



375 Beale Street
Suite 700
San Francisco, California

Meeting Agenda - Final

ABAG POWER Executive Committee

Chair, Dave Brees, City of Los Altos
Vice Chair, Angela Walton, City of Richmond

Wednesday, December 11, 2019

11:00 AM

Tamalpais CR 7102 - 7th Floor

**ABAG Publicly Owned Energy Resources
Executive Committee
Meeting No. 2019-04**

The ABAG POWER Executive Committee may act on any item on the agenda.

The meeting is scheduled to begin at 11:00 a.m.

Agenda and roster available at <https://abag.ca.gov/our-work/energy-infrastructure/power>.

For information, contact Clerk of the Committee at (415) 820-7956.

Location

Bay Area Metro Center, 375 Beale Street, Tamalpais Conference Room 7102, 7th Floor, San Francisco, California

Teleconference Location

City of Milpitas, City Hall, 455 E. Calaveras Blvd, Finance Conference Room, 3rd Floor, Milpitas, California

Roster

Dave Brees, City of Los Altos
Andre Duurvoort, City of Cupertino
Diana Oyler, County of Contra Costa
Dan Schoenholz, City of Fremont
Chris Schroeder, City of Milpitas
Angela Walton, City of Richmond
Doug Williams, City of Santa Rosa

1. Welcome and Introductions

[19-1393](#)

Call to Order / Roll Call / Confirm Quorum

Presenter:

Dave Brees

2. Public Comment

[19-1394](#)

The Public is encouraged to comment on agenda items at Committee meetings.

Action:

Information

3. Consent Calendar

- 3a. [19-1395](#) Approval of Summary Minutes of ABAG POWER Executive Committee Meeting held on August 21, 2019

Action: Approval

Presenter: Ryan Jacoby

Attachments: [Item 3.a - ABAG POWER EC Summary Minutes of 20190821.pdf](#)

- 3b. [19-1396](#) Authorization to amend a purchase order with TC Energy Gas Transmission Northwest (GTN) in an amount not to exceed \$62,000 through June 30, 2020

Action: Approval

Presenter: Ryan Jacoby

Attachments: [Item 3.b.1 - Summary Sheet - Gas Transmission Northwest.pdf](#)
[Item 3.b.2 - Summary Approval - Gas Transmission Northwest.pdf](#)

4. Energy Program Manager's Report

- [19-1397](#) The Energy Programs Manager will provide a report on items related to the Local Government Services section and the ABAG/MTC energy programs.

Action: Information

Presenter: Jennifer Berg

5. Report on Natural Gas Program

- [19-1399](#) Staff will review recent gas operations, including gas purchases; the program's long-term hedge position; gas imbalances; regulatory updates; and other miscellaneous program items.

Action: Information

Presenter: Ryan Jacoby

Attachments: [Item 5.a - Summary of Natural Gas Program.pdf](#)
[Item 5.b - Historical and Anticipated Gas Purchases by Origin.pdf](#)
[Item 5.c - Market Price Chart.pdf](#)
[Item 5.d - Gas Program True-up and Working Capital Deposits.pdf](#)
[Item 5.e - FY 2019-20 Budget to Actual.pdf](#)

6. Authorization to Enter into Pipeline Use and Transportation Agreements with Transwestern Pipeline Company, LLC

[19-1400](#)

Committee to approve a staff recommendation to enter pipeline use and transportation agreements and accept associated pipeline capacity to enable transport from the Permian natural gas production basin.

Action: Approval

Presenter: Ryan Jacoby

Attachments: [Item 6.a - Summary Sheet - Transwestern Pipeline Company.pdf](#)
[Item 6.b - Summary Approval - Transwestern Pipeline Company.pdf](#)

7. Approval of Calendar Year 2020 Meeting Schedule

[19-1401](#)

Committee to approve the Calendar Year 2020 meeting schedule for the Executive Committee and Board of Directors

Action: Approval

Presenter: Ryan Jacoby

Attachments: [Item 7.a - Calendar Year 2020 Meeting Schedule.pdf](#)

8. Other Business

Committee to provide update on items within various member agencies relevant to ABAG POWER or the ABAG/MTC energy programs.

9. Adjournment / Next Meeting

The next meeting of the ABAG POWER Executive Committee is on February 19, 2020

Public Comment: The public is encouraged to comment on agenda items at Committee meetings by completing a request-to-speak card (available from staff) and passing it to the Committee secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Meeting Conduct: If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the Committee may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

Record of Meeting: Committee meetings are recorded. Copies of recordings are available at a nominal charge, or recordings may be listened to at MTC offices by appointment. Audiocasts are maintained on MTC's Web site (mtc.ca.gov) for public review for at least one year.

Accessibility and Title VI: MTC provides services/accommodations upon request to persons with disabilities and individuals who are limited-English proficient who wish to address Commission matters. For accommodations or translations assistance, please call 415.778.6757 or 415.778.6769 for TDD/TTY. We require three working days' notice to accommodate your request.

可及性和法令第六章: MTC 根據要求向希望來委員會討論有關事宜的殘疾人士及英語有限者提供服務/方便。需要便利設施或翻譯協助者，請致電 415.778.6757 或 415.778.6769 TDD / TTY。我們要求您在三個工作日前告知，以滿足您的要求。

Acceso y el Titulo VI: La MTC puede proveer asistencia/facilitar la comunicación a las personas discapacitadas y los individuos con conocimiento limitado del inglés quienes quieran dirigirse a la Comisión. Para solicitar asistencia, por favor llame al número 415.778.6757 o al 415.778.6769 para TDD/TTY. Requerimos que solicite asistencia con tres días hábiles de anticipación para poderle proveer asistencia.

Attachments are sent to Committee members, key staff and others as appropriate. Copies will be available at the meeting.

All items on the agenda are subject to action and/or change by the Committee. Actions recommended by staff are subject to change by the Committee.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1393 **Version:** 1 **Name:**
Type: Report **Status:** Agenda Ready
File created: 11/21/2019 **In control:** ABAG POWER Executive Committee
On agenda: 12/11/2019 **Final action:**
Title: Call to Order / Roll Call / Confirm Quorum
Sponsors:
Indexes:
Code sections:
Attachments:

Date	Ver.	Action By	Action	Result
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Subject:
Call to Order / Roll Call / Confirm Quorum

Presenter:
Dave Brees

Recommended Action:

Attachments: List any attachments.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1394 **Version:** 1 **Name:**

Type: Report **Status:** Agenda Ready

File created: 11/21/2019 **In control:** ABAG POWER Executive Committee

On agenda: 12/11/2019 **Final action:**

Title: The Public is encouraged to comment on agenda items at Committee meetings.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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Subject:

The Public is encouraged to comment on agenda items at Committee meetings.

Recommended Action:

Information

Attachments: List any attachments.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1395 **Version:** 1 **Name:**
Type: Report **Status:** Consent
File created: 11/21/2019 **In control:** ABAG POWER Executive Committee
On agenda: 12/11/2019 **Final action:**
Title: Approval of Summary Minutes of ABAG POWER Executive Committee Meeting held on August 21, 2019
Sponsors:
Indexes:
Code sections:
Attachments: [Item 3.a - ABAG POWER EC Summary Minutes of 20190821.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Approval of Summary Minutes of ABAG POWER Executive Committee Meeting held on August 21, 2019

Presenter:

Ryan Jacoby

Recommended Action:

Approval

Attachments: List any attachments.



