

Staff Report Item 7

TO: East Bay Community Energy Executive Committee Members

FROM: Nick Chaset, Chief Executive Officer

SUBJECT: EBCE Study on Renewables, GHG and Rates

DATE: April 27, 2018

Recommendation

Discuss Study that EBCE Staff has developed in response to JPA Article 7.1.3 - The Right to Withdrawal Prior to Program Launch.

Discussion

EBCE Staff, with support from NCPA, has developed an analysis that responds to JPA Article 7.1.3 - The Right to Withdrawal Prior to Program Launch. This JPA Article requires that EBCE compare its estimated electrical rates, greenhouse gases and estimated renewable energy to those of the incumbent utility (PG&E). The study focuses on EBCE's forecast renewables percentage, GHG content and rates relative to PG&E. The analysis finds that, at launch and through 2018, EBCE's renewable percentage and GHG content are better than those offered by PG&E to Alameda County residents. Additionally, this analysis finds that EBCE's approved Bright Choice rates offer a discount to EBCE member jurisdictions as compared to PG&E rates.

The memo is included as an attachment to this item.

Attachment

A. JPA Article 7.1.3 Memo



TO: East Bay Community Energy Joint Powers Authority Members

FROM: Nick Chaset, Chief Executive Officer

SUBJECT: East Bay Community Energy Joint Powers Authority Article 7.1.3 Analysis

DATE: April 27, 2018

Introduction

East Bay Community Energy's Joint Powers Authority Agreement Article 7 lays out the circumstances under which a JPA member can withdraw from the East Bay Community Energy Authority and when the JPA agreement can be terminated. Article 7.1.3 specifically addresses the right of the JPA member to withdraw prior to program launch. It states:

After receiving bids from power suppliers for the CCA Program, the Authority must provide to Parties a report from the electrical utility consultant retained by the Authority comparing the Authority's total estimated electrical rates, the estimated greenhouse gas emissions rate and the amount of estimated renewable energy to be used with that of the incumbent utility. Within 30 days after receiving this report, through its CIty Manager or a person expressly authorized by the Party, any Party may immediately withdraw its membership in the Authority by providing written notice of withdrawal to the Authority if the report determines that any one of the following conditions exist: (1) the Authority is unable to provide total electrical rates, as part of its baseline offering to customers, that are equal to or lower than the incumbent utility, (2) the Authority is unable to provide electricity in a manner that has a lower greenhouse gas emissions rate than the incumbent utility, or (3) the Authority will use less qualified renewable energy than the incumbent utility. Any Party who withdraws from the Authority pursuant to Article 7.1.3 shall not be entitled to any refund of the Initial Costs it has paid to the Authority prior to the date of the withdrawal unless the Authority is later terminated pursuant to Section 7.3. In such event, any initial Costs not expended by the Authority shall be returned to all Parties, including any Party that has withdrawn pursuant to this section, in proportion to the contribution that each made. Notwithstanding anything to the contrary in this Agreement, any Party who withdraws pursuant to this section shall not be responsible for any

liabilities or obligations of the Authority after the date of withdrawal, including without limitation any liability arising from power purchase agreements entered into by the Authority.

In response to this requirement, EBCE Staff has been working with the Northern California Power Agency, EBCE's Scheduling Coordinator and Energy Portfolio Manager, to develop a thorough assessment of EBCE's energy procurement trajectory to respond to the Renewable Energy and Carbon-free energy criteria. For the third criteria in the JPA Article, which relates to EBCE's rates relative to PG&E, EBCE staff compared EBCE's adopted rates to PG&E's current rates (which were issued in February 2018) to show that EBCE customers will receive a discount on their bills as compared to PG&E rates.

<u>Criteria 1 and 2: Comparison of EBCE and PG&E Renewable and Carbon-free energy</u> Content

NCPA assessed both EBCE's actual procured energy as well as it 2018 procurement plan and found¹ that EBCE is on track to serve EBCE Bright Choice customers in 2018 with:

- 1) Over 38% qualified renewable energy
- 2) Over 85% carbon-free energy (over 38% renewable and over 47% carbon-free large hydro)

An exact contrast to PG&E (the incumbent utility) is somewhat challenging because PG&E has not yet published a validated procurement plan for 2018 and will not do so until summer, when it submits an Energy Resource Recovery Account Application to the California Public Utilities Commission. In the absence of an approved procurement plan, EBCE has selected two metrics to use as points of comparison. The first is PG&E's most recent self-reporting of both renewable and GHG-free (also known as carbon-free energy) energy. The second is the California Energy Commission's independent audit of the types of energy sources load serving entities like PG&E and EBCE use.

In a February 20, 2018 News Release, PG&E self-reported the following:

"The company announced today that 33 percent of its electricity came from renewable resources including solar, wind, geothermal, biomass and small hydroelectric sources in 2017. Additionally, 78.8 percent of PG&E's total electric power mix is from GHG-free sources including nuclear, large hydro and renewable sources of energy."²

¹ NCPA's full findings are attached to this memo

²https://www.pge.com/en/about/newsroom/newsdetails/index.page?title=20180220_pge_clean_energy_d eliveries_already_meet_future_goals

Table 1 - PG&E Self-Reported Renewable and Carbon-free Content

Renewable Energy %	33%
Carbon-free Energy %	78.8%

The second point of measurement is PG&E's validated Power Content Label. The Power Content Label is a measure of what sources of electricity supply Load Serving Entities, like PG&E and EBCE. The California Energy Commission publishes the Power Content Label each fall for the previous year, so PG&E's 2018 Power Content Label will not be published until fall 2019. While the Power Content Label is a lagging indicator or both renewable energy and carbon-free energy, it is the primary measure where a single third party reviews all Load Serving Entities using the same measurement criteria. The benefit of using the Power Content Label is that it provides a uniform way to compare EBCE and PG&E.

Table 2 - 2016 Power Content Label³

	Pacific Gas and Electric	
Energy Resources	Power Mix	2016 CA Power Mix
Eligible Renewables	33%	25%
Coal	0%	4%
Large Hydro Electric	12%	10%
Natural Gas	17%	37%
Nuclear	24%	9%
Other	0%	0%
Unspecified sources of power	14%	15%

A comparison between EBCE's procurement plan and PG&E's reported renewable energy and carbon-free energy shows that EBCE will procure 7% more carbon free energy than PG&E.

Table 3 - EBCE-PG&E Renewable and Carbon-free Energy Comparison

2016	2017	2018
PG	&E	

³ http://www.energy.ca.gov/pcl/labels/2016_labels/Pacific_Gas__and__Electric.pdf

Renewable	33%	33%	Not reported
Carbon-free	69%	78.8%	
	EB	CE	
Renewable	N.	/A	38%
Carbon-free			86%
Renewable	EBCE: 38%, PG	&E: 33% = EBCE 5% h	igher renewable
Carbon-free	EBCE: 86%, PG&	E: 78.8% = EBCE 7% h	nigher carbon-free

Additionally, in PG&E's 2017 Renewable Portfolio Plan filing with the California Public Utilities Commission, PG&E stated that it does not plan to pursue incremental renewables procurement in 2018 (the 2017 procurement cycle) and will instead be selling renewable energy. As PG&E noted in its Renewable Energy Procurement Plan:

Given its forecasted position and these continued trends, PG&E is pursuing several strategies to better align its RPS volumes with its RPS need, as described in more detail in the following sections. PG&E proposes to refrain from holding an RPS procurement solicitation for the 2017 cycle and will continue to assess potential sales of excess RPS volumes. Moreover, PG&E plans to seek to suspend or change existing procurement mandates, and oppose new mandates, that require PG&E to obtain RPS resources despite a documented lack of RPS need. (Summary of Key Issues, PG&E 2017 Renewable Energy Procurement Plan, p.2)

While these statements should not be used as the basis to project where exactly PG&E will be at the end of 2018, this statement is an indicator that PG&E's 2018 renewables content will not increase significantly. Based on the facts laid out here, EBCE Staff analysis finds that EBCE will meet threshold set in the EBCE JPA Agreement for exceeding PG&E renewable and carbon-free energy levels.

Criteria 3: Comparison of EBCE and PG&E Rates

On March 21, 2018, the EBCE Board of Director's approved the rates for EBCE customers when EBCE launches service on June 1, 2018. The EBCE rates are benchmarked off of PG&E rates, specifically on PG&E's 2018 Annual Electric True-Up - Consolidated Rate Changes Effective March 1, 2018⁴. EBCE's approved rates for its primary default product - Bright Choice - includes an across the board 1.5% discount relative to PG&Es rates. As a result, when EBCE commences serving customers in June 2018, all customers taking EBCE's Bright Choice product will benefit from a 1.5% rate discount relative to what they would have paid PG&E. Below is a table that includes a comparison of EBCE's most common rates (a full comparison of EBCE and PG&Es rates is attached to this memo).

PG&E and **EBCE** Rate Comparison Table

					1
	PG&E Generation	EBCE Generation	PCIA	EBCE Total Rate	Discount
Residential					
E-1	0.10780	0.07217	0.03401	0.10618	1.5%
Small L&P					
A-1 Summer	0.1257	0.09853	0.02528	0.1257	1.5%
A-1 Winter	0.8648	0.0599	0.02528	0.08648	1.5%
Medium L&P					
A10 - Demand	4.7	4.6295		4.6295	1.5%
A-10 - Summer	0.1062	0.07893	0.02568	0.10461	1.5%
A-10 - Winter	0.08282	0.0559	0.02568	0.8158	1.5%
E-19 Class					
E-19P Peak					
Summer	0.12751	0.10395	0.02165	0.1256	1.5%
E-19P Off-Peak					
Winter	0.06511	0.04248	0.02165	0.06413	1.5%
E-20 Class					
E-20P Peak					
Summer	0.13073	0.10933	0.01786	0.12877	1.5%
E-20P Off-Peak					
Winter	0.06558	0.04516	0.01944	0.0646	1.5%

EBCE will also be offering a 100% Greenhouse Gas Free option to customers call Brilliant 100. The Brilliant 100 rates match those of PG&E's current rate for standard electricity.

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⁴ https://www.pge.com/tariffs/assets/pdf/adviceletter/ELEC_5231-E.pdf

Conclusion

East Bay Community Energy's Joint Powers Agreement requires an analysis comparing EBCE and PG&E rates, renewable energy and carbon-free energy content.

