

Application No.: A.18-12-001
Exhibit No.: Liberty-07
Witnesses: Greg Campbell



Liberty Utilities®

(U 933-E)

2019 General Rate Case

Before the California Public Utilities Commission

Chapter 7: Greenhouse Gas (“GHG”) Rate Revision and Energy Cost Adjustment Clause (“ECAC”)

PUBLIC VERSION

Tahoe Vista, California

December 3, 2018

Liberty CalPeco-07: Greenhouse Gas (“GHG”) and Energy Cost Adjustment Clause (“ECAC”)

Table Of Contents

Section	Page	Witness
I. GREENHOUSE GAS RATE.....	1	G. Campbell
A. Introduction and Summary.....	1	
B. GHG Procurement Cost Forecast and Reconciliation Forecast and Reasonableness Review	2	
C. GHG Procurement Cost Forecast and Reconciliation.....	5	
D. GHG Allowance Return Revenue Requirement	6	
E. GHG Revenue Return Rate Impact.....	7	
II. ECAC	8	
A. Energy Cost Adjustment Clause (“ECAC”) Billing Factors.....	8	
B. ECAC Rate Relief to Customers.....	9	
C. Balancing Rate Revenue	10	
D. Purchase Power Forecasts	10	
E. Fuel.....	11	

**Liberty CalPeco-07: Greenhouse Gas (“GHG”) and
Energy Cost Adjustment Clause (“ECAC”)**

List Of Tables

Table	Page
Table I-1 Forecast of 2019 GHG Program Administrative Expenses.....	2
Table I-2 2019 Customer Education and Outreach Expenses.....	3
Table I-3 2017 Education and Outreach Expenses	4
Table I-4 2017 Education and Outreach Expenses	5
Table II-1 Forecast of 2019 GHG Program Administrative Expenses	9

1 I.

2 **GREENHOUSE GAS RATE**

3 **A. Introduction and Summary**

4 In D. 14-10-033, Liberty CalPeco was ordered to present testimony concerning its greenhouse
5 gas (“GHG”) costs and reconciliation as part of its Energy Cost Adjustment Clause (“ECAC”)
6 application. Since the ECAC revision will be handled in the General Rate Case (“GRC”), the GHG rate
7 will concurrently change as well. Liberty CalPeco requests an increase of its GHG cost rate by
8 \$0.00038/kWh from \$0.00542 to \$0.00580, an increase of its small business volumetric rate credit by
9 \$0.00027/kWh from (\$0.00379) to (\$0.00406), and an increase of the amount of the semi-annual
10 Climate Credit by \$16.70 from \$29.46 to \$46.16.

11 Liberty CalPeco’s forecast for 2019 GHG administrative and customer outreach expenses is
12 provided below. The tables below include a reconciliation of the 2017 forecast of these expenses as
13 compared to the 2017 recorded expenses.¹ Liberty CalPeco’s 2019 cost forecast for GHG compliance
14 obligations under the California Air Resources Board’s (“ARB”) Cap-and-Trade Program pursuant to
15 Assembly Bill (“AB”) 32 are also discussed below. A reconciliation of the 2017 GHG cost forecast is
16 also being provided.² Liberty CalPeco also proposes to include in its 2019 electric rates the 2019 GHG
17 forecast allowance return revenue requirement and the forecast balance of the GHG Revenue Balancing
18 Account (“GHGRBA”) as of December 31, 2018. The GHG forecast allowance revenue that Liberty
19 CalPeco proposes to include in its 2019 electric rates, and the methodology it will follow to allocate this
20 GHG allowance revenue to its customers is described below.

¹ D.12-12-033, Ordering Paragraph (“OP”) 24.

² Application No. 15-08-007.