Bay Area Metro Center
375 Beale Street Suite 700
San Francisco, California

Meeting Minutes - Draft

ABAG Publicly Owned Energy Resources
Executive Committee
Meeting No. 2019-03

Chair, Dave Brees, City of Los Altos
Vice Chair, Angela Walton, City of Richmond

Wednesday, August 21, 2019

11:00 AM

Tamalpais CR 7102 - 7th Floor

Committee Representative Roster
Dave Brees, City of Los Altos
Gilee Corral, City of Cupertino
Diana Oyler, County of Contra Costa
Dan Schoenholz, City of Fremont
Chris Schroeder, City of Milpitas
Angela Walton, City of Richmond
Doug Williams, City of Santa Rosa

Staff Roster
Jenny Berg, MTC
Cindy Chen, MTC
Arleicka Conley, MTC
Ryan Jacoby, MTC
Matthew Lavrinets, MTC
Brad Paul, MTC

1. Welcome and Introductions

Dave Brees called the meeting to order at about 11:00 a.m. Quorum was present.

Present: 6 - Brees, Corral, Oyler, Schoenholz, Schroeder, and Williams

Absent: 1 – Walton

Following introductions, Dave Brees appointed Andre Duurvoort, Sustainability Manager with the City of Cupertino, in absentia to the ABAG POWER Executive Committee. Mr. Duurvoort will serve as the primary representative for the City of Cupertino, replacing Gilee Corral. Ms. Corral will serve as the alternate representative.

2. Public Comments

There were no public comments.

3. Approval of Summary Minutes of Executive Committee Meeting on June 19, 2019

[19-0879](#) Approval of Summary Minutes of Executive Committee Meeting on June 19, 2019

Upon motion by Chris Schroeder, seconded by Doug Williams, the Summary Minutes of the Executive Committee meeting on June 19, 2019 were approved.

Aye: 6 - Brees, Corral, Oyler, Schoenholz, Schroeder, and Williams

Absent: 1 - Walton

4. Energy Program Manager's Report

[19-0880](#) Energy Program Manager's Report

Jenny Berg provided various updates and business highlights, including recent California Public Utilities Commission (CPUC) proceedings and rulings, statewide building decarbonization and electrification efforts, and local involvement with cities and counties' building codes. She also provided an update on ABAG POWER's involvement in Pacific Gas and Electric Company's (PG&E) Revenue Requirement for Gas Transmission and Storage.

[Brad Paul, Deputy Executive Director, Local Government Services, arrived following the Energy Program Manager's Report.]

5. Report on Natural Gas Program

[19-0881](#) Report on Natural Gas Program

5a - Monthly Summary of Operations, Fiscal Year (FY) 2018-19

Ryan Jacoby presented the Monthly Summary of Operations for FY 2018-19. Members were updated on the percentage savings comparisons with PG&E, noting that financial statements through June, 2019 indicated a cumulative savings figure of -10.9%.

While reviewing the current gas purchasing strategy, he noted interest in investigating an additional purchase location, with preliminary results to be presented at the December Executive Committee meeting.

5b - Monthly Summary of Operations FY 2019-20

Ryan Jacoby provided members with a Monthly Summary of Operations for FY 2019-20, noting that daily and monthly index prices during July were lower than budgeted.

5c - Gas Hedge Chart

Ryan Jacoby presented the program's current and anticipated gas purchasing strategy and obligations.

5d - Market Price Chart

Ryan Jacoby provided information on current and historical market index prices, highlighting significant price volatility during the recent winter.

5e - Preliminary Income Statement FY 2018-19

Ryan Jacoby presented the Preliminary Income Statement as of June 30, 2019, noting that the year-end balance of approximately \$51,000 will be returned to members through the annual true-up.

6. Report on Web-Based Utility Database Upgrade

[19-0927](#) Report on Web-Based Utility Database Upgrade

Ryan Jacoby summarized the program's existing billing and database capabilities, and reviewed a related proposal received from Utility Management Services.

Upon motion by Chris Schroeder, seconded by Diana Oyler, the Executive Committee voted to authorize the Executive Director of the Metropolitan Transportation Commission, or her designee, to execute purchase orders with Utility Management Services and Dude Solutions, Inc. in amounts of \$13,450 and \$18,900, respectively, to enable a utility database transition to the Energy Manager platform.

Aye: 6 - Brees, Corral, Oyler, Schoenholz, Schroeder, and Williams

Absent: 1 - Walton

7. Report on Renewable Natural Gas and Related Opportunities

[19-0882](#) Report on Renewable Natural Gas and Related Opportunities

Ryan Jacoby reviewed the Committee's June 19, 2019 authorization to form a working group to discuss opportunities related to natural gas emissions reductions.

Jacoby stated that while there was limited interest in joining a working group, several member and non-member agencies expressed interest in ABAG POWER continuing to research and discuss these topics. Jacoby summarized several recent conversations with the cities of Hayward, Salinas, and Walnut Creek, the Department of General Services, and the School Project for Utility Rate Reduction.

8. Agenda for Annual Board of Directors Meeting

[19-0883](#) Agenda for Annual Board of Directors Meeting

Jenny Berg and Ryan Jacoby discussed item timing and potential guest presentations for the annual Board of Directors meeting to be held October 30, 2019.

9. Other Business

There was no other business.

10. Adjournment

Chair Brees adjourned the meeting at about 1:18 p.m.

The next meeting is the ABAG POWER Board of Directors meeting, scheduled to be held on October 30, 2019.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #:	19-1396	Version:	1	Name:	
Type:	Report	Status:		Consent	
File created:	11/21/2019	In control:		ABAG POWER Executive Committee	
On agenda:	12/11/2019	Final action:			
Title:	Authorization to amend a purchase order with TC Energy Gas Transmission Northwest (GTN) in an amount not to exceed \$62,000 through June 30, 2020				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	Item 3.b.1 - Summary Sheet - Gas Transmission Northwest.pdf Item 3.b.2 - Summary Approval - Gas Transmission Northwest.pdf				

Date	Ver.	Action By	Action	Result
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Subject:

Authorization to amend a purchase order with TC Energy Gas Transmission Northwest (GTN) in an amount not to exceed \$62,000 through June 30, 2020

Presenter:

Ryan Jacoby

Recommended Action:

Approval

Attachments: List any attachments.

ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 3.b.1

Natural Gas Aggregation Program

Subject: Authorization to amend a purchase order with TC Energy Gas Transmission Northwest in an amount not to exceed \$62,000 through June 30, 2020

Background: At its June 2018 meeting, the ABAG POWER Executive Committee authorized the Metropolitan Transportation Commission Executive Director to negotiate and enter into necessary agreements for the potential future purchase and transport of natural gas from locations within Canada. Acceptance of capacity along four pipelines is required to transport gas to PG&E's local system.¹ ABAG POWER's current operating budget includes an estimate for the cost of transporting gas along each pipeline.

The current purchase order for Gas Transmission Northwest (GTN) represents a cost estimate (\$43,000) for the first half of Fiscal Year 2019-20. The purchase order must be amended to incorporate anticipated costs for the second half of the year, in which the majority of costs are incurred.

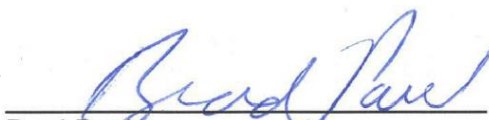
The policies of the Association of the Bay Area Governments (ABAG) provide that contracts exceeding \$50,000 must be approved by the body's respective governing board.