1) Comparison of EBCE and PG&E Renewable and GHG-free energy

In consultation with the Northern California Power Agency, EBCE's scheduling coordinator and energy portfolio manager, EBCE assessed its procurement plan and found that its current trajectory is to procure over 38% eligible renewable energy and 48% RPS eligible carbon-free energy, for a total of over 86% carbon-free energy in 2018. EBCE staff then performed an analysis of two reports on PG&E's renewable and carbon-free content and found that EBCE's 2018 trajectory exceeds PG&E's reported 2016 and 2017 renewables and carbon-free energy levels. When comparing EBCE to PG&E's reported 2017 RPS and carbon-free energy levels, EBCE's procurement plans exceeds that of PG&E by 5% for renewable energy and 7% for carbon-free energy.

2) Comparison of EBCE BrightChoice, Brilliant 100 and PG&E Rates

After EBCE's Board of Directors adopted its rate discount of 1.5% for its primary default rate, BrightChoice, EBCE staff developed a comprehensive rates sheet that applied this 1.5% discount to all rates currently offered by PG&E that EBCE will start offering at launch. EBCE's Board of Directors approved these rates at its March 21, 2018 meeting, at which point EBCE loaded these rates into its billing engine that will be used as the basis for calculating EBCE customer's bills.

EBCE will also be offering a 100% Greenhouse Gas Free product at launch called Brilliant 100. The Brilliant 100 rates are equivalent to PG&E's standard rates.

Based on EBCE staff analysis, supported by NCPA's evaluation of EBCE's procurement, EBCE staff believes that all three conditions of JPA Section 7.1.3 (lower rates, higher renewables and higher GHG-free energy) will be met by EBCE at launch and throughout 2018

Attachments:

- -Power Supply Procured and Recommended
- -EBCE Rate Sheets



Staff Report Consent Item 5

TO: East Bay Community Energy Board of Directors

FROM: Nick Chaset, Chief Executive Officer

SUBJECT: Approval of EBCE Rate Sheets

DATE: March 21, 2018

Recommendation

Adopt a Resolution approving the rate sheets for the *Bright Choice* and *Brilliant 100* product services.

Background

PG&E recently published its updated rates for 2018, which took effect March 1. The rates are published on PG&E's tariff page, and provide a breakdown of the generation component of the charges for the various billing determinants used to calculate a PG&E bill.

During its February 7, 2018 meeting, the board approved overall discounts for both EBCE products, setting a discount of 1.5% for the *Bright Choice* service, and a discount of 0% for the *Brilliant 100* service, as compared to PG&E rates.

EBCE staff has compiled a list of all possible billing determinants by rate schedule, and has calculated the rates corresponding to each determinant for each rate schedule and each product, as listed in the attached rate sheet.

Analysis & Discussion

Rates were calculated for each determinant by requiring that the base EBCE rate plus system fees (PCIA & franchise fees) amount to 1.5% less than corresponding PG&E amounts for *Bright Choice*, and to 0% less for *Brilliant 100*.

Attachments

- A. Resolution
- B. Exhibit A Rate Sheets

RESOLUTION NO.

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE EAST BAY COMMUNITY ENERGY AUTHORITY APPROVING RATES FOR BRIGHT CHOICE AND BRILLIANT 100 PRODUCTS

THE BOARD OF DIRECTORS OF THE EAST BAY COMMUNITY ENERGY AUTHORITY DOES HEREBY FIND, RESOLVE, AND ORDER AS FOLLOWS:

Section 1. The East Bay Community Energy Authority ("EBCE") was formed on December 1, 2016, under the Joint Exercise of Power Act, California Government Code sections 6500 et seq., among the County of Alameda, and the Cities of Albany, Berkeley, Castro Valley, Dublin, Emeryville, Fremont, Hayward, Livermore, Oakland, San Leandro, and Union City, to study, promote, develop, conduct, operate, and manage energy and energy-related climate change programs in all the member jurisdictions.

<u>Section 2.</u> At the February 7, 2018 Board of Directors regular meeting, the Board established the initial energy products to be provided by EBCE namely Bright Choice containing 85% carbon-free content and Brilliant 100 containing 100% carbon-free content.

<u>Section 3.</u> At the February 7, 2018 Board of Directors regular meeting, the Board also set a framework for establishing rates by benchmarking the rates off PG&E rates such that Bright Choice rates will be set at 1.5% below PG&E's 2018 rates and Brilliant 100 rates will match PG&E's 2018 rates.

<u>Section 4.</u> Based on the rates framework and PG&E's 2018 rates, which were effective on March 1, 2018, the Board hereby establishes the rates for Bright Choice and Brilliant 100 as set forth in Exhibit A for Bright Choice and Brilliant 100.

<u>Section 5.</u> The Board reserves the right to modify the rates from time to time to stay competitive with PG&E rates and maintain the rates consistent with the previous framework or adopt a new framework. Any rates adjustment shall be made at a noticed public meeting.

ADOPTED AND APPROVED this	_day of,	2018.
	Scott Haggerty, Chair	
ATTEST:		
	_	
Stephanie Cabrera, Clerk of the Board		



East Bay Community Energy Rate Sheets

Bright Choice

Winter	kWh	0.09387	0.09246	0.02568	0.06678	Part-Peak Winter kWh	A10PX
Summer	kWh	0.10757	0.10596	0.02568	0.08028	Part-Peak Summer kWh	A10PX
Winter	kWh	0.07799	0.07682	0.02568	0.05114	Off-Peak Winter kWh	A10PX
Summer	kWh	0.08094	0.07973	0.02568	0.05405	Off-Peak Summer kWh	A10PX
Summer	kW	4.7	4.6295	0	4.6295	Max Demand Summer kW	A10PX
Winter	kWh	0.08282	0.08158	0.02568	0.0559	Winter kWh	A10P
Summer	kWh	0.1062	0.10461	0.02568	0.07893	Summer kWh	A10P
Summer	kW	4.7	4.6295	0	4.6295	Max Demand Summer kW	A10P
Winter	kWh	0.08648	0.08518	0.02528	0.0599	Winter kWh	A1
Summer	kWh	0.1257	0.12381	0.02528	0.09853	Summer kWh	Al
Season	Unit	PG&E 2018 Rate	Total Rate	System Fees	EBCE Rate	Billing Determinant Name	Rate



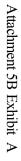


Summer	kWh	0.09638	0.09493	0.02568	0.06925	Summer kWh	A10T
Summer	kW	3.69	3.63465	0	3.63465	Max Demand Summer kW	A10T
Summer	kWh	0.17002	0.16747	0.02568	0.14179	Peak Summer kWh	A10SX
Winter	kWh	0.09895	0.09747	0.02568	0.07179	Part-Peak Winter kWh	A10SX
Summer	kWh	0.11489	0.11317	0.02568	0.08749	Part-Peak Summer kWh	A10SX
Winter	kWh	0.08188	0.08065	0.02568	0.05497	Off-Peak Winter kWh	A10SX
Summer	kWh	0.08682	0.08552	0.02568	0.05984	Off-Peak Summer kWh	A10SX
Summer	kW	5.41	5.32885	0	5.32885	Max Demand Summer kW	A10SX
Winter	kWh	0.08916	0.08782	0.02568	0.06214	Winter kWh	A10S
Summer	kWh	0.11614	0.1144	0.02568	0.08872	Summer kWh	A10S
Summer	kW	5.41	5.32885	0	5.32885	Max Demand Summer kW	A10S
Summer	kWh	0.15813	0.15576	0.02568	0.13008	Peak Summer kWh	A10PX



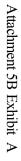


Summer	kWh	0.11619	0.11445	0.02528	0.08917	Part-Peak Summer kWh	AlX
Winter	kWh	0.09508	0.09365	0.02528	0.06837	Off-Peak Winter kWh	AIX
Summer	kWh	0.08884	0.08751	0.02528	0.06223	Off-Peak Summer kWh	AIX
Winter	kWh	0.08648	0.08518	0.02528	0.0599	Winter kWh	A15
Summer	kWh	0.1257	0.12381	0.02528	0.09853	Summer kWh	A15
Summer	kWh	0.1439	0.14174	0.02568	0.11606	Peak Summer kWh	A10TX
Winter	kWh	0.08524	0.08396	0.02568	0.05828	Part-Peak Winter kWh	A10TX
Summer	kWh	0.09703	0.09557	0.02568	0.06989	Part-Peak Summer kWh	A10TX
Winter	kWh	0.07066	0.0696	0.02568	0.04392	Off-Peak Winter kWh	A10TX
Summer	kWh	0.07172	0.07064	0.02568	0.04496	Off-Peak Summer kWh	A10TX
Summer	kW	3.69	3.63465	0	3.63465	Max Demand Summer kW	A10TX
Winter	kWh	0.07608	0.07494	0.02568	0.04926	Winter kWh	A10T



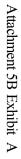


Summer	kWh	0.11198	0.1103	0.02516	0.08514	Summer kWh	AG1B
Summer	kW	2.24	2.2064	0	2.2064	Max Demand Summer kW	AG1B
Winter	kWh	0.08721	0.0859	0.02516	0.06074	Winter kWh	AG1A
Summer	kWh	0.10874	0.10711	0.02516	0.08195	Summer kWh	AG1A
Summer	kW	1.49	1.46765	0	1.46765	Connected Load Summer kW	AG1A
Summer	kWh	0.37744	0.37178	0.02528	0.3465	Peak Summer kWh	A6
Winter	kWh	0.10503	0.10345	0.02528	0.07817	Part-Peak Winter kWh	A6
Summer	kWh	0.13786	0.13579	0.02528	0.11051	Part-Peak Summer kWh	A6
Winter	kWh	0.08754	0.08623	0.02528	0.06095	Off-Peak Winter kWh	A6
Summer	kWh	0.07957	0.07838	0.02528	0.0531	Off-Peak Summer kWh	A6
Summer	kWh	0.13984	0.13774	0.02528	0.11246	Peak Summer kWh	A1X
Winter	kWh	0.116	0.11426	0.02528	0.08898	Part-Peak Winter kWh	A1X



