Alaska Energy Authority
Alaska Intertie
Proposed FY2025 Budget
Date: March 22, 2024

ALASKA ENERGY AUTHORITY ALASKA INTERTIE FY25 Proposed Budget Contents

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Alaska Intertie FY25 Proposed Budget Proposed Budget Summary

					ies)			
Revenues	<u>0&M</u>	<u>Grant</u>	<u>Total</u>	Total GVEA	Total CEA	Total MEA	Total HEA	<u>Total</u>
Revenue from Operations	3,966,365	-	3,966,365	2,838,837	431,626	695,903	-	3,966,365
Grant Match		536,362	536,362	442,794	32,859	60,709	4,805	536,362
	3,966,365	536,362	4,502,727	3,281,630	464,485	756,612	4,805	4,502,727
Expenses	0.057.400		0.057.400					
Operations	2,957,100	-	2,957,100					
Admin	785,000	-	785,000					
Grant	-	536,362	536,362					
	3,742,100	536,362	4,278,462					
Surplus/(Shortage)	224,265	-	224,265					

REVENUES PY21							
Actual Actual Actual Actual Actual 1231/23 Budget Sudget							
REVENUES OYEA 1,942,988 2,075,721 1,582,589 405,455 3,583,1344 2,338,857 CEA 2,004,779 413,229 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152 405,400 1,122,152							
		Actual	Actual	Actual	12/31/23	Budget	Budget
CEA	<u>REVENUES</u>						
MEA	GVEA	1,942,988	2,075,721	1,632,539	2,008,550	3,631,114	2,838,837
TOTAL REVENUES 903 1,668 56,961 10,000 .							
### TOTAL REVENUES 2,694,495 2,693,695 2,647,394 2,673,494 4,757,392 3,366,385 ###################################						654,520	695,903
FRRC 562 - Station Operation Expenses					,	-	-
FERC 249 Station Operation Expenses 9,382 45,889 478	TOTAL REVENUES	2,694,435	2,755,887	2,547,364	2,679,494	4,757,352	3,966,365
FERC 249 Station Operation Expenses 9,382 45,889 478	EXPENSES						
FERC 566 - Miscellaneous Transmission Expense 9,382 45,889 478							
Park Sef		9 382	45 889	478		-	_
Private Line Telephone Service for ARI SCALDA (GVEA) 5.556 5.556 5.758 5.005 6.000 6.000 1.000	CTEAT Cubotation Elocation, Codago	-,					-
Col Phone Comm. Six for Weather Monitoring (Vertzein) 11,904 12,025 11,983 . 13,000 13,000 13,000 15,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 175,000 194,000 1	FERC 566 - Miscellaneous Transmission Expense	<i>'</i>	,				
SEMS Support and Interface Ground Patrol 188,540 154,947 145,346 21,205 175,000 175,000 175,000 184,000 172,528 163,116 26,210 194,000 194,000 194,000 194,000 186,000 172,000 1,500 1,000 1					5,005		
FERC 55 - Transmission Expenses - Rents 116,000 172,528 163,116 26,210 194,000 194,000 1,000					-		
FERC 567 - Transmission Expenses - Rents Rents - Masak Railinoad 7.00 7.00 7.00 7.00 7.00 7.00 7.200	SLMS Support and Intertie Ground Patrol				,		
Rents - Alaska Railroad 700 700 1,500 1,000 1,000 1,000 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 2,400 7,200 7,200 2,400 7,200		116,000	172,528	163,116	26,210	194,000	194,000
MEA - Talkeetna Storage		700	700	4.500	4.000	4.000	4.000
Equipment Rental 375 102							
FERC 569 Maintenance of Structures		7,200			2,400	7,200	7,200
FERC 569 Maintenance of Structures	Equipment Rental	7 900			3 400	8 200	8 200
MEA - Re-insulate 20 dead-end structures MEA - Re-insulate 20 dead-end structures	FERC 569 Maintenance of Structures	7,500	0,270	0,002	0,400	0,200	0,200
MEA - Re-insulate 30 tangent structures		-	-	-	-	75 000	300 000
FERC 570 - Maintenance of Station Equipment		-	-		-		
Syka - HuSB17 Symc PT Replacement		-	-	-	-		
GYEA - Healy, Cantwell, Goltchill 154,917 63,163 141,248 125,000 350,000	FERC 570 - Maintenance of Station Equipment						
GWEA - Replace Healy Substation Breaker B17	GVEA - HLSB17 Sync PT Replacement	-	-	-	-	-	25,000