Issues: None.

Recommended Action: The ABAG POWER Executive Committee is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or her designee, on behalf of ABAG POWER, to amend a purchase order with TC Energy Gas Transmission Northwest in an amount not to exceed \$62,000, for gas transportation services through June 30, 2020, for a total contracted amount of \$105,000.

Attachment: None.

Reviewed:


Brad Paul

¹ NOVA Gas Transmission Ltd (Alberta, Canada); Foothills Pipe Lines Ltd (British Columbia, Canada); Gas Transmission Northwest (Idaho, Washington, and Oregon); Redwood (California).



SUMMARY OF EXECUTIVE COMMITTEE APPROVAL

Work Item No.:	1707
Consultant:	-
Work Project Title:	ABAG POWER
Purpose of Project:	Purchase/transport of natural gas
Brief Scope of Work:	Enable price stability and cost savings by conducting pooled purchasing of natural gas on behalf of local governments.
Project Cost Not to Exceed:	Current Contract Amount: \$43,000 Amendment Amount: \$62,000 Contract Total: \$105,000
Funding Source:	Program Participant Fees
Fiscal Impact:	Funds programmed in FY 2019-20 Budget
Motion by Committee:	The ABAG POWER Executive Committee is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or her designee, to amend a purchase order with TC Energy Gas Transmission Northwest in an amount not to exceed \$62,000 for gas transportation services through June 30, 2020, for a total contracted amount of \$105,000.
Executive Committee Approval:	Dave Brees, Executive Committee Chair
Approval Date:	December 11, 2019



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1397 **Version:** 1 **Name:**

Type: Report **Status:** Informational

File created: 11/21/2019 **In control:** ABAG POWER Executive Committee

On agenda: 12/11/2019 **Final action:**

Title: The Energy Programs Manager will provide a report on items related to the Local Government Services section and the ABAG/MTC energy programs.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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Subject:
The Energy Programs Manager will provide a report on items related to the Local Government Services section and the ABAG/MTC energy programs.

Presenter:
Jennifer Berg

Recommended Action:
Information

Attachments: List any attachments.



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1399 **Version:** 1 **Name:**
Type: Report **Status:** Informational
File created: 11/21/2019 **In control:** ABAG POWER Executive Committee
On agenda: 12/11/2019 **Final action:**
Title: Staff will review recent gas operations, including gas purchases; the program's long-term hedge position; gas imbalances; regulatory updates; and other miscellaneous program items.
Sponsors:
Indexes:
Code sections:

Attachments: [Item 5.a - Summary of Natural Gas Program.pdf](#)
[Item 5.b - Historical and Anticipated Gas Purchases by Origin.pdf](#)
[Item 5.c - Market Price Chart.pdf](#)
[Item 5.d - Gas Program True-up and Working Capital Deposits.pdf](#)
[Item 5.e - FY 2019-20 Budget to Actual.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:
Staff will review recent gas operations, including gas purchases; the program's long-term hedge position; gas imbalances; regulatory updates; and other miscellaneous program items.

Presenter:
Ryan Jacoby

Recommended Action:
Information

Attachments: List any attachments.

ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 5.a.

Report on Natural Gas Program

Subject: Monthly Summary of Operations

Background: During the current fiscal year, natural gas prices have seen modest volatility. From July through October, daily prices per dekatherm at PG&E's Citygate have ranged from \$1.95 to \$3.40, averaging \$2.83. PG&E's small commercial (G-NR1) procurement rate, the rate under which most ABAG POWER accounts would be categorized, averaged \$2.67.

The program continues to purchase gas exclusively in daily and monthly markets within California, Oregon, and Alberta, Canada.


Preliminary (unaudited) financial statements through October 2019, indicate a cumulative savings figure of -9.7% when compared to PG&E's G-NR1 rate.

Issues: None.

Recommended Action: None.

Attachment: Monthly Summary of Operations, FY 2019-20

Reviewed:



Brad Paul

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
2				Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Total
4	Gas Purchases ⁽¹⁾															
5		Purchase 1 - Oregon	Qty	19,368	18,684	18,585	19,082									75,719
6			Price	\$2.00	\$2.04	\$1.90	\$2.08									
7																
8		Purchase 2 - California	Qty	2,900	0	8,505	16,800									28,205
9			Price	\$2.58	\$0.00	\$3.05	\$3.19									
10																
11		Purchase 3 - Canada	Qty	26,655	26,314	25,228	25,340									103,537
12			Price	\$0.54	\$0.90	\$0.95	\$1.33									
13																
16		Total Quantity Purchased		48,923	44,998	52,318	61,222	0	0	0	0	0	0	0	0	207,461
17		Total Gas Purchase Cost		\$60,620	\$61,924	\$85,043	\$127,019	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334,606
18		Total Transportation & Storage Cost		\$34,689	\$19,005	\$35,817	\$29,666									
19		Backbone Shrinkage (Dths)		(1,421)	(1,561)	(1,389)	(1,424)									
20		WACOG ⁽²⁾		\$2.01	\$1.86	\$2.37	\$2.62									\$1.61
21																
22	Storage/Inventory															
23		Total Injections/ (Withdrawals)		10,033	11,029	3,101	9,769									33,932
24		Total Inventory Quantity (Dths)		30,029	41,058	44,159	53,928									
25		Total Inventory (\$)		\$49,700	\$73,911	\$81,417	\$106,040									
26		Avg. Inventory Rate (\$/Dth)		\$1.66	\$1.80	\$1.84	\$1.97									
27																
28	Gas Program Monthly Expenses															
29		Cost of Energy Used ⁽³⁾		\$ 95,309	\$ 80,929	\$ 120,860	\$ 156,685									\$ 453,783
30		Staff Cost		\$ 15,416	\$ 16,566	\$ 20,076	\$ 19,198									
31		Professional Fees & Related ⁽⁴⁾		9,722	33,659	2,891	11,674									57,947
32		Subtotal		\$ 120,447	\$ 131,154	\$ 143,828	\$ 187,557	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 582,986
33		Rate (\$/Dth)		\$3.42	\$3.54	\$3.35	\$3.51									\$3.45
34																
35		PG&E Pass-through Costs ⁽⁵⁾		187,976	180,831	231,820	188,757									789,384
36		Total ABAG POWER Cost		\$ 308,423	\$ 311,985	\$ 375,648	\$ 376,314									\$ 1,372,370
37																
38	Actual (metered) Gas Usage															
39		Core ⁽⁶⁾		29,053	26,892	31,432	41,597									128,975
40		Non Core		6,213	10,182	11,503	11,903									39,800
41		Total Program Usage		35,266	37,074	42,935	53,500	0	0	0	0	0	0	0	0	168,775
42																
43	ABAG POWER Total Core Rate			\$ 9.89	\$ 10.26	\$ 10.73	\$ 8.04									
44																
45																
46	PG&E Rate ⁽⁷⁾															
47		Procurement Charge ⁽⁸⁾		2.69	2.85	2.41	2.55	3.13	3.82							
48		Transportation/Other Charge ⁽⁹⁾		6.47	6.72	7.38	4.54									
49		Total PG&E Rate		\$ 9.16	\$ 9.57	\$ 9.78	\$ 7.09	\$ 3.13	\$ 3.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
50																
51	Monthly Index Postings															
52		NGI Bidweek for PG&E Citygate		\$2.74	\$2.78	\$2.73	\$2.07	\$3.18								
53		Gas Daily Avg. for PG&E Citygate		\$2.54	\$2.60	\$3.03	\$3.15									
54		NGI Bidweek for Malin		\$2.00	\$2.04	\$1.89	\$2.06	\$2.35								
55		AB-NIT Month Ahead (7A US)		\$0.53	\$0.90	\$0.94	\$1.33	\$1.87								
56																

Page 3 of 3

¹ All gas quantities in Dth and rates in \$/Dth. (Does not include imbalance purchases traded to storage.)