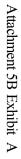


Summer	kWh	0.13325	0.13125	0.02516	0.10609	Peak Summer kWh	AG4B
Winter	kWh	0.07542	0.07429	0.02516	0.04913	Part-Peak Winter kWh	AG4B
Winter	kWh	0.06417	0.06321	0.02516	0.03805	Off-Peak Winter kWh	AG4B
Summer	kWh	0.07734	0.07618	0.02516	0.05102	Off-Peak Summer kWh	AG4B
Summer	kW	2.78	2.7383	0	2.7383	Max Peak Demand Summer kW	AG4B
Summer	kW	2.62	2.5807	0	2.5807	Max Demand Summer kW	AG4B
Summer	kWh	0.17399	0.17138	0.02516	0.14622	Peak Summer kWh	AG4A
Winter	kWh	0.0796	0.07841	0.02516	0.05325	Part-Peak Winter kWh	AG4A
Winter	kWh	0.06782	0.0668	0.02516	0.04164	Off-Peak Winter kWh	AG4A
Summer	kWh	0.07511	0.07398	0.02516	0.04882	Off-Peak Summer kWh	AG4A
Summer	kW	1.48	1.4578	0	1.4578	Connected Load Summer kW	AG4A
Winter	kWh	0.08729	0.08598	0.02516	0.06082	Winter kWh	AG1B



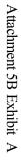


Summer	kWh	0.16283	0.16039	0.02516	0.13523	Peak Summer kWh	AG5A
Winter	kWh	0.08432	0.08306	0.02516	0.0579	Part-Peak Winter kWh	AG5A
Winter	kWh	0.07191	0.07083	0.02516	0.04567	Off-Peak Winter kWh	AG5A
Summer	kWh	0.08051	0.0793	0.02516	0.05414	Off-Peak Summer kWh	AG5A
Summer	kW	4.05	3.98925	0	3.98925	Connected Load Summer kW	AG5A
Summer	kWh	0.15377	0.15146	0.02516	0.1263	Peak Summer kWh	AG4C
Winter	kWh	0.06969	0.06864	0.02516	0.04348	Part-Peak Winter kWh	AG4C
Summer	kWh	0.08705	0.08574	0.02516	0.06058	Part-Peak Summer kWh	AG4C
Winter	kWh	0.05928	0.05839	0.02516	0.03323	Off-Peak Winter kWh	AG4C
Summer	kWh	0.06281	0.06187	0.02516	0.03671	Off-Peak Summer kWh	AG4C
Summer	kW	6.45	6.35325	0	6.35325	Max Peak Demand Summer kW	AG4C
Summer	kW	1.1	1.0835	0	1.0835	Max Part-Peak Demand Summer kW	AG4C



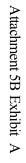


Winter	kWh	0.06159	0.06067	0.02516	0.03551	Part-Peak Winter kWh	AG5C
Summer	kWh	0.07612	0.07498	0.02516	0.04982	Part-Peak Summer kWh	AG5C
Winter	kWh	0.05217	0.05139	0.02516	0.02623	Off-Peak Winter kWh	AG5C
Summer	kWh	0.05538	0.05455	0.02516	0.02939	Off-Peak Summer kWh	AG5C
Summer	kW	11.31	11.14035	0	11.14035	Max Peak Demand Summer kW	AG5C
Summer	kW	2.13	2.09805	0	2.09805	Max Part-Peak Demand Summer kW	AG5C
Summer	kWh	0.15904	0.15665	0.02516	0.13149	Peak Summer kWh	AG5B
Winter	kWh	0.07547	0.07434	0.02516	0.04918	Part-Peak Winter kWh	AG5B
Winter	kWh	0.04437	0.0437	0.02516	0.01854	Off-Peak Winter kWh	AG5B
Summer	kWh	0.05347	0.05267	0.02516	0.02751	Off-Peak Summer kWh	AG5B
Summer	kW	6.1	6.0085	0	6.0085	Max Peak Demand Summer kW	AG5B
Summer	kW	4.87	4.79695	0	4.79695	Max Demand Summer kW	AG5B



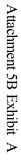


Summer	kWh	0.26432	0.26036	0.02516	0.2352	Peak Summer kWh	AGRB
Winter	kWh	0.06713	0.06612	0.02516	0.04096	Part-Peak Winter kWh	AGRB
Winter	kWh	0.05717	0.05631	0.02516	0.03115	Off-Peak Winter kWh	AGRB
Summer	kWh	0.07317	0.07207	0.02516	0.04691	Off-Peak Summer kWh	AGRB
Summer	kW	2.39	2.35415	0	2.35415	Max Peak Demand Summer kW	AGRB
Summer	kW	2.13	2.09805	0	2.09805	Max Demand Summer kW	AGRB
Summer	kWh	0.29269	0.2883	0.02516	0.26314	Peak Summer kWh	AGRA
Winter	kWh	0.08152	0.0803	0.02516	0.05514	Part-Peak Winter kWh	AGRA
Winter	kWh	0.06939	0.06835	0.02516	0.04319	Off-Peak Winter kWh	AGRA
Summer	kWh	0.07372	0.07261	0.02516	0.04745	Off-Peak Summer kWh	AGRA
Summer	kW	1.44	1.4184	0	1.4184	Connected Load Summer kW	AGRA
Summer	kWh	0.13183	0.12985	0.02516	0.10469	Peak Summer kWh	AG5C



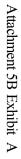


All	kWh	0.1078	0.10618	0.03401	0.07217	Flat kWh	E1
Summer	kWh	0.23649	0.23294	0.02516	0.20778	Peak Summer kWh	AGVB
Winter	kWh	0.06738	0.06637	0.02516	0.04121	Part-Peak Winter kWh	AGVB
Winter	kWh	0.05737	0.05651	0.02516	0.03135	Off-Peak Winter kWh	AGVB
Summer	kWh	0.07118	0.07011	0.02516	0.04495	Off-Peak Summer kWh	AGVB
Summer	kW	2.51	2.47235	0	2.47235	Max Peak Demand Summer kW	AGVB
Summer	kW	1.95	1.92075	0	1.92075	Max Demand Summer kW	AGVB
Summer	kWh	0.2561	0.25226	0.02516	0.2271	Peak Summer kWh	AGVA
Winter	kWh	0.07985	0.07865	0.02516	0.05349	Part-Peak Winter kWh	AGVA
Winter	kWh	0.06797	0.06695	0.02516	0.04179	Off-Peak Winter kWh	AGVA
Summer	kWh	0.07074	0.06968	0.02516	0.04452	Off-Peak Summer kWh	AGVA
Summer	kW	1.5	1.4775	0	1.4775	Connected Load Summer kW	AGVA



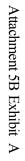


Summer	kWh	0.27796	0.27379	0.02165	0.25214	Peak Summer kWh	E19PR
Winter	kWh	0.07978	0.07858	0.02165	0.05693	Part-Peak Winter kWh	E19PR
Summer	kWh	0.11993	0.11813	0.02165	0.09648	Part-Peak Summer kWh	E19PR
Winter	kWh	0.06511	0.06413	0.02165	0.04248	Off-Peak Winter kWh	E19PR
Summer	kWh	0.05843	0.05755	0.02165	0.0359	Off-Peak Summer kWh	E19PR
Summer	kWh	0.12751	0.1256	0.02165	0.10395	Peak Summer kWh	E19P
Winter	kWh	0.07978	0.07858	0.02165	0.05693	Part-Peak Winter kWh	E19P
Summer	kWh	0.08546	0.08418	0.02165	0.06253	Part-Peak Summer kWh	E19P
Winter	kWh	0.06511	0.06413	0.02165	0.04248	Off-Peak Winter kWh	E19P
Summer	kWh	0.05843	0.05755	0.02165	0.0359	Off-Peak Summer kWh	E19P
Summer	kW	12.37	12.18445	0	12.18445	Max Peak Demand Summer kW	E19P
Summer	kW	3.01	2.96485	0	2.96485	Max Part-Peak Demand Summer kW	E19P



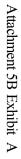


Summer	kWh	0.29098	0.28662	0.02165	0.26497	Peak Summer kWh	E19SR
Winter	kWh	0.08715	0.08584	0.02165	0.06419	Part-Peak Winter kWh	E19SR
Summer	kWh	0.12891	0.12698	0.02165	0.10533	Part-Peak Summer kWh	E19SR
Winter	kWh	0.07112	0.07005	0.02165	0.0484	Off-Peak Winter kWh	E19SR
Summer	kWh	0.06382	0.06286	0.02165	0.04121	Off-Peak Summer kWh	E19SR
Summer	kWh	0.13766	0.1356	0.02165	0.11395	Peak Summer kWh	E19S
Winter	kWh	0.08715	0.08584	0.02165	0.06419	Part-Peak Winter kWh	E19S
Summer	kWh	0.09324	0.09184	0.02165	0.07019	Part-Peak Summer kWh	E19S
Winter	kWh	0.07112	0.07005	0.02165	0.0484	Off-Peak Winter kWh	E19S
Summer	kWh	0.06382	0.06286	0.02165	0.04121	Off-Peak Summer kWh	E19S
Summer	kW	13.86	13.6521	0	13.6521	Max Peak Demand Summer kW	E19S
Summer	kW	3.42	3.3687	0	3.3687	Max Part-Peak Demand Summer kW	E19S



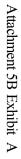


SHIIIIIGI	KWII	0.2/080	0.2/2/1	0.02103	0.23100	reak Sullinet Kwii	EIYIK
2	1-11/1-	202750	0 27271	0 00165	0 25106	Book Summer LWI	EloTo
Winter	kWh	0.07893	0.07775	0.02165	0.0561	Part-Peak Winter kWh	E19TR
Summer	kWh	0.12054	0.11873	0.02165	0.09708	Part-Peak Summer kWh	E19TR
Winter	kWh	0.06442	0.06345	0.02165	0.0418	Off-Peak Winter kWh	E19TR
Summer	kWh	0.0578	0.05693	0.02165	0.03528	Off-Peak Summer kWh	E19TR
Summer	kWh	0.09096	0.0896	0.02165	0.06795	Peak Summer kWh	E19T
Winter	kWh	0.07893	0.07775	0.02165	0.0561	Part-Peak Winter kWh	E19T
Summer	kWh	0.07669	0.07554	0.02165	0.05389	Part-Peak Summer kWh	E19T
Winter	kWh	0.06442	0.06345	0.02165	0.0418	Off-Peak Winter kWh	E19T
Summer	kWh	0.0578	0.05693	0.02165	0.03528	Off-Peak Summer kWh	E19T
Summer	kW	14.06	13.8491	0	13.8491	Max Peak Demand Summer kW	E19T
Summer	kW	3.53	3.47705	0	3.47705	Max Part-Peak Demand Summer kW	E19T