1 **B. GHG Procurement Cost Forecast and Reconciliation Forecast and Reasonableness Review**

2 In D.12-03-033, the Commission authorized investor-owned utilities (“IOUs”) to set aside from
3 the distribution of GHG allowance revenues (that would otherwise be made to customers) an appropriate
4 amount for the purpose of funding customer outreach and education activities and initial and on-going
5 administrative tasks.³ Pursuant to D.12-12-033 and D.14-10-033, Liberty CalPeco’s 2019 forecast of
6 administrative and customer outreach expenses and a reconciliation of its 2017 recorded spending with
7 the expenses forecast for that calendar year are provided in Table I-3 and Table I-4 below.⁴

8 Table I-1 below shows Liberty CalPeco’s forecast of 2019 GHG Program administrative expenses.

*Table I-1
Forecast of 2019 GHG Program Administrative Expenses*

Legal Services	\$50,000
Financial/Banking Fees	\$20,000
Consultant Expenses	\$10,000
Workshop Travel	\$0
Data Subscription	\$0
ARB Charges	\$25,000
GHG 3 rd Party Verification Fee	\$5,000
Total	\$110,000

9 Liberty CalPeco projects a substantial reduction in Legal Services and Workshop Travel
10 expenses as compared to prior year forecasts. The forecast of Financial/Banking fees is reduced due to
11 gains in internal process efficiencies and represents the projected costs to continue participating in the
12 quarterly ARB auctions. Liberty CalPeco also forecasts a decrease in spend for consulting services
13 based on its development of an internal process for addressing GHG-related issues without the need of
14 consultants. The company is not currently subscribed to any data source subscriptions as it relates to the
15 GHG rate calculation.

³ *Id.*, OP 1.

⁴ D. 12-12-033, OP 24.

1 Decision 16-06-041 authorized Liberty CalPeco to spend \$42,600 annually between 2016 and
2 2019 for customer education and outreach. In 2019, Liberty CalPeco forecasts a lesser amount as set
3 forth in Table I-2 below (broken down by expense type).

Table I-2
2019 Customer Education and Outreach Expenses

Marketing Plan & Related Materials	\$25,000
Bill Insert Printing	\$5,000
Bill Insert Processing and Handling	\$750
Communications Planning & Coordination	\$3,000
Web Site Additions & Updating	\$3,000
Total	\$36,750

4 The company has established an annual communications effort alerting and educating customers
5 about the California Climate Credit. Customers have responded positively to these communications thus
6 far. The company seeks to provide customers with timely notice of the upcoming changes and
7 recommends that they visit our website for further details. As a result of this communications effort, the
8 company's click-through website statistics have continued to increase significantly. The company plans
9 to maintain a similar education and outreach strategy for 2019.

10 The Marketing Plan and Related Materials category covers the company's forecast of print, radio
11 and television production costs, including associated print and air-time costs. Liberty CalPeco will
12 continue to use bill inserts and "earned media"⁵ as a major part of its education and outreach effort. The
13 web site service provider charges a flat monthly fee to host and maintain the site and its content. This
14 flat fee is recovered through base rate revenue and the GRC process. While direct hosting costs are not
15 forecast in 2019, the company will continue to incur expenses in managing the posted content. Liberty
16 CalPeco retains a media buyer to aggregate the company's overall media buy and manage channel

⁵ Earned media refers to publicity gained through promotional efforts other than advertising, as opposed to paid media, which refers to publicity gained through advertising.

1 selection and frequency to help ensure the company GHG-directed communications reaches all customer
2 demographics.

3 Table I-3 below shows the reconciliation of the GHG-related program administrative expenses
4 the company forecast for 2017 and the amounts actually spent.