² Weighted Average Cost of Gas (WACOG) at PG&E Citygate

³ Includes costs to transport gas to PG&E Citygate from alternate delivery points, as well as physical storage costs.

⁴ Includes scheduling fees, billing fees, administrative costs and misc. expenses; less interest income.

⁵ PG&E charges billed to ABAG POWER via EDI process and passed through to customers. These costs do not necessarily tie directly to the actual gas usage shown above due to timing difference in reporting.

⁶ From billing data

⁷ Based on PG&E's G-NR1 rate schedule.

⁸ Includes: Procurement Charge, Capacity Charge, Brokerage Fee, Shrinkage, and Storage.

⁹ PG&E Transportation Charge; Customer Charge, and surcharge for Public Purpose Programs. Does not include Franchise Fees and City Taxes.

ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 5.b.

Report on Natural Gas Program

Subject: Historical and Anticipated Gas Purchases by Origin

Background: In April 2018, the ABAG POWER Executive Committee modified the general gas purchasing strategy to move exclusively into the short-term, index-based market beginning July 1, 2018.

Gas purchases are currently made on monthly and daily indices at three market locations. Fixed-price purchases are made only by exception and with Committee approval.

Issues: None.

Recommended Action: None.

Attachment: Gas Purchase Chart

Reviewed:

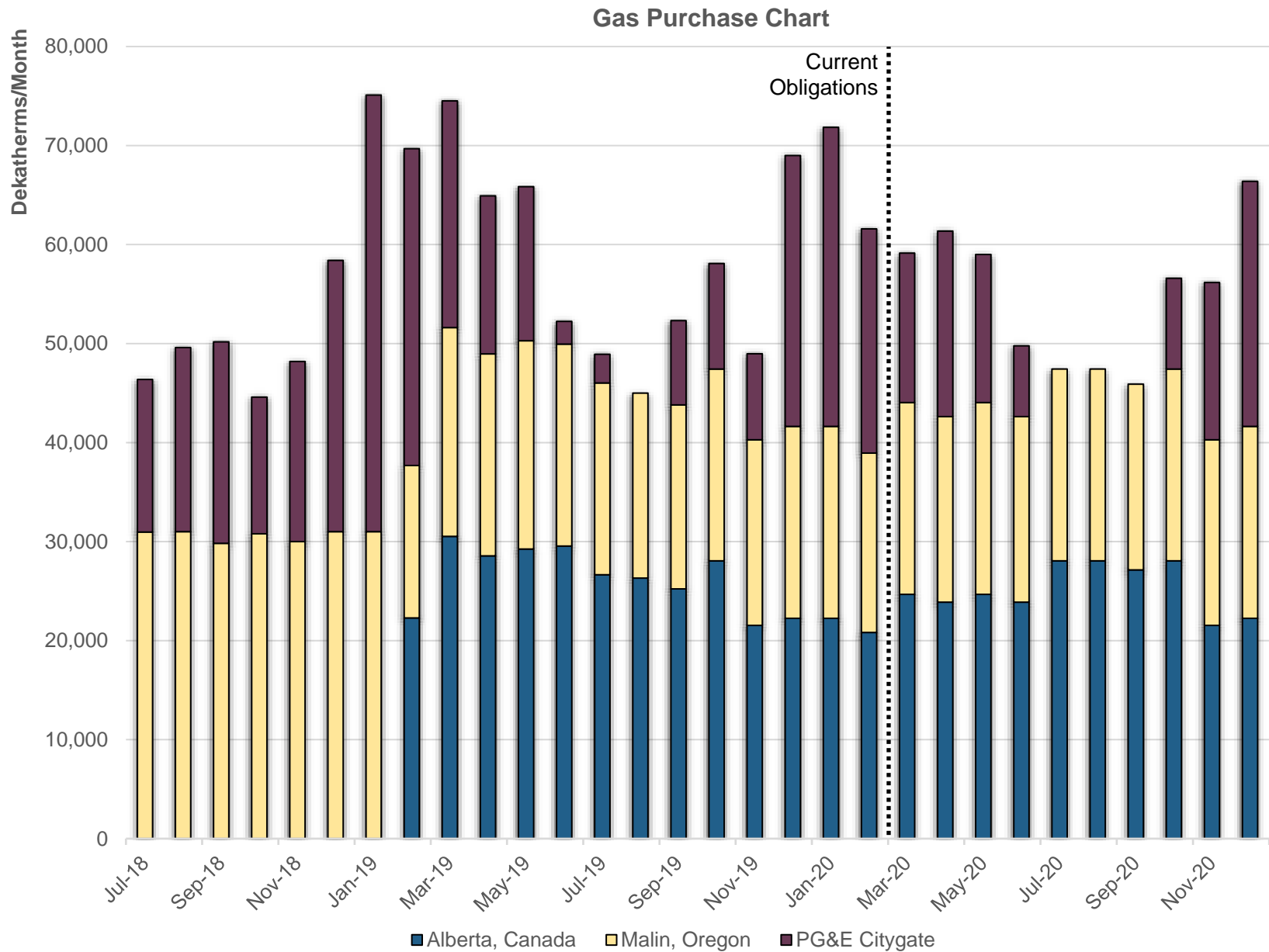


Brad Paul

Agenda Item 5.b. – Historical and Anticipated Gas Purchases by Origin

December 11, 2019

Page 2 of 2



ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 5.c.

Report on Natural Gas Program

Subject: Market Price Chart

Background: Following significant price volatility from the prior fiscal year, western and northwestern regions have returned to the \$2.50-3.00/MMBtu range during the summer months.

In late October and early November, prices began to climb because of colder than average temperatures driving increased heating demand. Prices at national indices rose about 25% during this period, causing a ripple effect for west coast trading hubs.


At 3.7 billion cubic feet, national storage inventories entering the winter season (November to March) are 1.4% above the five-year average. Storage provides an opportunity to hedge against price fluctuations.

Issues: None.

