 8

5. Updated 2019 End-of-Year Balancing Account Forecasts 8

a. Portfolio Allocation Balancing Account (PABA) 8

1) PCIA Billed Revenue 8

2) Portfolio Costs 9

3) Energy Value 9

4) 2019 Final RPS Market Value 10

5) 2019 Final RA Market Value 10

6) One-time Adjustments 11

b. Energy Resource Recovery Account 11

1) System-level Billing Determinants for 2019 PCIA Rates 12

TABLE OF CONTENTS
(CONTINUED)

2) Actual Market Prices 12
3) GRC Costs 12
4) Additional RPS Sales 12
5) Updated RA and RPS Adders 13
6) Unsold RA and RPS 13
c. ERRA Trigger 13
6. Electric Rates 13
a. Introduction 13
b. Capped PCIA Rates 14
1) Rate Design Proposal 14
2) November Update PCIA Results 15
3) Revenue Deferral Resulting from Capped Rates 17
4) PUBA Trigger and Trigger Threshold 18
5) Alternate Rate Design Pending a Decision in PG&E's 2018 ERRA Compliance Review Proceeding Approving 2018 Prior Period Adjustments Recorded to the ERRA, MTCBA, and NSGBA 18
7. Updated GHG Forecast Revenue and Reconciliation 20
a. GHG A&O Expenses 20
b. Low Income and Disadvantaged Community Solar Programs Funded in Whole or in Part from the GHG Allowance Revenues 20
c. Forecast 2020 GHG Revenue Return Calculation 22
C. Confidentiality 22
D. Conclusion 23
Attachment A: Illustrative Total Rates by Class AtchA-1
Appendix A: GHG History of Revenue, Costs and Emissions Intensity (Template D-5) AppA-1

INDEX OF TABLES

Table A: Summary of 2020 GHG Costs and Revenues 2

Table B: 2019 Final PCIA Adders for PG&E 7

Table C: 2020 Forecast PCIA Adders for PG&E 7

Table D: 2019 ERRA Forecast PCIA Rates (with DWR Franchise Fee) - Advice 5527-E-B 17

Table E: Proposed 2020 PCIA Rates By Vintage – Capped Vintages 2009-2019 and Uncapped Vintage for 2020 (Less DWR Franchise Fees) 18

Table F: Class Specific PCIA Rates for CAM Adjustment 19

Table 1-1: Summary of 2020 Forecast Energy Procurement Revenue Requirements 2

Table 2-2: 2020 Departed Load Sales Estimated by Category (MWh) 24

Table 2-3: 2020 Energy (GWH) and Peak Demand (MW) Requirements 26

Table 3-1: 2020 Capacity Balance (MW) 27

Table 3-2: 2020 Energy Requirements (GWh) 29

Table 3-3: 2020 Procurement Costs ($ Millions) 32

Table 3-4: 2020 Forward Electric and Natural Gas Prices 34

Table 4-1: Summary of 2020 Fossil Fuel Expense Forecast (Thousands of Dollars) 35

Table 4-2: 2020 Nuclear Fuel Expense Forecast (Thousands of Dollars) 35

Table 4-3: Summary of 2020 UOG Fuel Cost Forecast (Thousands of Dollars) 35

Table 5-1: Summary of 2020 Monthly Purchased Power Cost Forecast 36

Table 6-1: 2020 Post-2002 Contracted Resources ($ Millions) 37

Table 7-1: Forecast of Natural Gas and Electric Hedge Transaction Costs ($ Millions) 38

Table 7-2: Summary of 2020 Forecast Collateral Costs (Thousands of Nominal Dollars) 38

Table 7-3: 2020 Procurement Costs ($ Millions) 39

Table 8-1: 2020 CAM Forecast Revenue Requirement (Thousands of Dollars) 40

INDEX OF TABLES
(CONTINUED)

Table 9-1: 2018 and 2019 Non-Bypassable Charge Revenue Requirement (Millions of Dollars) 41

Table 9-2: Total Portfolio Indifference Variance (Millions of Dollars) 42

Table 9-3: 2020 Indifference Calculation 43

Table 10-1: Summary of 2020 CTC Ongoing Forecast Electric Procurement Revenue Requirement Request (Thousands of Dollars) 44

Table 11-1: 2020 TMNBC Revenue Requirement Forecast (Thousands of Dollars) 44

Table 11-2: BioRAM Memo Account Entries Through May 2019 45

Table 11-3: BioRAM Memo Account Entries Through May 2019 45

Table 11-4: Tree Mortality Non-Bypassable Charge Balancing Account (TMNBCBA) 45

Table 11-5: Tree Mortality Non-Bypassable Charge Revenue Requirement 46

Table 12-1: 2020 Revenue Requirement (Thousands of Dollars) 46

Table 13-1B: (Template D-1): Annual Allowance Revenue Receipts and Customer Returns (Thousands of Dollars) 47

Table 13-2B: GTSR Program – 2019 E-ECR Option 48

Table 14-2: 2019 Forecast Year End Balances (Thousands of Dollars) 49

Table 14-3: 2019 Forecast Year End PABA Balances (Thousands of Dollars) 50

Table 15-1: Confidential Annual GHG Emissions and Associated Costs (Template D-2) 51

Table 15-2: Illustrative Annual GHG Emissions and Associated Costs (Template D-2) 52

Table 15-3: Reporting Template To Calculate Weighted Average Cost of Compliance Instruments and Direct Costs (Template C-1 of Revised Attachment C of D.19-04-016) 53

Table 16-3: Detail of Administrative and Outreach Expenses (Template D-3) (Thousands of Dollars) 56

Table 17-1: Update to Forecasted Budgets for GHG Funded Customer Generation Programs (Millions of Dollars) 21

Table 17-4: Template D-1: Annual Allowance Revenue Receipts and Customer Returns (Thousands of Dollars) 57

INDEX OF TABLES
(CONTINUED)

Table 17-5: Forecast Revenue Requirement and Revenues by Rate Schedule (Template D-4) 59

Table 19-1: 2020 Average Generation Rates for Bundled Customers reflecting Revenues from Capped PCIA Rates on Table 19-3.2 60

Table 19-2: 2020 Competitive Transition Charge (CTC) Rates 60

Table 19-3.1: 2020 Uncapped PCIA Rates Using Vintaged Billing Determinants 16, 61

Table 19-3.2: Proposed Capped PCIA Rates (2009 – 2019 Vintages) and Uncapped PCIA Rates (2020 Vintage) ……. 17, 61

Table 19-3.3: 2020 Uncapped PCIA Rates including CAM Adjustment 62

Table 19-4: 2020 New System Generation Charge (NSGC) Rates 63

Table 19-5: 2020 Tree Mortality Non-Bypassable Charge (TMNBC) Rates (Recovered Through Public Purpose Program Rate And Detailed In Preminary Statement – Part I) 63

PACIFIC GAS AND ELECTRIC COMPANY
UPDATE TO PREPARED TESTIMONY
NOVEMBER 8, 2019

A. Pacific Gas and Electric Company's November Update of the 2020 Forecast Revenue Requirements

In compliance with the Assigned Commissioner's Scoping Memo and Ruling issued on August 22, 2019,[1] Pacific Gas and Electric Company (PG&E) submits, to the California Public Utilities Commission (CPUC or Commission) and the parties in this proceeding, its November Update to Prepared Testimony (November Update). This revised 2020 Energy Resource Recovery Account (ERRA) and Generation Non-Bypassable Charges Forecast and Greenhouse Gas (GHG) Forecast Revenue and Reconciliation testimony reflects market conditions closer to the time when 2020 rates will go into effect and updates to the forecasted year end balancing account balances.

Based on this November Update, PG&E's total 2020 electric procurement forecast for rate setting purposes is $5,359 million, consisting of the following revenue requirements: $205 million for Cost Allocation Mechanism (CAM), $3,256 million for Power Charge Indifference Adjustment (PCIA), $112 million for Ongoing Competition Transition Charge (Ongoing CTC), $102 million for Tree Mortality Non-Bypassable Charge (TMNBC), and $1,683 million for ERRA. These forecast revenue requirements are shown below in Table 1-1.[2]

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1 "Assigned Commissioner's Scoping Memo and Ruling," issued August 22, 2019 (Scoping Memo), p. 4.

2 The forecast revenue requirements are calculated using the Revenue Fees and Uncollectibles (RF&U) factor reflected in PG&E's Advice 4020-G/5389-E.

TABLE 1-1
SUMMARY OF 2020 FORECAST ENERGY PROCUREMENT REVENUE REQUIREMENTS
(THOUSANDS OF DOLLARS)

Line No.		2020 Cost With Revenue Fees and Uncollectibles [a] (A)	2019 Year End Balance [c] (B)	Total 2020 Revenue Requirement (C) = (A) + (B)
1	CAM/NSGC	$161,578	$43,784	$205,361
2	PCIA/PABA	2,644,093	611,411	3,255,504
3	Ongoing CTC/MTCBA	79,915	32,474	112,390
4	TMNBC	36,163	66,217	102,380
5	ERRA	2,405,933	(722,835)	1,683,098
6	Revenue Requirement for Rate Setting	$5,327,682	$31,050	$5,358,732
7	Less: UOG-Related Costs [b]	(2,344,587)		(2,344,587)
8	2020 ERRA Application Revenue Requirement Request	$2,983,095	$31,050	$3,014,145

Notes:
(a) Costs exclude GTSR Program Costs.
(b) UOG-Related Costs in the revenue requirement components is solely for rate-setting purposes, and PG&E does not request approval of these costs in this Application.
(c) The year-end balancing account balances recovered in rates through the AET, and or subsequent rate change advice letter.
Totals may not add due to rounding.

The total revenue requirement for rate setting of $5,359 million set forth above includes $2,345 million of utility owned generation (UOG)-related costs based on PG&E's 2017 General Rate Case (GRC) or approvals in other CPUC decisions. The inclusion of the UOG-related costs is solely for rate setting purposes, and PG&E does not request approval of these costs in this Application. PG&E is requesting the CPUC adopt its 2020 ERRA Application revenue requirement of $3,014 million, which excludes $2,345 million of UOG-related costs.

In addition, based on this November Update, the GHG portion of PG&E's Application and Prepared Testimony is updated as follows:

TABLE A
SUMMARY OF 2020 GHG COSTS AND REVENUES

Line No.	GHG-Related Forecasts and Administrative and Outreach Expenses	November Update Amount
1	GHG A&O Expenses	$1.065 million
2	Net GHG revenue return[a]	$393 million
3	Semi-Annual Residential California Climate Credit (Semi-Annual CCC)	$36.75

(a) The Net GHG revenue return is calculated using the RF&U reflected in PG&E's Advice 4020-G/5389-E.

The 2018 recorded GHG utility Administrative and Outreach (A&O) expenses are $901,000.

B. PG&E's November Update Compared to June 3, 2019 Prepared Testimony

On June 3, 2019, PG&E filed its 2020 ERRA and Generation Non-Bypassable Charges Forecast and GHG Forecast Revenue Return and Reconciliation Application. The primary updates to the forecasts in the Prepared Testimony, reflected in this November Update, are updated Community Choice Aggregation (CCA) and Direct Access (DA) load forecasts, updated forecasts for Green Tariff Shared Renewables (GTSR) Program procurement, refreshed forward gas and electricity market prices, generation portfolio updates, final 2019 Market Price Benchmarks (MPBs) and Forecast 2020 MPBs for certain non-bypassable charges, GHG Forecast Revenue Return and Reconciliation updated information, and a more recent estimate of year-end balancing account balances. Based on these updates, described in more detail below, this November Update replaces tables that were submitted with PG&E's Application and Prepared Testimony. Each item that has been updated in this November Update is described below.

1. Departing Load Forecasts

a. Municipal, Split-Wheeling, Customer Generation, and New Western Area Power Administration Forecasts

In PG&E's Prepared Testimony, Table 2-2 included historical departing load data through 2018 in five categories,[3] excluding CCA and DA, with a note that the information in the table would be updated in PG&E's November Update. Table 2-2 has been updated to include recorded data through the first quarter of 2019.

b. Direct Access Forecast

PG&E's Prepared Testimony stated that it:

> …intends to update its DA forecast to reflect a final decision, if any, in the November Update, including changes based on the SB 237

[3] The five departing load types that rely on historical annual sales estimates include Transferred Municipal, New Municipal, Customer Generation, New Western Area Power Administration, and Split-Wheeling.

decision and assignment of DA load to CCA and bundled customers.[4]

In its Prepared Testimony, PG&E assumed departing load associated with Senate Bill (SB) 237[5] DA expansion would occur in January 2020. On May 30, 2019, the Commission issued Decision (D.) 19-05-043 adopting the Commission's SB 237 implementation related to DA. Under D.19-05-043, the Commission delayed the service date for customers who enroll in the DA expansion from January 1, 2020 to January 1, 2021.[6]

PG&E has revised its DA load forecast to align with the decision. The forecast does not include any new enrollments in DA in 2020. It relies on historical billing data from July 2018 – June 2019 that indicates PG&E's existing DA customers had an annual usage of approximately 9,405 gigawatt-hour (GWh). The total load forecast for DA usage in 2020 is 9,405 GWh.

c. Community Choice Aggregation Load Forecasts

PG&E's Prepared Testimony stated that it:

> … will provide its most up to date CCA forecast in the November Update, including changes based on the SB 237 decision.[7]

As part of PG&E's 2020 ERRA Forecast Application, PG&E conducted a second meet-and-confer process[8] to update the CCA load forecast information. PG&E submitted e-mail requests on August 1, 2019 for load, peak demand, and customer forecasts from all existing CCAs providing service in PG&E's service territory. PG&E corresponded with all 12 CCAs in PG&E's service territory during the meet-and-confer process from August 8, 2019 to September 15, 2019. Ten CCAs provided updated load forecasts. Two CCAs indicated that there was no change from the forecast provided in the Q1 2019 meet-

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4 PG&E's Prepared Testimony at p. 2-16, lines 22-25.

5 SB 237, Stats. 2018, Ch. 600.

6 D.19-05-043, p. 2.

7 PG&E's Prepared Testimony at p. 2-18, lines 5-7.

8 D.16-12-038, Ordering Paragraph (OP) 3.

and-confer process. For CCAs submitting updates, PG&E reviewed the CCA's forecast and compared it against PG&E's internal forecast for CCA load for reasonableness.

For the 10 CCAs that submitted an updated load forecast in the meet-and-confer process, PG&E is reflecting the CCA-provided, updated forecast in the November Update.[9] For the two CCAs not providing an updated forecast, PG&E used the CCA-provided load forecast from the June ERRA forecast filing.[10] There was no adjustment to these forecasts for DA because of the delayed expansion. CCA energy requirements are shown in Table 2-3.

d. Impact to Bundled Sales

As a result of the departed load update, the revised bundled electricity sales forecast for 2020 is expected to be six percent lower than the forecast adopted in D.19-02-023, which approved PG&E's 2019 ERRA Forecast Application 18-06-001. In total, PG&E expects CCA and DA providers to serve over 54 percent of PG&E's system retail sales in 2020. Energy and peak load requirements are shown in Table 2-3.

2. GTSR Program

The tariffs for Schedules E-GT and E-ECR have been updated for the November Update, and the updated rates are reflected in updated Tables 13-1B and 13-2B, along with the load PG&E expects to serve under Schedule E-GT and E-ECR in 2020. The resulting forecast of costs has been excluded from the ERRA revenue requirement request presented in Chapter 18.

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9 The 10 CCAs that updated their Q1 2019 forecasts are: (1) Sonoma Clean Power Authority, (2) Clean Power San Francisco, (3) Silicon Valley Clean Energy Authority, (4) Redwood Coast Energy Authority, (5) Pioneer Community Energy, (6) Monterey Bay Community Power, (7) East Bay Community Energy, (8) San Jose Clean Energy, (9) Valley Clean Energy Alliance, and (10) King City Community Power.

10 Marin Clean Energy and Peninsula Clean Energy Authority indicated that there were no changes from the forecast provided in the Q1 2019 meet-and-confer process. For both CCAs, PG&E used the CCA-provided forecasts that were included in the June ERRA forecast filing.

On October 30, 2018, PG&E submitted Advice 5414-E requesting a 2019 rate change to the GTSR Program Electric Rate Schedules, E-GT and E-ECR. After discussions with Energy Division, PG&E agreed to withdraw this advice letter and submitted the withdrawal on August 13, 2019 given the delay in implementing PG&E's 2019 ERRA Forecast Application.

3. Updated Electric and Gas Prices, Generation Portfolio, Hedging Costs, and Collateral Costs

PG&E refreshed the economic dispatch modeling, described in its Prepared Testimony on pages 3-6 to 3-7, using electric and gas price forwards calculated within 45 days of PG&E's service of the November Update. For this November Update, PG&E is using September 19, 2019 forward electricity and natural gas prices, which are summarized by month in Table 3-4.

Consistent with prior November Updates, PG&E has updated its generation portfolio to reflect actual and expected contract additions, as well as changes to resources in the existing portfolio. For ratemaking purposes only, PG&E has also incorporated the Electric Supply Administration (ESA) GRC costs allocated to ERRA.[11]

PG&E also updated hedging and collateral costs forecasts included in Tables 3-3, 7-1 and 7-2. PG&E's forecasted 2020 hedging transactions are consistent with its Hedging Plan and the temporary management described in PG&E's Advice 5507-E.

4. Generation Non-Bypassable Charges (NBCs)

PG&E updated the 2020 forecast revenue requirements associated with the Generation NBCs discussed in the Prepared Testimony, Chapter 8 (CAM), Chapter 9 (PCIA), Chapter 10 (Ongoing CTC) and Chapter 11 (Tree Mortality). The tables and forecasts for the Ongoing CTC and PCIA in PG&E's testimony have been updated to reflect the Final MPBs for 2019 and the 2020 Forecast MPBs for the Energy Index, Resource Adequacy (RA) Adder, and Renewable Portfolio Standard (RPS) Adder provided by the Energy Division on November 1, 2019 and calculated by the methodologies authorized in D.19-10-001.

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11 ESA costs authorized in D.17-05-013 and allocation in D.18-10-019 and Advice 5440-E.

a. Updated Market Price Benchmarks

The updated market price benchmarks provided by the CPUC are provided below along with a description of each.

TABLE B
2019 FINAL PCIA ADDERS FOR PG&E

Line No.	Description	Benchmarks
1	Resource Adequacy ($/kW-month)	
2	System RA	$2.77
3	Local RA	$3.19
4	Flexible RA	$2.78
5	Renewables ($/MWh)	
6	RPS	$16.44

TABLE C
2020 FORECAST PCIA ADDERS FOR PG&E

Line No.	Description	Benchmarks
1	Energy Index ($/MWh)	
2	On Peak	$36.88
3	Off Peak	$29.93
4	Resource Adequacy ($/kW-month)	
5	System RA	$4.59
6	Local RA	$4.11
7	Flexible RA	$4.41
8	Renewables ($/MWh)	
9	RPS	$17.35

Energy Index

- Separate value for each Investor-Owned Utility (IOU) based on Platts average peak and off-peak market indices for North of Path-15 and South of Path-15

RA Adder

- *System* RA (Single value for all IOUs based on transacted RA not used for local or flexible RA purposes)

- *Local* RA (Separate value for each IOU Transmission Access Charge area based on transacted RA to fulfill local RA requirements)
- *Flexible* RA (Single value for all IOUs calculated using transacted flexible RA not used for local RA requirements)

RPS Adder

- Single value for all IOUs based on index-plus Portfolio Content Category-1 RPS energy transactions

b. General Rate Case (GRC) Costs Forecast Assumption Update

As originally described in Exhibit PG&E-5, PG&E has updated the UOG GRC costs forecast to the 2017 Base Generation revenue requirements, including 2019 attrition, because the Commission has not issued a final decision for Phase 1 of PG&E's 2020 GRC. This update reduces the total 2020 PCIA procurement cost forecast by approximately $100 million.

5. Updated 2019 End-of-Year Balancing Account Forecasts

a. Portfolio Allocation Balancing Account (PABA)

In Table 14-3, PG&E has updated the recorded data through September 2019, and balance of year forecast for October through December 2019. Based on the updated data, the 2019 year-end PABA balance is forecasted to be $611 million under-collected. The following sections provide additional details regarding the primary drivers of the 2019 year-end PABA balance forecast. These drivers comprise $587 million, or 96 percent, of the balance.

1) PCIA Billed Revenue

- System-level Billing Determinants: As described in Exhibit PG&E-5, the use of system-level billing determinants for setting the 2019 PCIA rates resulted in an under-collection of PCIA revenues by $178 million.
- Lower PCIA Sales Quantities: The forecasted year-end PCIA sales quantities are approximately 2,500 gigawatt-hour (GWh) less than the authorized 2019 PCIA sales forecast, driven primarily by lower recorded load from January through

September 2019. The reduction in forecasted PCIA sales has reduced PCIA billed revenue by approximately $60 million.

- Delayed Implementation of 2019 Rates: As described in Exhibit PG&E-5, recorded PCIA billed revenues from January through June 2019 were lower by approximately $39 million due to PCIA billed revenues being collected based on the authorized 2018 PCIA rates. The system average 2018 PCIA rate was $0.02618 per kilowatt-hour (/kWh) compared to the system average 2019 PCIA rate of $0.02722/kWh, which became effective beginning July 1, 2019.

2) Portfolio Costs

- UOG related Costs: As described in Exhibit PG&E-5, in AL 5440-E an additional $198 million of UOG-related costs were authorized to be recorded in PABA that were not originally included in the calculation of the approved 2019 PCIA rates. These costs include: (1) $48 million in pension costs authorized in Advice 4083-G/5511-E, (2) $73 million in Diablo Canyon Power Plant retention and relicensing costs authorized in Advice 5461-E-A, and (3) $77 million in ESA costs authorized in the 2017 GRC.
- UOG Fuel Costs: Fuel costs for UOG generation were approximately $50 million lower than forecasted, primarily due to lower summer demand for gas-fired generation.

3) Energy Value

- Actual Market Prices: Based on nine months of recorded 2019 California Independent System Operator (CAISO) market actuals and the updated forecast for October through December 2019, the average price per megawatt-hour (MWh) for PCIA-eligible generation is approximately 11 percent below the 2019 Final Energy Index. This reduction represents an approximate $240 million under-collection in energy value.
- Actual Generation Volume: Based on nine months of recorded 2019 CAISO market actuals and the updated forecast for

October through December 2019, PG&E is forecasting generation from PCIA-eligible resources to be approximately 2,000 GWh less than the authorized 2019 PCIA forecast. This reduction in generation represents a $80 million under-collection in energy value.