GVEA - Healy and Goldhill Digital Fault Recorders GVEA - Gold Hill SVC Cooling GVEA - Cantwell Install Breakers or Load Break Switches - 182,606 306,000 GVEA - Cantwell Hastal Breakers or Load Break Switches - 182,606 306,000 GVEA - Cantwell Hastal Breakers or Load Break Switches - 182,606 306,000 GVEA - Cantwell Hastal Breakers or Load Break Switches - 182,606 306,000 GVEA - Cantwell Stage Switch Repair - 43,217		154,917	63,163	141,248		125,000	
GVEA - Cold Hill SVC Cooling GVEA - Cantwell hall Breakers or Load Break Switches GVEA - Cantwell Hall Breakers or Load Break Switches GVEA - Cantwell 4S2 Switch Repair GVEA - Perform Maintenance, repaint Reactors Healy SVC Yard 145,494 - 4,472		-	-	-	-	-	350,000
GVEA - Cantwell Install Breakers or Load Break Switches GVEA - Cantwell 4S2 Switch Repair GVEA - Perform Maintenance, repaint Reactors Healy SVC Yard 145,494 - 4,472		-		-	-	-	-
GVEA - Cantwell 452 Switch Repair GVEA - Perform Maintenance, repaint Reactors Healy SVC Yard 145,494 - 43,217 - GVEA - Perform Maintenance, repaint Reactors Gold Hill SVC Yard - 7,452 - 7,452		-		-	-	-	-
GVEA - Perform Maintenance, repaint Reactors Healy SVC Yard		-	182,606	42.047	-	306,000	306,000
GVEA - Perform Maintenance, repaint Reactors Gold Hill SVC Yard - 7,452 - - - - - - -		145 404	-		-	-	-
GVEA - Capacitor Spares		145,494	7 452	4,412	-	-	
GVEA - Cantwell Standby Generator Replacement 29,016 - - - - - - - - -		-	7,402	-	-	20,000	
GVEA - SVC Intertie Trust Fund Eligible Expenses		29.016	-	-	-	-	_
CEA - Kk Intertie Yard - - - - - - - - 5,000 5,000 5,000 15,000 <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td>		-	-		-	-	-
CEA - Teeland Substation Communication - - - 5,000 5,000 5,000 15,000 170,000		-	-		-	-	50,000
CEA - Teeland Substation 183,401 115,365 74,128 82,488 170,000 170,000 CEA - Douglas Substation Communication - - - 1,554 - 2,400 MEA - Douglas Substation 138 kV BKR Inspections - - - - 25,000 25,000 CEA - Telecomm Support (Douglas, Teeland, Anc-Fbks Leased Circuits) - 1,742 -		-	-		-	-	-
CEA - Douglas Substation Communication - - - 1,554 - 2,400 MEA - Douglas Substation 26,115 - - 1,441 - - - - 25,000 <		- 400 404	445.005	74.400	- 00.400		
MEA - Douglas Substation 26,115 - - 1,441 -		183,401	115,365	74,128		170,000	
MEA - Douglas Substation 138 kV BKR Inspections - - - - - 25,000 25,000 CEA - Telecomm Support (Douglas, Teeland, Anc-Fbks Leased Circuits) - 1,742 - <		26 115	-	-		-	2,400
CEA - Telecomm Support (Douglas, Teeland, Anc-Fbks Leased Circuits) - 1,742 -		20,113	-	-	1,441	25,000	25,000
FERC 571 - Maintenance of Overhead Lines GVEA - Northern Maintenance GVEA - Northern ROW Clearing GVEA - Northern ROW Remote Sensing and Analysis GVEA - Landing Pads 538,943 424,043 263,065 85,482 651,000 997,900 - 150,000 550,000 550,000 68,882 328,252 - 550,000 60,000 75,000 75,000			1 742	_	-	25,000	23,000
FERC 571 - Maintenance of Overhead Lines 68,204 107,641 99,464 - 150,000 - GVEA - Northern Maintenance 36,721 68,882 328,252 - 550,000 550,000 GVEA - Northern ROW Remote Sensing and Analysis - - - - 400,000 - GVEA - Landing Pads - - - - 75,000 75,000	VEA - Tolecommit outport (Douglas, Teeland, Allo-Funs Leased Ollouits)	E20 042		202.005	05 400	054 000	007.000
GVEA - Northern Maintenance 68,204 107,641 99,464 - 150,000 - GVEA - Northern ROW Clearing 36,721 68,882 328,252 - 550,000 550,000 GVEA - Northern ROW Remote Sensing and Analysis - - - - 400,000 - GVEA - Landing Pads - - - - 75,000 75,000		536,943	424,043	263,065	00,402	651,000	997,900
GVEA - Northern ROW Clearing 36,721 68,882 328,252 - 550,000 550,000 GVEA - Northern ROW Remote Sensing and Analysis - - - - 400,000 - GVEA - Landing Pads - - - - 75,000 75,000		00.00.	407.044	00.101		450.000	
GVEA - Northern ROW Remote Sensing and Analysis - - - - 400,000 - - GVEA - Landing Pads - - - - 75,000 - 75,000					-		- -
GVEA - Landing Pads 75,000 75,000		30,727	00,082	320,252	-		550,000
			-				75,000
		-	-	-			- 10,000