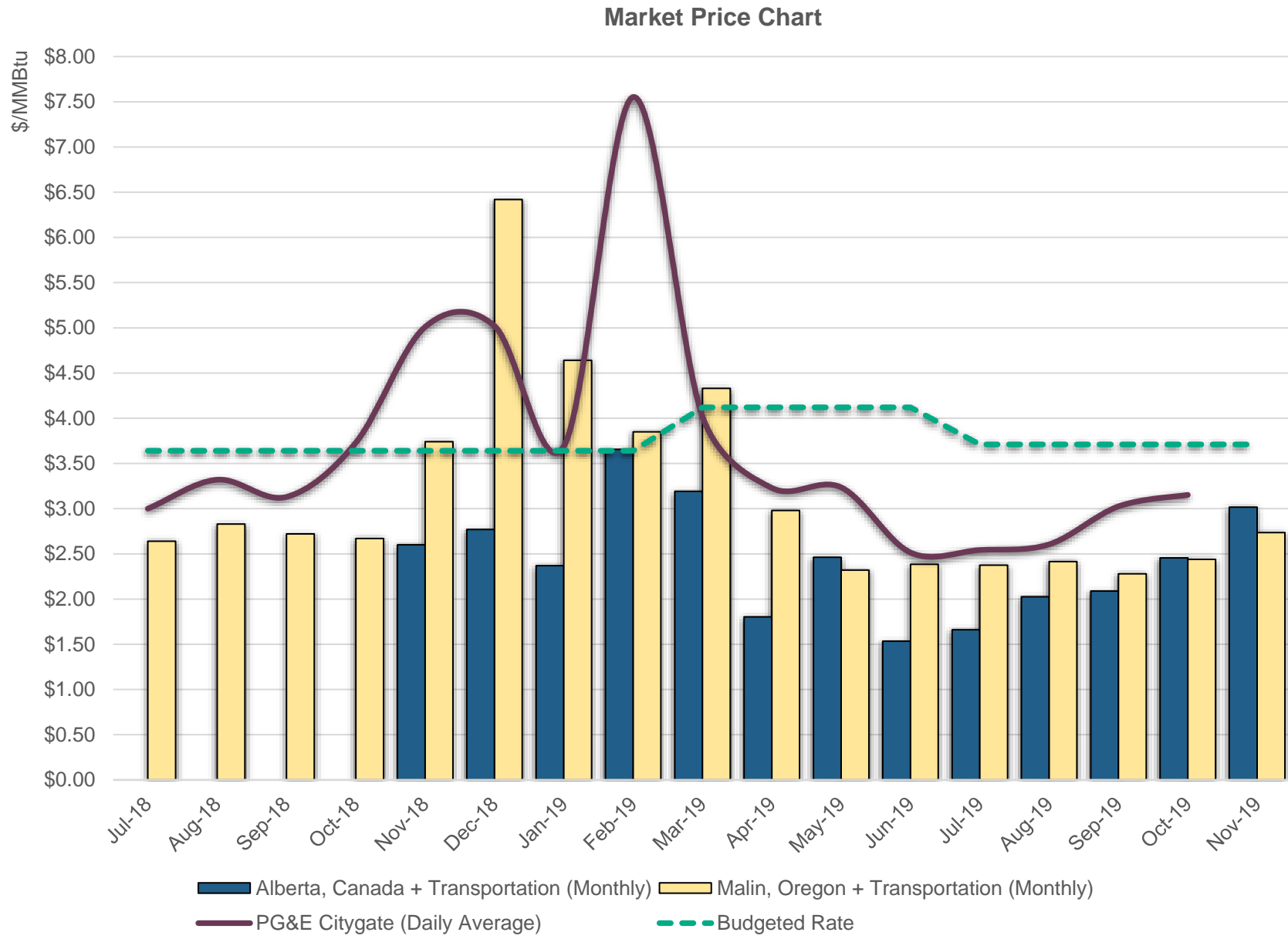
Recommended Action: None.

Attachment: Market Price Chart

Reviewed:



Brad Paul



ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 5.d.

Report on Natural Gas Program

Subject: Gas Program True-up and Working Capital Deposits

Background: In October, ABAG POWER completed the program true-up calculation for the fiscal year ending June 30, 2019, as well as an assessment of the working capital deposits. The true-up allocation for each member will be amortized over the remaining months of the current fiscal year (November 2019 – June 2020) as a credit or charge to each monthly levelized charge.

The results of this analysis show that there was a net over-collection for the year totaling \$83,502 (out of total levelized billings of approximately \$7.6 million). The final true-up rates - excluding PG&E pass-through costs - for the year are:

Core: \$0.4447/therm

Noncore: \$0.4200/therm

The total working capital deposits were unchanged from the prior year, remaining at \$2,000,785. This represents approximately 3.1 months of working capital based on the current budget, exceeding the goal of 2.0 months set by the Executive Committee. Therefore, no additional working capital charges are expected during the 2019-20 fiscal year.

Issues: None.

Recommended Action: None.

Attachment: True-up Summary

Reviewed:



Brad Paul

	Master Acct ID	Estimated FY 2018-19 Usage (therms) ¹	Actual FY 2018-19 Usage	ABAG POWER Costs ²	Gas Storage Costs ³	PG&E Costs ⁴	PG&E Cost True- up to financials ⁵	Total Costs	Total Levelized Charges	Total Adjustment ⁶
Core										
Alameda, City	ALAACPC001	51,571	55,939	\$ 23,495.90	\$ 1,382.30	\$ 50,721.81	\$ 977.23	\$ 76,577.24	\$ 63,628.16	\$ 12,949.08
Alameda Pwr & Telecom	ALAACPC002	749	721	302.88	17.82	791.09	15.24	1,127.03	997.00	\$ 130.03
Alameda City Housing Authority	ALAACPC003	47,319	48,521	20,380.50	1,199.02	35,692.75	687.67	57,959.94	73,378.04	\$ (15,418.10)
Albany, City	ALBACPC001	10,900	14,617	6,139.53	361.20	13,436.74	258.88	20,196.35	13,498.56	\$ 6,697.79
Atherton, Town	ATHACPT001	4,745	5,011	2,104.76	123.83	6,373.66	122.80	8,725.05	5,874.44	\$ 2,850.61
Benicia, City	BENACPC001	60,146	74,937	31,475.81	1,851.77	61,270.28	1,180.46	95,778.32	74,251.84	\$ 21,526.48
Contra Costa County GSD	CONACPN001	1,224,677	1,309,861	550,181.91	32,368.03	838,823.06	16,161.19	1,437,534.19	1,509,991.64	\$ (72,457.45)
Cupertino, City	CUPACPC001	37,742	44,465	18,676.69	1,098.78	38,356.26	738.99	58,870.72	46,624.84	\$ 12,245.88
Fremont, City	FREACPC001	159,992	206,212	86,615.20	5,095.70	171,349.58	3,301.31	266,361.79	197,265.24	\$ 69,096.55
Golden Gate Bridge	GOLACP0001	57,227	60,020	25,210.19	1,483.15	47,734.87	919.68	75,347.89	70,627.60	\$ 4,720.29
Gonzales, City	GONACPC001	12,042	13,696	5,752.77	338.44	11,763.78	226.65	18,081.64	14,875.00	\$ 3,206.64
Half Moon Bay, City	HALACPC001	3,740	1,910	802.21	47.20	1,849.33	35.63	2,734.37	5,824.76	\$ (3,090.39)
Hercules, City	HERACPC001	43,665	4,340	1,822.73	107.23	5,075.92	97.80	7,103.68	53,877.52	\$ (46,773.84)
Los Altos, City	LOSACPC001	23,883	26,033	10,934.57	643.30	23,555.42	453.83	35,587.12	29,500.08	\$ 6,087.04
Mill Valley, City	MILACPC001	66,593	82,310	34,572.85	2,033.97	66,585.25	1,282.87	104,474.94	82,130.40	\$ 22,344.54
Millbrae, City	MILACPC003	25,745	18,655	7,835.86	461.00	16,212.48	312.36	24,821.70	31,752.04	\$ (6,930.34)
Millbrae, City - 400 E. Millbrae Ave.	MILACPC004	0	0	-	-	404.79	7.80	412.59	480.00	\$ (67.41)
Milpitas, City	MILACPC002	147,252	151,365	63,577.77	3,740.38	111,580.93	2,149.77	181,048.85	181,635.76	\$ (586.91)
Monte-Sereno, City	MONACPC001	856	1,083	454.97	26.77	1,186.38	22.86	1,690.97	1,122.32	\$ 568.65
Moraga, Town	MORACPT001	4,736	5,177	2,174.68	127.94	4,703.36	90.62	7,096.60	5,874.00	\$ 1,222.60
Napa County - Airport	NAPACPN001	1,381	1,465	615.48	36.21	1,412.20	27.21	2,091.10	1,748.20	\$ 342.90
Napa County - HHS	NAPACPN002	13,281	19	8.01	0.47	19.50	0.38	28.35	16,376.24	\$ (16,347.89)
Napa County - Library	NAPACPN004	10,570	80	33.56	1.97	493.28	9.50	538.32	13,122.24	\$ (12,583.92)
Napa County - Various	NAPACPN005	80,453	82,610	34,698.86	2,041.39	62,935.04	1,212.54	100,887.83	99,255.20	\$ 1,632.63
Oakland, City	OAKACPC001	673,025	712,476	299,261.72	17,606.02	586,302.75	11,296.01	914,466.49	829,814.36	\$ 84,652.13
Oakland Zoological	OAKACPC002	14,291	14,158	5,946.95	349.87	13,870.46	267.24	20,434.51	17,626.12	\$ 2,808.39
Orinda, City	ORIACPC001	9,908	45,021	18,910.20	1,112.52	37,021.09	713.27	57,757.08	12,249.56	\$ 45,507.52
Pacifica, City	PACACPC001	26,004	26,736	11,230.08	660.68	24,598.44	473.93	36,963.12	32,124.84	\$ 4,838.28
Petaluma, City	PETACPC001	21,436	24,540	10,307.45	606.40	21,583.28	415.83	32,912.96	26,499.16	\$ 6,413.80

