



**ELECTRONICALLY FILED WITH RCA**

March 27, 2020

Regulatory Commission of Alaska  
701 W. 8<sup>th</sup> Avenue, Suite 300  
Anchorage, Alaska 99501

**Subject: *Tariff Advice No. 485-8; Chugach Electric Association, Inc. Fuel and Purchase Power Rate Adjustments Effective Second Quarter, 2020***

Commissioners:

The tariff filing described below is transmitted to you for filing in compliance with the Alaska Public Utilities Regulatory Act and Sections 3 AAC 48.200 - 3 AAC 48.420 of the Alaska Administrative Code. The purpose of this filing is to adjust Chugach Electric Association, Inc.'s (Chugach) fuel and purchased power cost adjustment factors and non-firm power rates for qualified cogeneration and small power production facilities for rates effective April 1, 2020.

<u>TARIFF SHEET NUMBER</u>		<u>CANCELS SHEET NUMBER</u>		<u>SCHEDULE OR</u>
<u>ORIGINAL</u>	<u>REVISED</u>	<u>ORIGINAL</u>	<u>REVISED</u>	<u>RULE NUMBER</u>
94	158 <sup>th</sup> Revision	94	157 <sup>th</sup> Revision	Fuel & Purchased
94.04	38 <sup>th</sup> Revision	94.04	37 <sup>th</sup> Revision	Power Adjustment
94.05	50 <sup>th</sup> Revision	94.05	49 <sup>th</sup> Revision	Factors at G&T,
94.1	96 <sup>th</sup> Revision	94.1	95 <sup>th</sup> Revision	Retail Primary,
94.1.1	35 <sup>th</sup> Revision	94.1.1	34 <sup>th</sup> Revision	and Retail Secondary
95	156 <sup>th</sup> Revision	95	155 <sup>th</sup> Revision	Actual Fuel &
95.04	36 <sup>th</sup> Revision	95.04	35 <sup>th</sup> Revision	Purchased Power
95.05	47 <sup>th</sup> Revision	95.05	46 <sup>th</sup> Revision	Cost Schedules
95.5	94 <sup>th</sup> Revision	95.5	93 <sup>rd</sup> Revision	Purchase & Sales Q.F.
97	140 <sup>th</sup> Revision	97	139 <sup>th</sup> Revision	Fuel &
97.1.4	3 <sup>rd</sup> Revision	97.1.4	2 <sup>nd</sup> Revision	Purchased Power
97.5.2	3 <sup>rd</sup> Revision	97.5.2	2 <sup>nd</sup> Revision	Adjustment
97.6.1	3 <sup>rd</sup> Revision	97.6.1	2 <sup>nd</sup> Revision	Factors History

This filing is not for a new service, will not result in the termination of an existing service, conflict with any other schedule or rate contained in Chugach's operating tariff, or in any other way adversely impact customers or the public. Approximately 68,800 Chugach retail members (81,800 retail metered locations) and wholesale customer Seward Electric System (Seward) are impacted by this filing.

**Summary of Results**

With the implementation of these rates, the total monthly bill for a Chugach residential customer using 600 kWh of electricity will decrease approximately 0.2 percent, or from \$130.31 to \$130.05. The second quarter 2020 retail fuel and purchased power rates are summarized in Table 1 below.

<b>Table 1: Second Quarter 2020 Chugach Retail Fuel and Purchased Power Rate Adjustment Factors</b>					
<b>Retail Service</b>	<b>No. of Meters</b>	<b>Fuel Rate</b>	<b>Purchased Power Rate</b>	<b>FIW Adj. Factor</b>	<b>Total</b>
Primary Service	20	\$0.03899	\$0.02739	\$0.00181	\$0.06819
Secondary Service	81,780	\$0.03928	\$0.02760	\$0.00182	\$0.06870

Chugach’s rate for non-firm purchases from qualified facilities that have a nameplate capacity of 200 kW or less is \$0.05433 per kWh at transmission voltage, \$0.05550 per kWh at distribution primary voltage, and \$0.05591 per kWh at distribution secondary voltage. Fuel and purchased power rates are not calculated for Seward because Seward is billed monthly based on actual costs.

This filing reflects actual fuel and purchased power costs in fourth quarter 2019 and projected costs through second quarter 2020. Overall, the fuel and purchased power rate for retail primary service is decreasing from \$0.06862 to \$0.06819 per kWh and secondary service is decreasing from \$0.06913 to \$0.06870 per kWh. The primary factor driving the decreases is the re-energization of the transmission line between the Soldotna Substation and the Quartz Creek Substation on December 19, 2019. This allowed power deliveries to resume from the Bradley Lake Hydroelectric Project into the Chugach system. The benefit of Bradley Lake power was partially offset by an under-recovery in the fuel and purchased power balancing account. On a system basis, Chugach’s average cost of generation and purchased power was \$72.26 per MWh in fourth quarter, 2019. First and second quarter 2020 per MWh costs are projected to be \$63.50 and \$58.28, respectively. Second quarter 2020 fuel and purchased power revenues are expected to total \$17.3 million, and Chugach’s projected revenue for calendar-year 2020 is \$224 million.<sup>1</sup>

Table 2 below summarizes Chugach’s purchase price (firm requirements) of natural gas for first and second quarter 2020 from Hilcorp Alaska, LLC and from Chugach’s ownership interest in the Beluga River Unit (BRU).