		_		-		
GVEA - Repair Tower 531 Foundation	-	-	-	-	150,000	-
GVEA - Repair Tower 532 Foundation	-	-	-	-	150,000	-
GVEA - Helicopter Patrols	-	-	-	-	-	80,000
MEA - Special Patrols [Incl Helicopter Inspections]	-	599	11,603	-	-	15,000
MEA - Southern Maint (Incl Ground and Climbing Inspect)	138,199	191,358	78,729	-	140,000	140,000
MEA - Southern ROW Clearing	228,413	168,367	525,520	-	500,000	300,000
MEA - Southern ROW Remote Sensing and Analysis	-	-	-	-	125,000	10,000
MEA - Equipment Repair and Replacement	780,866	76,494	803,393	152,755	350,000	-
	1,252,403	613,341	1,846,961	152,755	2,670,000	1,170,000
FERC 924 - Property Insurance						
AK Intertie - Insurance	38,773	37,133	40,178	11,334	37,000	37,000
, at interior interior	38,773	37,133	40,178	11,334	37,000	37,000
	,	,	-, -	· · · · · · · · · · · · · · · · · · ·	,	•
Intertie Operating Costs Total	1,963,401	1,301,209	2,322,601	279,180	3,710,200	2,957,100
FERC 570 - Maintenance of Station Equipment						
MEA - Replace Protective Relay Schemes Douglas						
MEA - Replace Flotective Relay Schemes Douglas	-	-	-	-	-	
	-	•			-	
Intertie Cost of Improvements Total	-	-	-	-	-	<u>-</u>
FERC 920 - AEA Administrative Costs						
Personal Services, Travel and Other Costs	210,409	235,608	190,236	49,077	230,000	250,000
	210,409	235,608	190,236	49,077	230,000	250,000
FERC 920 - IMC Administrative Costs	,	,	,	,		
IMC Administrative Costs (Audit, meetings, legal)	30,890	29,276	14,579	2.861	20,000	20.000
	30,890	29,276	14,579	2,861	20,000	20,000
FERC 566 - Miscellaneous Transmission Expense	,	-, -	,	,	,,,,,,	77.11
Misc Studies: System Reserves Study (IBR), PSS/E maint,	400.075		450.000	22.222	000.000	E1E 000
230 kV Upgrade System Impact Study	186,675	145,327	150,368	28,200	266,000	515,000
LIDAR study (complete lidar, vegetation, PLS CADD file with drawings, structure/foundation						
movement, infrared, and imaging)	226,125	-	_	-	-	_
, 33,	,					
Synchrophaser System (Moved to GRANT BUDGET worksheet)	-	-		-	250,000	<u> </u>
	412,800	145,327	150,368	28,200	516,000	515,000
	,	,	, , , , , , , , , , , , , , , , , , ,	•		
Intertie Administration Costs Total	654,099	410,211	355,182	80,138	766,000	785,000
TOTAL EXPENSE	2,617,500	1,711,420	2,677,783	359,318	4,476,200	3,742,100
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,		1	1	
SURPLUS (SHORTAGE)	76.935	1,044,468	(130,419)	2,320,176	281,152	224,265
SORT EUG (GHORTAGE)	10,333	1,077,700	(100,410)	2,020,170	201,102	227,203