Table I-3
2017 Education and Outreach Expenses

Administrative Expense	Forecast	Recorded
Legal Services	\$87,500	\$44,224
Financial/Banking Fees	\$20,000	\$11,123
Consultant Expenses	\$50,000	\$46,553
Workshop Travel	\$1,800	\$0
Data Subscription	\$7,200	\$4,105
ARB Charges	\$30,000	\$19,582
GHG 3 rd Party Verification Fee	\$6,000	\$4,750
Total	\$202,500	\$130,337

5 As described above, Liberty CalPeco’s program administration expenses during 2017 were
6 significantly lower than forecast. Legal Services were less than forecast in 2017 and 2018, and the 2019
7 forecast reflects this. Financial and banking fees were less than forecast due to gains in internal
8 efficiencies and are expected to continue to follow that trend in 2019. Third party verification fees are
9 anticipated to remain in the \$4,500 to \$6,000 range.

10 Table I-4 below shows the reconciliation of Liberty CalPeco’s 2017 customer education and
11 outreach expenses.

Table I-4
2017 Education and Outreach Expenses

Education & Outreach Expense	Forecast	Recorded
Marketing Plan & Related Materials	\$28,135	\$25,796*
Bill Insert Printing	\$5,000	\$1,918
Bill Insert Processing and Handling	\$765	\$529
Communications Planning & Coordination	\$4,500	\$0*
Web Site Additions & Updating	\$4,200	\$0*
Total	\$42,600	\$28,243
*Costs included within marketing plan for year 2017		

1 During 2017, Liberty CalPeco incurred approximately \$14,000 less on GHG customer education
2 and outreach expenses than forecast. The lower level of spend resulted from not having to notify
3 customers of a rate increase associated with greenhouse gas costs in 2017 as anticipated. Furthermore,
4 the company was able to reduce costs related to bill inserts and printing from the forecast amount for
5 2017.

6 **C. GHG Procurement Cost Forecast and Reconciliation**

7 Liberty CalPeco procures all of the GHG compliance instruments necessary to satisfy the AB 32
8 compliance obligation for all of the power delivered into its service territory. Attachment D-2,
9 Appendix I outlines Liberty CalPeco’s forecast of 2019 GHG compliance expenses.

10 Attachment D-2, Appendix I also outlines Liberty CalPeco’s 2017 GHG Procurement Cost
11 Reconciliation. The net decrease is a result of the actual amount of and price for the AB 32 compliance
12 instruments in recent years.

1 **D. GHG Allowance Return Revenue Requirement**

2 In order to reduce the impact of a sudden increase in the electricity bills associated with the Cap-
3 and-Trade regulations, ARB allocates allowances to the IOUs on behalf of their electric customers.⁶
4 ARB has further directed that the IOUs should sell these allocated allowances in quarterly auctions and
5 distribute the proceeds to their customers through offsets to electric rates.⁷

6 Attachment D-1, Appendix I provides Liberty CalPeco’s 2019 forecast of GHG Revenue
7 Allowance receipts and its proposed returns to eligible customers. As part of that forecast and
8 notwithstanding that “these amounts have not been explicitly approved in another proceeding”, Liberty
9 CalPeco is required to estimate the funds to be allocated to the Multifamily Affordable Housing Solar
10 Roofs Program (“Multifamily Program”) from January 1, 2018 through December 31, 2018 by
11 calculating ten percent of its forecast 2018 allowance proceeds “to account for the funding to be used for
12 this new statutory program.”⁸

13 Decision 12-12-033, the Commission authorized Liberty CalPeco to record in its GHGRBA the
14 difference between the GHG revenues Liberty CalPeco generates through the auction of consigned GHG
15 allowances, less any revenues approved to be set aside for GHG compliance-related expenditures and
16 the GHG revenues returned to customers.

17 Liberty CalPeco’s forecast of its end-of-2018 GHGRBA balance is shown in Table D-1 attached
18 to Appendix 1.

19 The company requests that the Commission adopt its 2019 GHG revenue allowance return
20 revenue requirement as the sum of the forecasted 2019 GHG Allowance Revenue Requirement and the
21 monthly amortization across 2018 of the forecast year-end 2018 GHGRBA balance.

⁶ 17 CCR Section 95892(a).

⁷ 17 CCR Section 95892(c).