4) 2019 Final RPS Market Value

- Final RPS Adder: Pursuant to D.19-10-001, PG&E updated the imputed RPS market value to be calculated based on the Final RPS Adder for 2019. The Final 2019 RPS Adder was $1.56 per MWh lower than the Forecast 2019 RPS Adder, which resulted in a decrease in retained REC value of $30 million.
- Unsold RPS: Pursuant to D.19-10-001, PG&E is incorporating unsold RPS as part of the 2019 RPS value true-up calculation. PG&E determined that it had 4,213 GWh of unsold Renewable Energy Credits (RECs) based on the difference between the executed sales and volumes available for delivery in 2019, presented in Advice 5554-E. Unsold RECs resulted in a decrease in retained REC value of $70 million.
- Additional RPS Sales: Based on RPS sale contracts executed by PG&E through both its September 2018 and March 2019 RPS sales solicitations, PG&E forecasts it will sell approximately 5,000 GWh more RPS-eligible energy than was assumed in the authorized 2019 PCIA forecast. The increase in RPS sales reduced both the total procurement cost and the imputed REC market value by approximately $80 million, with minimal net impact on the forecasted year-end undercollection.[12]

5) 2019 Final RA Market Value

- Final RA Adder: Pursuant to D.19-10-001, PG&E updated the RA Market Value to be calculated based on the Final 2019 RA

[12] Additional RPS sales reduce the total imputed REC market value based on the RPS adder and have an offsetting reduction to the total portfolio costs based on the contract prices."

Adders issued by Energy Division on November 1. The Final RA Adders ranged from being $3.80 per kilowatt-year (kW-yr) lower for system RA to $1.24 per kW-yr higher for local RA than the Forecast RA adder, which resulted in a net decrease of retained RA value of approximately $5 million.

- Unsold RA: PG&E determined that it will have an average monthly unsold RA quantity of approximately 1,000 megawatt (MW). Unsold RA resulted in a decrease in retained RA value of approximately $37 million.

6) One-time Adjustments

- 2017 Tax Cuts and Jobs Act: PG&E has incorporated an adjustment to the forecasted year-end GRC costs in PABA based on the GRC revenue requirement reductions resulting from D.19-08-023. The total revenue requirement reductions of $170 million[13] have been allocated across vintages consistent with the base generation revenue requirement from the 2017 GRC.
- 2018 Brown Power True-Up: As described in Exhibit PG&E-5, the net impact on the 2019 year-end PABA balance from the 2018 Brown Power True-up is an approximately $130 million credit (overcollection).

Compared to the 2019 year-end forecast presented in Exhibit PG&E-5, the year-end PABA undercollection increased from $223 million to $611 million. The increase is primarily driven by lower than expected CAISO energy market prices from July through September, unsold RPS, and unsold RA, which were partially offset by savings from the 2017 Tax Cut and Jobs Act.

b. Energy Resource Recovery Account

In Table 14-2, PG&E has updated the recorded data through September 2019 and balance of year forecast for October through

[13] Approximately $5 million of the $175 million 2017 Tax Cuts and Jobs Act savings was associated with the Electric Supply Administration revenue requirement and allocated to ERRA.

December 2019. Based on the updated data, the 2019 year-end ERRA balance is forecasted to be approximately $723 million over-collected. This over-collection is driven primarily by the following items. These drivers comprise $718 million, or 99 percent, of the balance.

1) System-level Billing Determinants for 2019 PCIA Rates

As described in Exhibit PG&E-5, the use of system-level billing determinants for setting the 2019 PCIA rates resulted in an under-collection of PCIA revenues by $178 million. This under-collection has been recovered through bundled customer generation rates and resulted in a corresponding $178 million over-collection to the 2019 year-end ERRA balance. Pursuant to D.19-10-001, the Commission authorized the IOUs to transition from using system-level to vintage-level billing determinants beginning with the 2020 PCIA rates, which will correct this issue going forward.

2) Actual Market Prices

Based on nine months of recorded 2019 CAISO market actuals and the updated forecast for October through December 2019, the average price per megawatt-hour for PG&E's bundled load is approximately 8 percent below the forecasted market energy cost of load. This reduction resulted in an approximately $135 million reduction in net ERRA costs.

3) GRC Costs

As described in Section 5.a.2 above, $198 million of additional GRC costs were authorized to be recorded in PABA that were not originally authorized to be included in the calculation of the approved 2019 PCIA rates. As a result, these costs were included as part of the bundled customer generation rates and account for $198 million of the over-collection since the actual costs are being recorded to PABA.

4) Additional RPS Sales

As described in Section 5.a.4 above, the additional sale of approximately 4,000 GWh of RPS-eligible generation reduced the imputed REC costs in ERRA by approximately $65 million.

5) Updated RA and RPS Adders

Pursuant to D.19-10-001 and as described in Sections 5.a.4 and 5.a.5, updated RA and RPS adders resulted in a decrease in net ERRA costs of $35 million.

6) Unsold RA and RPS

Pursuant to D.19-10-001 and as described in Sections 5.a.4 and 5.a.5, unsold RA and RPS resulted in a decrease in net ERRA costs of $107 million.

c. ERRA Trigger

In compliance with D.02-10-062, on October 14, 2019 PG&E submitted Advice 5659-E notifying the Commission that its ERRA balance surpassed the five percent Threshold Amount based on recorded balances for the August 2019 business cycle accounting close. In that advice letter, PG&E explained that it was not seeking to adjust rates, as the 2020 ERRA rates set in this proceeding will include the forecasted 2019 ERRA over-collection year-end balance, thereby reducing the 2020 ERRA rates, and because the bundled customer share of PABA under-collection offsets, in large part, the over-collection in ERRA. At the request of Energy Division, PG&E has withdrawn Advice 5659-E and will resubmit its request as an expedited application in the near future with updated account balance information consistent with the November Update.

6. Electric Rates

a. Introduction

This section describes PG&E's electric rate implementation for the November Update for generation and the PCIA that are unique to this 2020 Forecast update and that impact both the generation rate and the PCIA rate.

First, in D.18-10-019 issued in Phase 1 of the PCIA OIR, the Commission set a cap of 0.5 cent per kWh increase for non-exempt departing load customers' PCIA rate differentiated by vintage (OP 9) and established a trigger mechanism for the PCIA cap (OP 10).

Capping the PCIA rate for non-exempt departing load customers will also impact the bundled generation rate, as discussed below.[14]

Second, in D.19-10-001 issued in Phase 2 of PCIA OIR, the Commission approved the use of vintaged billing determinants for the PCIA rate design. As a result, the PCIA rates presented in this November Update reflect the use of vintaged billing determinants.[15]

Third, revenue originally collected through the generation rate will be returned to customers through a series of prior period accounting adjustments in the ERRA, MTCBA, and New System Generation Charge (NSGC). The methodology for implementing these adjustments was described in Supplemental Testimony (Exhibit PG&E-2).[16] Implementing these prior period adjustments will impact the uncapped PCIA, the Ongoing CTC, and the NSGC.

The final average generation rates and capped PCIA rates are presented in Tables 19-1 and 19-3.2, respectively. The implementation steps to derive these final PCIA rates are described in Section 6.b below.

PG&E's other electric rates – the Ongoing CTC, NSGC, TMNBC – are reflected in Tables 19-2, 19-4, and 19-5 and follow the forecast methodology described in PG&E's opening Prepared Testimony and its Supplemental Testimony with balancing account balances updated through September.

b. Capped PCIA Rates

1) Rate Design Proposal

In D.18-10-019 the Commission set a cap of 0.5 cent per kWh increase for non-exempt departing load customers' PCIA rate differentiated by vintage (OP 9) and established a trigger mechanism for the PCIA cap (OP 10).

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14 PG&E submitted Advice 5624-E on August 8, 2019, requesting the establishment of the PCIA Undercollection Balancing Account (PUBA) and describing its proposal to implement capped PCIA rates for departed load and establishing the associated Trigger Mechanism for the PUBA.

15 D.19-10-001, OP 6.

16 Supplemental Testimony, pp. 7-12.

As described in PG&E's Advice 5614-E and confirmed in PG&E's Rebuttal Testimony in response to the rate proposal by Joint CCAs, PG&E proposes that the evaluation of whether the 0.5 cent per kWh PCIA cap has been reached be measured based on the system average PCIA rate by vintage. If the system average PCIA rate by vintage increases more than 0.5 cent per kWh, then all PCIA rates for that vintage would be capped and the capped PCIA rates by customer class would be determined based on the revenue allocation among classes. The net result is that some customer classes may pay an increase that is slightly more than 0.5 cent per kWh and some customer classes may pay slightly less than the 0.5 cent per kWh increase. Utilization of the currently authorized generation revenue allocation factors to determine the class-specific capped PCIA rates maintains the proper rate design within the vintage subaccount so each customer class has responsibility for any balance in the vintage subaccount in proportion to the generation allocation rate design.

2) November Update PCIA Results

The PCIA revenue requirement resulted in capped PCIA rates for departing load for all vintages and all classes. In Table A below, PG&E first shows uncapped PCIA rates, where the increase in rates above the 2019 levels range between 0.82 cents per kWh and 2.01 cents per kWh, which is above the 0.5 cent per kWh cap increase.

TABLE 19-3.1
UNCAPPED 2020 PCIA RATES (WITH DWR FRANCHISE FEE)

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Residential	0.03414	0.04132	0.04364	0.04583	0.04659	0.04671	0.04709	0.04720	0.04699	0.04718	0.04602	0.04603
2	Small L&P	0.03271	0.03958	0.04181	0.04390	0.04464	0.04475	0.04512	0.04522	0.04502	0.04520	0.04409	0.04409
3	Medium L&P	0.03524	0.04264	0.04504	0.04730	0.04809	0.04821	0.04860	0.04871	0.04850	0.04869	0.04750	0.04750
4	E19	0.03229	0.03908	0.04127	0.04334	0.04407	0.04418	0.04454	0.04464	0.04445	0.04462	0.04353	0.04353
5	Streetlights	0.02723	0.03294	0.03480	0.03654	0.03715	0.03724	0.03755	0.03763	0.03747	0.03762	0.03670	0.03670
6	Standby	0.02468	0.02986	0.03154	0.03312	0.03368	0.03376	0.03404	0.03412	0.03397	0.03410	0.03327	0.03327
7	Agriculture	0.03052	0.03693	0.03901	0.04097	0.04165	0.04175	0.04210	0.04219	0.04201	0.04218	0.04114	0.04114
8	E20 T	0.02772	0.03354	0.03543	0.03720	0.03783	0.03792	0.03823	0.03832	0.03815	0.03830	0.03736	0.03737
9	E20 P	0.02987	0.03614	0.03817	0.04009	0.04076	0.04086	0.04119	0.04129	0.04111	0.04127	0.04026	0.04026
10	E20 S	0.03107	0.03759	0.03971	0.04170	0.04240	0.04250	0.04285	0.04295	0.04276	0.04293	0.04188	0.04188
11	System Average	0.03266	0.03952	0.04175	0.04385	0.04459	0.04470	0.04506	0.04517	0.04497	0.04515	0.04405	0.04405

The next two tables show the derivation of the capped PCIA rates, which start with the currently effective 2019 PCIA rates (Table D) and Table 19-3.2 presents the proposed capped PCIA rates. The capped PCIA rates are derived by adding 0.5 cents per kWh to the system average rate and then multiplies the system average rate by the Generation Rate Ratios (GRR) to derive the class specific rates.[17]

[17] GRRs implement the generation revenue allocation approved in PG&E's most recent GRC.

TABLE D
CURRENTLY EFFECTIVE 2019 ERRA FORECAST PCIA RATES (WITH DWR FRANCHISE FEE) - ADVICE 5527-E-B

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	Residential	0.02105	0.02450	0.02553	0.02674	0.02695	0.02698	0.02706	0.02695	0.02701	0.02709	0.02979
2	Small L&P	0.02131	0.02465	0.02564	0.02677	0.02696	0.02699	0.02705	0.02693	0.02699	0.02706	0.02905
3	Medium L&P	0.02221	0.02567	0.02671	0.02788	0.02808	0.02810	0.02816	0.02804	0.02810	0.02818	0.03019
4	E19	0.02105	0.02429	0.02525	0.02633	0.02652	0.02654	0.02659	0.02647	0.02653	0.02660	0.02830
5	Streetlights	0.01882	0.02150	0.02230	0.02312	0.02326	0.02327	0.02329	0.02318	0.02322	0.02328	0.02375
6	Standby	0.01647	0.01893	0.01966	0.02046	0.02059	0.02061	0.02064	0.02054	0.02058	0.02064	0.02160
7	Agriculture	0.01886	0.02186	0.02275	0.02378	0.02396	0.02398	0.02404	0.02394	0.02399	0.02406	0.02605
8	E20 T	0.01795	0.02070	0.02152	0.02243	0.02259	0.02260	0.02265	0.02255	0.02259	0.02266	0.02405
9	E20 P	0.01907	0.02200	0.02287	0.02385	0.02401	0.02403	0.02408	0.02397	0.02402	0.02409	0.02561
10	E20 S	0.02032	0.02345	0.02438	0.02542	0.02560	0.02562	0.02567	0.02556	0.02561	0.02568	0.02731
11	System Average	0.01935	0.02235	0.02468	0.02456	0.02662	0.02706	0.02689	0.02675	0.02670	0.02672	0.02880

TABLE 19-3.2
PROPOSED 2020 PCIA RATES BY VINTAGE – CAPPED VINTAGES 2009-2019 AND UNCAPPED VINTAGE FOR 2020*

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Residential	0.02561	0.02877	0.03122	0.03109	0.03325	0.03372	0.03354	0.03340	0.03334	0.03336	0.03555	0.04603
2	Small L&P	0.02453	0.02756	0.02990	0.02979	0.03186	0.03230	0.03213	0.03199	0.03194	0.03196	0.03406	0.04409
3	Medium L&P	0.02643	0.02969	0.03222	0.03209	0.03432	0.03480	0.03461	0.03447	0.03441	0.03443	0.03669	0.04750
4	E19	0.02422	0.02721	0.02952	0.02941	0.03145	0.03189	0.03172	0.03158	0.03153	0.03155	0.03362	0.04353
5	Streetlights	0.02042	0.02293	0.02488	0.02479	0.02651	0.02688	0.02673	0.02662	0.02658	0.02660	0.02834	0.03670
6	Standby	0.01850	0.02079	0.02256	0.02247	0.02403	0.02437	0.02423	0.02413	0.02409	0.02411	0.02569	0.03327
7	Agriculture	0.02289	0.02571	0.02790	0.02779	0.02972	0.03014	0.02998	0.02985	0.02980	0.02982	0.03178	0.04114
8	E20 T	0.02079	0.02335	0.02534	0.02524	0.02699	0.02737	0.02722	0.02711	0.02706	0.02708	0.02886	0.03737
9	E20 P	0.02240	0.02516	0.02730	0.02720	0.02908	0.02949	0.02933	0.02921	0.02916	0.02918	0.03109	0.04026
10	E20 S	0.02330	0.02617	0.02840	0.02829	0.03026	0.03068	0.03051	0.03039	0.03033	0.03036	0.03235	0.04188
11	System Average	0.02435	0.02735	0.02968	0.02956	0.03162	0.03206	0.03189	0.03175	0.03170	0.03172	0.03380	0.04405

* 2020 PCIA Vintage Rates are not capped because there are not existing rates for this vintage and, thus, no incremental increase to cap.

3) Revenue Deferral Resulting from Capped Rates

Implementing capped PCIA rates for departed load customers will result in a revenue shortfall that will be financed by bundled customers through their generation rates. The revenue shortfall that is expected to accrue is the difference between revenue that would be received if uncapped PCIA rates were implemented and revenues received with the capped PCIA rates. Those results are presented in Table E below.

TABLE E
PROPOSED 2020 PCIA RATES BY VINTAGE – CAPPED VINTAGES 2009-2019 AND UNCAPPED VINTAGE FOR 2020 (LESS DWR FRANCHISE FEES)

Line No.	Description	PCIA Revenues from 2020 PCIA Rates	Expected PCIA Revenues from Capped PCIA Rates	Revenue Shift to Bundled Generation Rates
1	Bundled Customers	$1,568,744,728	$1,568,744,728	–
2	DA/CCA Customers	1,686,759,205	1,197,239,261	$489,519,944
3	Total Revenues	$3,255,503,933	$2,765,983,989	$489,519,944

4) PUBA Trigger and Trigger Threshold

OP 10 in D.18-10-019 established a trigger mechanism for the capped PCIA rates applicable to non-exempt departing load customers, which will be measured against the PCIA obligation owed by departing load customers that will accrue in the PUBA's vintage subaccounts' balances.

Specifically, the framework for the trigger mechanism discussed in OP 10 sets the trigger threshold at 10 percent of the forecast PCIA revenues. If the undercollection reaches 7 percent, and PG&E forecasts that the balance will reach 10 percent, then it shall file an expedited application to change the PCIA rates to bring the balance back down below 7 percent.

Departing load customers share of PCIA revenues is $1,686.8 million. The 7 percent filing level is $118.1 million, and the 10 percent Trigger Threshold is $168.7 million.

5) Alternate Rate Design Pending a Decision in PG&E's 2018 ERRA Compliance Review Proceeding Approving 2018 Prior Period Adjustments Recorded to the ERRA, MTCBA, and NSGBA

If the Commission issues a decision in PG&E's 2018 ERRA Compliance Review in time to implement the 2018 prior period adjustments described in PG&E's Supplemental Testimony, PG&E proposes to credit the overcharged ERRA rate to both its bundled and eligible departed customers through the PCIA rates. If the Commission adopts PG&E's 2018 Prior Period Adjustments rate proposal to return the $141.3 million to affected customers through

PCIA rates, PG&E would record accounting adjustments to effectuate that return through the PABA.

The details of the refund mechanism for the 2019 Prior Period Adjustment were provided in the Supplemental Testimony.[18] Specifically, the Supplemental Testimony, Table B, included a system average rate adjustment, by vintage that PG&E proposed to credit to customers through the PCIA rates. In this testimony, PG&E has taken the PCIA rates by vintage shown in the Supplemental Testimony's Table B, Column K, and derived class-specific PCIA rate adjustments. The class-specific PCIA rate adjustments, by vintage, were derived by multiplying the vintaged PCIA rates shown in the Supplemental Testimony by the GRRs. Those results are shown in Table F below.

TABLE F
CLASS SPECIFIC PCIA RATES FOR CAM ADJUSTMENT

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	Residential	(0.00004)	(0.00004)	(0.00004)	(0.00005)	(0.00005)	(0.00011)	(0.00029)	(0.00082)	(0.00131)	(0.00229)	(0.00260)
2	Small L&P	(0.00004)	(0.00004)	(0.00003)	(0.00004)	(0.00005)	(0.00011)	(0.00027)	(0.00079)	(0.00126)	(0.00219)	(0.00249)
3	Medium L&P	(0.00005)	(0.00004)	(0.00004)	(0.00005)	(0.00006)	(0.00011)	(0.00030)	(0.00085)	(0.00135)	(0.00236)	(0.00269)
4	E19	(0.00004)	(0.00004)	(0.00003)	(0.00004)	(0.00005)	(0.00010)	(0.00027)	(0.00078)	(0.00124)	(0.00216)	(0.00246)
5	Streetlights	(0.00003)	(0.00003)	(0.00003)	(0.00004)	(0.00004)	(0.00009)	(0.00023)	(0.00065)	(0.00105)	(0.00182)	(0.00207)
6	Standby	(0.00003)	(0.00003)	(0.00003)	(0.00003)	(0.00004)	(0.00008)	(0.00021)	(0.00059)	(0.00095)	(0.00165)	(0.00188)
7	Agriculture	(0.00004)	(0.00003)	(0.00003)	(0.00004)	(0.00005)	(0.00010)	(0.00026)	(0.00073)	(0.00117)	(0.00204)	(0.00233)
8	E20 T	(0.00004)	(0.00003)	(0.00003)	(0.00004)	(0.00004)	(0.00009)	(0.00023)	(0.00067)	(0.00106)	(0.00186)	(0.00211)
9	E20 P	(0.00004)	(0.00003)	(0.00003)	(0.00004)	(0.00005)	(0.00010)	(0.00025)	(0.00072)	(0.00115)	(0.00200)	(0.00228)
10	E20 S	(0.00004)	(0.00003)	(0.00003)	(0.00004)	(0.00005)	(0.00010)	(0.00026)	(0.00075)	(0.00119)	(0.00208)	(0.00237)
11	Table B, July Supplement, Rate Proposal Adjustment	(0.00004)	(0.00004)	(0.00003)	(0.00004)	(0.00005)	(0.00011)	(0.00027)	(0.00078)	(0.00125)	(0.00217)	(0.00247)

Those class-specific PCIA rate adjustments are then added to the uncapped PCIA rates to get the final, uncapped PCIA rates, including the accounting adjustment. The final uncapped PCIA rates by vintage are presented in Table 19-3.3.

If the CPUC issues a decision in the 2018 ERRA Compliance Review proceeding subsequent to the date needed to implement on January 1, 2020, PG&E will implement the refund at the next planned rate change.

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18 PG&E's Supplemental Testimony, July 29, 2019, pp. 7-12.

7. Updated GHG Forecast Revenue and Reconciliation

a. GHG A&O Expenses

In Table 16-3, PG&E has included its: (1) recorded A&O expenses through September 2019; and (2) updated 2020 forecast A&O expenses. PG&E refreshed its 2020 forecast GHG Administrative Expenses to reflect the most current information available. The updated 2020 forecast for A&O expenses is $1.065 million. The reason for the update, in brief, is the following:

- In 2018, PG&E received and paid an invoice from the CPUC for a portion of PG&E's reimbursements for an emission leakage study that cited D.14-02-003 and Rulemaking 13-02-008. PG&E paid the first invoice of $103,052 from the GHG admin account, as authorized in D.12-12-033, and forecasted a 2020 expense of $151,398 in anticipation for receiving an invoice for the remainder of the reimbursement.
- In September 2019, the CPUC confirmed that the 2018 CPUC invoice referenced the incorrect decision and should no longer be booked to the GHG programs. As a result, PG&E is crediting the GHG admin account for the invoice paid in 2018 and has reduced the 2020 forecast for the anticipated follow up invoice.[19]

b. Low Income and Disadvantaged Community Solar Programs Funded in Whole or in Part from the GHG Allowance Revenues

PG&E's Forecasted Budgets for GHG Funded Customer Generation Programs is updated as follows:

1) Revised the amount of Clean Energy and Energy Efficiency funds available for CPUC disposition to $62.0 million;[20]

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19 The credit to the GHG programs was recorded in 2019.

20 This represents 15 percent of the forecast proceeds from the sale of GHG allowances. Revised Table 17-1 below reflects updated amounts.

2) Revised the amount of the 2020 Solar on Multi-Family Affordable Housing (SOMAH) Program funding to $41.3 million;[21]

3) Decreased DAC-GT funding to $2.012 million, due to a later program start anticipated;

4) Decreased Community Solar Green Tariff (CS-GT) funding to $3.142 million to better reflect the proposed marketing and outreach tactics; and

5) Revised the Remaining Funds to $11.141 million as a result of all the above adjustments.

Although the adjustments to the DAC-GT and CS-GT budgets have not yet been approved, they were included in PG&E AL 5609-E[22] and represent PG&E's best estimate of program spending in 2020. Below is the updated Table 17-1 reflecting these changes.

TABLE 17-1
UPDATE TO FORECASTED BUDGETS FOR GHG FUNDED CUSTOMER GENERATION PROGRAMS
(MILLIONS OF DOLLARS)

Line No.	Description	2019	2020
1	Total Clean Energy and Energy Efficiency[(a)]	$56.605	$61.994
2	SOMAH	37.737	41.329
3	DAC SASH	4.370	4.370
4	DAC GT	2.112	2.012
5	CS-GT	0.367	3.142
6	Additional PPP funds	0.000	0.000
7	Total Program funds	$44.586	$50.853
8	Remaining funds	$12.019	$11.141

(a) CPUC can allocate up to 15% of GHG revenues to Clean Energy and Energy Efficiency Programs.