<b>Table 2: Summary of Chugach Natural Gas Supply Prices</b>			
<b>Gas Supplier</b>	<b>Contract</b>	<b>Q1 2019</b>	<b>Q2 2020</b>
Hilcorp Alaska, LLC (1/1/2015 – 3/31/2028)	Firm	\$7.50	\$7.49
Chugach Electric Association, Inc. – BRU	Owned	\$3.05	\$3.05

<sup>1</sup> Chugach’s calendar year 2020 revenues are estimated to be \$224 million based on projected electric sales to Chugach’s retail and wholesale members. This estimate does not include projected incremental revenues if the acquisition of ML&P is approved.

**Payments to Homer Electric Association, Inc.**

For ratemaking purposes, Chugach proposed to amortize the recovery of \$562,545 paid to Homer Electric Association, Inc. (HEA) for amounts that had accumulated since 2014, over a 12-month period. In Order No. U-19-085(8)/U-19-091(7) issued on February 5, 2020, the Regulatory Commission of Alaska (Commission) required Chugach to include the remaining balance of the payments made to HEA in second quarter 2020 fuel and purchased power rates. Of the \$562,545 total, \$140,636 was included for recovery in first quarter 2020 rates and the remaining balance of \$421,909 is included for recovery in second quarter 2020 rates.

**Furie Bankruptcy Update**

In Order No. U-19-085(8)/U-19-091(7) issued on February 5, 2020, the Commission required Chugach to provide information on future recoveries and its accounting treatment of these recoveries from the Furie Operating Alaska, LLC (Furie) bankruptcy proceedings. Chugach does not expect to receive any further payments for gas exchange service from Furie. If Chugach does recover money from the bankruptcy proceeding, the proposed accounting treatment would be to record the amount received as a debit to the receivable account (14300245002101) and a credit to offset Cook Inlet Storage Alaska, LLC expense (54720245007410).

Chugach has a long-term firm and interruptible gas contract with Furie, with firm volumes expected to commence April 2023. As of the date of this filing, Furie has not requested authorization from the bankruptcy court to cancel this gas contract. Chugach will continue to monitor the bankruptcy and will provide further updates as information becomes available.

**Natural Gas Storage**

Table 3 summarizes Chugach’s gas storage activity, excluding gas exchanges, on a volumetric (Mcf) basis for the 12-months ending December 31, 2019.

<b>Month</b>	<b>Purchased</b>	<b>Fuel Gas</b>	<b>Net Injections</b>	<b>Withdrawals</b>	<b>Balance</b>
Jan-19	21,312	234	21,078	150,830	1,425,755
Feb-19	16,784	185	16,599	119,156	1,323,198
Mar-19	19,252	212	19,040	77,946	1,264,292
Apr-19	46,440	511	53,763	37,840	1,280,215
May-19	58,498	644	57,854	8,065	1,330,005
Jun-19	48,239	531	47,708	70,096	1,307,617
Jul-19	35,370	531	34,839	140,078	1,202,378
Aug-19	38,002	570	45,615	97,563	1,150,430
Sep-19	103,572	1,554	102,019	43,242	1,209,207
Oct-19	254,245	3,814	250,431	24,419	1,435,219
Nov-19	206,267	3,094	223,173	39,827	1,618,565
Dec-19	91,265	1,369	141,239	168,376	1,591,428

Table 4 summarizes the value of the gas in storage, excluding gas exchanges. As of December 31, 2019, gas in storage totaled 1,591,428 Mcf at a value of \$12,250,350 for an average weighted price of \$7.70 per Mcf.

<b>Table 4: Total Value of Gas in Storage (Dollars)</b>				
<b>Month</b>	<b>Injections</b>	<b>Withdrawals</b>	<b>Cumulative Balance</b>	<b>Average Weighted Price</b>
Jan-19	\$164,838	\$1,158,892	\$10,957,583	\$7.69
Feb-19	\$129,816	\$915,768	\$10,171,630	\$7.69
Mar-19	\$148,879	\$599,183	\$9,721,326	\$7.69
Apr-19	\$364,352	\$290,957	\$9,794,721	\$7.65
May-19	\$460,531	\$71,860	\$10,188,233	\$7.66
Jun-19	\$378,551	\$563,669	\$10,003,190	\$7.65
Jul-19	\$275,714	\$1,116,426	\$9,226,140	\$7.67
Aug-19	\$296,113	\$753,918	\$8,778,602	\$7.63
Sep-19	\$772,336	\$331,625	\$9,222,183	\$7.63
Oct-19	\$1,966,517	\$201,276	\$10,986,358	\$7.65
Nov-19	\$1,778,056	\$304,869	\$12,456,387	\$7.70
Dec-19	\$1,121,554	\$1,327,110	\$12,250,350	\$7.70

**Fire Island Wind – MWh Purchases and Renewable Energy Certificate Sales**

Chugach purchased a total of 17,583 MWh from the Fire Island Wind project during third quarter 2019, of which 103.7 MWh were curtailed during times when resources to offset unexpected wind production were unavailable. Table 5 summarizes monthly wind purchases, curtailments and capacity factors for the 12-month period ending December 2019.