⁸ Rulemaking 14-07-002, *Administrative Law Judge’s Ruling (1) Adding Respondents and (2) Providing Interim Direction to California Electric Utilities on Accounting for Funds for Implementation of Assembly Bill 693*, at 4-5.

1 **E. GHG Revenue Return Rate Impact**

2 Pursuant to D.12-03-033 and D.14-10-033, Liberty CalPeco proposes to distribute Cap-and-
3 Trade allowance revenue return methodology allowance revenues to eligible customers over the course
4 of each year. Liberty CalPeco will provide returns on either an annual basis (for emissions-intensive
5 and trade-exposed (“EITE”) entities), semi-annual basis (for residential rate class customers), or
6 monthly basis (for small business rate class customers).

7 Liberty CalPeco assessed the data within its billing system to determine if any of its existing
8 commercial customers would be eligible for the EITE revenue return. To date, Liberty CalPeco has not
9 identified any commercial customers that qualify for the EITE revenue return. Liberty CalPeco
10 accordingly is forecasting no EITE revenue return. Liberty CalPeco will continue its periodic review to
11 assess eligibility.

12 In accordance with D.12-03-033 and D.14-10-033, Liberty CalPeco will distribute a portion of
13 the GHG allowance revenue to eligible small business customers through monthly volumetric credits.
14 The calculation for these volumetric revenue returns is to be based on a cents-per-kWh basis. Liberty
15 CalPeco calculated the credit for small commercial customers by (i) taking the A-1 (i.e., less than 20
16 kWh) rate class monthly kilowatt usage projection for 2019, (ii) multiplying it by the Cap-and Trade
17 dollar per kWh cost that has been adjusted for franchise fees and uncollectibles, and (iii) adjusting by the
18 70 percent Industry Assistance Factor set forth in D.13-12-002. The 2019 return is a combination of
19 amortized 2018 returns and 2019 forecast returns with the Industry Assistance Factors applied to their
20 respective year. This credit is shown as a separate rate component in the bill.

21 Per D.13-02-003, all eligible residential households should receive a California Climate Credit as
22 a separate on-bill line item credit twice a year (every April and October billing cycle). Customers are
23 eligible to receive the credit if they meet the following criteria: (1) has an account that takes service
24 under the residential tariff; (2) is charged a customer charge in the month prior to the Climate Credit
25 issuance; and (3) has an active account at the end of the month preceding the Climate Credit issuance.
26 To calculate the amount of auction proceeds included in each Climate Credit, Liberty CalPeco will
27 divide the annual forecast Climate Credit revenue among all eligible residential customers.

1 **II.**

2 **ECAC**

3 **A. Energy Cost Adjustment Clause (“ECAC”) Billing Factors**

4 ECAC Billing Factors are a combination of: (i) the recovery of Liberty CalPeco’s projected 2019
5 fuel and purchased power costs (“Offset Rate”); and (ii) the amortization of the projected accumulated
6 balance in the ECAC Balancing Account as of December 31, 2018 (“Balancing Rate”).⁹ The specific
7 revisions to the ECAC Billing Factors for each rate class, as reflected in Liberty CalPeco’s ECAC
8 Tariff, will be proposed in Phase 2 in the rate design section of the General Rate Case (“GRC”)
9 Application. Liberty CalPeco’s ECAC Tariff requires that, during the calendar year in which a GRC
10 application is filed, Liberty CalPeco should also propose any revisions to its ECAC Billing Factors as
11 part of such application.¹⁰

12 The proposed Offset Rate is based on two components: (i) the 2019 forecast of purchased power
13 costs; and (ii) the 2019 forecast of fuel costs. As shown in Attachment I, Appendix II, Liberty
14 CalPeco’s forecast of purchased power costs in 2019 are derived partially from its full-requirements
15 contract with NV Energy (“2016 NV Energy Services Agreement”) and partially from modeling
16 indicative prices from its ongoing negotiations with potential purchased power entities. Liberty
17 CalPeco’s next ECAC revision will occur in July 2019.