21 This represents 10 percent of the forecast proceeds from the sale of GHG allowances pursuant to OP 4 of D.17-12-022. The amount is not approved in any SOMAH proceedings, but is proposed to be reserved in this updated testimony to account for the 2019 SOMAH funding. It will be revised accordingly if this amount exceeds PG&E's share as described in D.17-12-022.

22 DAC-GT budget estimate can be found on Table 1, page 2 of PG&E's Advice 5609-E, filed August 2, 2019; CS-GT budget can be found on Table 2, page 3 of that filing, accessible here: https://www.pge.com/tariffs/assets/pdf/adviceletter/ELEC_5609-E.pdf.

c. Forecast 2020 GHG Revenue Return Calculation

PG&E revised its forecasted GHG Forecast Revenue and Reconciliation and Revenue Calculations as follows:

1) Updated its 2020 forecast proxy GHG allowance price to reflect September 19, 2019 settlement price of an Intercontinental Exchange California Carbon Allowance futures contract with a 2020 vintage year;
2) Updated the amount set aside to cover the GHG A&O expenses reflected in Table 16-3;
3) Updated its Clean Energy and EE Funds set aside to reflect the amounts stated in Updated Table 17-1; and
4) Updated its year-end forecast balance to GHG Revenues Sub-Account, within the GHG Revenue Balancing Account, to reflect recorded balance through September 30, 2019 and a forecast revenue and cost from October 1 through December 31, 2019.

The revised total GHG allowance revenue return available for amortization in rates over the 2020 calendar year is updated to $393 million. The semi-annual residential California Climate Credit is updated to $36.75.

C. Confidentiality

In Appendix C of its Prepared Testimony, PG&E submitted declarations attesting to the confidentiality of data presented therein. PG&E requested that the confidential information in PG&E's Prepared Testimony be kept confidential, pursuant to D.06-06-066, D.14-10-033, and Public Utilities Code Sections 454.5(g) and 583, as identified in PG&E's matrix identifying the justification for confidential treatment by chapter.

This November Update contains identical confidential information that is the subject of PG&E's confidentiality matrix and covered by the original declarations. PG&E asks that the same confidential treatment requested with the opening Prepared Testimony apply to the information marked confidential in this November Update. PG&E is also proposing to redact certain third-party proprietary information.

D. Conclusion

PG&E requests that the Commission:

1) Adopt PG&E's total 2020 electric procurement forecast for rate setting purposes of $5,359 million, consisting of the following revenue requirements: $205 million for Cost Allocation Mechanism (CAM), $3,256 million for Power Charge Indifference Adjustment (PCIA), $112 million for Ongoing Competition Transition Charge (Ongoing CTC), $102 million for Tree Mortality Non-Bypassable Charge (TMNBC), and $1,683 million for ERRA.
2) Adopt PG&E' s 2020 ERRA Application revenue requirement of $3,014 million, which excludes $2,345 million of UOG-related costs;
3) Adopt PG&E's 2020 forecast electric sales;
4) Adopt a $393 million 2020 forecast GHG allowance revenue return, including the 2020 Semi-Annual Residential CCC amount per household of $36.75;
5) Adopt PG&E's 2020 forecast GHG A&O expenses of $1.065 million;
6) Approve PG&E's 2018 recorded GHG utility A&O expenses of $901,000 as reasonable; and
7) Determine that the revenue requirements for the November Update will be consolidated with other approved electric revenue requirements and rate changes through the AET process, to become effective in rates on or after January 1, 2020.

TABLE 2-2
2020 DEPARTED LOAD SALES ESTIMATED BY CATEGORY
(MWH)

Line No.	Departing Load Category	Total DL	CTC	PCIA	NSGC	MDL Settlement	
1	Pre-2012 Transferred Municipal DL	522,217	399,457	Exempt	Exempt	N/A	Exempt
2	2012 - 2019 Incremental TMDL	122,847	122,847	Exempt	Exempt	N/A	122,847
3	Pre-2012 New Municipal DL	219,622	0	Exempt	Exempt	N/A	Exempt
4	2012 - 2019 Incremental NMDL	0	0	Exempt	Exempt	N/A	Exempt
5	Customer Generation DL	9,403,920	696,048	Exempt	Exempt	N/A	N/A
6	New WAPA DL	45,686	2,493	0	2,493	N/A	N/A
7	Split Wheeling DL	6,527	6,527	0	6,527	N/A	N/A
8	Direct Access less Continuous D.12-04-012	9,171,088	9,171,088	3,559,506	9,171,088	N/A	N/A
9	Continuous DA D.12-04-012	233,458	233,458	Exempt	233,458	N/A	N/A
10	Total Direct Access	9,404,546	9,404,546	3,559,506	9,404,546	N/A	N/A
11	CCA	34,090,600	34,090,600	34,090,600	34,090,600	N/A	N/A
12	**Total Departing Load**	**53,815,965**	**44,722,519**	**37,650,106**	**43,504,167**	**N/A**	**122,847**

Notes:
The sunset date for the vintaged CTC for Transferred Municipal DL was July 1, 2015.
Totals may not add due to rounding.

TABLE 2-3
2020 ENERGY (GWH) AND
PEAK DEMAND (MW) REQUIREMENTS

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	**Energy Load (GWh)**													
2	Unmitigated Retail Sales													84,678
3	Conservation and Energy Efficiency													
4	Distributed Generation													
5	Solar													
6	CHP													
7	Fuel Cell & Other													
8	Electric Vehicles													
9	Electrification													
10	Retail Sales													79,440
11	Direct Access													
12	Direct Access	(729)	(741)	(740)	(765)	(784)	(811)	(840)	(853)	(843)	(786)	(773)	(741)	(9,405)
13	Community Choice Aggregation													
14	Marin Clean Energy	(431)	(380)	(408)	(376)	(405)	(440)	(501)	(484)	(432)	(402)	(409)	(427)	(5,094)
15	Sonoma Clean Power	(220)	(199)	(201)	(184)	(186)	(197)	(214)	(205)	(199)	(198)	(200)	(225)	(2,427)
16	Clean Power San Francisco	(276)	(253)	(267)	(250)	(259)	(255)	(266)	(268)	(262)	(267)	(258)	(277)	(3,158)
17	Peninsula Clean Energy	(308)	(274)	(300)	(274)	(280)	(276)	(291)	(291)	(276)	(293)	(288)	(312)	(3,462)
18	Silicon Valley Clean Energy	(329)	(311)	(316)	(308)	(307)	(321)	(360)	(348)	(339)	(323)	(318)	(337)	(3,916)
19	Redwood Coast Energy Authority	(58)	(54)	(56)	(52)	(52)	(49)	(51)	(51)	(49)	(52)	(52)	(58)	(634)
20	Pioneer Community Energy	(93)	(85)	(84)	(80)	(88)	(107)	(140)	(126)	(97)	(84)	(84)	(97)	(1,166)
21	Monterey Bay Community Power	(258)	(245)	(260)	(264)	(289)	(296)	(310)	(303)	(283)	(280)	(263)	(276)	(3,327)
22	Valley Clean Energy	(50)	(45)	(45)	(45)	(60)	(75)	(86)	(78)	(65)	(54)	(50)	(54)	(706)
23	East Bay Community Energy	(522)	(480)	(498)	(465)	(475)	(490)	(516)	(524)	(510)	(501)	(487)	(542)	(6,009)
24	King City Community Power	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(36)
25	San Jose Clean Energy	(356)	(337)	(324)	(312)	(330)	(360)	(375)	(372)	(345)	(342)	(341)	(360)	(4,156)
26	UFE, Transmission & Distribution Losses													3,248
27	Total Requirement													39,193
28	Retail Sales excludes BART energy requirements.													

TABLE 2-3
2020 ENERGY (GWH) AND
PEAK DEMAND (MW) REQUIREMENTS
(CONTINUED)

Line No.	Description	2020 PEAK REQUIREMENTS (MW) Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
29	**Peak Load (MW)**												
30	Unmitigated Retail Peak												
31	Conservation and Energy Efficiency												
32	Distributed Generation												
33	Solar												
34	CHP												
35	Fuel Cell & Other												
36	Electric Vehicles												
37	Electrification												
38	Battery Energy Storage												
39	Retail Peak												
40	Direct Access	(1,342)	(1,473)	(1,360)	(1,520)	(1,597)	(1,788)	(1,758)	(1,716)	(1,800)	(1,510)	(1,498)	(1,372)
41	Community Choice Aggregation	(5,346)	(5,301)	(5,079)	(5,190)	(5,567)	(6,329)	(6,512)	(6,140)	(6,109)	(5,382)	(5,335)	(5,495)
42	UFE, Transmission & Distribution Losses												
43	Demand Response	(166)	(178)	(177)	(192)	(232)	(268)	(277)	(271)	(246)	(222)	(192)	(178)
44	Puget Sound Power & Light (Return)												
45	Total Requirement												

TABLE 3-1
2020 CAPACITY BALANCE
(MW)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Peak ERRA Load (MW)												
1	PG&E Bundled Peak load Forecast	[redacted]											
2	CPUC 2020 RA Compliance Requirement Adjustment	[redacted]											
3	Peak Coincidence	[redacted]											
4	Reserve Requirement	[redacted]											
5	CAM, DR and other Adjustments	[redacted]											
6	**Total ERRA Capacity Requirement**	[redacted]											
	Capacity Supply (MW)												
	Cost Allocation Mechanism (CAM)												
	Post-2002 Contracted Resources												
	Other Bilateral Contracts												
7	Non-CHP Fossil	[redacted]											
8	CHP Fossil	[redacted]											
9	QF	[redacted]											
	Power Charge Indifference Adjustment (PCIA)												
	Utility-Owned Generation												
10	Nuclear	[redacted]											
11	Hydro	[redacted]											
12	Fossil	[redacted]											
13	Solar	6	5	27	23	24	47	59	41	21	3	3	0
14	Fuel Cell	[redacted]											
	Pre-2002 Contracted Resources												
15	QF	[redacted]											
	Post-2002 Contracted Resources												
	RPS Eligible												
16	Post-2002 RPS Eligible	849	793	1,470	1,319	1,442	2,074	2,257	1,817	1,232	671	725	675
17	Future RPS Eligible	[redacted]											
	Other Bilateral Contracts												
18	CHP Fossil	[redacted]											
19	Non-CHP Fossil	[redacted]											
20	Large Hydro	[redacted]											

TABLE 3-1
2020 CAPACITY BALANCE
(MW)
(CONTINUED)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
21	Energy Storage	[redacted]											
22	Net Contracted RA Transactions												
	Ongoing Competition Transition Charge (CTC)												
	Pre-2002 Contracted Resources												
23	Irrigation Districts & Water Agencies	[redacted]											
24	MWD Etiwanda												
25	QF												
26	Puget Sound Power & Light (Receive)												
	Energy Resource Recovery Account (ERRA)												
	Post-2002 Contracted Resources												
27	Storage	[redacted]											
28	Contracted RA Sales												
29	GTSR	2	1	9	7	8	15	18	13	7	1	1	0
30	Outages	[redacted]											
31	Total Net Supply	[redacted]											
32	**Net Long / (Short)**	[redacted]											

TABLE 3-2
2020 ENERGY REQUIREMENTS
(GWH)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	ERRA Energy Load (GWh)													
2	Retail Sales	[redacted]												(79,440)
3	Direct Access and CCA	3,633	3,406	3,502	3,377	3,517	3,680	3,953	3,904	3,702	3,586	3,526	3,709	43,495
4	UFE, Transmission & Distribution Losses	[redacted]												(3,248)
5	**Total ERRA Load Requirement**	[redacted]												**(39,193)**
6	Energy Supply (GWh)													
7	Cost Allocation Mechanism (CAM)													
8														
9														
10	Post-2002 Contracted Resources													
11	Other Bilateral Contracts													
12	Fossil Contracts - Non-CHP	[redacted]												
13	Fossil Contracts - CHP													
14	Energy Storage													
15	QF													
16	Power Charge Indifference Adjustment (PCIA)													
17	Utility-Owned Generation													
18	Nuclear	[redacted]												
19	Hydro													
20	Fossil													
21	Solar	12	21	29	32	36	35	35	34	29	26	18	16	323
22	Fuel Cell	2	2	2	2	2	2	2	2	2	2	2	2	21
23	Energy Storage	[redacted]												
24	Pre-2003 Contracted Resources													
25	QF	[redacted]												

TABLE 3-2
2020 ENERGY REQUIREMENTS
(GWH)
(CONTINUED)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
26	Post-2002 Contracted Resources													
27	RPS Eligible													
28	RPS-Eligible Contracts	983	1,157	1,428	1,549	1,790	1,855	1,851	1,762	1,537	1,340	1,063	989	17,304
29	RPS-Eligible Contracts - Sales	0	0	0	(649)	(660)	(1,714)	(610)	(2,031)	(1,874)	0	0	0	(7,537)
30	RPS-Eligible Future Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0
31	RPS-Eligible Future Sales	0	0	0	0	0	0	0	0	0	(505)	(489)	(505)	(1,500)
32	Other Bilateral Contracts													
33	Fossil Contracts - Non-CHP	[redacted]												
34	Fossil Contracts - CHP													
35	Large Hydro													
36	Non-RPS-Eligible Hydro Sales													
37	Energy Storage													
38	Ongoing Competition Transition Charge (CTC)													
39	Pre-2002 Contracted Resources													
40	Irrigation District & Water Agency	[redacted]												
41	MWD Etiwanda	4	3	4	3	7	4	8	0	0	0	0	0	33
42	Puget Sound Power & Light Contract (Net)	[redacted]												
43	QF													
44	Tree Mortality Non-Bypassable Charge (TMNBC)													
45	Post-2002 Contracted Resources													
46	RPS Eligible													
47	RPS-Eligible Contracts	47	49	44	45	40	39	50	52	51	52	42	49	558
48	RPS-Eligible Contracts - Sales	(27)	(31)	(33)	(26)	(21)	(20)	(30)	(32)	(32)	(32)	(28)	(29)	(340)
49	RPS-Eligible Future Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0
50	RPS-Eligible Future Sales	(19)	(18)	(11)	(19)	(20)	(19)	(20)	(20)	(19)	(20)	(14)	(20)	(218)

TABLE 3-2
2020 ENERGY REQUIREMENTS
(GWH)
(CONTINUED)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
51	Energy Resource Recovery Account (ERRA)													
52	Post-2002 Contracted Resources													
53	Other Bilateral Contracts													
54	QF													
55	Energy Storage													
56	Utility-Owned Generation													
57	Energy Storage													
58	**Total Supply**													

Note: Totals may not add due to rounding.

TABLE 3-3
2020 PROCUREMENT COSTS
($ MILLIONS)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	Energy Supply / Demand Procurement Costs ($)													
2	Cost Allocation Mechanism (CAM)													
3														
4														
5	Post-2002 Contracted Resources													
6	Other Bilateral Contracts													
7	Fossil Contracts - Non-CHP	[redacted]												
8	Fossil Contracts - CHP													
9	Energy Storage													
10	QF													
11	Power Charge Indifference Adjustment (PCIA)													
12	Utility-Owned Generation													
13	Nuclear	[redacted]												
14	Hydro													
15	Fossil													
16	Solar													
17	Fuel Cell	[redacted]												
18	Energy Storage													
19	Pre-2003 Contracted Resources													
20	QF	[redacted]												
21	Post-2002 Contracted Resources													
22	RPS Eligible													
23	RPS-Eligible Contracts	[redacted]												
24	RPS-Eligible Contracts - Sales													
25	RPS-Eligible Future Contracts													
26	RPS-Eligible Future Sales													
27	Other Bilateral Contracts													
28	Fossil Contracts - Non-CHP	[redacted]												
29	Fossil Contracts - CHP													
30	Large Hydro													
31	Energy Storage													
32	RA Contracts													
33	RA Contracts - Sales													
34	Non-RPS-Eligible Hydro Sale													
35	Residual Capacity Sales													
36	CAISO Costs (GMCs)													

TABLE 3-3
2020 PROCUREMENT COSTS
($ MILLIONS)
(CONTINUED)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
37	Ongoing Competition Transition Charge (CTC)													
38	Pre-2002 Contracted Resources													
39	Irrigation District & Water Agency													
40	MWD Etiwanda													
41	Puget Sound Power & Light Contract (Net)													
42	QF													
43	CAISO Costs (GMCs)													
44	Tree Mortality Non-Bypassable Charge (TMNBC)													
45	Post-2002 Contracted Resources													
46	RPS Eligible													
47	RPS-Eligible Contracts													
48	RPS-Eligible Contracts - Sales													
49	RPS-Eligible Future Contracts													
50	RPS-Eligible Future Sales													
51	RA Contracts - Sales													
52	CAISO Costs (GMCs)													
53	Energy Resource Recovery Account (ERRA)													
54	Bundled Load Requirement													
55	Utility-Owned Generation													
56	Energy Storage													
57	Collateral Interest Expense	0.4	0.4	1.3	0.4	0.4	1.3	0.4	0.4	1.3	0.4	0.4	1.4	8.7
58	Hedging - Gas and Electric													
59	Residual Capacity Purchases													
60	CAISO Costs (Other Load + GMCs)	6.9	6.7	6.8	6.7	6.9	7.1	7.3	7.3	7.1	6.8	6.6	6.7	83.0
61	**Total Supply**	**371.5**	**350.5**	**335.3**	**287.4**	**341.6**	**462.8**	**641.2**	**554.5**	**433.9**	**385.9**	**314.6**	**349.4**	**4,828.7**

Note: Totals may not add due to rounding.

TABLE 3-4
2020 FORWARD ELECTRIC AND NATURAL GAS PRICES

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave.
1	Energy ($/MWh)													
2	On Peak	[redacted]												
3	Off Peak													
4	Natural Gas ($/MMBtu)													
5	Citygate	[redacted]												

Note: Forward Energy and Natural Gas Prices were derived from September 19, 2019 broker quotes.

TABLE 4-1
SUMMARY OF 2020 FOSSIL FUEL EXPENSE FORECAST
(THOUSANDS OF DOLLARS)

Line No.	Description	2020
1	Natural Gas	[redacted]
2	Distillate	
3	Interstate Transport Costs	
4	Greenhouse Gas Costs	
5	Total Requirement	

Note: Totals may not add due to rounding.

TABLE 4-2
2020 NUCLEAR FUEL EXPENSE FORECAST
(THOUSANDS OF DOLLARS)

Line No.	Description	2020
1	Amortization (Burn-Up) Expense	[redacted]
2	DOE Spent Fuel Fee	
3	Miscellaneous Engineering Expenses and Fuelco	
4	Nuclear Fuel Inventory Carrying Costs	
5	Total Requirement	

Note: Totals may not add due to rounding.

TABLE 4-3
SUMMARY OF 2020 UOG FUEL COST FORECAST
(THOUSANDS OF DOLLARS)

Line No.	Description	2020
1	PCIA	[redacted]
2	Fossil Fuel	
3	Nuclear Fuel	
4	Water Costs	
5	Fuel Cell Fuel	
6	ERRA	
7	Energy Storage Charging	
8	Total Requirement	

Note: Totals may not add due to rounding.

TABLE 5-1
SUMMARY OF 2020 MONTHLY PURCHASED POWER COST FORECAST

Line No.	Purchased Power Cost Element	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total-20
1	Qualifying Facilities													
2	Ongoing CTC-Eligible													
3	Generation, MWh													
4	Energy & Capacity, ($000s)													
5	CHP CAM-Eligible													
6	Generation, MWh													
7	Energy & Capacity, ($000s)													
8	Other													
9	Generation, MWh													
10	Energy & Capacity, ($000s)													
11	Total													
12	Generation, MWh													
13	Energy & Capacity, ($000s)													
14	Irrigation Districts and Water Agencies													
15	Ongoing CTC-Eligible													
16	Generation, MWh													
17	Total Payments, ($000s)													
18	Metropolitan Water District													
19	Ongoing CTC-Eligible													
20	Generation, MWh	4,300	2,722	3,936	2,955	6,935	4,182	7,985	0	0	0	0	0	33,015
21	Total Payments, ($000s)													
22	TOTAL QF and Legacy PPAs													
23	Total Generation, MWh													
24	Total Payments, ($000s)													
25	Ongoing CTC-Eligible (a)													
26	Total Generation, MWh													
27	Total Payments, ($000s)													

Notes:
(a) Line 26 MWh sums lines 3, 16 and 20. Line 27 $000 sums lines 4, 17 and 21.
Totals may not add due to rounding.

TABLE 6-1
2020 POST-2002 CONTRACTED RESOURCES
($ MILLIONS)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	Energy Supply / Demand Procurement Costs ($)													
2	Cost Allocation Mechanism (CAM)													
3	Post-2002 Contracted Resources													
4	Other Bilateral Contracts													
5	Fossil Contracts - Non-CHP													
6	Fossil Contracts - CHP													
7	Energy Storage													
8	**Subtotal (CAM)**													
9	Power Charge Indifference Adjustment (PCIA)													
10	Post-2002 Contracted Resources													
11	RPS Eligible													
12	RPS-Eligible Contracts													
13	RPS-Eligible Contracts - Sales													
14	RPS-Eligible Future Contracts													
15	RPS-Eligible Future Sales													
16	Other Bilateral Contracts													
17	Fossil Contracts - Non-CHP													
18	Fossil Contracts - CHP													
19	Large Hydro													
20	Non-RPS-Eligible Hydro Sales													
21	Energy Storage													
22	RA Contracts													
23	RA Contracts - Sales													
24	Residual Capacity Sales													
25	**Subtotal (PCIA)**													
26	Tree Mortality Non-Bypassable Charge (TMNBC)													
27	Post-2002 Contracted Resources													
28	RPS Eligible													
29	RPS-Eligible Contracts													
30	RPS-Eligible Contracts - Sales													
31	RPS-Eligible Future Contracts													
32	RPS-Eligible Future Sales													
33	RA Contracts - Sales													
34	**Subtotal (TMNBC)**													
35	Energy Resource Recovery Account (ERRA)													
36	Residual Capacity Purchases													
37	**Total Supply**													

Note: Totals may not add due to rounding.