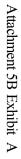


Summer	kWh	0.28229	0.27806	0.01944	0.25862	Peak Summer kWh	E20PR
Winter	kWh	0.08037	0.07916	0.01944	0.05972	Part-Peak Winter kWh	E20PR
Summer	kWh	0.11956	0.11777	0.01944	0.09833	Part-Peak Summer kWh	E20PR
Winter	kWh	0.06558	0.0646	0.01944	0.04516	Off-Peak Winter kWh	E20PR
Summer	kWh	0.05886	0.05798	0.01944	0.03854	Off-Peak Summer kWh	E20PR
Summer	kWh	0.13073	0.12877	0.01944	0.10933	Peak Summer kWh	E20P
Winter	kWh	0.08037	0.07916	0.01944	0.05972	Part-Peak Winter kWh	E20P
Summer	kWh	0.08623	0.08494	0.01944	0.0655	Part-Peak Summer kWh	E20P
Winter	kWh	0.06558	0.0646	0.01944	0.04516	Off-Peak Winter kWh	E20P
Summer	kWh	0.05886	0.05798	0.01944	0.03854	Off-Peak Summer kWh	E20P
Summer	kW	14.72	14.4992	0	14.4992	Max Peak Demand Summer kW	E20P
Summer	kW	3.48	3.4278	0	3.4278	Max Part-Peak Demand Summer kW	E20P





Summer	kWh	0.26514	0.26116	0.02083	0.24033	Peak Summer kWh	E20SR
Winter	kWh	0.08161	0.08039	0.02083	0.05956	Part-Peak Winter kWh	E20SR
Summer	kWh	0.12067	0.11886	0.02083	0.09803	Part-Peak Summer kWh	E20SR
Winter	kWh	0.06659	0.06559	0.02083	0.04476	Off-Peak Winter kWh	E20SR
Summer	kWh	0.05976	0.05886	0.02083	0.03803	Off-Peak Summer kWh	E20SR
Summer	kWh	0.12784	0.12592	0.02083	0.10509	Peak Summer kWh	E20S
Winter	kWh	0.08161	0.08039	0.02083	0.05956	Part-Peak Winter kWh	E20S
Summer	kWh	0.08747	0.08616	0.02083	0.06533	Part-Peak Summer kWh	E20S
Winter	kWh	0.06659	0.06559	0.02083	0.04476	Off-Peak Winter kWh	E20S
Summer	kWh	0.05976	0.05886	0.02083	0.03803	Off-Peak Summer kWh	E20S
Summer	kW	13.41	13.20885	0	13.20885	Max Peak Demand Summer kW	E20S
Summer	kW	3.31	3.26035	0	3.26035	Max Part-Peak Demand Summer kW	E20S





Summer	kWh	0.27362	0.26952	0.01786	0.25166	Peak Summer kWh	E20TR
Winter	kWh	0.0742	0.07309	0.01786	0.05523	Part-Peak Winter kWh	E20TR
Summer	kWh	0.11193	0.11025	0.01786	0.09239	Part-Peak Summer kWh	E20TR
Winter	kWh	0.06056	0.05965	0.01786	0.04179	Off-Peak Winter kWh	E20TR
Summer	kWh	0.05434	0.05352	0.01786	0.03566	Off-Peak Summer kWh	E20TR
Summer	kWh	0.0855	0.08422	0.01786	0.06636	Peak Summer kWh	E20T
Winter	kWh	0.0742	0.07309	0.01786	0.05523	Part-Peak Winter kWh	E20T
Summer	kWh	0.07209	0.07101	0.01786	0.05315	Part-Peak Summer kWh	E20T
Winter	kWh	0.06056	0.05965	0.01786	0.04179	Off-Peak Winter kWh	E20T
Summer	kWh	0.05434	0.05352	0.01786	0.03566	Off-Peak Summer kWh	E20T
Summer	kW	17.42	17.1587	0	17.1587	Max Peak Demand Summer kW	E20T
Summer	kW	4.15	4.08775	0	4.08775	Max Part-Peak Demand Summer kW	E20T





Summer	kWh	0.11493	0.11321	0.03401	0.0792	Off-Peak Summer kWh	ETOUA
Summer	kWh	0.23774	0.23417	0.03401	0.20016	Peak Summer kWh	E6
Winter	kWh	0.1044	0.10283	0.03401	0.06882	Part-Peak Winter kWh	E6
Summer	kWh	0.12489	0.12302	0.03401	0.08901	Part-Peak Summer kWh	E6
Winter	kWh	0.09173	0.09035	0.03401	0.05634	Off-Peak Winter kWh	E6
Summer	kWh	0.07883	0.07765	0.03401	0.04364	Off-Peak Summer kWh	E6
Summer	kWh	0.15904	0.15665	0.02516	0.13149	Peak Summer kWh	E37
Winter	kWh	0.07547	0.07434	0.02516	0.04918	Part-Peak Winter kWh	E37
Winter	kWh	0.04437	0.0437	0.02516	0.01854	Off-Peak Winter kWh	E37
Summer	kWh	0.05347	0.05267	0.02516	0.02751	Off-Peak Summer kWh	E37
Summer	kW	6.1	6.0085	0	6.0085	Max Peak Demand Summer kW	E37
Summer	kW	4.87	4.79695	0	4.79695	Max Demand Summer kW	E37





Winter	kWh	0.10999	0.10834	0.03401	0.07433	Peak Winter kWh	ETOUC 3
Summer	kWh	0.16645	0.16395	0.03401	0.12994	Peak Summer kWh	ETOUC 3
Winter	kWh	0.09266	0.09127	0.03401	0.05726	Off-Peak Winter kWh	ETOUC 3
Summer	kWh	0.10301	0.10146	0.03401	0.06745	Off-Peak Summer kWh	ETOUC 3
Winter	kWh	0.10554	0.10396	0.03401	0.06995	Peak Winter kWh	ETOUB
Summer	kWh	0.21238	0.20919	0.03401	0.17518	Peak Summer kWh	ETOUB
Winter	kWh	0.08674	0.08544	0.03401	0.05143	Off-Peak Winter kWh	ETOUB
Summer	kWh	0.10932	0.10768	0.03401	0.07367	Off-Peak Summer kWh	ETOUB
Winter	kWh	0.10316	0.10161	0.03401	0.0676	Peak Winter kWh	ETOUA
Summer	kWh	0.1905	0.18764	0.03401	0.15363	Peak Summer kWh	ETOUA
Winter	kWh	0.08887	0.08754	0.03401	0.05353	Off-Peak Winter kWh	ETOUA



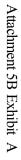


							,
Spring	kWh	0.0732	0.0721	0.03401	0.03809	Off-Peak Spring kWh	ETOUP
Winter	kWh	0.09256	0.09117	0.03401	0.05716	Peak Winter kWh	ETOUP 2
Summer	kWh	0.21691	0.21366	0.03401	0.17965	Peak Summer kWh	ETOUP 2
Summer	kWh	0.15602	0.15368	0.03401	0.11967	Part-Peak Summer kWh	ETOUP 2
Winter	kWh	0.07253	0.07144	0.03401	0.03743	Off-Peak Winter kWh	ETOUP 2
Summer	kWh	0.08359	0.08234	0.03401	0.04833	Off-Peak Summer kWh	ETOUP 2
Winter	kWh	0.09348	0.09208	0.03401	0.05807	Peak Winter kWh	ETOUP 1
Summer	kWh	0.20031	0.19731	0.03401	0.1633	Peak Summer kWh	ETOUP 1
Winter	kWh	0.07468	0.07356	0.03401	0.03955	Off-Peak Winter kWh	ETOUP 1
Summer	kWh	0.09725	0.09579	0.03401	0.06178	Off-Peak Summer kWh	ETOUP 1





Summer	kWh	0.24674	0.24304	0.03401	0.20903	Peak Summer kWh	EV
Winter	kWh	0.05761	0.05675	0.03401	0.02274	Part-Peak Winter kWh	EV
Summer	kWh	0.11891	0.11713	0.03401	0.08312	Part-Peak Summer kWh	EV
Winter	kWh	0.06198	0.06105	0.03401	0.02704	Off-Peak Winter kWh	EV
Summer	kWh	0.05976	0.05886	0.03401	0.02485	Off-Peak Summer kWh	EV
Spring	kWh	0.04676	0.04606	0.03401	0.01205	Super-Off-Peak Spring kWh	ETOUP 3
Winter	kWh	0.09801	0.09654	0.03401	0.06253	Peak Winter kWh	ETOUP 3
Summer	kWh	0.2006	0.19759	0.03401	0.16358	Peak Summer kWh	ETOUP 3
Spring	kWh	0.08553	0.08425	0.03401	0.05024	Peak Spring kWh	ETOUP 3
Winter	kWh	0.07906	0.07787	0.03401	0.04386	Off-Peak Winter kWh	ETOUP 3
Summer	kWh	0.09754	0.09608	0.03401	0.06207	Off-Peak Summer kWh	ETOUP 3





Winter	kWh	0.09487	0.09345	0.01246	0.08099	Part-Peak Winter kWh	STOUS
Summer	kWh	0.0921	0.09072	0.01246	0.07826	Part-Peak Summer kWh	STOUS
Winter	kWh	0.07726	0.0761	0.01246	0.06364	Off-Peak Winter kWh	STOUS
Summer	kWh	0.06937	0.06833	0.01246	0.05587	Off-Peak Summer kWh	STOUS
All	kW	0.42	0.4137	0	0.4137	Reservation Charge kW	STOUP
Summer	kWh	0.10947	0.10783	0.01246	0.09537	Peak Summer kWh	STOUP
Winter	kWh	0.09487	0.09345	0.01246	0.08099	Part-Peak Winter kWh	STOUP
Summer	kWh	0.0921	0.09072	0.01246	0.07826	Part-Peak Summer kWh	STOUP
Winter	kWh	0.07726	0.0761	0.01246	0.06364	Off-Peak Winter kWh	STOUP
Summer	kWh	0.06937	0.06833	0.01246	0.05587	Off-Peak Summer kWh	STOUP
All	kWh	0.08753	0.08622	0.0065	0.07972	Flat kWh	LS
Winter	kWh	0.0922	0.09082	0.03401	0.05681	Peak Winter kWh	EV