⁹ See CPUC Decision D.18-03-024 at p. 10.

¹⁰ Liberty CalPeco Tariff, Preliminary Statement 6, Energy Cost Adjustment Clause, Sheet No. 9-10.

Table III-5
Forecast of 2019 ECAC Revenue Requirement

LIBERTY UTILITES (CALPECO ELECTRIC) LLC
ENERGY COST ADJUSTMENT CLAUSE
REVENUE REQUIREMENT
2019

Line No	(a) Description	(b) FF&U %	(c) Revenue Requirement	(d) (e) (f) (g)				Line No
				Revenue Requirement				
				Proposed	Current	Change		
		\$	%					
1	Fuel & Purchased Power Costs		\$ 21,631,499					1
2								2
3	Fuel Inventory Revenue Requirement		-					3
4								4
5	Subtotal Energy Related Costs Recoverable Through ECAC		21,631,499					5
6								6
7	Franchise Fees & Uncollectibles	1.351%	292,242					7
8								8
9	Total Costs Recoverable Through ECAC		\$ 21,923,741					9
10								10
11	Total System mWh Sales		605,516					11
12								12
13	ECAC - Offset Rate		\$ 36.21	\$ 21,730,319	\$ 26,505,987	\$ (4,775,668)	-18.02%	13
14								14
15								15
16								16
17								17
18	ECAC Balance at December 31, 2018		\$ (3,891,131)					18
19								19
20	Franchise Fees & Uncollectibles	1.351%	(52,569)					20
21								21
22	Balancing Rate Revenue Requirement		\$ (3,943,701)					22
23								23
24	California mWh Sales		600,119					24
25								25
26	ECAC - Balancing Rate		\$ (6.57)	(3,943,701)	(4,235,824)	292,123	6.90%	26
27								27
28	ECAC Billing Factor		\$ 29.64	\$ 17,786,618	\$ 22,270,163	\$ (4,483,545)	-20.13%	28

As shown in Table III-5 above, Liberty CalPeco's proposed Balancing Rate reflects \$3.94 million to be the accumulated, under-collection balance in the ECAC Balancing Account as of December 31, 2018 in column c, line 22.

B. ECAC Rate Relief to Customers

Liberty CalPeco is requesting an annual decrease in Offset Rate revenue of \$4.78 million and an annual increase in the Balancing Rate revenue of \$0.29 million. These two factors result in a request to decrease the ECAC Billing Factors revenue by \$4.48 million or 20.1 percent. The Offset Rate revenue decrease primarily results from price reductions Liberty CalPeco negotiated in the 2016 NV Energy Services Agreement as compared to the previous contract with NV Energy that expired December 31,

1 2015 (“Existing NV Energy Services Agreement”) and lower indicative pricing from its most recent
2 RFP in the fall of 2018.

3 **C. Balancing Rate Revenue**

4 In its 2016 GRC application, Liberty CalPeco projected that it would have an over-collection of
5 almost \$6.7 million as of September 30, 2016 in its Energy Cost Adjustment Account.¹¹ The Settling
6 Parties agreed the over-collection shall be amortized over a 27-month period beginning October 1, 2016.
7 Currently, the company projects the over-collection to be roughly \$3.94 million to be collected over a
8 12-month period in 2019.

9 **D. Purchase Power Forecasts**

10 Liberty CalPeco developed its purchased power forecast utilizing the 2016 NV Energy Services
11 Agreement billing rates, NV Energy’s forecasted energy costs and demand forecasts, and Liberty
12 CalPeco’s kWh usage forecast prepared by Ken Parris of Business Economic Analysis and Research.