TABLE 7-1
FORECAST OF NATURAL GAS AND ELECTRIC HEDGE TRANSACTION COSTS
($ MILLIONS)

Line No.		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
1	Costs Incurred at Trade Execution													
2	Exchange and Broker Fees	[redacted]												
3	Option Premiums													
4	Total Costs Incurred at Trade Execution													
5	Costs Incurred at Trade Settlement													
6	Mark-to-market of Futures and Swaps on													
7	Market Value of Call Options/Swaptions on													
8	Total Costs Incurred at Trade Settlement													
9	Net Gas and Electric Hedging Costs													

TABLE 7-2
SUMMARY OF 2020 FORECAST COLLATERAL COSTS
(THOUSANDS OF DOLLARS)

Line No.	Collateral Costs	Amount
1	Collateral on Physical and Financial Transactions	$9,191.1
2	Net Interest Paid on Collateral Posted to PG&E	(462.7)
3	Total	$8,728.4

TABLE 7-3
2020 PROCUREMENT COSTS
($ MILLIONS)

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	CAISO Costs													
2	Grid Management Charges													
3	CTC													
4	ERRA													
5	PCIA													
6	TMNBC													
7	Bundled Load Requirement (ERRA)													
8	Other Load (ERRA)													
9	Interstate Gas Transportation Costs													
10	Cost Allocation Mechanism (CAM)													
11	Post-2002 Contracted Resources													
12	Other Bilateral Contracts													
13	Fossil Contracts - Non-CHP													
14	Fossil Contracts - CHP													
15	Power Charge Indifference Adjustment (PCIA)													
16	Utility-Owned Generation													
17	Fossil													
18	Post-2002 Contracted Resources													
19	Other Bilateral Contracts													
20	Fossil Contracts - Non-CHP													
21	**Total Costs**													

TABLE 8-1
2020 CAM FORECAST REVENUE REQUIREMENT
(THOUSANDS OF DOLLARS)

Line No.	Description	2020
1	CAM-eligible Contract Costs - Table 5-1, Line 7	[redacted]
2	CAM-eligible Contract Costs - Table 6-1, Line 8	
3	Total CAM-eligible Contract Costs	$328,086
4	CAISO Market Revenues	(168,322)
5	Net Capacity Costs	$159,764
6	RF&U @ 0.011349(a)	1,813
7	CAM Revenue Requirement	$161,578

Notes:

(a) The RF&U factor of 0.011349 is from Advice Letter 4020-G/5389-E, effective January 1, 2019.

Totals may not add due to rounding.

TABLE 9-1
IOU TOTAL PORTFOLIO SUMMARY
PURSUANT TO D.17-08-026, AND MODIFIED TO COMPLY WITH OP 3 OF D.18-10-019
(THOUSANDS OF DOLLARS)

Line No.		Vintage Portfolios													
		Pre-2002 CTC-Eligible	UOG Legacy	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1.	CRS Eligible Portfolio Costs ($000)	$165,686	$1,976,478	$2,200,950	$417,175	$142,306	$118,492	$55,022	$1,600	$14,728	$14,985	-$11,413	$10,561	$2,500	$336
2.	CRS Eligible Non-Renewable Supply at Customer Meter (GWh)	1,726	24,351	12,478	-1,264	126	161	0	0	18	0	0	0	0	5
3.	CRS Eligible Renewable Supply at Customer Meter (GWh)	149	412	4,812	2,717	654	688	570	17	173	93	50	48	13	0
4.	CRS Eligible Total Net Qualifying Capacity (MW)														
5.	CRS Eligible System NQC (System only, No flex or local)	23	2,576	324	95	46	80	38	0	5	0	1	0	15	0
6.	CRS Eligible Local NQC (System and local, with or without flex)	282	1,862	2,290	92	160	87	7	1	5	41	2	0	-20	0
7.	CRS Eligible Flexible NQC (System and flex only, No local)	0	270	611	0	0	0	0	0	0	0	0	0	0	0

To comply with D. 18-10-019, OP 3 and subsequent direction from the CPUC's Energy Division, PG&E, in October 2018, submitted revisions to the confidential version of PG&E's uniform common spreadsheet template for calculation of the PCIA rates. The table above reflects one of the worksheets included in the template.

TABLE 9-2
INDIFFERENCE CALCULATION INPUTS AND SOURCES
PURSUANT TO D.17-08-026, AND MODIFIED TO COMPLY WITH OP 3 OF D.18-10-019
(THOUSANDS OF DOLLARS)

Line No.	Description	Source of Data	Value
1.	On Peak NP 15 Price ($/MWh)	As provided by Energy Division (ED) on Nov 1, 2019	$36.88
2.	Off Peak NP 15 Price ($/MWh)	As provided by ED on Nov 1, 2020	$29.93
3.	On Peak Load Weight (%)	2018 Recorded Load - On Peak Hours	60.6%
4.	Off Peak Load Weight (%)	2018 Recorded Load - Off Peak Hours	39.4%
5.	Load Weighted Average Price ($/MWh) [1]	Line 1 x Line 3 + Line 2 x Line 4	$34.14
6.	Green/RPS Adder ($/MWh)	As provided by ED on Nov 1, 2020	$17.35
7.	Green Benchmark ($/MWh)	Line 6 + Line 5	$51.49
8.	System RA Benchmark ($/kW-Year)	As provided by ED on Nov 1, 2020 ($4.59kW-Month x 12)	$55.08
9.	Local RA Benchmark ($/kW-Year)	As provided by ED on Nov 1, 2020 ($4.11kW-Month x 12)	$49.32
10.	Flexible RA Benchmark ($/kW-Year)	As provided by ED on Nov 1, 2020 ($4.41kW-Month x 12)	$52.92
11.	Line Loss Adjustment Factor	Resolution E-4475	6%

To comply with D. 18-10-019, OP 3 and subsequent direction from the CPUC's Energy Division, PG&E, in October 2018, submitted revisions to the confidential version of PG&E's uniform common spreadsheet template for calculation of the PCIA rates. The table above reflects one of the worksheets included in the template.

TABLE 9-3
2020 INDIFFERENCE CALCULATION PURSUANT TO D.17-08-026, AND MODIFIED TO COMPLY WITH OP 3 OF D.18-10-019

Line No.	Description	Equation	Unit	Pre-2002 CTC-Eligible	UOG Legacy	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Cost of Portfolio																
1.	Total Portfolio Cost	Table 9-1, Line 1	$000	165,686	1,976,478	2,200,950	417,175	142,306	118,492	55,022	1,600	14,728	14,985	(11,413)	10,561	2,500	336
2.	CRS Eligible Non-Renewable Supply at Customer Meter	Table 9-1, Line 2	GWh	1,726	24,351	12,478	(1,264)	126	161	0	0	18	0	0	0	0	5
3.	CRS Eligible Renewable Supply at Customer Meter	Table 9-1, Line 3	GWh	149	412	4,812	2,717	654	688	570	17	173	93	50	48	13	0
4.	CRS Eligible System NQC	Table 9-1, Line 4	MW	23	2,576	324	95	46	80	38	0	5	0	1	0	15	0
5.	CRS Eligible Local NQC	Table 9-1, Line 5	MW	282	1,862	2,290	92	160	87	7	1	5	41	2	0	(20)	0
6.	CRS Eligible Flexible NQC	Table 9-1, Line 6	MW	0	270	611	0	0	0	0	0	0	0	0	0	0	0
7.	**Portfolio Unit Cost**	**Line 1 / (Line 2 + Line 3)**	**$/MWh**	**$88.36**	**$79.82**	**$127.29**	**$287.05**	**$182.63**	**$139.56**	**$96.61**	**$95.84**	**$76.96**	**$160.87**	**-$229.81**	**$219.29**	**$198.97**	**$59.34**
8.	**Market Value of Portfolio**																
9.	**Market Value of Brown Portfolio**																
10.	Non-Renewable Energy	Line 2	GWh	1,726	24,351	12,478	(1,264)	126	161	0	0	18	0	0	0	0	5
11.	Platt's Weighted Price (Brown Benchmark)	Table 9-2, Line 5	$/MWh	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14	$34.14
12.	**Market Value of Brown Portfolio**	**Line 10 x Line 11**	**$000**	**$58,916**	**$831,408**	**$426,040**	**($43,154)**	**$4,286**	**$5,507**	**$0**	**$0**	**$613**	**$0**	**$0**	**$0**	**$0**	**$178**
13.	**Market Value of Green Portfolio**																
14.	Renewable Energy	Line 3	GWh	149	412	4,812	2,717	654	688	570	17	173	93	50	48	13	0
15.	Weighted Average Green Benchmark	Table 9-2, Line 7	$/MWh	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49	$51.49
16.	**Market Value of Green Portfolio**	**Line 14 x Line 15**	**$000**	**$7,694**	**$21,196**	**$247,774**	**$139,920**	**$33,658**	**$35,413**	**$29,327**	**$860**	**$8,931**	**$4,796**	**$2,557**	**$2,480**	**$647**	**$23**
17.	**Capacity Adder**																
18.	Average Monthly System NQC	Line 4	MW	23	2,576	324	95	46	80	38	0	5	0	1	0	15	0
19.	System RA Benchmark	Table 9-2, Line 8	$/kW-Year	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08	$55.08
20.	Average Monthly Local Area NQC	Line 5	MW	282	1,862	2,290	92	160	87	7	1	5	41	2	0	(20)	0
21.	Local RA Benchmark	Table 9-2, Line 9	$/kW-Year	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32	$49.32
22.	Average Monthly Flexible NQC	Line 6	MW	0	270	611	0	0	0	0	0	0	0	0	0	0	0
23.	Flexible RA Benchmark	Table 9-2, Line 10	$/kW-Year	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92	$52.92
24.	**Market Value of Capacity**	**Sum (Lines 18 x 19, 20 x 21, 22 x 23)**	**$000**	**$15,151**	**$247,995**	**$163,164**	**$9,738**	**$10,401**	**$8,695**	**$2,414**	**$55**	**$503**	**$2,015**	**$176**	**$0**	**($162)**	**$0**
25.	**Portfolio Market Value**	**Line 12 + Line 16 + Line 24**	$000	**$81,761**	**$1,100,599**	**$836,978**	**$106,503**	**$48,345**	**$49,615**	**$31,741**	**$914**	**$10,046**	**$6,812**	**$2,733**	**$2,480**	**$485**	**$201**
26.	**Line Loss Adjusted Portfolio Market value**	**Line 25 * (1 + Table 9-2, Line 11)**	$000	**$86,667**	**$1,166,634**	**$887,197**	**$112,894**	**$51,246**	**$52,592**	**$33,646**	**$969**	**$10,649**	**$7,220**	**$2,897**	**$2,629**	**$514**	**$213**
27.	**Indifference Amount**																
28.	**Portfolio Total Cost**	**Line 1**	$000	**$165,686**	**$1,976,478**	**$2,200,950**	**$417,175**	**$142,306**	**$118,492**	**$55,022**	**$1,600**	**$14,728**	**$14,985**	**($11,413)**	**$10,561**	**$2,500**	**$336**
29.	**Portfolio Unit Value**	**Line 26**	$000	**$86,667**	**$1,166,634**	**$887,197**	**$112,894**	**$51,246**	**$52,592**	**$33,646**	**$969**	**$10,649**	**$7,220**	**$2,897**	**$2,629**	**$514**	**$213**
30.	**Total Indifference Amount (Unadjusted)**	**Line 28 - Line 29**	$000	**$79,019**	**$809,844**	**$1,313,754**	**$304,282**	**$91,060**	**$65,900**	**$21,377**	**$631**	**$4,079**	**$7,764**	**($14,310)**	**$7,933**	**$1,986**	**$123**
31.	**DWR Revenue Requirement**		$000														
32.	**One-Time Adjustments (if applicable)**		$000														
33.	**Adjusted Indifference Amount**	**Sum (Lines 24:27)**	$000	**$79,019**	**$809,844**	**$1,313,754**	**$304,282**	**$91,060**	**$65,900**	**$21,377**	**$631**	**$4,079**	**$7,764**	**($14,310)**	**$7,933**	**$1,986**	**$123**
34.	**Revenue Franchise Fees & Allowances @ 0.011349**	**Advice 4020-G/4389-E**	$000	**$897**	**$9,191**	**$14,910**	**$3,453**	**$1,033**	**$748**	**$243**	**$7**	**$46**	**$88**	**($162)**	**$90**	**$23**	**$1**
35.	**Adjusted Indifference Amount with RF&U**	**Line 28 + Line 29**	$000	**$79,915**	**$819,035**	**$1,328,664**	**$307,735**	**$92,094**	**$66,648**	**$21,619**	**$638**	**$4,125**	**$7,852**	**-$14,472**	**$8,023**	**$2,009**	**$124**
36.	**Cummulative Adjusted Indifference Amount with RF&U**		$000	**$79,915**	**$819,035**	**$2,147,698**	**$2,455,433**	**$2,547,527**	**$2,614,175**	**$2,635,794**	**$2,636,432**	**$2,640,557**	**$2,648,410**	**$2,633,937**	**$2,641,960**	**$2,643,969**	**$2,644,093**

TABLE 10-1
SUMMARY OF 2020 ONGOING CTC FORECAST
REVENUE REQUIREMENT REQUEST
(THOUSANDS OF DOLLARS)

Line No.	Description	Reference	Cost
1	Qualifying Facilities (CTC Eligible)	Table 5-1, Line 4	[redacted]
2	Irrigation Districts and Water Agencies	Table 5-1, Line 17	
3	Metropolitan Water District	Table 5-1, Line 21	
4	Grid Management Charges	Table 7-3, Line 3	
5	Total (Sum of 1 through 4)	Table 9-3, Line 28	$165,686
6	Market Value (Benchmark)	Table 9-3, Line 29	86,667
7	Above Market Costs (line 5 – line 6)	Table 9-3, Line 33	$79,019
8	RF&U @ 0.011349[(a)]	Table 9-3, Line 34	897
9	2020 Ongoing CTC Revenue Requirement	Table 9-3, Line 35	$79,915

Notes:

(a) The Revenue Franchise & Uncollectible (RF&U) factor of 0.011349 is extracted from Tier 1 AL 4020-G/5389-E, effective January 1, 2019.

Totals may not add due to rounding.

TABLE 11-1
2020 TMNBC REVENUE REQUIREMENT
(THOUSANDS OF DOLLARS)

Line No.	Description	2020 Forecast
1	Tree Mortality Non-Bypassable Charge (TMNBC)	
2	Post-2002 Contracted Resources	
3	RPS Eligible	
4	RPS-Eligible Contracts (Table 6-1, Line 29)	[redacted]
5	RPS-Eligible Contracts - Sales (Table 6-1, Line 30)	
6	RPS-Eligible Future Contracts (Table 6-1, Line 31)	
7	RPS-Eligible Future Sales (Table 6-1, Line 32)	
8	Resource Adequacy Sales (Table 6-1, Line 33)	
9	CAISO Costs (GMCs) (Table 7-3, Line 6)	
10	**Net Costs**	**35,757**
11	RF&U @ 0.011349	**406**
12	**Total RRQ**	**36,163**

Notes:

(a) The Revenue Franchise & Uncollectible (RF&U) factor of 0.011349 is extracted from Tier 1 AL 4020-G/5389-E, effective January 1, 2019.

(b) RPS-Eligible sales include expected revenues for the sale of both renewable energy credits and energy.

(c) Resource adequacy sales include expected revenues for the sale of capacity.

Totals may not add due to rounding.

TABLE 11-2
BIORAM MEMO ACCOUNT ENTRIES THROUGH MAY 2019

Line No.	Description	Activity thru Jan-19*	ACTUALS Feb-19	Mar-19	Apr-19	May-19
1	**BioRAMMA Monthly Activity**	$ 10,284	$ 225	$ 608	$ 752	$ 875
2	Interest	156	22	23	24	26
3	**BioRAMMA Beginning Balance**	-	10,439	10,687	11,318	12,094
4	**BioRAMMA Ending Balance**	$ 10,439	$ 10,687	$ 11,318	$ 12,094	$ 12,995

Notes:
Activity through January 2019 was presented in Advice Letter 5478-E, submitted on February 19, 2019.
Totals may not add due to rounding.

TABLE 11-3
BIORAM MEMO ACCOUNT ENTRIES THROUGH MAY 2019

Line No.	Description	Activity thru Jan-19*	Actuals Feb-19	Mar-19	Apr-19	May-19
1	**BioMASSMA Monthly Activity**	$ 31,169	$ 1,750	$ 287	$ 2,104	$ 2,364
2	Interest	404	69	70	72	76
3	**BioMASSMA Beginning Balance**	-	31,573	33,392	33,749	35,924
4	**BioMASSMA Ending Balance**	$ 31,573	$ 33,392	$ 33,749	$ 35,924	$ 38,365

Notes:
Activity through January 2019 was presented in Advice Letter 5478-E, submitted on February 19, 2019.
Totals may not add due to rounding.

TABLE 11-4
TREE MORTALITY NON-BYPASSABLE CHARGE BALANCING ACCOUNT (TMNBCBA)

Line No.	Description	ACTUALS Jun-19	Jul-19	Aug-19	Sep-19	FORECAST Oct-19	Nov-19	Dec-19
1	**TMNBCBA Monthly Activity**	$ 44,487	$ 3,496	$ 2,069	$ 611	$ 7,349	$ 2,871	$ 3,074
2	Interest	836	91	91	89	129	137	144
3	**TMNBCBA Beginning Balance**	-	45,323	48,910	51,070	51,770	59,248	62,256
4	**TMNBCBA Ending Balance**	$ 45,323	$ 48,910	$ 51,070	$ 51,770	$ 59,248	$ 62,256	$ 65,473

Notes:
Totals may not add due to rounding.

TABLE 11-5
TREE MORTALITY NON-BYPASSABLE CHARGE REVENUE REQUIREMENT

	[1]	[2]	[3] = [1] + [2]
Description	Net Costs * ($1000s)	TMNBCBA** ($1000s)	Total TMNBC Revenue Requirement ($1000s)
Tree Mortality NBC	$35,757	$65,473	$101,231
RF&U @ 0.011349	$406	$743	$1,149
Total	$36,163	$66,217	$102,380

* Table 11-1, line 10-12

** Table 11-4, EOY Balance

TABLE 12-1
2020 REVENUE REQUIREMENT
(THOUSANDS OF DOLLARS)

Line No.	Description	2020 Forecast
1	Energy Resource Recovery Account (ERRA)	
2	Bundled Load Energy Requirement (Table 7-3, Line 7)	[redacted]
3	Utility-Owned Generation	
4	Energy Storage (Table 4-3, Line 5)	[redacted]
5	Grid Management Charges (Table 7-3, Line 4)	
6	Other Load (Table 7-3, Line 8)	
7	Hedging (Table 7-1, Line 9)	
8	Collateral Interest Expense (Table 7-2, Line 3)	8,728
8a	Residual Capacity Purchases (Table 6-1, Line 36)	[redacted]
8b	ERRA GRC Costs	76,511
9	Resource RA and REC Market Benchmark Value (a)	
10	PCIA REC Value (from Table 9-3 calculations)	188,432
11	PCIA RA Value (from Table 9-3 calculations)	471,694
12	CTC REC Value (from Table 9-3 calculations)	2,748
13	CTC RA Value (from Table 9-3 calculations)	16,060
14	**Total Costs**	**2,378,935**
15	RF&U @ 0.011349 (b)	26,999
16	**Total RRQ**	**2,405,933**

Notes:

(a) RA and REC market benchmark values are calculated based on the NQC and Renewable Energy at the meter totals shown on lines 18, 20, 22, and 14, respectively, in Table 9-3. These values are multiplied by 1.06 and then multiplied by the appropriate benchmark adder (RA or RPS).

(b) The Revenue Franchise & Uncollectible (RF&U) factor of 0.011349 is extracted from Tier 1 AL 4020-G/5389-E, effective January 1, 2019.

Totals may not add due to rounding.

TABLE 13-1B
GTSR PROGRAM - 2020
E-GT OPTION - VINTAGE 2020

Line No.		E-1 cents/kwh	A1 cents/kwh	A-6 cents/kwh	A-10 cents/kwh	E-19 cents/kwh	LS-3 cents/kwh	AG cents/kwh	E-20 T cents/kwh	E-20 P cents/kwh	E-20 S cents/kwh
	Charges										
1	**Solar Generation Price**	6.420	6.420	6.420	6.420	6.420	6.420	6.420	6.420	6.420	6.420
2	PCIA	4.634	4.439	4.439	4.782	4.382	3.694	4.142	3.761	4.063	4.216
3	Renewable Integration	-	-	-	-	-	-	-	-	-	-
4	Marketing & Administration	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368
5	Resource Adequacy	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396
6	CAISO Charges	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
7	WREGIS Fees	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
8	**Sub Total**	**12.897**	**12.702**	**12.702**	**13.045**	**12.645**	**11.957**	**12.405**	**12.024**	**12.326**	**12.479**
9	**Credits**										
10	**Class Average Generation Rate**	10.945	10.645	10.645	11.188	10.369	8.725	10.099	8.916	9.504	9.975
11	Solar Value Adjustment										
12	TOD	-	-	-	-	-	-	-	-	-	-
13	RA	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398
14	Other	-	-	-	-	-	-	-	-	-	-
15	**Subtotal**	11.343	11.043	11.043	11.586	10.767	9.123	10.497	9.314	9.902	10.373
16	**2019 Premium (cents/kwh)**	**1.554**	**1.659**	**1.659**	**1.459**	**1.878**	**2.834**	**1.908**	**2.710**	**2.424**	**2.106**

TABLE 13-2B
GTSR PROGRAM - 2020
E-ECR OPTION - VINTAGE 2020

Line No.		E-1 cents/kwh	A1 cents/kwh	A-6 cents/kwh	A-10 cents/kwh	E-19 cents/kwh	LS-3 cents/kwh	AG cents/kwh	E-20 T cents/kwh	E-20 P cents/kwh	E-20 S cents/kwh
	Charges										
1											
2	PCIA	4.634	4.439	4.439	4.782	4.382	3.694	4.142	3.761	4.063	4.216
3	Renewable Integration	-	-	-	-	-	-	-	-	-	-
4	Marketing & Administration	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.365	0.365
5	Resource Adequacy	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396
6	CAISO Charges	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
7	WREGIS Fees	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
8	**Subtotal**	**6.474**	**6.279**	**6.279**	**6.622**	**6.222**	**5.534**	**5.982**	**5.601**	**5.903**	**6.056**
9	**Credits**										
10	**Class Average Generation Rate**	10.945	10.645	10.645	11.188	10.369	8.725	10.099	8.916	9.504	9.975
11	Solar Value Adjustment										
12	TOD	-	-	-	-	-	-	-	-	-	-
13	RA	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337
14	Other	-	-	-	-	-	-	-	-	-	-
15	**Subtotal**	11.282	10.982	10.982	11.525	10.706	9.062	10.436	9.253	9.841	10.312
16	**2019 Premium (cents/kwh)**	**(4.808)**	**(4.703)**	**(4.703)**	**(4.903)**	**(4.484)**	**(3.528)**	**(4.454)**	**(3.652)**	**(3.938)**	**(4.256)**

TABLE 14-2
2019 FORECAST YEAR END BALANCES
(THOUSANDS OF DOLLARS)

Line No.		Recorded Balance	Remove 2018 Prior Period Adjustments	Recorded Balance excluding the 2018 Prior Period Adjustments	Forecast Cost	Forecast Billed Revenue	One Time Adjustments (Tax Savings Act)	Forecast Interest	Forecast Balance	Revenue Franchise & Uncollectible (RF&U) @ 0.011349	Forecast Balalance with RF&U
		(A)	(B)	(C) = (A) - (B)	(D)	(E)	(F)	(G)	(H) = Σ (C..G)	(I)	(J) = (H) + (I)
1	ERRA	($486,307)	$141,267	($345,040)	$317,415	($677,937)	($5,540)	($3,622)	($714,724)	($8,111)	($722,835)
2	Ongoing CTC (i.e. MTCBA)	24,147	(817)	23,330	28,022	(19,396)		154	32,110	364	32,474
3	CAM Charge (i.e. NSGBA)	166,353	(140,450)	25,903	48,110	(31,624)		903	43,292	491	43,784
4	PABA	540,780		540,780	700,438	(470,448)	(169,658)	3,438	604,550	6,861	611,411
5	**Total**	**$244,972**	**$0**	**$244,972**	**$1,093,985**	**($1,199,406)**	**($175,198)**	**$874**	**($34,772)**	**($395)**	**($35,167)**

The RF&U factor of 0.011349 is extracted from Tier 1 AL 4020-G/5389-E, effective January 1, 2019.