Utility Grant Matching Contributions

Snow Loading Grant to re-insulate from Douglas north 80 miles

(Proposed Allocation Option #2 - Revenue excluding Admin Fee from Allocation)

GVEA Grant Submittal to AEA (\$13.8M grant with \$3M in matching funds & \$500k in-kind in-house labor) AEA to revise per agreed payment

Total Match Amount

\$ 491,167

Power Purchaser	Percent <u>Share</u>	FY24 <u>Match</u>
GVEA CEA MEA	81.95% 6.69% 11.36%	402,511 32,859 55,797
	100.00%	491,167

DOE Resiliency Grant - AK Intertie Snow Load Resiliency									
Year	Project Total Cost	Grant Match (Cash and In-Kind)							
1	\$1,964,668	\$1,473,501	\$491,167						
2	\$2,942,956	\$2,207,217	\$735,739						
3	\$2,942,956	\$2,207,217	\$735,739						
4	\$2,942,956	\$2,207,217	\$735,739						
5	\$2,965,356	\$2,224,017	\$741,339						
Total	\$13,758,890	\$10,319,167	\$3,439,722						

Synchrophaser System Grant

(Proposed Allocation Option #3 - Revenue Excluding Capacity and Admin Fee from Allocation)

Per GVEA Grant Submittal to AEA (\$2.2M grant with \$50k in matching funds & \$500k in-kind in-house labor) AEA to revise budget for approved payment methods

Total Match Amount

\$ 50,000

Power Purchaser	Percent <u>Share</u>	FY24 <u>Match</u>		
HEA (Load Ratio Share)	9.61%	4,805		
GVEA CEA MEA	89.13% 0.00% 10.87%	40,282 - 4,913		
	100.00%	45,195		

HEA is contributing because they are receiving benefit from the Synchrophaser System (Railbelt wide) This is 9.61% of the Total Match Amount and is based on their load ratio share per resolution.

	DOE Resiliency Grant - Synchrophasor Project - Five Year Average									
Year	Project Cost	Railbelt Utilities	Railbelt Utilities	Grant Contribution						
	<u> </u>	Combined Cash Match	In Kind Contribution							
1	\$440,245	\$9,839	\$100,222	\$330,183						
2	\$440,245	\$9,839	\$100,222	\$330,183						
3	\$440,245	\$9,839	\$100,222	\$330,183						
4	\$440,245	\$9,839	\$100,222	\$330,183						
5	\$440,245	\$9,839	\$100,222	\$330,183						
Total	\$2,201,225	\$49,195	\$501,110	\$1,650,915						

ALASKA INTERTIE FISCAL YEAR 2025 ENERGY PROJECTION

	True up				
	Contract	GVEA	MEA	CEA	TOTAL
MONTH	Value	MWH	MWH	MWH	MWH
Jul		12,275	2,187	0	14,462
Aug		14,077	2,295	0	16,372
Sep		14,766	2,210	0	16,976
Oct		27,634	2,165	0	29,799
Nov		27,147	2,339	0	29,486
Dec		26,405	2,633	0	29,038
Jan		11,268	2,458	0	13,726
Feb		11,151	2,261	0	13,412
Mar		7,727	2,466	0	10,193
Apr		10,367	2,258	0	12,625
May		10,823	2,321	0	13,144
Jun		4,728	1,935	0	6,662
TOTAL	0	178,366	27,527	0	205,893