<b>Table 5: Summary of Fire Island Wind Generation</b>				
<b>Month</b>	<b>Capacity Factor</b>	<b>MWh Delivered (Real Energy)</b>	<b>MWh Curtailed (Deemed Energy)</b>	<b>Total MWh (Real and Deemed)</b>
Jan-19	42%	5,452.42	44.54	5,496.96
Feb-19	21%	2,542.38	29.98	2,572.36
Mar-19	36%	4,667.31	71.96	4,739.27
Apr-19	29%	3,676.81	197.80	3,874.62
May-19	39%	5,132.87	312.07	5,444.94
Jun-19	12%	1,458.66	120.13	1,578.78
Jul-19	10%	1,321.72	170.65	1,492.37
Aug-19	9%	1,203.23	730.39	1,933.62
Sep-19	20%	2,533.17	589.25	3,122.42
Oct-19	39%	5,145.32	51.53	5,196.85
Nov-19	49%	6,211.32	46.12	6,257.44
Dec-19	47%	6,122.69	6.05	6,128.74
<b>Total</b>	<b>29.4%</b>	<b>45,467.88</b>	<b>2,370.46</b>	<b>47,838.34</b>

Since inception, the capacity factor of the Fire Island Wind project has averaged about 32.3 percent and Chugach has curtailed approximately 7.6 percent of the project energy. The capacity factor is calculated by dividing total MWh Delivered by the maximum possible MWh the project could produce if operating at its full capacity of 17.6 MW.

### **Supporting Exhibits and Attachments**

The following exhibits and attachments support the development of the fuel, purchased power and avoided cost rates contained in this filing:

***Exhibit 1:*** Presents projected energy sales for the upcoming quarter and projected generation and purchase power requirements to meet the sales forecast. These projections are based on recent cost and line loss experience.

***Exhibit 2:*** Presents energy sales by class and the average retail line loss factor for the past four quarters.

***Exhibit 3:*** Presents the MWh generation of each of Chugach's generation units and energy purchases for the past four quarters. Station service has been deducted to arrive at net generation and purchases.

***Exhibit 4:*** Presents the quantities of gas used at each of Chugach's generation plants (except Cooper Lake and Eklutna Hydro) for the past four quarters.

***Exhibit 5:*** Summarizes the past quarter's economy energy sales and wheeling transactions.

***Exhibit 6:*** Summarizes the past quarter's monthly fuel and purchased power cost transactions.

***Exhibit 7:*** Summarizes actual and projected balancing accounts on a customer class basis.

***Exhibits 8 through 10:*** Support the monthly balances referenced in Exhibit 7.

***Exhibit 11:*** Summarizes the monthly fuel in storage account balance with the calculation of weighted average unit cost and includes a summary of gas storage transactions for Firm Storage Service, Interruptible Storage Service and gas exchanges.

***Attachment A:*** Contains supporting invoices for economy energy sales, wheeling transactions and exchange transactions for the past quarter.

***Attachments B through D:*** Contain supporting invoices for each month of the quarter for fuel, gas transportation and purchased power costs.

***Attachment E:*** Contains the detailed calculations of the avoided costs on an hourly basis and summarizes the difference between the average quarterly rates charged to customers under Tariff Sheet No. 97 against the calculated hourly avoided costs. In this filing, the calculated hourly rates were formulated using meter data from the prior quarter. Any variance will be captured in the next quarterly filing.



## **Tariff Sheet Changes**

The following tariff sheets reflect the proposed rate changes contained in this filing.

***Tariff Sheet Nos. 94, 94.04, and 94.05:*** These tariff sheets present itemized fuel and purchased power costs and projected MWh sales to arrive at the cost per kWh sold at the generation and transmission level.

***Tariff Sheet Nos. 94.1 and 94.1.1:*** These tariff sheets establish the Chugach retail fuel and purchased power recovery rates by adjusting the retail G&T rate (calculated on Sheet Nos. 94 and 94.05) to reflect recovery levels from primary and secondary voltage deliveries at the distribution level.

***Tariff Sheet Nos. 95, 95.04, and 95.05:*** These tariff sheets summarize actual fuel and purchased power costs for the quarter on a customer class basis.

***Tariff Sheet No. 95.5:*** This tariff sheet summarizes both actual recorded and projected costs on a total and unit cost basis.

***Tariff Sheet No. 97:*** This tariff sheet reflects updated non-firm power rates for cogenerators and small power producers. The fuel and purchased power expense on line 1 is the sum of total fuel and purchased power expense, less economy fuel costs, as reflected on Sheet Nos. 94 and 94.05.