TABLE 14-3
2019 FORECAST YEAR END PABA BALANCES
(THOUSANDS OF DOLLARS)

Line No.		Legacy UOG	Vin 2009	Vin 2010	Vin 2011	Vin 2012	Vin 2013	Vin 2014	Vin 2015	Vin 2016	Vin 2017	Vin 2018	Vin 2019	Total	2019 Authorized Forecast (d)[1,2]	Variance (e = c - d)
1	Recorded Balances from Jan to Sep 2019 (a)															
2	PCIA Billed Customer Revenue	(436,490)	(729,324)	(167,483)	(49,935)	(45,720)	(6,123)	7,834	2,557	378	(1,150)	(1,050)	(24,321)	(1,450,825)		
3	Portfolio Costs	1,517,843	1,719,330	411,513	134,853	140,972	54,788	(874)	15,097	(5,584)	4,269	1,665	400	3,994,269		
4	Energy Value	(1,180,547)	(145,842)	(40,122)	(9,523)	(13,262)	(14,608)	(279)	(391)	(587)	(802)	(0)	0	(1,405,965)		
5	RPS Value	(10,820)	(90,268)	(27,796)	(12,038)	(16,448)	(9,694)	(183)	(2,999)	(2,181)	(436)	(360)	0	(173,223)		
6	RA Value	(129,216)	(108,704)	(7,365)	(7,118)	(4,901)	(1,935)	(43)	(326)	(1,494)	(133)	(66)	0	(261,302)		
7	One Time Adjustments (2018 Brown Power True-Up)	0	(203,182)	7,128	1,353	15,373	2,849	432	4,420	3,373	683	0	0	(167,571)		
8	Interest	(1,823)	4,507	1,389	492	596	187	81	170	(174)	28	4	(61)	5,397		
9	Recorded Balances from Jan to Sep 2019	(241,053)	446,516	177,265	58,084	76,610	25,462	6,967	18,528	(6,268)	2,458	192	(23,981)	540,780		
10	Forecast from Oct to Dec 2019 (b)															
11	PCIA Billed Customer Revenue	(33,746)	(324,251)	(56,008)	(16,216)	(18,307)	(3,153)	(394)	(998)	1,730	(772)	(979)	(17,355)	(470,448)		
12	Portfolio Costs	493,540	498,604	77,472	27,659	23,424	7,178	83	2,777	3,519	1,225	1,183	0	1,136,664		
13	Energy Value	(226,987)	(206,997)	(17,811)	(8,762)	(10,128)	(5,577)	(53)	(1,839)	(962)	(359)	(222)	0	(479,695)		
14	RPS Value	4,934	42,622	10,711	6,049	8,574	5,034	110	1,554	1,163	198	187	0	81,135		
15	RA Value	(21,164)	(14,762)	(165)	(758)	(621)	4	2	(33)	(169)	(10)	10	0	(37,665)		
16	One Time Adjustments (Tax Savings Act)	(141,238)	(21,388)	(3,130)	(1,908)	(1,901)	(36)	(4)	(2)	(24)	(11)	(17)	0	(169,658)		
17	Interest	(646)	2,322	949	318	399	136	35	99	(20)	13	1	(170)	3,438		
18	Forecast Balances from Oct to Dec 2019	74,693	(23,851)	12,019	6,383	1,440	3,587	(220)	1,559	5,237	284	164	(17,525)	63,770		
19	Year-End 2019 Forecast (c = a + b)															
20	PCIA Billed Customer Revenue	(470,236)	(1,053,575)	(223,490)	(66,150)	(64,027)	(9,276)	7,440	1,559	2,109	(1,921)	(2,029)	(41,676)	(1,921,274)	(2,024,227)	102,953
21	Portfolio Costs	2,011,383	2,217,934	488,985	162,512	164,395	61,966	(791)	17,874	(2,065)	5,494	2,847	400	5,130,933	5,130,755	178
22	Energy Value	(1,407,534)	(352,839)	(57,933)	(18,285)	(23,391)	(20,185)	(332)	(2,230)	(1,549)	(1,161)	(222)	0	(1,885,660)	(2,203,161)	317,501
23	RPS Value	(5,886)	(47,646)	(17,085)	(5,990)	(7,874)	(4,661)	(73)	(1,444)	(1,018)	(239)	(173)	0	(92,088)	(283,665)	191,576
24	RA Value	(150,380)	(123,466)	(7,530)	(7,877)	(5,521)	(1,931)	(41)	(359)	(1,663)	(143)	(55)	0	(298,967)	(365,294)	66,327
25	One Time Adjustments	(141,238)	(224,570)	3,998	(554)	13,473	2,813	428	4,418	3,349	671	(17)	0	(337,229)	(167,571)	(169,658)
26	Interest	(2,469)	6,828	2,339	810	995	323	116	269	(193)	41	5	(230)	8,835	0	8,835
27	Year-End Balance Forecast	(166,361)	422,666	189,284	64,467	78,050	29,049	6,747	20,087	(1,031)	2,742	356	(41,506)	604,550	86,837	517,713
28	RF&U @ 0.011349 (Advice 4020-G/5389-E)	(1,888)	4,797	2,148	732	886	330	77	228	(12)	31	4	(471)	6,861		
29	**Total Year-End Balance Forecast with RF&U**	**(168,249)**	**427,462**	**191,432**	**65,198**	**78,936**	**29,379**	**6,824**	**20,315**	**(1,042)**	**2,773**	**360**	**(41,977)**	**611,411**		

Notes:

[1]The 2019 authorized forecast (d) is based on workpapers and appendices that were used to support the authorized amounts in D.19-02-023 and Advice 5527-E/5527-E-B. Advice 5527-E/5527-E-B was approved by the Commission on June 10, 2019.

[2]The authorized 2019 year-end balance of $87 million is due to the net impact from the use of system-level billing determinants for setting 2019 PCIA rates and the implementation of the 2018 brown power true-up.

TABLE 15-1
CONFIDENTIAL ANNUAL GHG EMISSIONS AND ASSOCIATED COSTS (TEMPLATE D-2)

Line No.	Description	2018 Forecast	2018 Recorded	2018 Final	2019 Forecast	2019 Recorded	2019 Final	2020 Forecast	2020 Recorded	2020 Final
1	Direct GHG Emissions (MT CO2e)									
2	Utility Owned Generation (UOG)	[redacted]								
3	Tolling Agreements									
4	Energy Imports (Specified)									
5	Energy imports (Unspecified)									
6	Qualifying Facility (QF) Contracts									
7	Contracts with Financial Settlement									
8	Subtotal									
9	Indirect GHG Emissions (MT CO2e)									
10	CAISO Market Purchases (Net Physical)	[redacted]								
11	Contract Purchases									
12	Subtotal									
13	**Total Emissions (MT CO2e)**	**3,534,260**	**3,843,666**	**4,231,474**	**(229,481)**	**(4,858,020)**	**-**	**(1,847,720)**	**-**	**-**
14	Proxy GHG Price ($/MT) (a)	15.55	15.24	15.31	16.33	17.29	-	17.78	-	-
15	GHG Costs ($)									
16	Direct GHG Costs (b)	[redacted]								
17	Direct GHG Costs - Financial Settlement									
18	Indirect GHG Costs									
19	Previous Year's Forecast Reconciliation (Line 21)	N/A	N/A		1,242,241	1,242,241		7,227,812	-	
20	**Total Costs ($)**	**54,253,389**	**55,495,629**	**62,723,441**	**(4,639,991)**	**(82,733,714)**		**(25,616,101)**	**-**	
21	Forecast Variance ($)	N/A	1,242,241	7,227,812	N/A	-		N/A	-	

Notes:

(a) The difference between PG&E's confidential 2020 forecast GHG price and the 2020 forecast GHG proxy price is less than five percent.

(b) D.15-01-024 directs utilities to calculate recorded direct GHG Costs as the sum of each month's weighted average cost (WAC) of compliance instruments held in inventory multiplied by that month's actual GHG emissions. Recorded and Final Direct GHG Costs presented here are consistent with the requirements of D.15-01-024, including accounting true-ups and adjustments to reflect updated information.

Totals may not add due to rounding.

TABLE 15-2
ILLUSTRATIVE ANNUAL GHG EMISSIONS AND ASSOCIATED COSTS (TEMPLATE D-2)

Line No.	Description	2018 Forecast	2018 Recorded	2018 Final	2019 Forecast	2019 Recorded	2019 Final	2020 Forecast	2020 Recorded	2020 Final
1	Direct GHG Emissions (MT CO2e)									
2	Utility Owned Generation (UOG)	[redacted]								
3	Tolling Agreements									
4	Energy Imports (Specified)									
5	Energy imports (Unspecified)									
6	Qualifying Facility (QF) Contracts									
7	Contracts with Financial Settlement									
8	Subtotal									
9	Indirect GHG Emissions (MT CO2e)									
10	CAISO Market Purchases (Net Physical)	[redacted]								
11	Contract Purchases									
12	Subtotal									
13	**Total Emissions (MT CO2e)**	**3,534,260**	**3,843,666**	**4,231,474**	**(229,481)**	**(4,858,020)**	**-**	**(1,847,720)**	**-**	**-**
14	Proxy GHG Price ($/MT) (a)	15.55	15.24	15.31	16.33	17.29	-	17.78	-	-
15	GHG Costs ($)									
16	Direct GHG Costs (b)	[redacted]								
17	Direct GHG Costs - Financial Settlement									
18	Indirect GHG Costs									
19	Previous Year's Forecast Reconciliation (Line 21)	N/A	N/A		537,893	537,893		7,227,812	-	
20	**Total Costs ($)**	**54,957,736**	**55,495,629**	**62,723,441**	**(3,209,533)**	**(83,438,061)**		**(25,626,126)**	**-**	
21	Forecast Variance ($)	N/A	537,893	7,227,812	N/A	-		N/A	-	

Notes:
(a) The difference between PG&E's confidential 2020 forecast GHG price and the 2020 forecast GHG proxy price is less than five percent.
(b) D.15-01-024 directs utilities to calculate recorded direct GHG Costs as the sum of each month's weighted average cost (WAC) of compliance instruments held in inventory multiplied by that month's actual GHG emissions. Recorded and Final Direct GHG Costs presented here are consistent with the requirements of D.15-01-024, including accounting true-ups and adjustments to reflect updated information.
Totals may not add due to rounding.

TABLE 15-3
REPORTING TEMPLATE TO CALCULATE WEIGHTED AVERAGE COST OF COMPLIANCE INSTRUMENTS AND DIRECT COSTS
(TEMPLATE C-1 OF REVISED ATTACHMENT C OF D.19-04-016)

Line No.	Compliance Period 3[a] Transaction Date	Transaction Type[b]	Quantity Pur/(Sales) (MT)	Purchase Price ($/MT)	Sales Price ($/MT)	Total Cost ($)	Total Sales ($)	Inventory Balance($)	Total Qty in Inventory (MT)	WAC Pricing ($/MT)
1	[redacted]									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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34										
35										
36										
37										
38										
39										
40										

TABLE 15-3
REPORTING TEMPLATE TO CALCULATE WEIGHTED AVERAGE COST OF COMPLIANCE INSTRUMENTS AND DIRECT COSTS
(TEMPLATE C-1 OF REVISED ATTACHMENT C OF D.19-04-016)
(CONTINUED)

Compliance Period 3[(a)]

Line No.	Transaction Date	Transaction Type[(b)]	Quantity Pur/(Sales) (MT)	Purchase Price ($/MT)	Sales Price ($/MT)	Total Cost ($)	Total Sales ($)	Inventory Balance($)	Total Qty in Inventory (MT)	WAC Pricing ($/MT)
41										
42										
43										
44										
45										
46										
47										
48										

Compliance Period 4[(a)]

	Transaction Date	Transaction Type (b)	Quantity Pur/(Sales) (MT)	Purchase Price ($/MT)	Sales Price ($/MT)	Total Cost ($)	Total Sales ($)	Inventory Balance($)	Total Qty in Inventory (MT)	WAC Pricing ($/MT)
49										
50										
51										
52										

TABLE 15-3
REPORTING TEMPLATE TO CALCULATE WEIGHTED AVERAGE COST OF COMPLIANCE INSTRUMENTS AND DIRECT COSTS
(TEMPLATE C-1 OF REVISED ATTACHMENT C OF D.19-04-016)
(CONTINUED)

Attachment A, Table-2

	Direct GHG Costs			True-Ups	Monthly BA Entry
Month	Direct Monthly Emissions (MT)	WAC Pricing ($/MT)	WAC x Direct Emissions Qty ($)	True-Up Value +/- ($)	Monthly Balancing Account Entries ($)
[redacted]					
			$ 32,819,934.87	$ 662,994.68	$ 33,482,929.55

Transaction Type Definition:

Purchase	Purchase of compliance instruments
Retirement	Compliance instruments retired to CARB or transferred to a third-party
Transfer	Transfer of compliance instruments procured for Compressor Station Obligations to GHG Compressor Station Portfolio
Carryforward	Transfer of compliance instruments procured during previous Compliance Period carried forward into the current Compliance Period inventory
Wacog Adjustment	Premium paid to a third-party relating to the purchase of compliance instruments.

Notes:

(a) PG&E tracks WAC by Compliance Period. This template includes the WAC calculation for compliance instruments procured for the purposes of complying with its ARB obligation for Compliance Period 2, Compliance Period 3 and Compliance Period 4.

(b) Retirements refer to transfers to third-party. There is no sales price for the transaction as we do not sell these compliance instruments to third-parties. We reduce our inventory based on the WAC as of the transferred-out date multiplied by the total quantity transferred.

(c) For monthly quantity emissions, the quantity reported is the snapshot of the best available data as of the last day of the respective month. Emissions quantity are continuously updated on at least a quarterly basis, and adjustments are made in subsequent month.

(d) Adjustments include quantity changes and/or revaluation of GHG direct costs based on latest WAC for quantities not yet surrendered or retired.

(e) Balancing account entry based on forecasted volumes and WAC; subject to change depending on adjustments described in (d) above.

TABLE 16-3
DETAIL OF ADMINISTRATIVE AND OUTREACH EXPENSES
(TEMPLATE D-3)
(THOUSANDS OF DOLLARS)

		2015		2016		2017		2018		2019		2020	
Line	Description	Forecast	Recorded	Forecast	Recorded	Forecast	Recorded	Forecast	Recorded	Forecast	Recorded*	Forecast	Recorded
1	**Utility Administrative**												
2	General Program Management	164	262	410	611	669	504	416	482	528	149	429	
3	IT/Billing System Enhancements	193	265	138	73	623	162	103	40	79	34	67	
4	Customer Inquiry Support Cost	709	224	120	129	117	179	272	256	294	104	332	
5	**Subtotal Administrative**	1,066	751	668	813	1,408	846	791	778	900	286	828	
6	**Utility Outreach**												
7	Marketing - Internal			-									
8	Marketing - Contract/Consultant												
9	Targetbase												
10	Customer Outreach & Education	826	332	286	209	245	206	151	124	183	66	237	
11	**Subtotal Outreach**	826	332	286	209	245	206	151	124	183	66	237	
12	**Utility Outreach and Administrative Expenses (Line 6 + Line 11)**	1,892	1,083	954	1,022	1,653	1,052	943	901	1,083	352	1,065	
13	**Additional (Non-Utility) Statewide Outreach**	-	-	-	-	-	-	-	-	-		-	
14	**Total Outreach and Administrative Expenses (Line 12 + Line 13)**	1,892	1,083	954	1,022	1,653	1,052	943	901	1,083	352	1,065	

Information not yet available

*The full year of 2019 recorded expenses are currently not available.
Note: Totals may not add up due to rounding

TABLE 17-4
TEMPLATE D-1: ANNUAL ALLOWANCE REVENUE RECEIPTS AND CUSTOMER RETURNS
(THOUSANDS OF DOLLARS)

Line	Description	2018 Forecast [1]	2018 Recorded [2]	2019 Forecast [1]	2019 Recorded [3]	2020 Forecast	2020 Recorded
1	**Proxy GHG Price ($/MT)**	$15.55	N/A	$16.33	N/A	$18.25	
2	**Allocated Allowances ('000 MT)**	24,120	23,354	23,109	23,109	22,646	
3	**Revenues**						
4	Prior Balance (From Line 26 of previous year)	(83,227)	(89,838)	14,367	26,121	(27,055)	
5	Allowance Revenue	(375,062)	(348,099)	(377,371)	(389,965)	(413,296)	
6	Interest		(420)		567		
7	Revenue or Franchise Fees and Uncollectibles (RF&U)	(4,645)		(3,642)		(4,407)	
8	**Subtotal Revenues**	(462,934)	(438,358)	(366,645)	(363,277)	(444,757)	
9	**Expenses [4]**						
10	Outreach and Administrative Expenses					1,206	
11	Franchise Fees and Uncollectibles						
12	Interest						
13	**Subtotal Expenses**	-	-	-	-	1,206	
14	**Allowance Revenue Approved for Clean Energy or Energy Efficiency Programs [5]**	50,478	50,478	56,606	42,107	50,853	
15	**Net GHG Revenues (Line 8 + Line 13 + Line 14)**	(412,456)	(387,880)	(310,039)	(321,170)	(392,698)	
16			-				
17	**Net GHG Revenues Available for Customers in Forecast Year (Line 15 + Line 16)**	(412,456)	(387,880)	(310,039)	(321,170)	(392,698)	
18	**GHG Revenue Returned to Eligible Customers [6]**						
19	EITE Customer Return	24,074	27,146	36,466	23,477	25,920	
20	Small Business Volumetric Return	-	3,513	-	(247)	-	
21	Residential Volumetric Return [7]	-	91	-	(20)	-	
22	**Subtotal EITE + Volumetric Returns**	24,074	30,750	36,466	23,211	25,920	
23	**Number of Households Eligible for the California Climate Credit**	4,926,010	4,860,914	4,936,379	4,889,973	4,989,533	
24	**Per-Household Semi-Annual Climate Credit (0.5 x (Line 17 + 22) ÷ Line 23)**	(39.42)	(39.42)	(27.70)	(27.70)	(36.75)	
25	**Revenue Distributed for the Climate Credit (2 x Line 23 x Line 24)**	(388,383)	(383,250)	(273,475)	(270,905)	(366,778)	
26	**Revenue Balance (Line 15 + Line 22 - Line 25)**	-	26,121	(97)	(27,055)	-	

Information not yet available

TABLE 17-4
TEMPLATE D-1: ANNUAL ALLOWANCE REVENUE RECEIPTS AND CUSTOMER RETURNS
(THOUSANDS OF DOLLARS)
(CONTINUED)

Note 1 "Forecast" are derived from that authorized by the Commission in D.18-01-009 and D.19-02-023

Note 2 2018 "Recorded" 2018 are extracted from the transactions recorded in GHGRBA. Pursuant to Electric Preliminary Statement Part GB, RF&U are excluded the transactions recorded in GHGRBA.

Note 3 2019 "Recorded" includes January to September 2019 recorded, plus October to December 2019 forecast.

Note 4 Pursuant to Electric Preliminary Statement GB, PG&E records the CPUC authorized forecast GHG expenses in the GHG Revenue Subaccount within the GHGRBA.

Note 5 The amount includes funding for the Solar on Multi-Family Affordable Housing (SOMAH), Disadvantaged Community Single-family Affordable Solar Housing (DAC SASH), Disadvantaged Community Green Tariff (DAC-GT), and Community Solar Green Tariff (CS-GT), as reflected in Table 17-1

Note 6 The 2019 recorded distribution of GHG Revenue and Climate Credit to eligible customers reflect actuals of September 2019, plus forecast of October Similar to Note 2, RF&U are excluded from the calculation.

Note 7 The recorded column is a result of the cummulative adjustments to the residential customers' bills, that relates to the periods prior to PG&E's implementation of the Residential Rate Reform Decision (D.15-07-001).

TABLE 17-5
FORECAST REVENUE REQUIREMENT AND REVENUES BY RATE SCHEDULE (TEMPLATE D-4)

	Bundled Customers				DA/CCA Customers			
Rate Schedule (A)	Forecast of kWh Sales (kWh) (B)	Forecast GHG Revenue Reqt ($) (C)	Rate Impact ($/kWh) (D)	Forecast GHG Revenue ($) (E)	Forecast of kWh Sales (kWh) (F)	Forecast GHG Revenue Reqt ($) (G)	Rate Impact ($/kWh) (H)	Forecast GHG Revenue ($) (I)
E-1	9,413,026,194	($13,952,799)	($0.00148)	$146,827,877	11,698,945,634	($17,341,186)	($0.00148)	$128,048,425
EL-1	4,475,103,949	($4,438,863)	($0.00099)	$63,263,799	2,207,230,076	($2,189,355)	($0.00099)	$28,614,707
A-1	2,525,012,479	($4,161,312)	($0.00165)	$2,086,540	3,952,680,671	($6,514,161)	($0.00165)	$23,256
A-6	600,787,847	($906,908)	($0.00151)	$107,382	822,534,657	($1,241,641)	($0.00151)	$577
A-15	13,735	($271)	($0.01972)	$0	405,656	($7,998)	($0.01972)	$0
TC-1	15,714,057	($23,021)	($0.00146)	$0	23,384,067	($34,257)	($0.00146)	$0
A-10 T	2,303,482	($2,275)	($0.00099)	$0	1,548,327	($1,529)	($0.00099)	$0
A-10 P	27,908,566	($41,161)	($0.00147)	$0	38,580,171	($56,900)	($0.00147)	$0
A-10 S	3,066,735,078	($5,445,744)	($0.00178)	$106,362	5,256,078,728	($9,333,464)	($0.00178)	$5,490
E-19 T	7,351,352	($7,650)	($0.00104)	$0	7,568,868	($7,876)	($0.00104)	$0
E-19 V T	8,131,882	($4,673)	($0.00057)	$0	3,815,312	($2,192)	($0.00057)	$0
E-19 P	347,482,789	($454,669)	($0.00131)	$253,164	440,778,086	($576,742)	($0.00131)	$118,417
E-19 V P	140,897,133	($163,436)	($0.00116)	$0	145,689,660	($168,995)	($0.00116)	$0
E-19 S	1,163,901,594	($2,561,970)	($0.00220)	$390,313	2,759,204,419	($6,073,536)	($0.00220)	$82,459
E-19 V S	2,565,785,825	($5,368,680)	($0.00209)	$0	5,911,364,451	($12,369,006)	($0.00209)	$0
Streetlights	86,876,530	($126,416)	($0.00146)	$0	158,033,043	($229,958)	($0.00146)	$0
Standby T	440,014,836	($238,423)	($0.00054)	$4,384,884	31,929,173	($17,301)	($0.00054)	$0
Standby P	11,406,733	($17,377)	($0.00152)	$327,449	16,628,273	($25,332)	($0.00152)	$0
Standby S	6,709,679	($3,893)	($0.00058)	$0	534,166	($310)	($0.00058)	$0
AG-1A	9,360,316	($13,886)	($0.00148)	$1,490	11,530,705	($17,106)	($0.00148)	$0
AG-RA	14,146,580	($7,500)	($0.00053)	$0	157,044	($83)	($0.00053)	$0
AG-VA	9,657,117	($5,638)	($0.00058)	$0	1,473,249	($860)	($0.00058)	$0
AG-4A	241,324,854	($154,107)	($0.00064)	$2,930	53,471,508	($34,146)	($0.00064)	$0
AG-5A	97,632,645	($59,668)	($0.00061)	$176	19,535,269	($11,939)	($0.00061)	$0
AG-1B	29,380,341	($33,630)	($0.00114)	$1,895	22,934,628	($26,252)	($0.00114)	$0
AG-RB	17,587,537	($10,206)	($0.00058)	$0	346,616	($201)	($0.00058)	$0
AG-VB	26,498,577	($15,385)	($0.00058)	$0	1,181,478	($686)	($0.00058)	$0
AG-4B	637,106,514	($538,147)	($0.00084)	$39,243	156,594,946	($132,272)	($0.00084)	$0
AG-4C	89,700,522	($59,705)	($0.00067)	$12,726	7,898,597	($5,257)	($0.00067)	$0
AG-5B	1,945,814,540	($1,361,636)	($0.00070)	$56,325	303,363,870	($212,287)	($0.00070)	$379
AG-5C	1,491,957,514	($1,158,352)	($0.00078)	$349,462	456,097,810	($354,113)	($0.00078)	$40,910
E-20 T	2,647,715,830	($3,482,112)	($0.00132)	$6,896,122	3,406,104,279	($4,479,498)	($0.00132)	$3,176,754
E-20 P	2,709,060,042	($3,924,580)	($0.00145)	$3,871,834	4,247,060,699	($6,152,661)	($0.00145)	$3,307,262
E-20 S	1,072,594,767	($1,524,050)	($0.00142)	$212,747	1,330,461,903	($1,890,454)	($0.00142)	$87,070
TOTALS	**35,944,701,438**	**($50,268,142)**	**($0.00140)**	**$229,192,721**	**43,495,146,040**	**($69,509,556)**	**($0.00160)**	**$163,505,706**

Residential California Climate Credit $36.75

Notes:

Totals may not add due to rounding.