	USAGE			CAPACITY		ADMIN	CASH FLOW
GVEA	MEA	CEA	GVEA	MEA	CEA	GVEA MEA CEA	TOTALS
\$160,554	\$28,603	\$0	\$244,140	\$74,181	\$169,959	\$65,417	\$742,854
\$184,125	\$30,017	\$0				\$65,417	\$279,559
\$193,137	\$28,908	\$0				\$65,417	\$287,461
\$361,455	\$28,312	\$0				\$65,417	\$455,184
\$355,078	\$30,600	\$0				\$65,417	\$451,094
\$345,372	\$34,440	\$0				\$65,417	\$445,229
\$147,383	\$32,152	\$0				\$65,417	\$244,952
\$145,858	\$29,574	\$0				\$65,417	\$240,848
\$101,074	\$32,250	\$0				\$65,417	\$198,741
\$135,598	\$29,532	\$0				\$65,417	\$230,546
\$141,560	\$30,364	\$0				\$65,417	\$237,340
\$61,837	\$25,303	\$0				\$65,417	\$152,557
\$2,333,030	\$360,055	\$0	\$244,140	\$74,181	\$169,959	\$785,000	\$3,966,365
	Total Energy:	\$2,693,085		Total Capacity :	\$488,280	·	

TOTAL INTERTIE PROJECTED ENERGY USAGE
Usage estimate reduced by 1/12 of Total for rate calculations
Section 7.2.2 MINIMUM USAGE CONTRACT VALUE

205,893 MWH 188,736 MWH 204,984 MWH

 O&M BUDGET - Operating
 2,957,100

 O&M BUDGET - Administrative
 785,000

 TOTAL O&M BUDGET
 3,742,100

 SURPLUS (SHORTAGE)
 \$224,265

\$3,966,365

 UTILITY
 FY 25

 MEA
 30.40%
 23.70 MW

 CEA
 69.60%
 54.30 MW

 GVEA
 100.00%
 78.00 MW

 156.0

Annual Participant Administrative Contribution 261,666.67

Monthly Contribution per Participant 21,805.56

TOTAL MWH REVENUE

Usage Rate per KWH \$ 0.01308 Capacity Rate \$3.13

MINIMUM INTERTIE TRANSFER CAPABILITY RIGHTS (MITCR) DETERMINATION FOR FISCAL YEAR 2025

Annual	System	Demand
Alliluai	System	Demand

	21-22	22-23	23-24	3 YR AVG.	_						
SOUTHERN UTILITY PARTICIPANTS (MW)					_						
CEA	349.8	343.8	322.9	338.8 MW			APPROVED	APPROVED	APPROVED	APPROVED	APPROVED
MEA	146.0	147.0	150.7	147.9 MW			6/30/2025	6/30/2024	6/30/2023	6/30/2022	6/30/2021
						UNITS	FY25	FY24	FY23	FY22	FY21
					USAGE	KWH	188,736,000	251,476,000	415,247,000	187,902,000	187,902,000
					OPERATING BUDGET	\$	2,957,100	3,710,200	2,544,100	1,992,890	2,007,385
					MITCR	KW	156,000	156,000	156,000	156,100	156,000
TOTAL				486.7 MW	_						
					ENERGY (A)	\$.000/KWH	\$0.01308	\$0.01232	\$0.00512	\$0.00886	\$0.00892
NORTHERN UTILITY PARTICIPANTS (MW)											
					CAPACITY (B)	\$/KW	\$3.13	\$3.92	\$2.69	\$2.11	\$2.12
GVEA	198.3	205.5	205.5	203.1 MW	, ,	•	·	•	·		
TOTAL				203.1 MW	_						

MITCR DETERMINATION

MIT ON BETERMINATION					
		FY 25	<u>KWH</u>	CAP RATE	CAP CHARGES
MEA	30.40%	23.70 MW	23,700	\$3.13	74,181.00
CEA	69.60%	54.30 MW	54,300	\$3.13	169,959.00
GVEA	100.00%	78.00 MW	78,000	\$3.13	244,140.00
	•	156.00 MW	156,000	_	488,280.00
				=	

⁽A) See Section 7.2.5 AK Intertie Agreement

⁽B) See Section 7.2.6 AK Intertie Agreement