***Tariff Sheet No. 97.1.4:*** This tariff sheet is a continuation of Sheet Nos. 97.1, 97.1.1, 97.1.2, and 97.1.3. These sheets provide a history of the Chugach Fuel and Purchased Power Cost Adjustment Factor from July 1, 1987 (inception date of the current tariff) through the rates currently proposed. A new line has been added to include the rates for fuel, purchased power, and the Fire Island Wind renewable energy factor, for Retail customers, effective April 1, 2020.


***Tariff Sheet No. 97.5.2:*** This tariff sheet is a continuation of Sheet No. 97.5 and Tariff Sheet No. 97.5.1. Tariff Sheet No. 97.5 was divided onto Sheet Nos. 97.5 and 97.6 in the fourth quarter 2011 Fuel and Purchased Power Cost Adjustment filing, to separate service at primary and secondary voltage levels. This sheet provides a history of Chugach's retail fuel and purchased power cost rates for delivery at primary voltage levels. A new line has been added to include the rates for fuel, purchased power, and the Fire Island Wind renewable energy factor, for Primary service customers, effective April 1, 2020.

***Tariff Sheet No. 97.6.1:*** This tariff sheet is a continuation of Sheet Nos. 97.5 and 97.6. This sheet provides a history of Chugach's retail fuel and purchased power cost rates for delivery at secondary voltage levels. A new line has been added to include the rates for fuel, purchased power, and the Fire Island Wind renewable energy factor, for Secondary service customers, effective April 1, 2020.

Please contact Jean Kornmuller in Chugach's Regulatory Affairs and Pricing Department at 907-762-4184 or [jean\\_kornmuller@chugachelectric.com](mailto:jean_kornmuller@chugachelectric.com), if additional information is needed.

Sincerely,

CHUGACH ELECTRIC ASSOCIATION, INC.



Arthur W. Miller  
Executive Vice President, Regulatory and External Affairs  
P.O. Box 196300  
Anchorage, Alaska 99519-6300  
Telephone: 907-762-4758  
Facsimile: 907-762-4191  
arthur\_miller@chugachelectric.com

Attachments

cc: John Foutz, City of Seward (electronically)

Canceling

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER ADJUSTMENT FACTORS AT G&T**

e.1. Fuel Adjustment Factor: Predicted costs for the quarter beginning April 1, 2020

Description	Total	Retail	Seward
<b>Fuel Expense</b>			
Beluga-BRU (Chugach)	\$20,020	\$18,930	\$1,090
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$441,311	\$417,289	\$24,021
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$0	\$0	\$0
IGT - BRU (Chugach)	\$0	\$0	\$0
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$0	\$0	\$0
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$0	\$0	\$0
SPP - BRU (Chugach)	\$417,213	\$394,503	\$22,710
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$9,690,098	\$9,162,646	\$527,452
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$0	\$0	\$0
Emergency Generator Fuel	\$0	\$0	\$0
CINGSA - FSS Capacity and Withdrawal Fees	\$821,720	\$776,992	\$44,728
CINGSA - ISS Capacity and Withdrawal Fees	\$0	\$0	\$0
CINGSA - Gas Withdrawn	\$427,941	\$404,647	\$23,294
Gas Transportation and Compression	\$1,100,947	\$1,041,020	\$59,927
<b>Total Fuel and Transportation Expense</b>	<b>\$12,919,249</b>	<b>\$12,216,028</b>	<b>\$703,221</b>
<b>Less Credits</b>			
Economy Fuel / Transportation Costs	\$0	\$0	\$0
Economy Margins	\$0	\$0	\$0
Gas Exchange Contributions (Tesoro and Furie)	(\$104,100)	(\$98,434)	(\$5,666)
Wheeling Revenue	(\$622,536)	(\$588,650)	(\$33,886)
<b>Subtotal</b>	<b>(\$726,636)</b>	<b>(\$687,084)</b>	<b>(\$39,552)</b>
Net Fuel Expense	\$12,192,613	\$11,528,944	\$663,669
Generation & Purchases (MWh)	270,253.0	256,106.0	14,147.0
Cost per MWh at Generation	\$45.12	\$45.02	\$46.91
Projected Balances as of July 1, 2020	(\$2,009,242)	(\$2,009,242)	\$0
Fuel Expense to be Recovered at G&T	\$10,183,371	\$9,519,703	\$663,669
Predicted Sales at G&T (MWh)	263,206.9	249,428.8	13,778.2
<b>Fuel Adjustment Factor per kWh at G&amp;T</b>	<b>\$0.03869</b>	<b>\$0.03817</b>	<b>----* R, R</b>

\* Not calculated. Seward is billed for actual fuel and purchased power costs on a monthly basis.