13 Attachment I, Appendix II sets forth the 2019 kWh usage forecast by rate class. Mr. Parris
14 separated the retail usage forecasts into individual sales categorized by customer class, and prepared
15 sales forecasts for each customer class: residential, commercial, industrial, irrigation, highway, street
16 lighting, and wholesale (i.e. sales for resale). The usage forecast separates residential customer classes
17 into California Alternative Rates for Energy (“CARE”) and Non-CARE classes, and separates the large
18 commercial customer class between ski resorts and other large customers.

19 The purchased power forecast, shown in Attachment II, Appendix II, is derived by first taking
20 the kWh retail usage forecast for all customer classes and applying the line loss factor of 6.29 percent
21 based on the 2016 NV Energy Services Agreement to derive the monthly energy kWh forecast. The
22 monthly energy kWh forecast is then multiplied by NV Energy’s forecasted energy rate to generate a
23 forecast of the monthly energy charge.

¹¹ See CPUC Decision D.16-12-024 at p. 8.

1 To determine its forecast of monthly demand charges, Liberty CalPeco multiplied the Demand
2 Charge in the 2016 NV Energy Services Agreement¹² by the monthly billing demand (kW) forecast
3 provided by NV Energy.

4 To develop its forecast of monthly Transmission Charges, Liberty CalPeco multiplied the
5 transmission billing rate from the 2016 NV Energy Services Agreement by the transmission demand
6 (kW) forecast from NV Energy. Liberty CalPeco's forecast of its monthly Distribution Charge is based
7 on the 2016 NV Energy Services Agreement of the Monthly Distribution Charge of \$19,240.¹³ The total
8 of these charges provides the 2019 forecast of purchased power costs of \$21.57 million.

9 **E. Fuel**

10 Liberty CalPeco derives its fuel usage forecast, provided in Attachment II, Appendix II by
11 averaging the recorded fuel used by Liberty CalPeco each year for the past three years. Accordingly,
12 Liberty CalPeco projects fuel usage of \$65,659 for 2019.

¹² In Application 15-04-016, Liberty CalPeco noted the 2016 NV Energy Services Agreement reduces the Demand Charge from the previous \$12.02/kW-month to \$9.37/kW-month. *See* Application at 13-14.

¹³ *See* Application 15-04-016 at 17.