Attachment 5A Exhibit A

All	kWh	0.09504	0.09361	0.0065	0.08711	Flat kWh	TC1
All	kW	0.35	0.34475	0	0.34475	Reservation Charge kW	STOUT
Summer	kWh	0.09192	0.09054	0.01246	0.07808	Peak Summer kWh	STOUT
Winter	kWh	0.07976	0.07856	0.01246	0.0661	Part-Peak Winter kWh	STOUT
Summer	kWh	0.07749	0.07633	0.01246	0.06387	Part-Peak Summer kWh	STOUT
Winter	kWh	0.06511	0.06413	0.01246	0.05167	Off-Peak Winter kWh	STOUT
Summer	kWh	0.05841	0.05753	0.01246	0.04507	Off-Peak Summer kWh	STOUT
All	kW	0.42	0.4137	0	0.4137	Reservation Charge kW	STOUS
Summer	kWh	0.10947	0.10783	0.01246	0.09537	Peak Summer kWh	STOUS



Brilliant 100

Summer	kWh	0.10757	0.10757	0.02568	0.08189	Part-Peak Summer kWh	A10PX
Winter	kWh	0.07799	0.07799	0.02568	0.05231	Off-Peak Winter kWh	A10PX
Summer	kWh	0.08094	0.08094	0.02568	0.05526	Off-Peak Summer kWh	A10PX
Summer	kW	4.7	4.7	0	4.7	Max Demand Summer kW	A10PX
Winter	kWh	0.08282	0.08282	0.05714 0.02568	0.05714	Winter kWh	A10P
Summer	kWh	0.1062	0.1062	0.02568	0.08052	Summer kWh	A10P
Summer	kW	4.7	4.7	0	4.7	Max Demand Summer kW	A10P
Winter	kWh	0.08648	0.08648	0.02528	0.0612	Winter kWh	A1
Summer	kWh	0.1257	0.1257	0.02528	0.10042	Summer kWh	A1
Season	Unit	PG&E 2018 Rate	Total Rate	System Fees	EBCE Rate	Billing Determinant Name	Rate





0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kWh 0.02568 0.11614 0.11614 kWh 0.02568 0.08916 0.08916 kWh 0.02568 0.08916 0.08916 kWh 0.02568 0.08682 0.08682 kWh 0.02568 0.08188 0.08188 kWh 0.02568 0.11489 0.11489 kWh 0.02568 0.17002 0.17002 kWh 0 3.69 kW								
245 0.02568 0.15813 0.15813 kWh 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 114 0.02568 0.08682 0.08916 kWh 62 0.02568 0.08188 0.08188 kWh 921 0.02568 0.11489 0.11489 kWh 327 0.02568 0.09895 0.09895 kWh 434 0.02568 0.17002 0.17002 kWh	Summer	kW	3.69	3.69	0	3.69	Max Demand Summer kW	A10T
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 114 0.02568 0.08682 0.08682 kWh 62 0.02568 0.08188 0.08188 kWh 921 0.02568 0.11489 0.11489 kWh 327 0.02568 0.09895 0.09895 kWh	Summer	kWh	0.17002	0.17002	0.02568	0.14434	Peak Summer kWh	A10SX
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 114 0.02568 0.08682 0.08682 kWh 62 0.02568 0.08188 0.08188 kWh 921 0.02568 0.11489 0.11489 kWh	Winter	kWh	0.09895	0.09895	0.02568	0.07327	Part-Peak Winter kWh	A10SX
245 0.02568 0.15813 0.15813 kWh 0 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 114 0.02568 0.08682 0.08682 kWh 62 0.02568 0.08188 0.08188 kWh	Summer	kWh	0.11489	0.11489	0.02568	0.08921	Part-Peak Summer kWh	A10SX
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 0 5.41 5.41 kW 114 0.02568 0.08682 0.08682 kWh	Winter	kWh	0.08188	0.08188	0.02568	0.0562	Off-Peak Winter kWh	A10SX
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh 0 5.41 5.41 kW	Summer	kWh	0.08682	0.08682	0.02568	0.06114	Off-Peak Summer kWh	A10SX
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh 348 0.02568 0.08916 0.08916 kWh	Summer	kW	5.41	5.41	0	5.41	Max Demand Summer kW	A10SX
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW 046 0.02568 0.11614 0.11614 kWh	Winter	kWh	0.08916	0.08916	0.02568	0.06348	Winter kWh	A10S
245 0.02568 0.15813 0.15813 kWh 0 5.41 5.41 kW	Summer	kWh	0.11614	0.11614	0.02568	0.09046	Summer kWh	A10S
0.02568 0.15813 0.15813 kWh	Summer	kW	5.41	5.41	0	5.41	Max Demand Summer kW	A10S
	Summer	kWh	0.15813	0.15813	0.02568	0.13245	Peak Summer kWh	A10PX
0.02568 0.09387 0.09387 kWh	Winter	kWh	0.09387	0.09387	0.02568	0.06819	Part-Peak Winter kWh	A10PX





Winter	kWh	0.09508	0.09508	0.02528	0.0698	Off-Peak Winter kWh	A1X
Summer	kWh	0.08884	0.08884	0.02528	0.06356	Off-Peak Summer kWh	AIX
Winter	kWh	0.08648	0.08648	0.02528	0.0612	Winter kWh	A15
Summer	kWh	0.1257	0.1257	0.02528	0.10042	Summer kWh	A15
Summer	kWh	0.1439	0.1439	0.02568	0.11822	Peak Summer kWh	A10TX
Winter	kWh	0.08524	0.08524	0.02568	0.05956	Part-Peak Winter kWh	A10TX
Summer	kWh	0.09703	0.09703	0.02568	0.07135	Part-Peak Summer kWh	A10TX
Winter	kWh	0.07066	0.07066	0.02568	0.04498	Off-Peak Winter kWh	A10TX
Summer	kWh	0.07172	0.07172	0.02568	0.04604	Off-Peak Summer kWh	A10TX
Summer	kW	3.69	3.69	0	3.69	Max Demand Summer kW	A10TX
Winter	kWh	0.07608	0.07608	0.02568	0.0504	Winter kWh	A10T
Summer	kWh	0.09638	0.09638	0.02568	0.0707	Summer kWh	A10T



Attachment 5B Exhibit A

Summer	kW	2.24	2.24	0	2.24	Max Demand Summer kW	AG1B
Winter	kWh	0.08721	0.08721	0.02516	0.06205	Winter kWh	AG1A
Summer	kWh	0.10874	0.10874	0.02516	0.08358	Summer kWh	AG1A
Summer	kW	1.49	1.49	0	1.49	Connected Load Summer kW	AG1A
Summer	kWh	0.37744	0.37744	0.02528	0.35216	Peak Summer kWh	A6
Winter	kWh	0.10503	0.10503	0.02528	0.07975	Part-Peak Winter kWh	A6
Summer	kWh	0.13786	0.13786	0.02528	0.11258	Part-Peak Summer kWh	A6
Winter	kWh	0.08754	0.08754	0.02528	0.06226	Off-Peak Winter kWh	A6
Summer	kWh	0.07957	0.07957	0.02528	0.05429	Off-Peak Summer kWh	A6
Summer	kWh	0.13984	0.13984	0.02528	0.11456	Peak Summer kWh	AIX
Winter	kWh	0.116	0.116	0.02528	0.09072	Part-Peak Winter kWh	AIX
Summer	kWh	0.11619	0.11619	0.02528	0.09091	Part-Peak Summer kWh	A1X





Winter	kWh	0.07542	0.07542	0.02516	0.05026	Part-Peak Winter kWh	AG4B
Winter	kWh	0.06417	0.06417	0.02516	0.03901	Off-Peak Winter kWh	AG4B
Summer	kWh	0.07734	0.07734	0.02516	0.05218	Off-Peak Summer kWh	AG4B
Summer	kW	2.78	2.78	0	2.78	Max Peak Demand Summer kW	AG4B
Summer	kW	2.62	2.62	0	2.62	Max Demand Summer kW	AG4B
Summer	kWh	0.17399	0.17399	0.02516	0.14883	Peak Summer kWh	AG4A
Winter	kWh	0.0796	0.0796	0.02516	0.05444	Part-Peak Winter kWh	AG4A
Winter	kWh	0.06782	0.06782	0.02516	0.04266	Off-Peak Winter kWh	AG4A
Summer	kWh	0.07511	0.07511	0.02516	0.04995	Off-Peak Summer kWh	AG4A
Summer	kW	1.48	1.48	0	1.48	Connected Load Summer kW	AG4A
Winter	kWh	0.08729	0.08729	0.02516	0.06213	Winter kWh	AG1B
Summer	kWh	0.11198	0.11198	0.02516	0.08682	Summer kWh	AG1B





Winter	kWh	0.08432	0.08432	0.02516	0.05916	Part-Peak Winter kWh	AG5A
Winter	kWh	0.07191	0.07191	0.02516	0.04675	Off-Peak Winter kWh	AG5A
Summer	kWh	0.08051	0.08051	0.02516	0.05535	Off-Peak Summer kWh	AG5A
Summer	kW	4.05	4.05	0	4.05	Connected Load Summer kW	AG5A
Summer	kWh	0.15377	0.15377	0.02516	0.12861	Peak Summer kWh	AG4C
Winter	kWh	0.06969	0.06969	0.02516	0.04453	Part-Peak Winter kWh	AG4C
Summer	kWh	0.08705	0.08705	0.02516	0.06189	Part-Peak Summer kWh	AG4C
Winter	kWh	0.05928	0.05928	0.02516	0.03412	Off-Peak Winter kWh	AG4C
Summer	kWh	0.06281	0.06281	0.02516	0.03765	Off-Peak Summer kWh	AG4C
Summer	kW	6.45	6.45	0	6.45	Max Peak Demand Summer kW	AG4C
Summer	kW	1.1	1.1	0	1.1	Max Part-Peak Demand Summer kW	AG4C
Summer	kWh	0.13325	0.13325	0.02516	0.10809	Peak Summer kWh	AG4B