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer



RCA NO.: 8 38<sup>th</sup> Revision Sheet No. 94.04

Canceling

37<sup>th</sup> Revision Sheet No. 94.04

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER ADJUSTMENT FACTORS AT G&T (CONTINUED)**

e.2. Purchased Power Adjustment Factor: Predicted costs for the quarter beginning April 1, 2020

Description	Total	Retail	Seward
Purchased Power Expense			
Bradley Lake Purchases	\$1,718,427	\$1,624,890	\$93,537
Base FIW Renewable Resource Cost	\$1,004,047	\$1,004,047	\$0
Other Purchases	\$853,869	\$807,391	\$46,478
Subtotal	\$3,576,343	\$3,436,327	\$140,015
Less Purchased Power Credits			
Renewable Energy Certificates	\$0	\$0	\$0
Wheeling Revenue	(\$172,332)	(\$162,952)	(\$9,380)
Subtotal	(\$172,332)	(\$162,952)	(\$9,380)
Net Purchased Power Expense	\$3,404,010	\$3,273,376	\$130,635
Generation & Purchases (MWh)	270,253	256,106	14,147
Cost per MWh at Generation	\$12.60	\$12.78	\$9.23
Projected Balances as of July 1, 2020	\$3,416,429	\$3,416,429	\$0
Purchased Power Expense to be Recovered	\$6,820,440	\$6,689,805	\$130,635
Predicted Sales at G&T (MWh)	263,206.9	249,428.8	13,778.2
Purchased Power Adjustment Factor per kWh at G&T	\$0.02591	\$0.02682	----* I, I

\* Not calculated. Seward is billed for actual fuel and purchased power costs on a monthly basis.

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.

P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 50<sup>th</sup> Revision Sheet No. 94.05

Canceling

49<sup>th</sup> Revision Sheet No. 94.05

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER ADJUSTMENT FACTORS AT G&T (CONTINUED)**

e.3. Incremental Fire Island Wind Adjustment Factor: Predicted costs for the quarter beginning April 1, 2020

Description	Total	Retail	Seward
Predicted FIW Purchases (MWh)	10,351.0	10,351.0	----
Purchased Power Rate	\$97.00	\$97.00	----
Total FIW Purchased Power Cost	\$1,004,047	\$1,004,047	----
Chugach Avoided Energy Cost at G&T (MWh)	\$54.33	\$54.33	----
Estimated Cost Avoided Due to FIW Purchases	\$562,397	\$562,397	----
Fire Island Wind Cost Differential	\$441,650	\$441,650	----
Chugach Retail Generation & Purchases (MWh)	256,106.0	256,106.0	----
Cost per MWh at Generation	\$1.72	\$1.72	----
Predicted Sales at G&T (MWh)	249,428.8	249,428.8	----
FIW Adjustment Factor per kWh at G&T	\$0.00177	\$0.00177	----

e.4. Summary of fuel and purchased power cost adjustment factors at G&T for rates effective April 1, 2020


Fuel & Purch. Pwr Costs to be Recovered	\$16,038,273	\$15,243,970	\$794,303
Generation & Purchases (MWh)	270,253.0	256,106.0	14,147.0
Cost per MWh at Generation	\$59.35	\$59.52	----
Projected Balances as of July 1, 2020	\$1,407,188	\$1,407,188	\$0
Total Costs Recovered at G&T	\$17,445,461	\$16,651,158	\$794,303
Predicted Sales at G&T (MWh)	263,206.9	249,428.8	13,778.2
Fuel and Purchased Power Adjustment			
Factor per kWh at G&T	\$0.06628	\$0.06676	---- * R, R

\* Not calculated. Seward is billed for actual fuel and purchased power costs on a monthly basis.

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300

By:   
Lee T. Thibert Title: Chief Executive Officer

Canceling

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTORS AT  
RETAIL DELIVERY: PRIMARY SERVICE**

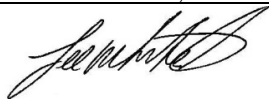
e.5. Chugach retail fuel and purchased power adjustment factors for rates effective April 1, 2020

1. Total Chugach Retail Fuel and Purchased Power Cost Recovery		\$16,651,158	
2. Retail Fuel Adjustment Factor per kWh at G&T	\$0.03817		
3. Retail Purchased Power Adjustment Factor per kWh at G&T	\$0.02682		
4. Fire Island Wind Adjustment Factor per kWh at G&T	\$0.00177		
5. Chugach Retail Service at Primary Voltage			
A. Fuel Adjustment Factor			
a) Primary kWh Sales at G&T	11,537,832.9		
b) Fuel Cost Recovery - Primary Voltage	\$440,399		
c) Primary kWh Sales at Delivery	11,295,681.3		
d) Fuel Adjustment Factor per kWh at Primary (b / c)		<u>\$0.03899</u>	R
(Percent Primary Distribution Losses at G&T: 2.10%)			
B. Purchased Power Adjustment Factor			
a) Primary kWh Sales at G&T	11,537,832.9		
b) Purchased Power Cost Recovery - Primary Voltage	\$309,445		
c) Primary kWh Sales at Delivery	11,295,681.3		
d) Purchased Power Adjustment Factor per kWh at Primary (b / c)		<u>\$0.02739</u>	I
C. Fire Island Wind Renewable Energy Adjustment Factor			
a) Primary kWh Sales at G&T	11,537,832.9		
b) FIW Cost Differential - Primary Voltage	\$20,422		
c) Primary kWh Sales at Delivery	11,295,681.3		
d) FIW Renewable Energy Adjustment Factor per kWh at Primary (b / c)		<u>\$0.00181</u>	R
D. Total Retail Service at Primary Voltage Delivery		\$0.06819	R