TABLE 19-1
2020 AVERAGE GENERATION RATES FOR BUNDLED CUSTOMERS
REFLECTING REVENUES PRODUCED FROM CAPPED PCIA RATES (TABLE 19-3.2)

Line No.	Customer Class	Proposed Rate ($/kWh)
1	Residential	$0.10961
2	Small Commercial	$0.10661
3	Medium Commercial	$0.11205
4	Large Commercial	$0.10384
5	Streetlights	$0.08738
6	Standby	$0.08009
7	Agriculture	$0.10114
8	E-20 T	$0.08930
9	E-20 P	$0.09518
10	E-20 S	$0.09989

TABLE 19-2
2020 COMPETITIVE TRANSITION CHARGE (CTC) RATES

Line No.	Customer Class	Proposed Rate ($/kWh)
1	Residential	$0.00147
2	Small Commercial	$0.00140
3	Medium Commercial	$0.00151
4	Large Commercial	$0.00139
5	Streetlights	$0.00117
6	Standby	$0.00106
7	Agriculture	$0.00131
8	E-20 T	$0.00119
9	E-20 P	$0.00128
10	E-20 S	$0.00133

TABLE 19-3.1
2020 UNCAPPED RATES USING VINTAGED BILLING DETERMINANTS

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Residential	0.03414	0.04132	0.04364	0.04583	0.04659	0.04671	0.04709	0.04720	0.04699	0.04718	0.04602	0.04603
2	Small L&P	0.03271	0.03958	0.04181	0.04390	0.04464	0.04475	0.04512	0.04522	0.04502	0.04520	0.04409	0.04409
3	Medium L&P	0.03524	0.04264	0.04504	0.04730	0.04809	0.04821	0.04860	0.04871	0.04850	0.04869	0.04750	0.04750
4	E19	0.03229	0.03908	0.04127	0.04334	0.04407	0.04418	0.04454	0.04464	0.04445	0.04462	0.04353	0.04353
5	Streetlights	0.02723	0.03294	0.03480	0.03654	0.03715	0.03724	0.03755	0.03763	0.03747	0.03762	0.03670	0.03670
6	Standby	0.02468	0.02986	0.03154	0.03312	0.03368	0.03376	0.03404	0.03412	0.03397	0.03410	0.03327	0.03327
7	Agriculture	0.03052	0.03693	0.03901	0.04097	0.04165	0.04175	0.04210	0.04219	0.04201	0.04218	0.04114	0.04114
8	E20 T	0.02772	0.03354	0.03543	0.03720	0.03783	0.03792	0.03823	0.03832	0.03815	0.03830	0.03736	0.03737
9	E20 P	0.02987	0.03614	0.03817	0.04009	0.04076	0.04086	0.04119	0.04129	0.04111	0.04127	0.04026	0.04026
10	E20 S	0.03107	0.03759	0.03971	0.04170	0.04240	0.04250	0.04285	0.04295	0.04276	0.04293	0.04188	0.04188
11	System Average	0.03266	0.03952	0.04175	0.04385	0.04459	0.04470	0.04506	0.04517	0.04497	0.04515	0.04405	0.04405

TABLE 19-3.2
2020 CAPPED PCIA RATES USING VINTAGED BILLING DETERMINANTS

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Residential	0.02561	0.02877	0.03122	0.03109	0.03325	0.03372	0.03354	0.03340	0.03334	0.03336	0.03555	0.04603
2	Small L&P	0.02453	0.02756	0.02990	0.02979	0.03186	0.03230	0.03213	0.03199	0.03194	0.03196	0.03406	0.04409
3	Medium L&P	0.02643	0.02969	0.03222	0.03209	0.03432	0.03480	0.03461	0.03447	0.03441	0.03443	0.03669	0.04750
4	E19	0.02422	0.02721	0.02952	0.02941	0.03145	0.03189	0.03172	0.03158	0.03153	0.03155	0.03362	0.04353
5	Streetlights	0.02042	0.02293	0.02488	0.02479	0.02651	0.02688	0.02673	0.02662	0.02658	0.02660	0.02834	0.03670
6	Standby	0.01850	0.02079	0.02256	0.02247	0.02403	0.02437	0.02423	0.02413	0.02409	0.02411	0.02569	0.03327
7	Agriculture	0.02289	0.02571	0.02790	0.02779	0.02972	0.03014	0.02998	0.02985	0.02980	0.02982	0.03178	0.04114
8	E20 T	0.02079	0.02335	0.02534	0.02524	0.02699	0.02737	0.02722	0.02711	0.02706	0.02708	0.02886	0.03737
9	E20 P	0.02240	0.02516	0.02730	0.02720	0.02908	0.02949	0.02933	0.02921	0.02916	0.02918	0.03109	0.04026
10	E20 S	0.02330	0.02617	0.02840	0.02829	0.03026	0.03068	0.03051	0.03039	0.03033	0.03036	0.03235	0.04188
11	System Average	0.02435	0.02735	0.02968	0.02956	0.03162	0.03206	0.03189	0.03175	0.03170	0.03172	0.03380	0.04405

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TABLE 19-3.3
2020 ERRA FORECAST UNCAPPED PCIA RATES USING VINTAGED BILLING DETERMINANTS INCLUDING CAM RATE ADJUSTMENT

Line No.	Rate Group	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Residential	0.03410	0.04128	0.04361	0.04578	0.04654	0.04660	0.04681	0.04638	0.04568	0.04489	0.04342	0.04603
2	Small L&P	0.03267	0.03954	0.04177	0.04386	0.04459	0.04464	0.04484	0.04443	0.04376	0.04301	0.04160	0.04409
3	Medium L&P	0.03519	0.04260	0.04500	0.04725	0.04803	0.04809	0.04831	0.04786	0.04715	0.04633	0.04481	0.04750
4	E19	0.03225	0.03904	0.04124	0.04330	0.04402	0.04407	0.04427	0.04386	0.04321	0.04246	0.04107	0.04353
5	Streetlights	0.02719	0.03291	0.03477	0.03650	0.03711	0.03715	0.03732	0.03698	0.03642	0.03580	0.03462	0.03670
6	Standby	0.02465	0.02984	0.03152	0.03309	0.03364	0.03368	0.03383	0.03352	0.03302	0.03245	0.03139	0.03327
7	Agriculture	0.03048	0.03690	0.03898	0.04093	0.04160	0.04166	0.04184	0.04146	0.04084	0.04013	0.03882	0.04114
8	E20 T	0.02769	0.03351	0.03540	0.03717	0.03778	0.03783	0.03800	0.03765	0.03709	0.03645	0.03525	0.03737
9	E20 P	0.02983	0.03611	0.03814	0.04005	0.04071	0.04076	0.04094	0.04057	0.03996	0.03927	0.03798	0.04026
10	E20 S	0.03103	0.03756	0.03968	0.04166	0.04235	0.04240	0.04259	0.04220	0.04157	0.04085	0.03951	0.04188
11	System Average	0.03262	0.03949	0.04172	0.04381	0.04454	0.04459	0.04479	0.04439	0.04372	0.04298	0.04158	0.04405

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TABLE 19-4
2020 NEW SYSTEM GENERATION CHARGE RATES

Line No.	Customer Class	Proposed Rate ($/kWh)
1	Residential	$0.00335
2	Small Commercial	$0.00241
3	Medium Commercial	$0.00220
4	Large Commercial	$0.00220
5	Streetlights	$0.00225
6	Standby	$0.00484
7	Agriculture	$0.00222
8	E-20 T	$0.00191
9	E-20 P	$0.00191
10	E-20 S	$0.00191

TABLE 19-5
2020 TREE MORTALITY NON-BYPASSABLE CHARGE (TMNBC) RATES
(RECOVERED THROUGH PUBLIC PURPOSE PROGRAM (PPP) RATES AND DETAILED IN PREMINARY STATEMENT – PART I)

Line No.	Customer Class	Proposed Rate ($/kWh)
1	Residential	$0.00167
2	Small Commercial	$0.00120
3	Medium Commercial	$0.00106
4	Large Commercial	$0.00106
5	Streetlights	$0.00112
6	Standby	$0.00163
7	Agriculture	$0.00110
8	E-20 T	$0.00084
9	E-20 P	$0.00084
10	E-20 S	$0.00084

PACIFIC GAS AND ELECTRIC COMPANY

ATTACHMENT A

ILLUSTRATIVE TOTAL RATES BY CLASS

Pacific Gas & Electric Company
2020 ERRA November Update
Wednesday, January 01, 2020

BDLD RESULTS

Class/Schedule	Total Revenue At Present	Generation Revenue	TO Revenue	TAC Revenue	TRBAA Revenue	T-ECRA Revenue	RS Revenue	Dist Revenue	PPP Revenue	ND Revenue	DWR Bond Revenue	CTC Revenue	ECRA Revenue	NSGC Revenue	Residential & Small Business AB32 Credit Revenue	Climate Credit & EITE Revenue	CIA Revenue	PCIA Revenue	Total Proposed Revenue
RESIDENTIAL																			
E-1	$2,358,808,456	$1,031,722,251	$284,724,829	$58,172,465	-$26,638,847	-$981,919	-$7,884,244	$875,766,982	$131,249,375	$8,273,539	$44,860,139	$13,800,126	-$5,371,797	$31,505,998	$0	-$146,841,940	($8,100,465)		$2,284,256,493
EL-1	$671,634,100	$490,491,309	$135,361,181	$27,655,802	-$12,664,388	-$466,815	-$3,748,085	$57,990,041	$31,670,898	$3,933,518	$0	$6,560,802	-$2,553,839	$14,978,458	$0	-$63,259,754	($43,008,165)		$642,940,963
TOTAL RES	$3,030,442,556	$1,522,213,560	$420,086,010	$85,828,267	-$39,303,235	-$1,448,734	-$11,632,329	$933,757,023	$162,920,273	$12,207,057	$44,860,139	$20,360,928	-$7,925,636	$46,484,456	$0	-$210,101,694	($51,108,629)		$2,927,197,455
SMALL L&P																			
A-1	$651,709,366	$270,259,624	$61,082,041	$15,604,577	-$7,145,785	-$210,639	-$1,691,417	$242,183,604	$36,065,259	$2,219,337	$12,670,781	$3,546,282	-$1,440,966	$6,087,850	$0	-$2,086,540			$637,144,008
A-6	$145,612,262	$63,115,180	$14,542,378	$3,712,869	-$1,700,230	-$50,118	-$402,692	$51,701,592	$7,592,397	$528,057	$3,014,002	$843,783	-$342,856	$1,448,510	$0	-$107,382			$143,895,491
A-15	$10,324	$1,433	$332	$85	-$39	-$1	-$9	$8,123	$196	$12	$69	$19	-$8	$33	$0	$0			$10,246
TC-1	$3,866,237	$1,531,540	$380,114	$97,113	-$44,471	-$1,311	-$10,526	$1,589,449	$110,618	$13,812	$79,079	$22,070	-$8,968	$37,887	$0	$0			$3,796,407
TOTAL SMALL	$801,198,188	$334,907,778	$76,004,866	$19,414,644	-$8,890,524	-$262,070	-$2,104,644	$295,482,767	$43,768,471	$2,761,218	$15,763,931	$4,412,155	-$1,792,798	$7,574,281	$0	-$2,193,922			$784,846,152
MEDIUM L&P																			
A-10 T	$399,629	$216,910	$69,595	$14,236	-$6,519	-$176	-$1,927	$44,682	$28,153	$2,025	$11,592	$3,485	-$1,315	$5,070	$0	$0			$385,810
A-10 P	$6,104,437	$2,878,192	$895,377	$172,475	-$78,981	-$2,136	-$24,794	$1,498,503	$347,758	$24,530	$139,392	$42,228	-$15,927	$61,426	$0	$0			$5,938,043
A-10 S	$694,299,170	$343,907,861	$86,978,083	$18,952,423	-$8,678,860	-$234,721	-$2,408,502	$171,023,693	$38,958,769	$2,695,479	$15,347,971	$4,640,195	-$1,750,115	$6,749,830	$0	-$106,362			$676,075,745
TOTAL MEDIUM	$700,803,235	$347,002,962	$87,943,055	$19,139,133	-$8,764,360	-$237,033	-$2,435,223	$172,566,878	$39,334,681	$2,722,034	$15,498,955	$4,685,908	-$1,767,356	$6,816,327	$0	-$106,362			$682,399,598
E-19 CLASS																			
E-19 FIRM T	$949,367	$680,041	$193,829	$45,431	-$20,804	-$563	$4,888	$138,606	$84,752	$6,461	$36,995	$10,193	-$4,195	$16,180	$0	$0			$1,191,814
E-19 V T	$1,189,058	$712,675	$168,774	$50,255	-$23,013	-$622	$3,996	$63,998	$93,750	$7,147	$40,923	$11,275	-$4,641	$17,898	$0	$0			$1,142,416
Total E-19 T	$2,138,424	$1,392,716	$362,603	$95,686	-$43,818	-$1,185	$8,884	$202,605	$178,502	$13,609	$77,917	$21,468	-$8,836	$34,078	$0	$0			$2,334,230
E-19 FIRM P	$63,896,894	$32,961,853	$7,681,166	$2,147,444	-$983,376	-$26,596	$190,840	$12,640,066	$4,005,495	$305,417	$1,748,659	$481,789	-$198,300	$764,804	$0	-$253,164			$61,466,095
E-19 V P	$24,188,958	$12,949,435	$2,747,360	$870,744	-$398,739	-$10,784	$69,081	$4,254,986	$1,620,138	$123,840	$706,108	$195,355	-$80,407	$310,112	$0	$0			$23,357,231
Total E-19 P	$88,085,852	$45,911,288	$10,428,527	$3,018,188	-$1,382,115	-$37,379	$259,921	$16,895,052	$5,625,633	$429,257	$2,454,767	$677,144	-$278,707	$1,074,916	$0	-$253,164			$84,823,326
E-19 FIRM S	$241,101,865	$124,847,682	$25,349,764	$7,192,912	-$3,293,841	-$89,082	$636,668	$53,522,069	$14,199,892	$1,023,001	$5,840,017	$1,613,762	-$664,212	$2,561,727	$0	-$390,313			$232,350,046
E-19 V S	$510,383,134	$267,455,551	$49,654,607	$15,856,556	-$7,261,174	-$196,379	$1,251,742	$112,022,710	$31,256,107	$2,255,174	$12,839,602	$3,557,490	-$1,464,235	$5,647,250	$0	$0			$492,875,003
Total E-19 S	$751,484,999	$392,303,233	$75,004,371	$23,049,468	-$10,555,015	-$285,462	$1,888,410	$165,544,779	$45,455,999	$3,278,175	$18,679,619	$5,171,253	-$2,128,447	$8,208,977	$0	-$390,313			$725,225,048
E-19 T	$2,138,424	$1,392,716	$362,603	$95,686	-$43,818	-$1,185	$8,884	$202,605	$178,502	$13,609	$77,917	$21,468	-$8,836	$34,078	$0	$0			$2,334,230
E-19 P	$88,085,852	$45,911,288	$10,428,527	$3,018,188	-$1,382,115	-$37,379	$259,921	$16,895,052	$5,625,633	$429,257	$2,454,767	$677,144	-$278,707	$1,074,916	$0	-$253,164			$84,823,326
E-19 S	$751,484,999	$392,303,233	$75,004,371	$23,049,468	-$10,555,015	-$285,462	$1,888,410	$165,544,779	$45,455,999	$3,278,175	$18,679,619	$5,171,253	-$2,128,447	$8,208,977	$0	-$390,313			$725,225,048
TOTAL E-19	$841,709,275	$439,607,237	$85,795,500	$26,163,343	-$11,980,948	-$324,026	$2,157,215	$182,642,436	$51,260,133	$3,721,041	$21,212,303	$5,869,865	-$2,415,990	$9,317,971	$0	-$643,477			$812,382,604
STREETLIGHTS	$25,693,491	$7,591,152	$1,588,788	$536,897	-$245,861	-$5,479	-$43,995	$14,546,637	$647,844	$76,359	$437,194	$101,532	-$49,578	$195,783	$0	$0			$25,377,273
STANDBY																			
STANDBY T	$67,498,452	$35,036,632	$20,849,334	$2,719,292	-$1,245,242	-$25,534	-$402,997	$7,601,509	$5,364,706	$386,747	$2,214,314	$466,117	-$251,106	$2,129,933	$0	-$4,384,884			$70,458,819
STANDBY P	$4,653,371	$1,087,281	$565,182	$70,494	-$32,281	-$662	-$11,132	$2,653,701	$181,866	$10,026	$57,403	$12,083	-$6,510	$55,215	$0	-$327,449			$4,315,217
STANDBY S	$1,544,034	$568,351	$194,109	$41,466	-$18,988	-$389	-$2,710	$571,563	$101,602	$5,897	$33,766	$7,108	-$3,829	$32,479	$0	$0			$1,530,424
TOTAL STANDBY	$73,695,856	$36,692,263	$21,608,625	$2,831,251	-$1,296,511	-$26,585	-$416,840	$10,826,774	$5,648,174	$402,670	$2,305,482	$485,309	-$261,445	$2,217,627	$0	-$4,712,334			$76,304,460
AGRICULTURE																			
AG-1A	$3,735,336	$1,029,022	$175,106	$57,847	-$26,490	-$604	-$4,849	$2,255,443	$139,965	$8,227	$47,104	$12,266	-$5,342	$20,762	$0	-$1,490			$3,706,969
AG-RA	$4,142,779	$1,273,480	$264,644	$87,426	-$40,035	-$913	-$7,328	$2,190,315	$211,534	$12,434	$71,191	$18,538	-$8,073	$31,379	$0	$0			$4,104,592
AG-VA	$2,810,571	$857,250	$180,659	$59,681	-$27,330	-$623	-$5,003	$1,490,645	$144,403	$8,488	$48,598	$12,655	-$5,511	$21,421	$0	$0			$2,785,333
AG-4A	$80,914,943	$22,289,269	$4,514,537	$1,491,388	-$682,949	-$15,569	-$125,012	$47,132,340	$3,608,538	$212,110	$1,214,434	$316,238	-$137,719	$535,289	$0	-$2,930			$80,349,964
AG-5A	$24,986,078	$9,915,362	$1,826,443	$603,370	-$276,300	-$6,299	-$50,576	$10,242,168	$1,459,904	$85,813	$491,323	$127,940	-$55,717	$216,562	$0	-$176			$24,579,818
AG-1B	$9,566,587	$3,322,671	$549,627	$181,571	-$83,146	-$1,895	-$15,220	$4,818,021	$412,280	$25,824	$147,852	$38,501	-$16,767	$65,169	$0	-$1,895			$9,442,593
AG-RB	$5,325,555	$1,645,274	$329,015	$108,691	-$49,773	-$1,135	-$9,111	$2,849,511	$246,797	$15,458	$88,507	$23,047	-$10,037	$39,011	$0	$0			$5,275,257
AG-VB	$6,556,870	$2,298,178	$495,717	$163,761	-$74,991	-$1,710	-$13,727	$3,003,673	$371,842	$23,291	$133,350	$34,724	-$15,122	$58,777	$0	$0			$6,477,763
AG-4B	$201,512,084	$72,320,061	$11,918,544	$3,937,318	-$1,803,011	-$41,103	-$330,035	$98,194,156	$8,940,208	$559,979	$3,206,150	$834,880	-$363,582	$1,413,184	$0	-$39,243			$198,747,505
AG-4C	$23,983,759	$8,604,274	$1,678,055	$554,349	-$253,852	-$5,787	-$46,467	$11,091,131	$1,258,724	$78,841	$451,405	$117,546	-$51,190	$198,967	$0	-$12,726			$23,663,270
AG-5B	$449,629,343	$199,303,507	$36,400,940	$12,025,134	-$5,506,655	-$125,534	-$1,007,975	$160,580,851	$22,190,126	$1,710,256	$9,792,042	$2,549,843	-$1,110,431	$4,316,066	$0	-$56,325			$441,061,845
AG-5C	$282,595,870	$143,421,546	$27,910,500	$9,220,297	-$4,222,240	-$96,254	-$772,867	$70,323,972	$17,014,327	$1,311,343	$7,508,069	$1,955,097	-$851,426	$3,309,353	$0	-$349,462			$275,682,257
Total AG A	$116,589,707	$35,364,382	$6,961,389	$2,299,711	-$1,053,104	-$24,007	-$192,767	$63,310,912	$5,564,344	$327,073	$1,872,650	$487,637	-$212,361	$825,413	$0	-$4,596			$115,526,676
Total AG B	$979,170,069	$430,915,510	$79,282,398	$26,191,121	-$11,993,669	-$273,418	-$2,195,401	$350,861,317	$50,434,305	$3,724,992	$21,327,377	$5,553,638	-$2,418,555	$9,400,528	$0	-$459,652			$960,350,490
TOTAL AG	$1,095,759,776	$466,279,892	$86,243,787	$28,490,832	-$13,046,773	-$297,425	-$2,388,168	$414,172,228	$55,998,649	$4,052,065	$23,200,027	$6,041,275	-$2,630,916	$10,225,941	$0	-$464,248			$1,075,877,166
E-20 CLASS																			
E-20 FIRM T FPP T	$352,951,169	$236,428,550	$53,950,650	$16,362,884	-$7,493,036	-$165,123	$1,451,970	-$502,487	$26,079,526	$2,327,186	$13,324,263	$3,150,680	-$1,510,990	$5,062,187	$0	-$6,896,122			$341,570,138
TOTAL	$352,951,169	$236,428,550	$53,950,650	$16,362,884	-$7,493,036	-$165,123	$1,451,970	-$502,487	$26,079,526	$2,327,186	$13,324,263	$3,150,680	-$1,510,990	$5,062,187	$0	-$6,896,122			$341,570,138
E-20 FIRM P FPP P	$464,901,124	$257,855,736	$51,638,623	$16,741,991	-$7,666,640	-$168,949	$1,471,940	$74,799,197	$29,921,714	$2,381,104	$13,632,969	$3,473,747	-$1,545,998	$5,179,472	$0	-$3,871,834			$443,843,073
TOTAL	$464,901,124	$257,855,736	$51,638,623	$16,741,991	-$7,666,640	-$168,949	$1,471,940	$74,799,197	$29,921,714	$2,381,104	$13,632,969	$3,473,747	-$1,545,998	$5,179,472	$0	-$3,871,834			$443,843,073
E-20 FIRM S FPP S	$204,139,173	$107,144,747	$22,642,382	$6,628,636	-$3,035,443	-$66,892	$652,313	$40,588,640	$12,648,149	$942,748	$5,397,684	$1,430,748	-$612,105	$2,050,702	$0	-$212,747			$196,199,562
TOTAL	$204,139,173	$107,144,747	$22,642,382	$6,628,636	-$3,035,443	-$66,892	$652,313	$40,588,640	$12,648,149	$942,748	$5,397,684	$1,430,748	-$612,105	$2,050,702	$0	-$212,747			$196,199,562
E-20 T	$352,951,169	$236,428,550	$53,950,650	$16,362,884	-$7,493,036	-$165,123	$1,451,970	-$502,487	$26,079,526	$2,327,186	$13,324,263	$3,150,680	-$1,510,990	$5,062,187	$0	-$6,896,122			$341,570,138
E-20 P	$464,901,124	$257,855,736	$51,638,623	$16,741,991	-$7,666,640	-$168,949	$1,471,940	$74,799,197	$29,921,714	$2,381,104	$13,632,969	$3,473,747	-$1,545,998	$5,179,472	$0	-$3,871,834			$443,843,073
E-20 S	$204,139,173	$107,144,747	$22,642,382	$6,628,636	-$3,035,443	-$66,892	$652,313	$40,588,640	$12,648,149	$942,748	$5,397,684	$1,430,748	-$612,105	$2,050,702	$0	-$212,747			$196,199,562
TOTAL E-20	$1,021,991,466	$601,429,033	$128,231,655	$39,733,511	-$18,195,119	-$400,964	$3,576,223	$114,885,350	$68,649,389	$5,651,038	$32,354,917	$8,055,175	-$3,669,094	$12,292,361	$0	-$10,980,703			$981,612,772
SYSTEM	**$7,591,293,844**	**$3,755,723,877**	**$907,502,286**	**$222,137,877**	**-$101,723,330**	**-$3,002,317**	**-$13,287,761**	**$2,138,880,094**	**$428,227,614**	**$31,593,482**	**$155,632,948**	**$50,012,144**	**-$20,512,812**	**$95,124,746**	**$0**	**-$229,202,739**	**-$51,108,629**	**$0**	**$7,365,997,480**