Attachment D-1, Appendix I

Annual Allowance Revenue Receipts & Customer Returns

Attachment D-1 Appendix I: Annual Allowance Revenue Receipts & Customer Returns

Liberty Utilities (CalPeco Electric) LLC

Template D-1: Annual Allowance Revenue Receipts and Customer Returns

Line Description	2017		2018		2019	
	Forecast	Recorded	Forecast	Recorded	Forecast	Recorded
1 Proxy GHG Price (\$/MT)	14.32	N/A	14.65	N/A	15.50	N/A
2 Allocated Allowances (MT)	229,403	229,404	227,253	227,253	227,867	227,867
3 Revenues						
4 Prior Balance	382,892	(31,364)	(233,197)	722,074	1,130,014	1,130,014
5 Allowance Revenue	3,285,051	3,286,196	3,329,256	3,328,676	3,531,939	3,531,939
6 Interest	1,378	3,095	1,526	3,135	1,619	3,326
7 Franchise Fees and Uncollectibles: 1.351%	(3,092)	(3,700)	(3,748.19)	(3,748)	(3,976.37)	(3,976)
8 Subtotal Revenues	3,666,229	3,254,227	3,093,837	4,050,137	4,659,595	4,661,302
9 Expenses						
10 Outreach and Administrative Expenses (from Template D3)	(245,100)	(158,582)	(150,750)	(35,275)	(150,750)	(150,750)
11 Interest	(112.34)	(149.33)	(69.09)	(33.22)	(69.09)	(141.96)
12 Franchise Fees and Uncollectibles 1.351%	252	175	155	39	155	166
13 Subtotal Expenses	(244,960)	(158,556)	(150,664)	(35,269)	(150,664)	(150,725)
14 Allowance Revenue Approved for Clean Energy or Energy Efficiency Programs (R14-07-002)	(183,311)	(162,711)	(154,692)	(202,507)	(232,980)	(233,065)
15 Net GHG Revenues (Line 8 + Line 13 + Line 14)	3,237,958	2,932,960	2,788,481	3,812,361	4,275,951	4,277,511
16 GHG Revenues to be Distributed in Future Years		-	-	-	-	-
17 Net GHG Revenues Available for Customers in Forecast Year (Line 15 + Line 16)	3,237,958	2,932,960	2,788,481	3,812,361	4,275,951	4,277,511
18 GHG Revenue Returned to Eligible Customers						
19 EITE Customer Return	-	-	-	-	-	-
20 Small Business Volumetric Return	(304,081)	(202,371)	(307,620)	(178,247)	(310,903)	(200,000)
21 Residential Volumetric Return	-	-	-	-	-	-
22 Subtotal EITE + Volumetric Returns	(304,081)	(202,371)	(307,620)	(178,247)	(310,903)	(200,000)
23 Number of Households Eligible for the California Climate Credit	42,886	42,338	42,450	42,500	42,950	42,500
24 Per-Household Semi-Annual Climate Credit (0.5 x (Line 17 + 22) ÷ Line 23)	(23.72)	(23.72)	(29.46)	(29.46)	(46.16)	(46.16)
25 Revenue Distributed for the Climate Credit (2 x Line 23 x Line 24)	(2,034,512)	(2,008,515)	(2,501,154)	(2,504,100)	(3,965,048)	(3,923,505)
26 Revenue Balance	N/A	722,074	N/A	1,130,014	N/A	154,006
CONFIDENTIAL INFORMATION	\$ 899,365	\$ 722,074	\$ (20,293)	\$ 1,130,014	\$ -	\$ 154,006

Attachment D-2, Appendix I
Annual GHG Emissions & Costs

(page left blank intentionally – CONFIDENTIAL TABLE)

Attachment I, Appendix II

2019 Sales Forecast

Attachment I Appendix II: 2019 Sales Forecast

	Res	Res	Res CARE	All	NonRes A1	NonRes A2	A3 Non Ski	A3 Ski	Nonres	Res & Nonres	Irrigation	Flat Rate	Outside Lighting	Street Lighting	Resale	Total	Retail
2019	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	Total	TOTAL	Total	Total	Total	Total	Total	Retail & Resale	
Jan	17,449,875	12,732,616	3,029,292	33,211,783	10,150,094	6,463,450	7,075,152	7,242,214	30,930,911	64,142,694	10,460	15,445	53,420	31,860	666,479	64,920,357	64,253,878
Feb	15,213,476	11,191,199	2,666,910	29,071,585	9,076,213	5,704,866	6,354,452	6,289,197	27,424,728	56,496,313	11,895	14,911	51,182	29,275	676,586	57,280,162	56,603,576
Mar	14,829,232	11,352,506	2,746,530	28,928,268	9,377,533	5,906,875	6,931,647	4,801,776	27,017,832	55,946,100	26,065	15,845	55,608	31,380	656,067	56,731,065	56,074,998
Apr	11,977,276	9,584,571	2,376,053	23,937,900	8,282,018	5,129,540	6,345,427	3,106,151	22,863,136	46,801,036	82,182	15,228	53,171	30,304	507,967	47,489,889	46,981,922
May	10,367,846	8,579,705	2,113,124	21,060,674	8,091,184	4,976,348	6,255,171	1,597,742	20,920,444	41,981,119	119,162	15,958	55,195	31,620	274,757	42,477,810	42,203,053
Jun	10,732,100	7,809,224	1,885,244	20,426,568	8,391,545	5,291,184	6,519,371	1,217,276	21,419,377	41,845,945	200,049	15,197	52,651	30,337	252,813	42,396,991	42,144,178
Jul	12,151,260	7,688,308	1,835,933	21,675,501	9,077,948	5,779,255	7,202,737	1,161,914	23,221,853	44,897,354	507,013	15,511	54,814	32,476	253,305	45,760,472	45,507,167
Aug	11,906,458	7,758,864	1,859,815	21,525,136	9,006,431	5,686,596	6,978,737	1,212,236	22,884,001	44,409,137	568,622	15,966	55,002	32,222	264,521	45,345,470	45,080,949
Sep	10,387,377	7,791,828	1,889,541	20,068,746	8,178,544	5,159,124	6,314,214	1,332,492	20,984,374	41,053,120	385,379	15,289	53,224	32,159	280,281	41,819,452	41,539,171
Oct	10,833,217	9,022,502	2,216,790	22,072,509	8,192,839	4,999,200	6,088,148	2,547,755	21,827,943	43,900,452	117,707	16,186	56,264	33,398	338,066	44,462,073	44,124,007
Nov	12,773,560	10,404,564	2,567,789	25,745,912	8,615,143	5,155,557	5,962,544	5,879,969	25,613,214	51,359,126	6,521	15,274	52,708	30,573	497,630	51,961,833	51,464,203
Dec	17,326,873	12,547,099	3,024,161	32,898,133	10,080,914	6,145,579	6,895,814	8,020,355	31,142,663	64,040,796	2,334	15,666	52,331	31,037	727,962	64,870,126	64,142,164
TOTAL	155,948,548	116,462,985	28,211,181	300,622,714	106,520,407	66,397,576	78,923,415	44,409,078	296,250,476	596,873,190	2,037,388	186,476	645,570	376,643	5,396,454	605,515,720	600,119,266