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 35<sup>th</sup> Revision Sheet No. 94.1.1

Canceling

34<sup>th</sup> Revision Sheet No. 94.1.1

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTORS AT  
RETAIL DELIVERY: SECONDARY SERVICE**

e.6. Chugach retail fuel and purchased power adjustment factors for rates effective April 1, 2020

6. Chugach Retail Service at Secondary Voltage

A. Fuel Adjustment Factor

a) Secondary kWh Sales at G&T	237,890,966.1		
b) Fuel Cost Recovery - Secondary Voltage	\$9,080,298		
c) Secondary kWh Sales at Delivery	231,163,549.0		
d) Fuel Adjustment Factor per kWh at Secondary (b / c) (Percent Secondary Distribution Losses at G&T: 2.83%)		<u>\$0.03928</u>	R

B. Purchased Power Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	237,890,966.1		
b) Purchased Power Cost Recovery - Secondary Voltage	\$6,380,236		
c) Predicted Secondary kWh Sales at Delivery	231,163,549.0		
d) Purchased Power Adjustment Factor per kWh at Secondary (b / c)		<u>\$0.02760</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	237,890,966.1		
b) FIW Cost Differential - Secondary Voltage	\$421,067		
c) Predicted Secondary kWh Sales at Delivery	231,163,549.0		
d) FIW Renewable Energy Adjustment Factor per kWh at Secondary (b / c)		<u>\$0.00182</u>	R

D. Total Retail Service at Secondary Voltage Delivery \$0.06870 R

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

Canceling

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTORS**

f. 1. Actual fuel costs for the quarter ending December 31, 2019

Description	Total	Retail	Seward
Fuel Adjustment Factor Balance as of September 30, 2019	\$4,018,968	\$4,018,968	\$0
Fuel Balance for Quarter Ending December 31, 2019			
Beluga - BRU (Chugach)	\$115,460	\$109,973	\$5,487
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$3,680,617	\$3,505,372	\$175,245
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$111	\$106	\$5
IGT - BRU (Chugach)	\$3,253	\$3,096	\$156
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$86,914	\$82,733	\$4,181
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$0	\$0	\$0
SPP - BRU (Chugach)	\$367,980	\$350,696	\$17,284
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	\$9,963,697	\$9,495,189	\$468,508
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (5/2017 - 3/2033)	\$9,301	\$8,852	\$449
CINGSA - FSS Capacity and Withdrawal Fees	\$712,889	\$679,472	\$33,418
CINGSA - ISS Capacity and Withdrawal Fees	\$0	\$0	\$0
CINGSA - Gas Withdrawn	\$739,529	\$705,856	\$33,673
Gas Transportation and Compression	\$1,200,443	\$1,143,966	\$56,477
Adjustment	\$11,312	\$10,766	\$546
<b>Total Fuel and Transportation Expense</b>	<b>\$16,891,506</b>	<b>\$16,096,077</b>	<b>\$795,429</b>
Less Credits			
Economy Fuel / Transportation Costs	\$0	\$0	\$0
Economy Margins	(\$4,889)	(\$4,654)	(\$235)
Gas Exchange Contributions (Tesoro and Furie)	(\$104,544)	(\$99,645)	(\$4,900)
Wheeling Revenue	(\$499,177)	(\$475,781)	(\$23,396)
Subtotal	(\$608,611)	(\$580,080)	(\$28,530)
<b>Net Fuel Expense</b>	<b>\$16,282,896</b>	<b>\$15,515,997</b>	<b>\$766,899</b>
Generation & Purchases (MWh)	315,048	300,987	14,061
Cost per MWh at Generation	\$51.68	\$51.55	\$54.54
<b>Total Fuel Cost Recovery</b>	<b>\$19,962,930</b>	<b>\$19,196,032</b>	<b>\$766,899</b>
<b>Quarter Balance</b>	<b>(\$3,680,035)</b>	<b>(\$3,680,035)</b>	<b>\$0</b>

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 36<sup>th</sup> Revision Sheet No. 95.04

Canceling

35<sup>th</sup> Revision Sheet No. 95.04

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTORS (CONTINUED)**

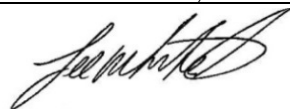
f.2. Actual purchased power costs for the quarter ending December 31, 2019

Description	Total	Retail	Seward
Purchased Power Adjustment Factor			
Balance as of September 30, 2019	(\$3,552,919)	(\$3,552,919)	\$0
Purchased Power Expense			
Bradley Lake Purchases	\$2,246,652	\$2,157,356	\$89,296
FIW Renewable Resource Expense	\$1,705,553	\$1,705,553	\$0
Non-Utility Generation	\$4,463	\$4,248	\$215
Other Purchases	\$2,616,144	\$2,493,112	\$123,032
Subtotal	\$6,572,813	\$6,360,270	\$212,543
Less Purchased Power Credits			
Renewable Energy Certificates	\$0	\$0	\$0
Wheeling Revenue	(\$193,805)	(\$184,713)	(\$9,092)
Subtotal	(\$193,805)	(\$184,713)	(\$9,092)
Net Purchased Power Expense	\$6,379,009	\$6,175,557	\$203,452
Generation & Purchases (MWh)	315,048	300,987	14,061
Cost per MWh at Generation	\$20.25	\$20.52	\$14.47
Purchased Power Cost Recovery	\$81,052	(\$122,400)	\$203,452
Quarter Balance	\$6,297,957	\$6,297,957	\$0