AtchA-1

Pacific Gas & Electric Company
2020 ERRA November Update
Wednesday, January 01, 2020

BDLD RESULTS

Class/Schedule	Total Sales (kWh)	Revenue At Present Rates	Generation Rates	TO Rates	TAC Rates	TRBAA Rates	T-ECRA Rates	RS Rates	Dist Rates	PPP Rates	ND Rates	DWR Bond Rates	CTC Rates	ECRA Rates	NSGC Rates	Residential & Small Business AB32 Credit Rates	Climate Credit & EITE Rates	CIA Rates	PCIA Rates	Total Proposed Rates	Percent Change
RESIDENTIAL																					
E-1	9,413,026,194	$0.25059	$0.10961	$0.03025	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.09304	$0.01394	$0.00088	$0.00477	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01560	-$0.00086		$0.24267	-3.2%
EL-1	4,475,103,949	$0.15008	$0.10960	$0.03025	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.01296	$0.00708	$0.00088	$0.00000	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01414	-$0.00961		$0.14367	-4.3%
TOTAL RES	13,888,130,144	$0.21820	$0.10961	$0.03025	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.06723	$0.01173	$0.00088	$0.00323	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01513	-$0.00368		$0.21077	-3.4%
SMALL L&P																					
A-1	2,525,012,479	$0.25810	$0.10703	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.09591	$0.01428	$0.00088	$0.00502	$0.00140	-$0.00057	$0.00241	$0.00000	-$0.00083			$0.25233	-2.2%
A-6	600,787,847	$0.24237	$0.10505	$0.02421	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.08606	$0.01264	$0.00088	$0.00502	$0.00140	-$0.00057	$0.00241	$0.00000	-$0.00018			$0.23951	-1.2%
A-15	13,735	$0.75169	$0.10433	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.59140	$0.01430	$0.00088	$0.00503	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000			$0.74597	-0.8%
TC-1	15,714,057	$0.24604	$0.09746	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.10115	$0.00704	$0.00088	$0.00503	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000			$0.24159	-1.8%
TOTAL SMALL	3,141,528,117	$0.25503	$0.10661	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.09406	$0.01393	$0.00088	$0.00502	$0.00140	-$0.00057	$0.00241	$0.00000	-$0.00070			$0.24983	-2.0%
MEDIUM L&P																					
A-10 T	2,303,482	$0.17349	$0.09417	$0.03021	$0.00618	-$0.00283	-$0.00008	-$0.00084	$0.01940	$0.01222	$0.00088	$0.00503	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000			$0.16749	-3.5%
A-10 P	27,908,566	$0.21873	$0.10313	$0.03208	$0.00618	-$0.00283	-$0.00008	-$0.00089	$0.05369	$0.01246	$0.00088	$0.00499	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000			$0.21277	-2.7%
A-10 S	3,066,735,078	$0.22640	$0.11214	$0.02836	$0.00618	-$0.00283	-$0.00008	-$0.00079	$0.05577	$0.01270	$0.00088	$0.00500	$0.00151	-$0.00057	$0.00220	$0.00000	-$0.00003			$0.22045	-2.6%
TOTAL MEDIUM	3,096,947,126	$0.22629	$0.11205	$0.02840	$0.00618	-$0.00283	-$0.00008	-$0.00079	$0.05572	$0.01270	$0.00088	$0.00500	$0.00151	-$0.00057	$0.00220	$0.00000	-$0.00003			$0.22035	-2.6%
E-19 CLASS																					
E-19 FIRM T	7,351,352	$0.12914	$0.09251	$0.02637	$0.00618	-$0.00283	-$0.00008	$0.00066	$0.01885	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.16212	25.5%
E-19 V T	8,131,882	$0.14622	$0.08764	$0.02075	$0.00618	-$0.00283	-$0.00008	$0.00049	$0.00787	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.14049	-3.9%
Total E-19 T	15,483,234	$0.13811	$0.08995	$0.02342	$0.00618	-$0.00283	-$0.00008	$0.00057	$0.01309	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.15076	9.2%
E-19 FIRM P	347,482,789	$0.18389	$0.09486	$0.02211	$0.00618	-$0.00283	-$0.00008	$0.00055	$0.03638	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00073			$0.17689	-3.8%
E-19 V P	140,897,133	$0.17168	$0.09191	$0.01950	$0.00618	-$0.00283	-$0.00008	$0.00049	$0.03020	$0.01150	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.16578	-3.4%
Total E-19 P	488,379,922	$0.18036	$0.09401	$0.02135	$0.00618	-$0.00283	-$0.00008	$0.00053	$0.03459	$0.01152	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00052			$0.17368	-3.7%
E-19 FIRM S	1,163,901,594	$0.20715	$0.10727	$0.02178	$0.00618	-$0.00283	-$0.00008	$0.00055	$0.04599	$0.01220	$0.00088	$0.00502	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00034			$0.19963	-3.6%
E-19 V S	2,565,785,825	$0.19892	$0.10424	$0.01935	$0.00618	-$0.00283	-$0.00008	$0.00049	$0.04366	$0.01218	$0.00088	$0.00500	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.19210	-3.4%
Total E-19 S	3,729,687,420	$0.20149	$0.10518	$0.02011	$0.00618	-$0.00283	-$0.00008	$0.00051	$0.04439	$0.01219	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00010			$0.19445	-3.5%
E-19 T	15,483,234	$0.13811	$0.08995	$0.02342	$0.00618	-$0.00283	-$0.00008	$0.00057	$0.01309	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000			$0.15076	9.2%
E-19 P	488,379,922	$0.18036	$0.09401	$0.02135	$0.00618	-$0.00283	-$0.00008	$0.00053	$0.03459	$0.01152	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00052			$0.17368	-3.7%
E-19 S	3,729,687,420	$0.20149	$0.10518	$0.02011	$0.00618	-$0.00283	-$0.00008	$0.00051	$0.04439	$0.01219	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00010			$0.19445	-3.5%
TOTAL E-19	4,233,550,576	$0.19882	$0.10384	$0.02027	$0.00618	-$0.00283	-$0.00008	$0.00051	$0.04314	$0.01211	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00015			$0.19189	-3.5%
STREETLIGHTS	86,876,530	$0.29575	$0.08738	$0.01829	$0.00618	-$0.00283	-$0.00006	-$0.00051	$0.16744	$0.00746	$0.00088	$0.00503	$0.00117	-$0.00057	$0.00225	$0.00000	$0.00000			$0.29211	-1.2%
STANDBY																					
STANDBY T	440,014,836	$0.15340	$0.07963	$0.04738	$0.00618	-$0.00283	-$0.00006	-$0.00092	$0.01728	$0.01219	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	-$0.00997			$0.16013	4.4%
STANDBY P	11,406,733	$0.40795	$0.09532	$0.04955	$0.00618	-$0.00283	-$0.00006	-$0.00098	$0.23264	$0.01594	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	-$0.02871			$0.37830	-7.3%
STANDBY S	6,709,679	$0.23012	$0.08471	$0.02893	$0.00618	-$0.00283	-$0.00006	-$0.00040	$0.08518	$0.01514	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	$0.00000			$0.22809	-0.9%
TOTAL STANDBY	458,131,249	$0.16086	$0.08009	$0.04717	$0.00618	-$0.00283	-$0.00006	-$0.00091	$0.02363	$0.01233	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	-$0.01029			$0.16656	3.5%
AGRICULTURE																					
AG-1A	9,360,316	$0.39906	$0.10993	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.24096	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00016			$0.39603	-0.8%
AG-RA	14,146,580	$0.29285	$0.09002	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.15483	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000			$0.29015	-0.9%
AG-VA	9,657,117	$0.29104	$0.08877	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.15436	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000			$0.28842	-0.9%
AG-4A	241,324,854	$0.33529	$0.09236	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.19531	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00001			$0.33295	-0.7%
AG-5A	97,632,645	$0.25592	$0.10156	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.10491	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000			$0.25176	-1.6%
AG-1B	29,380,341	$0.32561	$0.11309	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.16399	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00006			$0.32139	-1.3%
AG-RB	17,587,537	$0.30280	$0.09355	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.16202	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000			$0.29994	-0.9%
AG-VB	26,498,577	$0.24744	$0.08673	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.11335	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000			$0.24446	-1.2%
AG-4B	637,106,514	$0.31629	$0.11351	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.15413	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00006			$0.31195	-1.4%
AG-4C	89,700,522	$0.26738	$0.09592	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.12365	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00014			$0.26380	-1.3%
AG-5B	1,945,814,540	$0.23108	$0.10243	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.08253	$0.01140	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00003			$0.22667	-1.9%
AG-5C	1,491,957,514	$0.18941	$0.09613	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.04714	$0.01140	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00023			$0.18478	-2.4%
Total AG A	372,121,512	$0.31331	$0.09503	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.17014	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00001			$0.31045	-0.9%
Total AG B	4,238,045,545	$0.23104	$0.10168	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.08279	$0.01190	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00011			$0.22660	-1.9%
TOTAL AG	4,610,167,057	$0.23768	$0.10114	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.08984	$0.01215	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00010			$0.23337	-1.8%
E-20 CLASS																					
E-20 FIRM T	2,647,715,830	$0.13330	$0.08930	$0.02038	$0.00618	-$0.00283	-$0.00006	$0.00055	-$0.00019	$0.00985	$0.00088	$0.00503	$0.00119	-$0.00057	$0.00191	$0.00000	-$0.00260			$0.12901	-3.2%
FPP T																					
TOTAL	2,647,715,830	$0.13330	$0.08930	$0.02038	$0.00618	-$0.00283	-$0.00006	$0.00055	-$0.00019	$0.00985	$0.00088	$0.00503	$0.00119	-$0.00057	$0.00191	$0.00000	-$0.00260			$0.12901	-3.2%
E-20 FIRM P	2,709,060,042	$0.17161	$0.09518	$0.01906	$0.00618	-$0.00283	-$0.00006	$0.00054	$0.02761	$0.01105	$0.00088	$0.00503	$0.00128	-$0.00057	$0.00191	$0.00000	-$0.00143			$0.16384	-4.5%
FPP P																					
TOTAL	2,709,060,042	$0.17161	$0.09518	$0.01906	$0.00618	-$0.00283	-$0.00006	$0.00054	$0.02761	$0.01105	$0.00088	$0.00503	$0.00128	-$0.00057	$0.00191	$0.00000	-$0.00143			$0.16384	-4.5%
E-20 FIRM S	1,072,594,767	$0.19032	$0.09989	$0.02111	$0.00618	-$0.00283	-$0.00006	$0.00061	$0.03784	$0.01179	$0.00088	$0.00503	$0.00133	-$0.00057	$0.00191	$0.00000	-$0.00020			$0.18292	-3.9%
FPP S																					
TOTAL	1,072,594,767	$0.19032	$0.09989	$0.02111	$0.00618	-$0.00283	-$0.00006	$0.00061	$0.03784	$0.01179	$0.00088	$0.00503	$0.00133	-$0.00057	$0.00191	$0.00000	-$0.00020			$0.18292	-3.9%
E-20 T	2,647,715,830	$0.13330	$0.08930	$0.02038	$0.00618	-$0.00283	-$0.00006	$0.00055	-$0.00019	$0.00985	$0.00088	$0.00503	$0.00119	-$0.00057	$0.00191	$0.00000	-$0.00260			$0.12901	-3.2%
E-20 P	2,709,060,042	$0.17161	$0.09518	$0.01906	$0.00618	-$0.00283	-$0.00006	$0.00054	$0.02761	$0.01105	$0.00088	$0.00503	$0.00128	-$0.00057	$0.00191	$0.00000	-$0.00143			$0.16384	-4.5%
E-20 S	1,072,594,767	$0.19032	$0.09989	$0.02111	$0.00618	-$0.00283	-$0.00006	$0.00061	$0.03784	$0.01179	$0.00088	$0.00503	$0.00133	-$0.00057	$0.00191	$0.00000	-$0.00020			$0.18292	-3.9%
TOTAL E-20	6,429,370,638	$0.15896	$0.09354	$0.01994	$0.00618	-$0.00283	-$0.00006	$0.00056	$0.01787	$0.01068	$0.00088	$0.00503	$0.00125	-$0.00057	$0.00191	$0.00000	-$0.00171			$0.15268	-4.0%
SYSTEM	**35,944,701,438**	**$0.21119**	**$0.10449**	**$0.02525**	**$0.00618**	**-$0.00283**	**-$0.00008**	**-$0.00037**	**$0.05950**	**$0.01191**	**$0.00088**	**$0.00433**	**$0.00139**	**-$0.00057**	**$0.00265**	**$0.00000**	**-$0.00638**	**-$0.00142**	**$0.00000**	**$0.20493**	**-3.0%**

AtchA-2

Pacific Gas & Electric Company
2020 ERRA November Update
Wednesday, January 01, 2020