Agenda Item 5.d. - True-up Summary

December 11, 2019

Page 3 of 4

	Master Acct ID	Estimated FY 2018-19 Usage (therms) ¹	Actual FY 2018-19 Usage	ABAG POWER Costs ²	Gas Storage Costs ³	PG&E Costs ⁴	PG&E Cost True- up to financials ⁵	Total Costs	Total Levelized Charges	Total Adjustment ⁶
Pleasanton, City	PLEACPC001	170,787	191,469	80,422.84	4,731.40	146,595.40	2,824.38	234,574.01	210,638.64	\$ 23,935.37
Regional Admin. Facility	RAFACPC001	43,654	52,516	22,058.25	1,297.72	42,676.47	822.23	66,854.67	53,876.96	\$ 12,977.71
Richmond, City	RICACPC001	427,781	387,557	162,785.73	9,576.93	307,562.54	5,925.66	485,850.85	527,416.76	\$ (41,565.91)
Salinas, City	SALACPC001	121,250	262,398	110,215.06	6,484.12	177,891.45	3,427.35	298,017.98	149,511.00	\$ 148,506.98
San Carlos, City	SANACPC003	33,997	26,296	11,045.25	649.81	23,672.80	456.09	35,823.95	41,999.80	\$ (6,175.85)
San Mateo County - Public Works	SANACPC006	338,640	346,119	145,380.70	8,552.97	250,755.54	4,831.18	409,520.39	417,532.28	\$ (8,011.89)
San Mateo County - Hospital	SANACPC007	415,633	138,291	58,086.49	3,417.32	85,158.49	1,640.71	148,303.00	322,696.56	\$ (174,393.56)
San Mateo County - Parks & Rec	SANACPC008	6,567	7,299	3,065.86	180.37	7,082.16	136.45	10,464.84	9,204.12	\$ 1,260.72
San Mateo County - Central Library	SANACPC009	4,254	2,206	926.62	54.51	2,186.62	42.13	3,209.88	5,250.20	\$ (2,040.32)
San Mateo County - Hospital	SANACPC011	8,102	9,774	4,105.46	241.53	8,391.41	161.67	12,900.07	10,000.32	\$ 2,899.75
San Mateo County - Cordilleras Mental Health	SANACPC013	54,066	58,107	24,406.79	1,435.89	41,880.32	806.89	68,529.88	66,751.44	\$ 1,778.44
San Mateo County - Public Works	SANACPC015	67,727	61,275	25,737.46	1,514.17	44,191.12	851.41	72,294.16	83,506.40	\$ (11,212.24)
San Mateo County - Airport	SANACPC016	7,182	7,299	3,065.88	180.37	6,044.83	116.46	9,407.54	8,874.88	\$ 532.66
San Rafael, City	SANACPC001	70,575	68,521	28,780.91	1,693.22	57,656.82	1,110.85	89,241.80	87,127.16	\$ 2,114.64
Santa Clara County	SANACPN001	800,563	808,299	339,510.55	19,973.92	595,877.90	11,480.49	966,842.85	987,076.08	\$ (20,233.23)
Santa Rosa, City	SANACPC005	288,646	273,922	115,055.60	6,768.89	201,172.32	3,875.89	326,872.70	355,902.08	\$ (29,029.38)
Saratoga, City	SARACPC001	12,658	12,165	5,109.69	300.61	11,009.43	212.11	16,631.85	15,625.44	\$ 1,006.41
Union City	UNIACPC001	9,066	11,150	4,683.39	275.53	10,206.89	196.65	15,362.47	11,247.96	\$ 4,114.51
Vallejo, City	VALACPC001	136,819	101,813	42,764.57	2,515.90	73,809.33	1,422.05	120,511.85	168,760.28	\$ (48,248.43)
Vallejo Sani.& Flood Control Dist	VALACPD001	88,086	90,710	38,100.87	2,241.53	54,899.46	1,057.72	96,299.58	108,632.32	\$ (12,332.74)
Watsonville, City	WATACPC001	72,137	67,321	28,276.76	1,663.56	57,453.45	1,106.93	88,500.70	89,004.32	\$ (503.62)
Winters, City	WINACPC001	2,649	2,984	1,253.28	73.73	2,947.50	56.79	4,331.30	3,370.92	\$ 960.38
TOTAL - Core			6,019,469	\$ 2,528,362	\$ 148,747	\$ 4,464,826	\$ 86,022	\$ 7,227,957	\$ 7,246,031	\$ (18,074)
Core True-up Rate				\$0.4447				\$1.2008		

Agenda Item 5.d. - True-up Summary

December 11, 2019

Page 4 of 4

Master Acct ID	Estimated FY 2018-19 Usage (therms) ¹	Actual FY 2018-19 Usage	ABAG POWER Costs ²	Gas Storage Costs ³	PG&E Costs ⁴	PG&E Cost True- up to financials ⁵	Total Costs	Total Levelized Charges	Total Adjustment ⁶
Non-Core									
San Mateo County	SANACPC014	418,734	336,119	141,180.31	-	-	141,180.31	188,833.48	\$ (47,653.17)
Santa Rosa, City (Co-gen)	SANACPC012	183,785	263,596	110,718.42	-	-	110,718.42	82,920.56	\$ 27,797.86
Watsonville, City (Co-gen)	WATACPC002	210,337	117,398	49,310.77	-	-	49,310.77	94,883.60	\$ (45,572.83)
TOTAL - Noncore			717,113	\$ 301,210	\$ -	\$ -	\$ 301,210	\$ 366,638	\$ (65,428)
Non-core True-up Rate				\$ 0.4200					
GRAND TOTAL (Core + Noncore)			6,736,582	\$ 2,829,572	\$ 148,747	\$ 4,464,826	\$ 86,022	\$ 7,529,167	\$ 7,612,669
									\$ (83,502)
									Master Accounts w/ Credit Total: \$ (621,229.42)
									Master Accounts w/ Debit Total: \$ 537,727.26

Notes:

¹ Usage based on meter read data from PG&E (as of 09/25/19), prorated to calendar months.