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 47<sup>th</sup> Revision Sheet No. 95.05

Canceling

46<sup>th</sup> Revision Sheet No. 95.05

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTORS (CONTINUED)**

f.3. Summary of Actual Fuel and Purchased Power Cost Adjustment Factor Balances

Description	Total	Retail	Seward
Fuel and Purchased Power Balance as of September 30, 2019	\$466,049	\$466,049	\$0
Balance for Quarter Ending December 31, 2019			
Fuel and Purchased Power Costs	\$22,661,904	\$21,691,554	\$970,350
Generation & Purchases (MWh)	315,048	300,987	14,061
Cost per MWh at Generation	\$71.93	\$72.07	\$69.01
Fuel and Purchased Power Recovery	\$20,043,982	\$19,073,632	\$970,350
Balance for Quarter Ended December 31, 2019	\$2,617,922	\$2,617,922	\$0
Cumulative Balance at Quarter Ended December 31, 2019	\$3,083,971	\$3,083,971	\$0

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer



Canceling

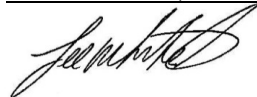
Chugach Electric Association, Inc.

**SUMMARY OF ACTUAL AND PROJECTED FUEL AND PURCHASED POWER COSTS**

Description	Actual - Quarter Ended December 2019			Projected - Quarter Ended June 2020		
	Volume <sup>1</sup>	Unit Cost	Total Cost	Volume	Unit Cost	Total Cost
<b>Fuel Expense</b>						
Beluga - BRU (Chugach)	38,935	\$2.97	\$115,460	6,564	\$3.05	\$20,020
AIX Energy, LLC (4/2016-3/2024)	0	\$0.00	\$0	0	\$0.00	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	495,072	\$7.43	\$3,680,617	58,920	\$7.49	\$441,311
Cook Inlet Energy (2014-3/2023)	0	\$0.00	\$0	0	\$0.00	\$0
Furie (5/2017 - 3/2033)	17	\$6.55	\$111	0	\$0.00	\$0
IGT - BRU (Chugach)	1,098	\$2.96	\$3,253	0	\$0.00	\$0
AIX Energy, LLC (4/2016-3/2024)	0	\$0.00	\$0	0	\$0.00	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	11,699	\$7.43	\$86,914	0	\$0.00	\$0
Cook Inlet Energy (2014-3/2023)	0	\$0.00	\$0	0	\$0.00	\$0
Furie (5/2017 - 3/2033)	0	\$0.00	\$0	0	\$0.00	\$0
SPP - BRU (Chugach)	123,331	\$2.98	\$367,980	136,791	\$3.05	\$417,213
AIX Energy, LLC (4/2016-3/2024)	0	\$0.00	\$0	0	\$0.00	\$0
Hilcorp Alaska, LLC (1/2015-3/2028)	1,339,097	\$7.44	\$9,963,697	1,293,738	\$7.49	\$9,690,098
Cook Inlet Energy (2014-3/2023)	0	\$0.00	\$0	0	\$0.00	\$0
Furie (5/2017 - 3/2033)	1,420	\$6.55	\$9,301	0	\$0.00	\$0
CINGSA - FSS Capacity and Withdrawal Fees	----	\$0.00	\$712,889	----	\$0.00	\$821,720
CINGSA - ISS Capacity and Withdrawal Fees	----	\$0.00	\$0	----	\$0.00	\$0
CINGSA - Gas Withdrawn	96,212	\$7.69	\$739,529	55,076	\$7.77	\$427,941
Gas Exchange Contributions (Tesoro and Furie)	0	\$0.00	\$0	0	\$0.00	\$0
Gas Transportation and Compression	0	\$0.00	\$1,200,443	0	\$0.00	\$1,100,947
Adjustment	1,727	\$6.55	\$11,312	0	\$0.00	\$0
Subtotal	2,108,608	\$8.01	\$16,891,506	1,551,089	\$8.33	\$12,919,249
<b>Purchased Power Expense</b>						
Bradley Lake Purchases, MWh	10,139	\$221.59	\$2,246,652	33,741	\$50.93	\$1,718,427
Total FIW Renewable Resource Expense	17,479	\$97.58	\$1,705,553	10,351	\$97.00	\$1,004,047
Non-Utility Generation	63	\$71.07	\$4,463	12	\$35.00	\$420
Other Purchases, MWh	30,187	\$86.66	\$2,616,144	8,868	\$96.24	\$853,449
Subtotal	57,868	\$113.58	\$6,572,813	52,972	\$67.51	\$3,576,343
Total Fuel & Purch. Power Expense	----	----	\$23,464,319	----	----	\$16,495,591

<sup>1</sup> Fuel volumes from invoices.