DA/CCA RESULTS

Class/Schedule	Total Revenue At Present	TO Revenue	TAC Revenue	TRBAA Revenue	T-ECRA Revenue	RS Revenue	Dist Revenue	PPP Revenue	ND Revenue	DWR Bond Revenue	CTC Revenue	ECRA Revenue	NSGC Revenue	Residential & Small Business AB32 Credit Revenue	Climate Credit & EITE Revenue	CIA Revenue	PCIA Revenue	Total Proposed Revenue
RESIDENTIAL																		
E-1	$2,004,708,015	$353,865,645	$72,298,706	-$33,107,659	-$1,220,362	-$9,798,904	$1,096,012,520	$163,121,162	$10,282,634	$57,126,127	$17,151,437	-$6,676,319	$39,157,116	$0	-$128,040,237	$72,397,482	$388,544,957	$2,091,114,303
EL-1	$131,981,997	$66,753,264	$13,638,438	-$6,245,433	-$230,209	-$1,848,647	$27,669,351	$15,618,479	$1,939,811	$0	$3,235,947	-$1,259,615	$7,387,740	$0	-$28,612,877	-$21,288,852	$73,427,675	$150,185,070
TOTAL RES	$2,136,690,012	$420,618,908	$85,937,144	-$39,353,093	-$1,450,571	-$11,647,551	$1,123,681,870	$178,739,641	$12,222,445	$57,126,127	$20,387,384	-$7,935,934	$46,544,856	$0	-$156,653,114	$51,108,629	$461,972,632	$2,241,299,374
SMALL L&P																		
A-1	$657,159,430	$95,613,991	$24,427,567	-$11,186,086	-$329,737	-$2,647,638	$362,146,186	$56,495,959	$3,474,173	$19,861,606	$5,551,387	-$2,255,704	$9,529,984	$0	-$23,256		$125,457,048	$686,115,479
A-6	$127,326,443	$19,910,333	$5,083,264	-$2,327,773	-$68,617	-$551,336	$68,241,281	$10,388,049	$722,959	$4,117,125	$1,155,218	-$469,402	$1,983,146	$0	-$577		$26,006,653	$134,190,325
A-15	$234,903	$9,813	$2,507	-$1,148	-$34	-$272	$204,549	$5,802	$357	$2,033	$570	-$231	$978	$0	$0		$12,932	$237,854
TC-1	$3,928,260	$565,648	$144,514	-$66,177	-$1,951	-$15,663	$2,345,049	$164,611	$20,553	$117,677	$32,842	-$13,345	$56,379	$0	$0		$763,804	$4,113,941
TOTAL SMALL	$788,649,037	$116,099,785	$29,657,851	-$13,581,184	-$400,339	-$3,214,909	$432,937,065	$67,054,421	$4,218,042	$24,098,441	$6,740,017	-$2,738,682	$11,570,487	$0	-$23,833		$152,240,437	$824,657,600
MEDIUM L&P																		
A-10 T	$156,860	$39,967	$9,569	-$4,382	-$119	-$1,107	$39,936	$18,923	$1,361	$7,792	$2,343	-$884	$3,408	$0	$0		$53,326	$170,133
A-10 P	$4,717,395	$928,887	$238,425	-$109,182	-$2,953	-$25,722	$1,867,591	$482,721	$33,910	$194,149	$58,375	-$22,017	$84,914	$0	$0		$1,318,487	$5,047,585
A-10 S	$696,856,798	$137,153,145	$32,482,567	-$14,874,702	-$402,288	-$3,797,895	$304,932,696	$66,854,876	$4,619,783	$26,366,036	$7,952,832	-$2,999,523	$11,568,538	$0	-$5,490		$170,589,129	$740,439,703
TOTAL MEDIUM	$701,731,053	$138,121,999	$32,730,561	-$14,988,266	-$405,359	-$3,824,724	$306,840,223	$67,356,520	$4,655,054	$26,567,978	$8,013,549	-$3,022,423	$11,656,860	$0	-$5,490		$171,960,942	$745,657,421
E-19 CLASS																		
E-19 FIRM T	$712,188	$199,148	$46,776	-$21,420	-$579	$5,022	$184,599	$87,259	$6,653	$38,089	$10,494	-$4,319	$16,659	$0	$0		$234,059	$802,440
E-19 V T	$337,271	$99,753	$23,579	-$10,797	-$292	$2,515	$45,595	$43,986	$3,353	$19,200	$5,290	-$2,177	$8,397	$0	$0		$119,809	$358,212
Total E-19 T	$1,049,458	$298,901	$70,354	-$32,217	-$871	$7,537	$230,194	$131,245	$10,006	$57,289	$15,784	-$6,497	$25,056	$0	$0		$353,869	$1,160,652
E-19 FIRM P	$45,407,231	$9,213,088	$2,724,009	-$1,247,402	-$33,736	$232,008	$16,006,376	$5,080,926	$387,418	$2,218,155	$611,144	-$251,542	$970,145	$0	-$118,417		$11,643,860	$47,436,030
E-19 V P	$16,113,684	$3,657,418	$900,362	-$412,302	-$11,151	$91,656	$5,626,499	$1,679,390	$128,053	$733,163	$202,000	-$83,142	$320,660	$0	$0		$3,996,783	$16,829,391
Total E-19 P	$61,520,915	$12,870,506	$3,624,371	-$1,659,704	-$44,887	$323,664	$21,632,874	$6,760,316	$515,471	$2,951,318	$813,144	-$334,684	$1,290,805	$0	-$118,417		$15,640,643	$64,265,421
E-19 FIRM S	$300,209,267	$54,308,062	$17,051,883	-$7,808,548	-$211,183	$1,367,264	$120,266,817	$33,686,184	$2,425,178	$13,848,215	$3,825,667	-$1,574,614	$6,072,961	$0	-$82,459		$70,149,771	$313,325,197
E-19 V S	$617,566,009	$105,709,234	$36,532,232	-$16,729,161	-$452,442	$2,663,684	$250,582,085	$72,113,111	$5,195,741	$29,597,137	$8,196,172	-$3,373,479	$13,010,810	$0	$0		$142,061,965	$645,107,088
Total E-19 S	$917,775,276	$160,017,296	$53,584,116	-$24,537,709	-$663,625	$4,030,948	$370,848,901	$105,799,294	$7,620,919	$43,445,352	$12,021,840	-$4,948,094	$19,083,771	$0	-$82,459		$212,211,736	$958,432,284
E-19 T	$1,049,458	$298,901	$70,354	-$32,217	-$871	$7,537	$230,194	$131,245	$10,006	$57,289	$15,784	-$6,497	$25,056	$0	$0		$353,869	$1,160,652
E-19 P	$61,520,915	$12,870,506	$3,624,371	-$1,659,704	-$44,887	$323,664	$21,632,874	$6,760,316	$515,471	$2,951,318	$813,144	-$334,684	$1,290,805	$0	-$118,417		$15,640,643	$64,265,421
E-19 S	$917,775,276	$160,017,296	$53,584,116	-$24,537,709	-$663,625	$4,030,948	$370,848,901	$105,799,294	$7,620,919	$43,445,352	$12,021,840	-$4,948,094	$19,083,771	$0	-$82,459		$212,211,736	$958,432,284
TOTAL E-19	$980,345,649	$173,186,703	$57,278,841	-$26,229,630	-$709,384	$4,362,150	$392,711,970	$112,690,855	$8,146,395	$46,453,959	$12,850,768	-$5,289,274	$20,399,633	$0	-$200,876		$228,206,248	$1,023,858,357
STREETLIGHTS	$25,537,484	$2,890,090	$976,644	-$447,234	-$9,967	-$80,029	$16,888,306	$1,107,307	$138,902	$795,279	$184,691	-$90,186	$356,140	$0	$0		$3,755,205	$26,465,148
STANDBY																		
STANDBY T	$3,513,575	$1,453,343	$197,322	-$90,360	-$1,853	-$27,591	$685,381	$389,284	$28,064	$160,679	$33,823	-$18,221	$154,556	$0	$0		$773,656	$3,738,085
STANDBY P	$3,481,996	$562,228	$102,763	-$47,058	-$965	-$8,969	$2,450,421	$265,117	$14,615	$83,679	$17,615	-$9,489	$80,491	$0	$0		$67,944	$3,578,391
STANDBY S	$125,366	$18,564	$3,301	-$1,512	-$31	-$302	$82,911	$8,089	$470	$2,688	$566	-$305	$2,586	$0	$0		$12,955	$129,980
TOTAL STANDBY	$7,120,938	$2,034,135	$303,386	-$138,929	-$2,849	-$36,862	$3,218,713	$662,489	$43,149	$247,047	$52,004	-$28,015	$237,633	$0	$0		$854,556	$7,446,456
AGRICULTURE																		
AG-1A	$3,280,606	$215,708	$71,260	-$32,632	-$744	-$5,973	$2,543,107	$172,419	$10,135	$57,998	$15,110	-$6,580	$25,577	$0	$0		$339,714	$3,405,098
AG-RA	$38,455	$2,938	$971	-$444	-$10	-$81	$28,244	$2,348	$138	$790	$206	-$90	$348	$0	$0		$4,691	$40,049
AG-VA	$323,993	$27,561	$9,105	-$4,169	-$95	-$763	$231,624	$22,030	$1,295	$7,414	$1,931	-$841	$3,268	$0	$0		$39,340	$337,698
AG-4A	$13,513,934	$1,000,308	$330,454	-$151,324	-$3,450	-$27,699	$10,047,265	$799,561	$46,998	$269,043	$70,070	-$30,515	$118,607	$0	$0		$1,596,539	$14,065,857
AG-5A	$3,083,442	$365,452	$120,728	-$55,285	-$1,260	-$10,120	$1,797,645	$292,111	$17,170	$98,309	$25,599	-$11,148	$43,332	$0	$0		$578,759	$3,261,292
AG-1B	$5,558,345	$429,045	$141,736	-$64,905	-$1,480	-$11,881	$4,089,908	$321,831	$20,158	$115,415	$30,054	-$13,088	$50,872	$0	$0		$686,394	$5,794,060
AG-RB	$71,295	$6,484	$2,142	-$981	-$22	-$180	$48,937	$4,864	$305	$1,744	$454	-$198	$769	$0	$0		$10,330	$74,648
AG-VB	$236,954	$22,102	$7,302	-$3,344	-$76	-$612	$160,496	$16,579	$1,038	$5,946	$1,548	-$674	$2,621	$0	$0		$35,272	$248,199
AG-4B	$33,913,981	$2,929,469	$967,757	-$443,164	-$10,103	-$81,120	$23,869,237	$2,197,421	$137,638	$788,042	$205,206	-$89,365	$347,348	$0	$0		$4,593,855	$35,412,222
AG-4C	$1,940,150	$147,761	$48,813	-$22,353	-$510	-$4,092	$1,435,059	$110,837	$6,942	$39,749	$10,351	-$4,508	$17,520	$0	$0		$235,394	$2,020,965
AG-5B	$40,873,932	$5,675,119	$1,874,789	-$858,520	-$19,572	-$157,149	$21,844,797	$3,459,571	$266,639	$1,526,637	$397,535	-$173,123	$672,900	$0	-$379		$9,043,138	$43,552,382
AG-5C	$48,723,209	$8,532,359	$2,818,684	-$1,290,757	-$29,425	-$236,269	$20,472,143	$5,201,353	$400,883	$2,295,249	$597,682	-$260,285	$1,011,683	$0	-$40,910		$12,971,404	$52,443,796
Total AG A	$20,240,430	$1,611,967	$532,517	-$243,855	-$5,559	-$44,637	$14,647,886	$1,288,469	$75,736	$433,553	$112,916	-$49,174	$191,131	$0	$0		$2,559,042	$21,109,993
Total AG B	$131,317,865	$17,742,341	$5,861,223	-$2,684,023	-$61,187	-$491,301	$71,920,578	$11,312,455	$833,603	$4,772,782	$1,242,830	-$541,240	$2,103,712	$0	-$41,289		$27,575,787	$139,546,271
TOTAL AG	$151,558,295	$19,354,307	$6,393,740	-$2,927,878	-$66,746	-$535,938	$86,568,464	$12,600,925	$909,340	$5,206,335	$1,355,746	-$590,414	$2,294,844	$0	-$41,289		$30,134,830	$160,656,264
E-20 CLASS																		
E-20 FIRM T	$153,596,196	$54,668,044	$21,049,724	-$9,639,275	-$212,420	$1,572,001	-$10,335,008	$33,549,517	$2,993,765	$14,548,644	$4,053,133	-$1,943,785	$6,512,156	$0	-$3,176,754		$51,706,962	$165,346,705
FPP T	$3,312,053	$0	$0	$0	$0	$0	$77,340	$2,902,292	$258,984	$0	$0	$0	$0	$0	$0		$0	$3,238,616
TOTAL	$156,908,249	$54,668,044	$21,049,724	-$9,639,275	-$212,420	$1,572,001	-$10,257,668	$36,451,808	$3,252,749	$14,548,644	$4,053,133	-$1,943,785	$6,512,156	$0	-$3,176,754		$51,706,962	$168,585,320
E-20 FIRM P	$356,310,744	$79,261,197	$26,246,835	-$12,019,182	-$264,866	$2,266,564	$120,416,407	$46,909,013	$3,732,916	$21,372,744	$5,445,879	-$2,423,700	$8,119,986	$0	-$3,307,262		$72,574,689	$368,331,222
FPP P	$463,529	$0	$0	$0	$0	$0	$238,094	$213,725	$17,008	$0	$0	$0	$0	$0	$0		$0	$468,827
TOTAL	$356,774,272	$79,261,197	$26,246,835	-$12,019,182	-$264,866	$2,266,564	$120,654,501	$47,122,738	$3,749,924	$21,372,744	$5,445,879	-$2,423,700	$8,119,986	$0	-$3,307,262		$72,574,689	$368,800,049
E-20 FIRM S	$124,107,096	$24,807,588	$8,222,255	-$3,765,207	-$82,974	$712,072	$46,064,385	$15,688,946	$1,169,398	$6,695,365	$1,774,721	-$759,264	$2,543,720	$0	-$87,070		$25,246,469	$128,230,402
FPP S	$2,686,494	$0	$0	$0	$0	$0	$1,363,796	$1,249,909	$93,164	$0	$0	$0	$0	$0	$0		$0	$2,706,870
TOTAL	$126,793,590	$24,807,588	$8,222,255	-$3,765,207	-$82,974	$712,072	$47,428,182	$16,938,855	$1,262,561	$6,695,365	$1,774,721	-$759,264	$2,543,720	$0	-$87,070		$25,246,469	$130,937,272
E-20 T	$156,908,249	$54,668,044	$21,049,724	-$9,639,275	-$212,420	$1,572,001	-$10,257,668	$36,451,808	$3,252,749	$14,548,644	$4,053,133	-$1,943,785	$6,512,156	$0	-$3,176,754		$51,706,962	$168,585,320
E-20 P	$356,774,272	$79,261,197	$26,246,835	-$12,019,182	-$264,866	$2,266,564	$120,654,501	$47,122,738	$3,749,924	$21,372,744	$5,445,879	-$2,423,700	$8,119,986	$0	-$3,307,262		$72,574,689	$368,800,049
E-20 S	$126,793,590	$24,807,588	$8,222,255	-$3,765,207	-$82,974	$712,072	$47,428,182	$16,938,855	$1,262,561	$6,695,365	$1,774,721	-$759,264	$2,543,720	$0	-$87,070		$25,246,469	$130,937,272
TOTAL E-20	$640,476,111	$158,736,829	$55,518,814	-$25,423,664	-$560,259	$4,550,637	$157,825,015	$100,513,402	$8,265,233	$42,616,753	$11,273,733	-$5,126,749	$17,175,862	$0	-$6,571,086		$149,528,120	$668,322,642
SYSTEM	**$5,432,108,578**	**$1,031,042,756**	**$268,796,981**	**-$123,089,877**	**-$3,605,474**	**-$10,427,226**	**$2,520,671,626**	**$540,725,559**	**$38,598,560**	**$203,111,919**	**$60,857,892**	**-$24,821,677**	**$110,236,314**	**$0**	**-$163,495,688**	**$51,108,629**	**$1,198,652,968**	**$5,698,363,261**

AtchA-3

Pacific Gas & Electric Company
2020 ERRA November Update
Wednesday, January 01, 2020

DA/CCA RESULTS

Class/Schedule	Total Sales (kWh)	Revenue At Present Rates	TO Rates	TAC Rates	TRBAA Rates	T-ECRA Rates	RS Rates	Dist Rates	PPP Rates	ND Rates	DWR Bond Rates	CTC Rates	ECRA Rates	NSGC Rates	Residential & Small Business AB32 Credit Rates	Climate Credit & EITE Rates	CIA Rates	PCIA Rates	Total Proposed Rates	Percent Change
RESIDENTIAL																				
E-1	11,698,945,634	$0.17136	$0.03025	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.09368	$0.01394	$0.00088	$0.00488	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01094	$0.00619	$0.03321	$0.17874	4.3%
EL-1	2,207,230,076	$0.05980	$0.03024	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.01254	$0.00708	$0.00088	$0.00000	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01296	-$0.00965	$0.03327	$0.06804	13.8%
TOTAL RES	13,906,175,710	$0.15365	$0.03025	$0.00618	-$0.00283	-$0.00010	-$0.00084	$0.08080	$0.01285	$0.00088	$0.00411	$0.00147	-$0.00057	$0.00335	$0.00000	-$0.01127	$0.00368	$0.03322	$0.16117	4.9%
SMALL L&P																				
A-1	3,952,680,671	$0.16626	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.09162	$0.01429	$0.00088	$0.00502	$0.00140	-$0.00057	$0.00241	$0.00000	-$0.00001		$0.03174	$0.17358	4.4%
A-6	822,534,657	$0.15480	$0.02421	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.08296	$0.01263	$0.00088	$0.00501	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000		$0.03162	$0.16314	5.4%
A-15	405,656	$0.57907	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.50424	$0.01430	$0.00088	$0.00501	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000		$0.03188	$0.58635	1.3%
TC-1	23,384,067	$0.16799	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.10028	$0.00704	$0.00088	$0.00503	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000		$0.03266	$0.17593	4.7%
TOTAL SMALL	4,799,005,051	$0.16434	$0.02419	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.09021	$0.01397	$0.00088	$0.00502	$0.00140	-$0.00057	$0.00241	$0.00000	$0.00000		$0.03172	$0.17184	4.6%
MEDIUM L&P																				
A-10 T	1,548,327	$0.10131	$0.02581	$0.00618	-$0.00283	-$0.00008	-$0.00071	$0.02579	$0.01222	$0.00088	$0.00503	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000		$0.03444	$0.10988	8.5%
A-10 P	38,580,171	$0.12228	$0.02408	$0.00618	-$0.00283	-$0.00008	-$0.00067	$0.04841	$0.01251	$0.00088	$0.00503	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000		$0.03418	$0.13083	7.0%
A-10 S	5,256,078,728	$0.13258	$0.02609	$0.00618	-$0.00283	-$0.00008	-$0.00072	$0.05802	$0.01272	$0.00088	$0.00502	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000		$0.03246	$0.14087	6.3%
TOTAL MEDIUM	5,296,207,227	$0.13250	$0.02608	$0.00618	-$0.00283	-$0.00008	-$0.00072	$0.05794	$0.01272	$0.00088	$0.00502	$0.00151	-$0.00057	$0.00220	$0.00000	$0.00000		$0.03247	$0.14079	6.3%
E-19 CLASS																				
E-19 FIRM T	7,568,868	$0.09409	$0.02631	$0.00618	-$0.00283	-$0.00008	$0.00066	$0.02439	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000			$0.03092	$0.10602	12.7%
E-19 V T	3,815,312	$0.08840	$0.02615	$0.00618	-$0.00283	-$0.00008	$0.00066	$0.01195	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000			$0.03140	$0.09389	6.2%
Total E-19 T	11,384,180	$0.09219	$0.02626	$0.00618	-$0.00283	-$0.00008	$0.00066	$0.02022	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000			$0.03108	$0.10195	10.6%
E-19 FIRM P	440,778,086	$0.10302	$0.02090	$0.00618	-$0.00283	-$0.00008	$0.00053	$0.03631	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00027		$0.02642	$0.10762	4.5%
E-19 V P	145,689,660	$0.11060	$0.02510	$0.00618	-$0.00283	-$0.00008	$0.00063	$0.03862	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000		$0.02743	$0.11552	4.4%
Total E-19 P	586,467,746	$0.10490	$0.02195	$0.00618	-$0.00283	-$0.00008	$0.00055	$0.03689	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00020		$0.02667	$0.10958	4.5%
E-19 FIRM S	2,759,204,419	$0.10880	$0.01968	$0.00618	-$0.00283	-$0.00008	$0.00050	$0.04359	$0.01221	$0.00088	$0.00502	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00003		$0.02542	$0.11356	4.4%
E-19 V S	5,911,364,451	$0.10447	$0.01788	$0.00618	-$0.00283	-$0.00008	$0.00045	$0.04239	$0.01220	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000		$0.02403	$0.10913	4.5%
Total E-19 S	8,670,568,870	$0.10585	$0.01846	$0.00618	-$0.00283	-$0.00008	$0.00046	$0.04277	$0.01220	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00001		$0.02447	$0.11054	4.4%
E-19 T	11,384,180	$0.09219	$0.02626	$0.00618	-$0.00283	-$0.00008	$0.00066	$0.02022	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	$0.00000		$0.03108	$0.10195	10.6%
E-19 P	586,467,746	$0.10490	$0.02195	$0.00618	-$0.00283	-$0.00008	$0.00055	$0.03689	$0.01153	$0.00088	$0.00503	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00020		$0.02667	$0.10958	4.5%
E-19 S	8,670,568,870	$0.10585	$0.01846	$0.00618	-$0.00283	-$0.00008	$0.00046	$0.04277	$0.01220	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00001		$0.02447	$0.11054	4.4%
TOTAL E-19	9,268,420,796	$0.10577	$0.01869	$0.00618	-$0.00283	-$0.00008	$0.00047	$0.04237	$0.01216	$0.00088	$0.00501	$0.00139	-$0.00057	$0.00220	$0.00000	-$0.00002		$0.02462	$0.11047	4.4%
STREETLIGHTS	158,033,043	$0.16160	$0.01829	$0.00618	-$0.00283	-$0.00006	-$0.00051	$0.10687	$0.00701	$0.00088	$0.00503	$0.00117	-$0.00057	$0.00225	$0.00000	$0.00000		$0.02376	$0.16747	3.6%
STANDBY																				
STANDBY T	31,929,173	$0.11004	$0.04552	$0.00618	-$0.00283	-$0.00006	-$0.00086	$0.02147	$0.01219	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	$0.00000		$0.02423	$0.11707	6.4%
STANDBY P	16,628,273	$0.20940	$0.03381	$0.00618	-$0.00283	-$0.00006	-$0.00054	$0.14736	$0.01594	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	$0.00000		$0.00409	$0.21520	2.8%
STANDBY S	534,166	$0.23470	$0.03475	$0.00618	-$0.00283	-$0.00006	-$0.00057	$0.15522	$0.01514	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	$0.00000		$0.02425	$0.24333	3.7%
TOTAL STANDBY	49,091,612	$0.14505	$0.04144	$0.00618	-$0.00283	-$0.00006	-$0.00075	$0.06557	$0.01349	$0.00088	$0.00503	$0.00106	-$0.00057	$0.00484	$0.00000	$0.00000		$0.01741	$0.15168	4.6%
AGRICULTURE																				
AG-1A	11,530,705	$0.28451	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.22055	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02946	$0.29531	3.8%
AG-RA	157,044																			
AG-VA	1,473,249	$0.21992	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.15722	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02670	$0.22922	4.2%
AG-4A	53,471,508	$0.25273	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.18790	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02986	$0.26305	4.1%
AG-5A	19,535,269	$0.15784	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.09202	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02963	$0.16694	5.8%
AG-1B	22,934,628	$0.24236	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.17833	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02993	$0.25263	4.2%
AG-RB	346,616																			
AG-VB	1,181,478																			
AG-4B	156,594,946	$0.21657	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.15243	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02934	$0.22614	4.4%
AG-4C	7,898,597	$0.24563	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.18169	$0.01403	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02980	$0.25586	4.2%
AG-5B	303,363,870	$0.13474	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.07201	$0.01140	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02981	$0.14356	6.6%
AG-5C	456,097,810	$0.10683	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.04489	$0.01140	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00009		$0.02844	$0.11498	7.6%
Total AG A	86,167,776	$0.23490	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.16999	$0.01495	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	$0.00000		$0.02970	$0.24499	4.3%
Total AG B	948,417,945	$0.13846	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.07583	$0.01193	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00004		$0.02908	$0.14714	6.3%
TOTAL AG	1,034,585,721	$0.14649	$0.01871	$0.00618	-$0.00283	-$0.00006	-$0.00052	$0.08367	$0.01218	$0.00088	$0.00503	$0.00131	-$0.00057	$0.00222	$0.00000	-$0.00004		$0.02913	$0.15529	6.0%
E-20 CLASS																				
E-20 FIRM T	3,406,104,279	$0.04509	$0.01605	$0.00618	-$0.00283	-$0.00006	$0.00046	-$0.00303	$0.00985	$0.00088	$0.00427	$0.00119	-$0.00057	$0.00191	$0.00000	-$0.00093		$0.01518	$0.04854	7.7%
FPP T	294,654,265	$0.01124	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00026	$0.00985	$0.00088	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000		$0.00000	$0.01099	-2.2%
TOTAL	3,700,758,544	$0.04240	$0.01477	$0.00569	-$0.00260	-$0.00006	$0.00042	-$0.00277	$0.00985	$0.00088	$0.00393	$0.00110	-$0.00053	$0.00176	$0.00000	-$0.00086		$0.01397	$0.04555	7.4%
E-20 FIRM P	4,247,060,699	$0.08390	$0.01866	$0.00618	-$0.00283	-$0.00006	$0.00053	$0.02835	$0.01105	$0.00088	$0.00503	$0.00128	-$0.00057	$0.00191	$0.00000	-$0.00078		$0.01709	$0.08673	3.4%
FPP P	19,350,280	$0.02395	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.01230	$0.01105	$0.00088	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000		$0.00000	$0.02423	1.1%
TOTAL	4,266,410,978	$0.08362	$0.01858	$0.00615	-$0.00282	-$0.00006	$0.00053	$0.02828	$0.01105	$0.00088	$0.00501	$0.00128	-$0.00057	$0.00190	$0.00000	-$0.00078		$0.01701	$0.08644	3.4%
E-20 FIRM S	1,330,461,903	$0.09328	$0.01865	$0.00618	-$0.00283	-$0.00006	$0.00054	$0.03462	$0.01179	$0.00088	$0.00503	$0.00133	-$0.00057	$0.00191	$0.00000	-$0.00007		$0.01898	$0.09638	3.3%
FPP S	105,995,455	$0.02535	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.01287	$0.01179	$0.00088	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000		$0.00000	$0.02554	0.8%
TOTAL	1,436,457,357	$0.08827	$0.01727	$0.00572	-$0.00262	-$0.00006	$0.00050	$0.03302	$0.01179	$0.00088	$0.00466	$0.00124	-$0.00053	$0.00177	$0.00000	-$0.00006		$0.01758	$0.09115	3.3%
E-20 T	3,700,758,544	$0.04240	$0.01477	$0.00569	-$0.00260	-$0.00006	$0.00042	-$0.00277	$0.00985	$0.00088	$0.00393	$0.00110	-$0.00053	$0.00176	$0.00000	-$0.00086		$0.01397	$0.04555	7.4%
E-20 P	4,266,410,978	$0.08362	$0.01858	$0.00615	-$0.00282	-$0.00006	$0.00053	$0.02828	$0.01105	$0.00088	$0.00501	$0.00128	-$0.00057	$0.00190	$0.00000	-$0.00078		$0.01701	$0.08644	3.4%
E-20 S	1,436,457,357	$0.08827	$0.01727	$0.00572	-$0.00262	-$0.00006	$0.00050	$0.03302	$0.01179	$0.00088	$0.00466	$0.00124	-$0.00053	$0.00177	$0.00000	-$0.00006		$0.01758	$0.09115	3.3%
TOTAL E-20	9,403,626,880	$0.06811	$0.01688	$0.00590	-$0.00270	-$0.00006	$0.00048	$0.01678	$0.01069	$0.00088	$0.00453	$0.00120	-$0.00055	$0.00183	$0.00000	-$0.00070		$0.01590	$0.07107	4.3%
SYSTEM	**43,915,146,040**	**$0.12370**	**$0.02348**	**$0.00612**	**-$0.00280**	**-$0.00008**	**-$0.00024**	**$0.05740**	**$0.01231**	**$0.00088**	**$0.00463**	**$0.00139**	**-$0.00057**	**$0.00251**	**$0.00000**	**-$0.00372**	**$0.00116**	**$0.02729**	**$0.12976**	**4.9%**

AtchA-4

PACIFIC GAS AND ELECTRIC COMPANY

APPENDIX A

GHG HISTORY OF REVENUE, COSTS AND EMISSIONS INTENSITY (TEMPLATE D-5)

Line No.	Description	Recorded 2014	Recorded 2015	Recorded 2016	Recorded 2017	Recorded 2018	Forecast 2019	Forecast 2020
					($000)			
1	Total GHG Revenues (Net available for customers) (a)	$578,743	$456,431	$366,996	$310,534	$387,880	$321,170	$392,698
2	Total GHG Costs	$199,628	$212,062	$164,735	$125,738	$62,723	-$82,734	-$25,616
					(MT CO2e/MWh)			
3	Emissions Intensity (b)	0.210	0.216	0.176	0.165	0.081	-0.125	-0.049

Notes:

(a) Line 1 is derived from Line 17 of Table 13-1.

(b) The emissions intensity shown here is calculated by dividing total GHG emissions reported on Line 13 of Tables 15-1 and 15-2 by the total energy load requirement to serve PG&E's bundled electricity customers for the corresponding year. The emissions intensity is not the same calculation as the CO2 emissions rate reported by PG&E to The Climate Registry (TCR).