Summer	kWh	0.07612	0.07612	0.02516	0.05096	Part-Peak Summer kWh	AG5C
Winter	kWh	0.05217	0.05217	0.02516	0.02701	Off-Peak Winter kWh	AG5C
Summer	kWh	0.05538	0.05538	0.02516	0.03022	Off-Peak Summer kWh	AG5C
Summer	kW	11.31	11.31	0	11.31	Max Peak Demand Summer kW	AG5C
Summer	kW	2.13	2.13	0	2.13	Max Part-Peak Demand Summer kW	AG5C
Summer	kWh	0.15904	0.15904	0.02516	0.13388	Peak Summer kWh	AG5B
Winter	kWh	0.07547	0.07547	0.02516	0.05031	Part-Peak Winter kWh	AG5B
Winter	kWh	0.04437	0.04437	0.02516	0.01921	Off-Peak Winter kWh	AG5B
Summer	kWh	0.05347	0.05347	0.02516	0.02831	Off-Peak Summer kWh	AG5B
Summer	kW	6.1	6.1	0	6.1	Max Peak Demand Summer kW	AG5B
Summer	kW	4.87	4.87	0	4.87	Max Demand Summer kW	AG5B
Summer	kWh	0.16283	0.16283	0.02516	0.13767	Peak Summer kWh	AG5A





Winter	kWh	0.06713	0.06713	0.02516	0.04197	Part-Peak Winter kWh	AGRB
Winter	kWh	0.05717	0.05717	0.02516	0.03201	Off-Peak Winter kWh	AGRB
Summer	kWh	0.07317	0.07317	0.02516	0.04801	Off-Peak Summer kWh	AGRB
Summer	kW	2.39	2.39	0	2.39	Max Peak Demand Summer kW	AGRB
Summer	kW	2.13	2.13	0	2.13	Max Demand Summer kW	AGRB
Summer	kWh	0.29269	0.29269	0.02516	0.26753	Peak Summer kWh	AGRA
Winter	kWh	0.08152	0.08152	0.02516	0.05636	Part-Peak Winter kWh	AGRA
Winter	kWh	0.06939	0.06939	0.02516	0.04423	Off-Peak Winter kWh	AGRA
Summer	kWh	0.07372	0.07372	0.02516	0.04856	Off-Peak Summer kWh	AGRA
Summer	kW	1.44	1.44	0	1.44	Connected Load Summer kW	AGRA
Summer	kWh	0.13183	0.13183	0.02516	0.10667	Peak Summer kWh	AG5C
Winter	kWh	0.06159	0.06159	0.02516	0.03643	Part-Peak Winter kWh	AG5C





Summer	kWh	0.23649	0.23649	0.02516	0.21133	Peak Summer kWh	AGVB
Winter	kWh	0.06738	0.06738	0.02516	0.04222	Part-Peak Winter kWh	AGVB
Winter	kWh	0.05737	0.05737	0.02516	0.03221	Off-Peak Winter kWh	AGVB
Summer	kWh	0.07118	0.07118	0.02516	0.04602	Off-Peak Summer kWh	AGVB
Summer	kW	2.51	2.51	0	2.51	Max Peak Demand Summer kW	AGVB
Summer	kW	1.95	1.95	0	1.95	Max Demand Summer kW	AGVB
Summer	kWh	0.2561	0.2561	0.02516	0.23094	Peak Summer kWh	AGVA
Winter	kWh	0.07985	0.07985	0.02516	0.05469	Part-Peak Winter kWh	AGVA
Winter	kWh	0.06797	0.06797	0.02516	0.04281	Off-Peak Winter kWh	AGVA
Summer	kWh	0.07074	0.07074	0.02516	0.04558	Off-Peak Summer kWh	AGVA
Summer	kW	1.5	1.5	0	1.5	Connected Load Summer kW	AGVA
Summer	kWh	0.26432	0.26432	0.02516	0.23916	Peak Summer kWh	AGRB





Winter	kWh	0.07978	0.07978	0.02165	0.05813	Part-Peak Winter kWh	E19PR
Summer	kWh	0.11993	0.11993	0.02165	0.09828	Part-Peak Summer kWh	E19PR
Winter	kWh	0.06511	0.06511	0.02165	0.04346	Off-Peak Winter kWh	E19PR
Summer	kWh	0.05843	0.05843	0.02165	0.03678	Off-Peak Summer kWh	E19PR
Summer	kWh	0.12751	0.12751	0.02165	0.10586	Peak Summer kWh	E19P
Winter	kWh	0.07978	0.07978	0.02165	0.05813	Part-Peak Winter kWh	E19P
Summer	kWh	0.08546	0.08546	0.02165	0.06381	Part-Peak Summer kWh	E19P
Winter	kWh	0.06511	0.06511	0.02165	0.04346	Off-Peak Winter kWh	E19P
Summer	kWh	0.05843	0.05843	0.02165	0.03678	Off-Peak Summer kWh	E19P
Summer	kW	12.37	12.37	0	12.37	Max Peak Demand Summer kW	E19P
Summer	kW	3.01	3.01	0	3.01	Max Part-Peak Demand Summer kW	E19P
All	kWh	0.1078	0.1078	0.03401	0.07379	Flat kWh	E1





Winter	kWh	0.08715	0.08715	0.02165	0.0655	Part-Peak Winter kWh	E19SR
Summer	kWh	0.12891	0.12891	0.02165	0.10726	Part-Peak Summer kWh	E19SR
Winter	kWh	0.07112	0.07112	0.02165	0.04947	Off-Peak Winter kWh	E19SR
Summer	kWh	0.06382	0.06382	0.02165	0.04217	Off-Peak Summer kWh	E19SR
Summer	kWh	0.13766	0.13766	0.02165	0.11601	Peak Summer kWh	E19S
Winter	kWh	0.08715	0.08715	0.02165	0.0655	Part-Peak Winter kWh	E19S
Summer	kWh	0.09324	0.09324	0.02165	0.07159	Part-Peak Summer kWh	E19S
Winter	kWh	0.07112	0.07112	0.02165	0.04947	Off-Peak Winter kWh	E19S
Summer	kWh	0.06382	0.06382	0.02165	0.04217	Off-Peak Summer kWh	E19S
Summer	kW	13.86	13.86	0	13.86	Max Peak Demand Summer kW	E19S
Summer	kW	3.42	3.42	0	3.42	Max Part-Peak Demand Summer kW	E19S
Summer	kWh	0.27796	0.27796	0.02165	0.25631	Peak Summer kWh	E19PR





Winter	kWh	0.07893	0.07893	0.02165	0.05728	Part-Peak Winter kWh	E19TR
Summer	kWh	0.12054	0.12054	0.02165	0.09889	Part-Peak Summer kWh	E19TR
Winter	kWh	0.06442	0.06442	0.02165	0.04277	Off-Peak Winter kWh	E19TR
Summer	kWh	0.0578	0.0578	0.02165	0.03615	Off-Peak Summer kWh	E19TR
Summer	kWh	0.09096	0.09096	0.02165	0.06931	Peak Summer kWh	E19T
Winter	kWh	0.07893	0.07893	0.02165	0.05728	Part-Peak Winter kWh	E19T
Summer	kWh	0.07669	0.07669	0.02165	0.05504	Part-Peak Summer kWh	E19T
Winter	kWh	0.06442	0.06442	0.02165	0.04277	Off-Peak Winter kWh	E19T
Summer	kWh	0.0578	0.0578	0.02165	0.03615	Off-Peak Summer kWh	E19T
Summer	kW	14.06	14.06	0	14.06	Max Peak Demand Summer kW	E19T
Summer	kW	3.53	3.53	0	3.53	Max Part-Peak Demand Summer kW	E19T
Summer	kWh	0.29098	0.29098	0.02165	0.26933	Peak Summer kWh	E19SR





Winter	kWh	0.08037	0.08037	0.01944	0.06093	Part-Peak Winter kWh	E20PR
Summer	kWh	0.11956	0.11956	0.01944	0.10012	Part-Peak Summer kWh	E20PR
Winter	kWh	0.06558	0.06558	0.01944	0.04614	Off-Peak Winter kWh	E20PR
Summer	kWh	0.05886	0.05886	0.01944	0.03942	Off-Peak Summer kWh	E20PR
Summer	kWh	0.13073	0.13073	0.01944	0.11129	Peak Summer kWh	E20P
Winter	kWh	0.08037	0.08037	0.01944	0.06093	Part-Peak Winter kWh	E20P
Summer	kWh	0.08623	0.08623	0.01944	0.06679	Part-Peak Summer kWh	E20P
Winter	kWh	0.06558	0.06558	0.01944	0.04614	Off-Peak Winter kWh	E20P
Summer	kWh	0.05886	0.05886	0.01944	0.03942	Off-Peak Summer kWh	E20P
Summer	kW	14.72	14.72	0	14.72	Max Peak Demand Summer kW	E20P
Summer	kW	3.48	3.48	0	3.48	Max Part-Peak Demand Summer kW	E20P
Summer	kWh	0.27686	0.27686	0.02165	0.25521	Peak Summer kWh	E19TR



Attachment 5A Exhibit A

Winter	kWh	0.08161	0.08161	0.02083	0.06078	Part-Peak Winter kWh	E20SR
Summer	kWh	0.12067	0.12067	0.02083	0.09984	Part-Peak Summer kWh	E20SR
Winter	kWh	0.06659	0.06659	0.02083	0.04576	Off-Peak Winter kWh	E20SR
Summer	kWh	0.05976	0.05976	0.02083	0.03893	Off-Peak Summer kWh	E20SR
Summer	kWh	0.12784	0.12784	0.02083	0.10701	Peak Summer kWh	E20S
Winter	kWh	0.08161	0.08161	0.02083	0.06078	Part-Peak Winter kWh	E20S
Summer	kWh	0.08747	0.08747	0.02083	0.06664	Part-Peak Summer kWh	E20S
Winter	kWh	0.06659	0.06659	0.02083	0.04576	Off-Peak Winter kWh	E20S
Summer	kWh	0.05976	0.05976	0.02083	0.03893	Off-Peak Summer kWh	E20S
Summer	kW	13.41	13.41	0	13.41	Max Peak Demand Summer kW	E20S
Summer	kW	3.31	3.31	0	3.31	Max Part-Peak Demand Summer kW	E20S
Summer	kWh	0.28229	0.28229	0.01944	0.26285	Peak Summer kWh	E20PR