Attachment II, Appendix II
2019 Forecast Purchase Power Price

Attachment II Appendix II: 2019 Forecast Purchase Power Price

**LIBERTY UTILITIES (CALPECO ELECTRIC) LLC
FUEL AND PURCHASED POWER FORECAST
2019**

	(a)	(b)	(c)	Total
<u>Line</u>	<u>Projected Purchased Power Volumes</u>			
1	2019 Retail Sales Forecast (kWhrs)			600,119,266
2	2019 Wholesale Volume Forecast (kWhrs)			633,125,826
	Monthly Weighting			1
	<u>Projected Energy Costs</u>			
3 (a)	Luning forecasted production (kWh)	(#)		144,178,743
3 (b)	Turquoise forecasted production (kWh)	(#)		28,303,337
3 (c)	Total Liberty renewable resource production (kWh)	(#)		172,482,080
4	NV_Energy Conventional Rate (\$/MWh)	(\$)	\$	19.53
5	NV_Energy Conventional Volume (kWh) - Forecast	(#)		182,244,871
6	NV_Energy Conventional Charge (\$)	(\$)	\$	3,601,481
7	NV_Energy Renewable Rate (\$/MWh)	(\$)	\$	63.48
8	NV_Energy Renewable Volume (kWh) - Forecast	(#)		3,719,283
9	NV_Energy Renewable Charge (\$)	(\$)	\$	236,258
10	Estimated Purchase Power Rate		\$	41.38
11	Purchase Power Volume (kWh)			274,679,592
12	Purchase Power Cost (\$)		\$	11,366,242
	<u>Projected Demand and Transmission Costs</u>			
13	Demand Rate (\$/kW)	(\$)	\$	9.37
14	Contract Demand (kW)	(#)		
15	Max LU Renewable Project Capacity Credit	(#)		
16	Billing Demand (kW)	(#)		
17	Demand Charge (\$)	(\$)	\$	3,753,875
18	Transmission Rate (\$/kW)	(\$)	\$	2.74
19	Transmission Demand (kW)	(#)		
20	Transmission Charge	(\$)	\$	2,531,025
21	Distribution Charge	(\$)	\$	76,960
22	Total purchased power cost	(\$)	\$	21,565,840
23	Plus Fuel Burn (linked to another file)	(\$)	\$	65,659
24		(\$)	\$	21,631,499