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

Canceling

Chugach Electric Association, Inc.

**PURCHASE AND SALES RATES FOR QUALIFIED  
COGENERATION, SMALL POWER PRODUCTION, AND STANDBY/ BUYBACK FACILITIES**

Available in all territory served by Chugach, or as required pursuant to contractual arrangements under wholesale power sales agreement. Applicable to qualified cogeneration, small power production and standby/buyback facilities of 200 kW or less. The type of service shall be single or three phase 60 hertz at Chugach's standard voltages.

Chugach reserves the right to limit the number of retail customers receiving service under the terms of this schedule to one per substation circuit. Chugach further reserves the right to reduce the buyback rates for costs associated with the integration of the energy produced by the qualifying facility into the Chugach system. Integration costs are project specific and determined through the completion of an integration study completed by Chugach.

Monthly Rates

Power sales supplied by Chugach to the customer to meet its electric requirements will be priced at the applicable rates. The rate paid by Chugach to the customer for kWh supplied by the customer to Chugach is the average avoided cost calculated as follows:

1. Fuel and purchased power expense, excluding Bradley Lake and Fire Island Wind, predicted for next quarter in the determination of fuel and purchased power rates.	\$12,216,028	
2. Non-fuel O&M expense	\$56,916	
3. Balancing Account as of December 31, 2019	\$14,974	
4. Total Avoided Cost Included in Rate	\$12,287,917	
5. kWh Sales at G&T predicted for next quarter:	226,161,000	
6. Avoided Cost per kWh at G&T (L4) / L5	<u>\$0.05433</u>	I
7. Avoided Cost at Retail Primary Voltage		
a) Retail Primary kWh Sales at G&T	11,537,833	
(Percent Primary Distribution Losses at G&T: 2.10%)		
b) Retail Primary kWh Sales at Delivery	11,295,681	
c) Avoided Costs per kWh at Retail Primary (L6 x L7a / L7b)	<u>\$0.05550</u>	I
8. Avoided Cost at Retail Secondary Voltage		
a) Retail Secondary kWh Sales at G&T	237,890,966	
(Percent Secondary Distribution Losses at G&T: 2.83%)		
b) Retail Secondary kWh Sales at Delivery	231,163,549	
c) Avoided Costs per kWh at Retail Secondary (L6 x L8a / L8b)	<u>\$0.05591</u>	I

These rates will change concurrently with fuel adjustment factor revisions and general rate revisions.

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 3<sup>rd</sup> Revision Sheet No. 97.1.4

Canceling

2<sup>nd</sup> Revision Sheet No. 97.1.4

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTOR HISTORY  
(SERVICE AT TRANSMISSION DELIVERY, RETAIL)**

For Rates Effective	Chugach Retail (Rate per kWh)			
	Total	Fuel	Purchased Power	FIW Adjustment Factor
October 1, 2019	\$0.06178	\$0.05868	\$0.00132	\$0.00178
November 1, 2019	\$0.06172	\$0.05862	\$0.00132	\$0.00178
January 1, 2020	\$0.06692	\$0.05799	\$0.00655	\$0.00238
April 1, 2020	\$0.06676	\$0.03817	\$0.02682	\$0.00177 N

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8 3<sup>rd</sup> Revision Sheet No. 97.5.2

Canceling

2<sup>nd</sup> Revision Sheet No. 97.5.2

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTOR HISTORY  
(SERVICE AT CHUGACH RETAIL DELIVERY)**


For Rates Effective	Total	Primary Voltage (Rate per kWh)		
		Fuel	Purchased Power	FIW Renewable Energy Adj. Factor
October 1, 2019	\$0.06720	\$0.06382	\$0.00144	\$0.00194
November 1, 2019	\$0.06714	\$0.06376	\$0.00144	\$0.00194
January 1, 2020	\$0.06862	\$0.05946	\$0.00672	\$0.00244
April 1, 2020	\$0.06819	\$0.03899	\$0.02739	\$0.00181

N

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by: Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer

RCA NO.: 8      3<sup>rd</sup> Revision      Sheet No. 97.6.1

Canceling

2<sup>nd</sup> Revision      Sheet No. 97.6.1

Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT FACTOR HISTORY  
(SERVICE AT CHUGACH RETAIL SECONDARY VOLTAGE DELIVERY)**

For Rates Effective	Total	Secondary Voltage (Rate per kWh)		
		Fuel	Purchased Power	FIW Renewable Energy Adj. Factor
October 1, 2019	\$0.06770	\$0.06430	\$0.00145	\$0.00195
November 1, 2019	\$0.06764	\$0.06424	\$0.00145	\$0.00195
January 1, 2020	\$0.06913	\$0.05990	\$0.00677	\$0.00246
April 1, 2020	\$0.06870	\$0.03928	\$0.02760	\$0.00182

N

Tariff Advice No.: 485-8

Effective: April 1, 2020

Issued by:

Chugach Electric Association, Inc.  
P.O. Box 196300, Anchorage, Alaska 99519-6300



By: Lee D. Thibert

Title: Chief Executive Officer