² Annual ABAG POWER program costs, less storage costs, PG&E costs, and interest income; prorated to members based on usage.

³ Storage costs allocated to core accounts, based on usage.

⁴ PG&E pass-through costs (as of 09/25/19), prorated to calendar months.

⁵ Timing differences between when PG&E charges show up on a customer's bill and when the charges are paid by ABAG POWER create a difference between the year-end amounts shown on the financial reports and the total amounts billed. This difference is allocated to members in order to reconcile with the official financial statements.

⁶ Booked on Balance Sheet as "Unearned Energy Revenues."

ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 5.e.

Report on Natural Gas Program

Subject: Fiscal Year (FY) 2019-20 Budget-to-Actual Comparison

Background: ABAG POWER's adopted Operating Budget provides a core natural gas rate of \$3.71/Dekatherm (Dth). During the first quarter of the fiscal year, the program's average rate was \$3.56/Dth.

The program's core usage-to-date is slightly lower than budgeted but is not projected to be significantly lower at year-end.

	Year-To-Date as of 09/30/19	Projected	Adopted
Core Usage	87,341	591,268	608,514
Noncore Usage	27,898	83,109	75,949
Total	115,238	674,378	684,462

The majority of the program's usage and cost occur during the winter (November-March) months due to the seasonal requirements of space and water heating – the primary use of gas within the program.

Issues: None.

Recommended Action: None.

Attachment: FY 2019-20 Budget-to-Actual Comparison

Reviewed:


Brad Paul

Agenda Item 5.e. – FY 2019-20 Budget-to-Actual Comparison

December 11, 2019

Page 2 of 2

	<u>YTD Actual As of 09/30/19</u>	<u>YTD Actual Utilization (%)</u>	<u>Adopted FY 2019-20</u>
Revenue			
Sale of Energy	\$ 1,938,780	25%	\$ 7,754,640
Interest Income - Banks/LAIF	-	0%	35,000
Other Revenue	<u>2,041</u>	<u>23%</u>	<u>9,000</u>
Total Revenues	<u>1,940,821</u>	25%	<u>7,798,640</u>
Expense			
Cost of Energy			
Cost of Energy Used	310,766	12%	2,517,915
PG&E Pass-Through Costs	<u>600,627</u>	<u>13%</u>	<u>4,712,638</u>
Total Cost of Energy	911,393	13%	7,230,552
Staff Cost			
Salary & Benefits	52,058	19%	280,455
Overhead	<u>-</u>	<u>0%</u>	<u>150,212</u>
Total Staff Cost	52,058	12%	430,667
Other Expense			
Billing Costs, external	1,531	15%	10,500
Brokerage and Import Bond fees	1,957	15%	12,700
Scheduling Agent fees	4,950	25%	19,800
Interest Expense/Bank Charges	2,335	25%	9,500
Legal Expenses (outside)	-	0%	10,000
Audit	34,850	51%	69,000
Travel	1,128	113%	1,000
Conferences	-	-	-
Catering	184	9%	2,000
Subscriptions	-	-	-
Miscellaneous	<u>(0)</u>	<u>0%</u>	<u>300</u>
Total Other Expense	46,935	35%	134,800
Total Expense	<u>1,010,386</u>	<u>13%</u>	<u>7,796,019</u>



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1400 **Version:** 1 **Name:**
Type: Report **Status:** Committee Approval
File created: 11/21/2019 **In control:** ABAG POWER Executive Committee
On agenda: 12/11/2019 **Final action:**
Title: Committee to approve a staff recommendation to enter pipeline use and transportation agreements and accept associated pipeline capacity to enable transport from the Permian natural gas production basin.

Sponsors:

Indexes:

Code sections:

Attachments: [Item 6.a - Summary Sheet - Transwestern Pipeline Company.pdf](#)
[Item 6.b - Summary Approval - Transwestern Pipeline Company.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Committee to approve a staff recommendation to enter pipeline use and transportation agreements and accept associated pipeline capacity to enable transport from the Permian natural gas production basin.

Presenter:

Ryan Jacoby

Recommended Action:

Approval

Attachments: List any attachments.

ABAG Publicly Owned Energy Resources (ABAG POWER)

Executive Committee

December 11, 2019

Agenda Item 6.a

Natural Gas Aggregation Program

Subject: Authorization to enter into natural gas transportation agreements with Transwestern Pipeline Company, LLC ("TWP") and accept pipeline capacity along Pacific Gas and Electric Company's ("PG&E") Baja and TWP pipelines beginning in February 2020

Background: In recent months, an excess of gas supply and limited transportation capacity have resulted in low market prices at the Permian production basin in western Texas. Two pipeline segments are required to transport gas from the Permian production basin to the Bay Area:

- TWP, spanning from western Texas to Southern California
- Baja, spanning from the Southern California border to PG&E's 'Citygate' (PG&E CG)

Every four months, PG&E offers POWER a pro-rata share of pipeline capacity along these (and other) pipelines; the amount of capacity offered varies seasonally. If POWER's purchasing strategy was modified to include supply from the Permian production basin, the new purchasing strategy would be:

	Summer	Winter	Annual
Alberta, Canada	50%	35%	40%
Malin, Oregon	35%	30%	32%
Permian, Texas	15%	15%	15%
PG&E CG, California	0%	20%	13%

From April to October 2019, POWER was not offered capacity along TWP because PG&E did not have a negotiated contract with TWP. They did, however, enter into a new contract with a slightly higher reservation rate, effective November 1, 2019.

Staff regularly interact with various pipeline operators to submit daily gas nominations, execute service agreements, amendments, and other contracts, and to manage imbalance inventories.

Agenda Item 6.a. – Transwestern Pipeline Company, LLC

December 11, 2019

Page 2 of 3

POWER has existing agreements with four pipelines operators.¹ To transport gas from the Permian production basin, POWER would need to enter into a similar agreement with TWP².

The necessary agreements to interact with TW's system are:

- TWP's Transactional Electronic Communication Mechanism Agreement
- TWP's Transfer Access Request
- TWP's Credit Application

Issues:

Incorporating an additional purchase package requires identification of marketers willing to supply gas at POWER's desired locations. Existing master purchase and sale agreements enable POWER and its suppliers to conduct business in the Permian production basin, but it is not a given that these parties will be interested in providing bids for the relatively small purchase quantities for which POWER is allocated pipeline capacity.

Additionally, transacting along two additional pipelines further increases administrative burden by increasing the number of monthly invoices and complicates daily and monthly scheduling and management of imbalances.


Recommended Action:

The ABAG POWER Executive Committee is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or her designee, on behalf of ABAG POWER, to negotiate and enter into necessary agreements with Transwestern Pipeline Company, LLC for gas transportation services and accept capacity along the Transwestern and Baja pipelines.