E20SR Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Summer E20T Max Peak-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Summer E20T Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Summer E20T Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Summer E20T Part-Peak Summer kWh 0.05423 0.01786 0.07209 kWh Summer E20T Part-Peak Summer kWh 0.05634 0.01786 0.07209 kWh Summer E20TR Peak Summer kWh 0.05634 0.01786 0.0855 0.0855 kWh Summer E20TR Off-Peak Summer kWh 0.03648 0.01786 0.0855 0.0855 kWh Summer E20TR Off-Peak Winter kWh 0.0427 0.01786 0.05434 0.05434 kWh Summer E20TR Part-Peak Winter kWh 0.09407 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Part-Peak Summer kWh 0.05427 0.01786 0.06056 0.06056 kWh Peak Summer kWh 0.05634 0.01786 0.07209 0.07209 kWh Off-Peak Summer kWh 0.06764 0.01786 0.0855 0.0855 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Off-Peak Summer kWh 0.0427 0.01786 0.05434 0.05434 kWh Off-Peak Summer kWh 0.0427 0.01786 0.05434 0.05434 kWh Off-Peak Summer kWh 0.0427 0.01786 0.06056 0.06056 kWh	Winter	kWh	0.0742	0.0742	0.01786	0.05634	Part-Peak Winter kWh	E20TR
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kW 17.42 0 17.42 17.42 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Part-Peak Summer kWh 0.05423 0.01786 0.07209 0.07209 kWh Part-Peak Summer kWh 0.05634 0.01786 0.0742 0.0742 kWh Peak Summer kWh 0.06764 0.01786 0.0855 0.0855 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Off-Peak Winter kWh 0.03648 0.01786 0.05434 0.05434 kWh	Summer	kWh	0.11193	0.11193	0.01786	0.09407	Part-Peak Summer kWh	E20TR
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Part-Peak Summer kWh 0.05423 0.01786 0.07209 0.07209 kWh Part-Peak Summer kWh 0.05634 0.01786 0.0742 0.0742 kWh Peak Summer kWh 0.05634 0.01786 0.0855 0.0855 kWh Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh	Winter	kWh	0.06056	0.06056	0.01786	0.0427	Off-Peak Winter kWh	E20TR
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Part-Peak Summer kWh 0.0427 0.01786 0.06056 0.06056 kWh Part-Peak Winter kWh 0.05634 0.01786 0.07209 0.07209 kWh Peak Summer kWh 0.05634 0.01786 0.0855 0.0855 kWh	Summer	kWh	0.05434	0.05434	0.01786	0.03648	Off-Peak Summer kWh	E20TR
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Part-Peak Summer kWh 0.05423 0.01786 0.07209 0.07209 kWh Part-Peak Winter kWh 0.05634 0.01786 0.0742 0.0742 kWh	Summer	kWh	0.0855	0.0855	0.01786	0.06764	Peak Summer kWh	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Off-Peak Winter kWh 0.0427 0.01786 0.06056 0.06056 kWh Part-Peak Summer kWh 0.05423 0.01786 0.07209 0.07209 kWh	Winter	kWh	0.0742	0.0742	0.01786	0.05634	Part-Peak Winter kWh	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kWh 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh Off-Peak Winter kWh 0.0427 0.01786 0.06056 0.06056 kWh	Summer	kWh	0.07209	0.07209	0.01786	0.05423	Part-Peak Summer kWh	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kW 17.42 0 17.42 17.42 kW Off-Peak Summer kWh 0.03648 0.01786 0.05434 0.05434 kWh	Winter	kWh	0.06056	0.06056	0.01786	0.0427	Off-Peak Winter kWh	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW Max Peak Demand Summer kW 17.42 0 17.42 17.42 kW	Summer	kWh	0.05434	0.05434	0.01786	0.03648	Off-Peak Summer kWh	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh Max Part-Peak Demand Summer kW 4.15 0 4.15 4.15 kW	Summer	kW	17.42	17.42	0	17.42	Max Peak Demand Summer kW	E20T
Peak Summer kWh 0.24431 0.02083 0.26514 0.26514 kWh	Summer	kW	4.15	4.15	0	4.15	Max Part-Peak Demand Summer kW	E20T
	Summer	kWh	0.26514	0.26514	0.02083	0.24431	Peak Summer kWh	E20SR



Attachment 5B Exhibit A

Summer	kWh	0.23774	0.23774	0.03401	0.20373	Peak Summer kWh	E6
Winter	kWh	0.1044	0.1044	0.03401	0.07039	Part-Peak Winter kWh	E6
Summer	kWh	0.12489	0.12489	0.03401	0.09088	Part-Peak Summer kWh	E6
Winter	kWh	0.09173	0.09173	0.03401	0.05772	Off-Peak Winter kWh	E6
Summer	kWh	0.07883	0.07883	0.03401	0.04482	Off-Peak Summer kWh	E6
Summer	kWh	0.15904	0.15904	0.02516	0.13388	Peak Summer kWh	E37
Winter	kWh	0.07547	0.07547	0.02516	0.05031	Part-Peak Winter kWh	E37
Winter	kWh	0.04437	0.04437	0.02516	0.01921	Off-Peak Winter kWh	E37
Summer	kWh	0.05347	0.05347	0.02516	0.02831	Off-Peak Summer kWh	E37
Summer	kW	6.1	6.1	0	6.1	Max Peak Demand Summer kW	E37
Summer	kW	4.87	4.87	0	4.87	Max Demand Summer kW	E37
Summer	kWh	0.27362	0.27362	0.01786	0.25576	Peak Summer kWh	E20TR





Winter	kWh	0.10999	0.10999	0.03401	0.07598	Peak Winter kWh	ETOUC3
Summer	kWh	0.16645	0.16645	0.03401	0.13244	Peak Summer kWh	ETOUC3
Winter	kWh	0.09266	0.09266	0.03401	0.05865	Off-Peak Winter kWh	ETOUC3
Summer	kWh	0.10301	0.10301	0.03401	0.069	Off-Peak Summer kWh	ETOUC3
Winter	kWh	0.10554	0.10554	0.03401	0.07153	Peak Winter kWh	ETOUB
Summer	kWh	0.21238	0.21238	0.03401	0.17837	Peak Summer kWh	ETOUB
Winter	kWh	0.08674	0.08674	0.03401	0.05273	Off-Peak Winter kWh	ETOUB
Summer	kWh	0.10932	0.10932	0.03401	0.07531	Off-Peak Summer kWh	ETOUB
Winter	kWh	0.10316	0.10316	0.03401	0.06915	Peak Winter kWh	ETOUA
Summer	kWh	0.1905	0.1905	0.03401	0.15649	Peak Summer kWh	ETOUA
Winter	kWh	0.08887	0.08887	0.03401	0.05486	Off-Peak Winter kWh	ETOUA
Summer	kWh	0.11493	0.11493	0.03401	0.08092	Off-Peak Summer kWh	ETOUA





Winter	kWh	0.07906	0.07906	0.03401	0.04505	Off-Peak Winter kWh	ETOUP3
Summer	kWh	0.09754	0.09754	0.03401	0.06353	Off-Peak Summer kWh	ETOUP3
Spring	kWh	0.0732	0.0732	0.03401	0.03919	Off-Peak Spring kWh	ETOUP3
Winter	kWh	0.09256	0.09256	0.03401	0.05855	Peak Winter kWh	ETOUP2
Summer	kWh	0.21691	0.21691	0.03401	0.1829	Peak Summer kWh	ETOUP2
Summer	kWh	0.15602	0.15602	0.03401	0.12201	Part-Peak Summer kWh	ETOUP2
Winter	kWh	0.07253	0.07253	0.03401	0.03852	Off-Peak Winter kWh	ETOUP2
Summer	kWh	0.08359	0.08359	0.03401	0.04958	Off-Peak Summer kWh	ETOUP2
Winter	kWh	0.09348	0.09348	0.03401	0.05947	Peak Winter kWh	ETOUP1
Summer	kWh	0.20031	0.20031	0.03401	0.1663	Peak Summer kWh	ETOUP1
Winter	kWh	0.07468	0.07468	0.03401	0.04067	Off-Peak Winter kWh	ETOUP1
Summer	kWh	0.09725	0.09725	0.03401	0.06324	Off-Peak Summer kWh	ETOUP1





Summer	kWh	0.06937	0.06937	0.01246	0.05691	Off-Peak Summer kWh	STOUP
All	kWh	0.08753	0.08753	0.0065	0.08103	Flat kWh	SI
Winter	kWh	0.0922	0.0922	0.03401	0.05819	Peak Winter kWh	EV
Summer	kWh	0.24674	0.24674	0.03401	0.21273	Peak Summer kWh	EV
Winter	kWh	0.05761	0.05761	0.03401	0.0236	Part-Peak Winter kWh	EV
Summer	kWh	0.11891	0.11891	0.03401	0.0849	Part-Peak Summer kWh	EV
Winter	kWh	0.06198	0.06198	0.03401	0.02797	Off-Peak Winter kWh	EV
Summer	kWh	0.05976	0.05976	0.03401	0.02575	Off-Peak Summer kWh	EV
Spring	kWh	0.04676	0.04676	0.03401	0.01275	Super-Off-Peak Spring kWh	ETOUP3
Winter	kWh	0.09801	0.09801	0.03401	0.064	Peak Winter kWh	ETOUP3
Summer	kWh	0.2006	0.2006	0.03401	0.16659	Peak Summer kWh	ETOUP3
Spring	kWh	0.08553	0.08553	0.03401	0.05152	Peak Spring kWh	ETOUP3



Attachment 5B Exhibit A

Summer	kWh	0.05841	0.05841	0.01246	0.04595	Off-Peak Summer kWh	STOUT
All	kW	0.42	0.42	0	0.42	Reservation Charge kW	STOUS
Summer	kWh	0.10947	0.10947	0.01246	0.09701	Peak Summer kWh	STOUS
Winter	kWh	0.09487	0.09487	0.01246	0.08241	Part-Peak Winter kWh	STOUS
Summer	kWh	0.0921	0.0921	0.01246	0.07964	Part-Peak Summer kWh	STOUS
Winter	kWh	0.07726	0.07726	0.01246	0.0648	Off-Peak Winter kWh	STOUS
Summer	kWh	0.06937	0.06937	0.01246	0.05691	Off-Peak Summer kWh	STOUS
All	kW	0.42	0.42	0	0.42	Reservation Charge kW	STOUP
Summer	kWh	0.10947	0.10947	0.01246	0.09701	Peak Summer kWh	STOUP
Winter	kWh	0.09487	0.09487	0.01246	0.08241	Part-Peak Winter kWh	STOUP
Summer	kWh	0.0921	0.0921	0.01246	0.07964	Part-Peak Summer kWh	STOUP
Winter	kWh	0.07726	0.07726	0.01246	0.0648	Off-Peak Winter kWh	STOUP