Attachment:

Gas Price Comparison – Permian Production Basin

Reviewed:

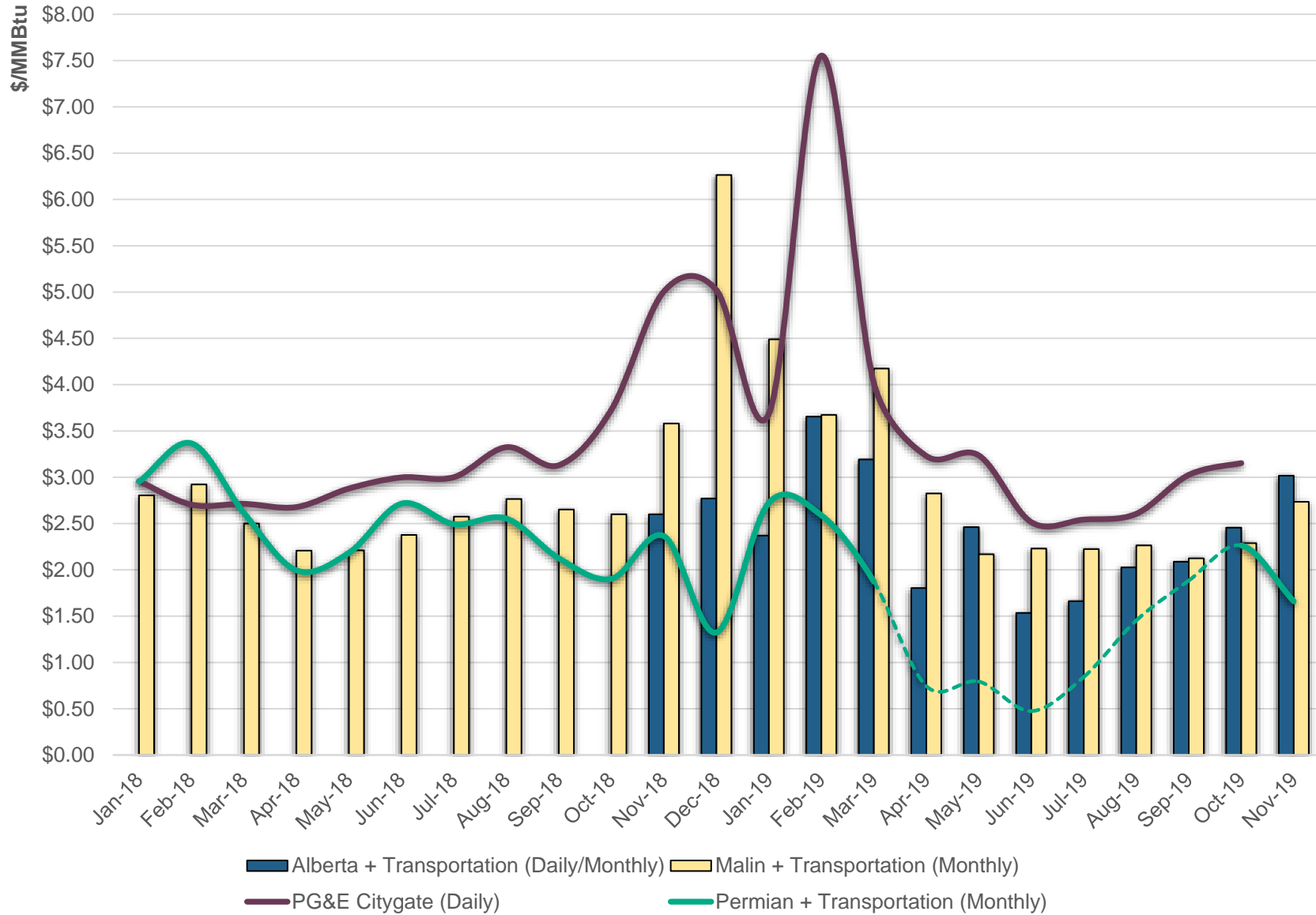


Brad Paul

¹ NOVA Gas Transmission Ltd (Alberta, Canada); Foothills Pipe Lines Ltd (British Columbia, Canada); Gas Transmission Northwest (Idaho, Washington, and Oregon); Pacific Gas and Electric Company (PG&E) Redwood (California).

² Since POWER has an existing agreement, there is no need for additional agreements for transport along Baja.

Gas Price Comparison - Permian Production Basin





S U M M A R Y O F E X E C U T I V E C O M M I T T E E A P P R O V A L

Work Item No.:	1707
Consultant:	-
Work Project Title:	ABAG POWER
Purpose of Project:	Purchase/transport of natural gas
Brief Scope of Work:	Enable price stability and cost savings by conducting pooled purchasing of natural gas on behalf of local governments.
Project Cost Not to Exceed:	N/A
Funding Source:	N/A
Fiscal Impact:	N/A
Motion by Committee:	The ABAG POWER Executive Committee is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or her designee, on behalf of ABAG POWER, to negotiate and enter into necessary agreements with Transwestern Pipeline Company, LLC for gas transportation services, and acceptance of associated pipeline capacity along Pacific Gas and Electric Company's Baja and Transwestern and pipelines beginning in February 2020.
Executive Committee Approval:	Dave Brees, Executive Committee Chair
Approval Date:	December 11, 2019



Metropolitan Transportation Commission

375 Beale Street, Suite 800
San Francisco, CA 94105

Legislation Details (With Text)

File #: 19-1401 **Version:** 1 **Name:**

Type: Report **Status:** Committee Approval

File created: 11/21/2019 **In control:** ABAG POWER Executive Committee

On agenda: 12/11/2019 **Final action:**

Title: Committee to approve the Calendar Year 2020 meeting schedule for the Executive Committee and Board of Directors

Sponsors:

Indexes:

Code sections:

Attachments: [Item 7.a - Calendar Year 2020 Meeting Schedule.pdf](#)

Date	Ver.	Action By	Action	Result
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Subject:

Committee to approve the Calendar Year 2020 meeting schedule for the Executive Committee and Board of Directors.

Presenter:

Ryan Jacoby

Recommended Action:

Approval

Attachments: List any attachments.

ABAG Publicly Owned Energy Resources (ABAG POWER)

Board of Directors

October 30, 2019

Agenda Item 7.a.

Natural Gas Aggregation Program

Subject: Approval of Calendar Year 2020 Meeting Schedule

Background: In December of each year, the ABAG POWER Executive Committee approves the meeting schedule for the following calendar year.

Discussion Items: None.

Issues: None.

Recommended Action: The ABAG POWER Executive Committee is requested to approve the Calendar Year 2020 Meeting Schedule.

Attachment: Calendar Year 2020 Meeting Schedule

Reviewed:



Brad Paul

Agenda Item 7.a. – Calendar Year 2020 Meeting Schedule

December 11, 2019

Page 2 of 2



ABAG POWER

Calendar Year 2020 Meeting Schedule

Proposed: December 11, 2019

Agenda available at: <https://abag.ca.gov/meetings>

Roster available at <https://abag.ca.gov/our-work/energy-infrastructure/power>

For information, contact Clerk of the Board at (415) 820-7956.

Executive Committee

Meets second or third Wednesday bi-monthly on even-numbered months, or as needed.

Dates: Wednesday, February 19
 Wednesday, April 15
 Wednesday, June 17
 Wednesday, August 19
 Wednesday, December 9

Time: 11:00 a.m. to 1:00 p.m.

Location: Bay Area Metro Center
 375 Beale Street, Tamalpais Conference Room
 San Francisco, CA 94105

Board of Directors

Meets on the fourth Thursday annually in October, or as needed.

Date: Thursday, October 29

Time: 11:00 a.m. to 1:00 p.m.

Location: Bay Area Metro Center
 375 Beale Street, Yerba Buena Conference Room
 San Francisco, CA 94105