Attachment 5B Exhibit A

All	kWh	0.09504	0.09504	0.0065	0.08854 0.0065	Flat kWh	TC1
All	kW	0.35	0.35	0	0.35	Reservation Charge kW	STOUT
Summer	kWh	0.09192	0.09192	0.07946 0.01246	0.07946	Peak Summer kWh	STOUT
Winter	kWh	0.07976	0.07976	0.01246	0.0673	Part-Peak Winter kWh	STOUT
Summer	kWh	0.07749	0.07749	0.06503 0.01246	0.06503	Part-Peak Summer kWh	STOUT
Winter	kWh	0.06511	0.06511	0.05265 0.01246	0.05265	Off-Peak Winter kWh	STOUT





Rate Schedule Map

Rate Sche dule AG1A AG1B AG4A AG4B AG4C AG4D AG4E AG4F AG5A AG5A AG5C	Rate Family AG1A AG1B AG4A AG4B AG4A AG4B AG4A AG6A AG5A AG5A AG5B	Rate Class Agricultural
AG4E	AG4A AG4B	Agricultural Agricultural
AG4F	AG4C	Agricultural
AG5A AG5B	AG5A AG5B	Agricultural Agricultural
AG5C	AG5C	Agricultural
AG5D	AG5A	Agricultural
AG5E	AG5B	Agricultural
AG5F	AG5C	Agricultural
AGICE	AGICE	Agricultural
AGRA	AGRA	Agricultural
AGRB	AGRB	Agricultural
AGRD	AGRA	Agricultural
AGRE	AGRB	Agricultural
AGVA	AGVA	Agricultural
AGVB	AGVB	Agricultural
AGVD	AGVA	Agricultural
AGVE	AGVB	Agricultural
E20P	E20P	Large Commercial
E20PR	E20PR	Large Commercial

E37	E19TV	E19TR	E19T	E19SV	E19SR	E19S	E19PV	E19PR	E19P	A10TX	A10TL	A10T	A10SX	A10SL	A10S	A10PX	A10PL	A10P	TC1	OL1	LS3	LS2	LS1	E20TR	E20T	E20SR	E20S
E37	E19T	E19TR	E19T	E19S	E19SR	E19S	E19P	E19PR	E19P	A10TX	A10T	A10T	A10SX	A10S	A10S	A10PX	A10P	A10P	TC1	LS	LS	LS	LS	E20TR	E20T	E20SR	E20S
Medium Commercial	Lights	Lights	Lights	Lights	Lights	Large Commercial	Large Commercial	Large Commercial	Large Commercial																		





E1	E1	Residential
E1L	E1	Residential
E1M	El	Residential
E1ML	E1	Residential
E6	E6	Residential
E6L	E6	Residential
ELTOUC3	ETOUC3	Residential
EM	E1	Residential
EML	E1	Residential
EMLTOU	E6	Residential
EMTOU	E6	Residential
ES	E1	Residential
ESL	E1	Residential
ESR	E1	Residential
ESRL	E1	Residential
ET	E1	Residential
ETL	E1	Residential
ETOUA	ETOUA	Residential
ETOUAL	ETOUA	Residential
ETOUB	ETOUB	Residential
ETOUBL	ETOUB	Residential

STOUT	STOUS	STOUP	A6	A1X	A1L	A15	A1	EVB	EVA	ETOUP3L	ETOUP3	ETOUP2L	ETOUP2	ETOUP1L	ETOUP1	ETOUC3
STOUT	STOUS	STOUP	A6	A1X	A1	A15	A1	EV	EV	ETOUP3	ETOUP3	ETOUP2	ETOUP2	ETOUP1	ETOUP1	ETOUC3
Standby	Standby	Standby	Small Commercial	Residential	Residential	Residential										



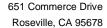
Schedule of Fees and Surcharges

Class	2018 PCIA (\$/kWh)	2018 Franchise (\$/kWh)	Sum (\$/kWh)
All	0.03346	0.00055	0.03401
Residential			
A1	0.02466	0.00062	0.02528
A10	0.02502	0.00066	0.02568
E19	0.02104	0.00061	0.02165
Street	0.00589	0.00061	0.0065
Standby	0.01196	0.0005	0.01246
Agricultural	0.02463	0.00053	0.02516
E20T	0.01735	0.00051	0.01786
E20P	0.01888	0.00056	0.01944
E20S	0.02025	0.00058	0.02083



Adjustments and Discounts

\$ 0.01	Muni/Low Income NEM	NEM Generation - Bonus Credit
\$ 0.01	New NEM	NEM Generation - Bonus Credit
\$ (2.66)	E37	Transmission Voltage Discount - Max Demand Summer
\$ (1.53)	E37	Primary Voltage Discount - Max Demand Summer
\$ (0.57)	AGVB	Primary Voltage Discount - Max Demand Summer
\$ (0.54)	AGRB	Primary Voltage Discount - Max Demand Summer
\$ (4.36)	AG5C	Transmission Voltage Discount - Max Peak Demand Summer
\$ (2.33)	AG5C	Primary Voltage Discount - Max Peak Demand Summer
\$ (2.66)	AG5B	Transmission Voltage Discount - Max Demand Summer
\$ (1.53)	AG5B	Primary Voltage Discount - Max Demand Summer
\$ 0.02	AG4C	Transmission Voltage Discount - Max Part-Peak Demand Summer
\$ (2.06)	AG4C	Transmission Voltage Discount - Max Peak Demand Summer
\$ (1.12)	AG4C	Primary Voltage Discount - Max Peak Demand Summer
\$ (0.65)	AG4B	Primary Voltage Discount - Max Demand Summer
\$ (0.83)	AGIB	Primary Voltage Discount - Max Demand Summer
Amount	Rate	Adjustment



phone (916) 781-4290 fax (916) 783-7693 web www.ncpa.com



Power Supply Procured and Recommended

Date: April 26, 2018

To: Nick Chaset; Executive Director

From: Ken Goeke; Manager, Pooling and Portfolio Administration

Subject: EBCE Power Supply Procured and Recommended

East Bay Community Energy (EBCE) is scheduled to begin supplying reliable and cost effective electric service to its customers in June 2018. Northern California Power Agency (NCPA) has worked with EBCE to implement the power supply procurement and hedging strategy put into place March 16, 2018. The implementation has moved EBCE towards its goals of: (i) providing cost effective electric service to its customer, (ii) optimizing the value of its supply portfolio, and (iii) satisfying various regulatory requirements (including Renewable Portfolio Standards (RPS)). Inherent in these goals is the need to manage risks related to transacting energy, capacity, RPS and carbon free energy related products based on the policies and requirements established by EBCE. Given these considerations, along with others, NCPA provides the following recap of power products to be procured by EBCE.

Note: This memo is a recap of expected transactions and resulting supply portfolio. The estimates provided here are not a comparison of EBCE's portfolio supply to that of the host utility. As such, it is not meant to comply with Section 7.1.3 of ECBE's Joint Powers Agreement. All estimates of forecasted loads by their very nature are subject to error and cannot be guaranteed as final results. All supplies estimates are a function NCPA's knowledge gained from its historical transactions of energy products. The influx of additional Community Choice Aggregators (CCAs) into the market may increase the price and decreased availability of some energy products.

Risk Management Strategies

EBCE is in the process of purchasing 2018 energy supplies which mitigate exposure to market price volatility risk and brings EBCE into compliance with its recommended coverage ratios provided in Table 1 (Time-Price Coverage Matrix).

Table 1: Time-Price Coverage Matrix

				Price I	Matrix Per	centile		
Months to [Delivery	>60%	60%	50%	40%	25%	10%	<10%
			Covere	d Position	as a % of	Forecaste	ed Load	
0+	3	80%	80%	85%	85%	90%	90%	100%
3+	6	70%	70%	75%	80%	80%	90%	100%
6+	9	70%	70%	75%	80%	80%	80%	90%
9+	12	60%	60%	70%	80%	80%	80%	90%
12+		60%	60%	70%	80%	80%	80%	90%

Renewable Portfolio Content and Carbon Free Product Procurement

EBCE has issued a request for proposal from market supplies for RPS products with a due date of May 2, 2018 and has a planned request for proposals for CO2-free products soon thereafter. These planned purchases, along with subsequent procurement through the year, will result in an RPS portfolio of over 38% RPS eligible energy and over 48% non-RPS eligible carbon-free energy, for a total portfolio of over 86% carbon-free energy, which is higher than that required by California's legislation. Table 2 shows an estimate of EBCE's expected RPS and CO-2 free purchases through the course of 2018.

Table 2: Estimated EBCE's RPS and Carbon Free Policy Portfolio 2018

	Total		
	Retail		CO2 Free
Year	MWh	RPS MWh	MWh
2018	2,210,909	845,395	1,073,250
% Retail	86.8%	38.2%	48.5%
MWh			

Subject: EBCE Actual and Expected Purchase Costs

Date: April 23, 2018

The relationship between EBCE's Time-Price Coverage Matrix and its RPS and Carbon-free energy portfolio primarily has to do with the timing of when to make energy purchases. For the purposes of EBCE's energy procurement in 2018, the Matrix suggests that EBCE purchase between 70% and 100% of the RPS and Carbon-free it needs over the coming month and then fill in the remaining quantities over the subsequent months. Between EBCE's planned May procurement of RPS and Carbon-free energy, and transactions for blocks of on and off-peak energy, EBCE has hedged over 92% of its energy needs for June 2018, falling to 76.9% for December.

Table 3: Current Energy Coverage

Year	Month	Coverage Ratio
2018	6	92.8%
2018	7	82.6%
2018	8	81.7%
2018	9	81.3%
2018	10	76.9%
2018	11	76.6%
2018	12	76.9%

Subject: EBCE Actual and Expected Purchase Costs

Date: April 23, 2018