

Alaska Intertie FY22 Proposed Budget - Draft V5

	FY18 Actual	FY19 Actual	FY20 Actual	FY21 ACTUALS @ 03/31/21	Approved FY21 Budget	Proposed FY22 Budget	
REVENUES							
GVEA	1,819,599	1,856,523	1,554,543	1,398,049	1,255,200	1,703,854	
ML&P	285,075	146,246	237,938	101,217	231,217		
CEA	298,554	166,406	258,090	240,065	250,065	225,259	FY22 - CEA combined with ML&P
MEA	350,920	247,774	448,478	352,061	434,064	361,596	
INTEREST	6,636	32,412	16,611	259			
TOTAL REVENUES	2,760,783	2,449,361	2,515,661	2,091,650	2,170,546	2,290,710	
EXPENSES							
FERC 562 - Station Operation Expenses							
GVEA - Substation Electricity Usage	7,624	7,199	9,675	7,462	8,000	8,000	Per GVEA
	7,624	7,199	9,675	7,462	8,000	8,000	
FERC 566 - Miscellaneous Transmission Expense							
Private Line Telephone Service for AKI SCADA (GVEA)	47,810	32,793	11,718	4,167	50,000	18,000	Per GVEA
Cell Phone Comm. Svc for Weather Monitoring (Verizon)	11,736	12,022	12,022	8,898	15,000	12,000	Per AEA
SLMS Support and Intertie Ground Patrol	59,073	79,290	87,863	81,183	100,000	100,000	Per AEA
Misc Studies as needed (Cyber Security Study)	-	-	-	-	-	-	
	118,618	124,105	111,603	94,248	165,000	130,000	
FERC 567 - Transmission Expenses - Rents							
Rents - Alaska Railroad	700	700	700	700	700	700	Fixed
MEA - Talkeetna Storage	7,200	7,200	7,200	5,400	7,200	7,200	Fixed
PSSE key replacement	-	-	-	-	-	-	
	7,900	7,900	7,900	6,100	7,900	7,900	
FERC 569 Maintenance of Structures							
MEA - Maintenance of Structures	-	-	-	-	-	-	Per MEA
	-	-	-	-	-	-	
FERC 570 - Maintenance of Station Equipment							
GVEA - Perform Maintenance - Healy, Cantwell, Goldhill	46,976	14,892	104,224	98,366	65,000	74,340	Per GVEA
GVEA - SCADA Maintenance Healy, Cantwell, Gold Hill	6,265	1,790	-	-	5,000	5,000	Per GVEA
GVEA - Healy, Teeland, Goldhill Dampers	-	-	59,016	-	-	-	Per GVEA
GVEA - Healy and Goldhill Digital Fault Recorders	-	-	-	-	-	90,000	Per IOC
GVEA - Healy SVC Fire Alarm Panel Replacement	-	1,697	-	-	-	-	Per GVEA
GVEA - Gold Hill SVC Cooling	-	-	-	-	-	65,000	Per GVEA
GVEA - Cantwell Install Breakers or Load Break Switches	-	-	-	-	-	266,000	Per GVEA
GVEA - Cantwell 452 Switch Repair	3,778	-	-	-	-	-	Per GVEA
GVEA - Replace Battery Goldhill SVC	3,272	-	-	-	-	-	Per GVEA
GVEA - Perform Maintenance, repaint Reactors Healy SVC Yard	6,785	19,820	60,414	127,717	10,000	-	Per GVEA
GVEA - Perform Maintenance, repaint Reactors Gold Hill SVC Yard	-	-	-	-	-	80,000	Per GVEA
GVEA - Cantwell RTU, Recloser, & Transformer Protection replacement	-	-	-	-	-	-	Per GVEA
GVEA - Cantwell Standby Generator Replacement	-	-	-	29,016	75,000	-	Per GVEA
CEA - Teeland Substation	70,882	82,890	113,849	115,680	90,000	85,000	Per CEA
MEA - Douglas Substation	72,440	91	96	18,667	4,000	-	Per MEA
MEA - Douglas Substation 138 kV Bus Repair & BKR Inspections	-	-	-	-	75,000	-	Per MEA
MEA - Douglas Substation Breaker Replacement	119,645	-	-	-	-	-	Per MEA
GVEA - Douglas Substation OOS relaying and communications	610	-	-	-	50,000	-	Per GVEA
CEA - Telecomm Support (Douglas, Teeland, Anc-Fbks Leased Circuits)	31,403	2,125	-	-	10,000	-	Per CEA
	362,057	123,305	337,598	389,445	384,000	665,340	
FERC 571 - Maintenance of Overhead Lines							
GVEA - Northern Maintenance	42,580	147,299	37,171	15,059	130,000	78,000	Per GVEA
GVEA - Northern ROW Clearing	15,321	99,382	89,493	36,721	130,000	73,000	Per GVEA
GVEA - Repair Tower 748	486,740	677,877	-	-	-	-	Per GVEA
MEA - Special Patrols [Incl Helicopter Inspections]	-	4,571	-	-	3,000	5,000	Per MEA Patrols and Contractor I
MEA - Southern Maint [Incl Ground and Climbing Inspect]	187,283	181,802	97,175	12,601	160,485	200,000	Per MEA structures 70-129
MEA - Southern ROW Clearing	39,184	76,703	38,023	228,413	125,000	150,000	Per MEA Clearing from structure :
MEA - Equipment Repair and Replacement	-	-	16,521	771,942	850,000	640,000	Per MEA 137 Marker Balls FAA an
	771,108	1,187,634	278,383	1,064,736	1,398,485	1,146,000	
FERC 924 - Property Insurance							
AK Intertie - Insurance	35,466	33,909	36,253	21,369	44,000	35,650	Per AEA (Gen Liab/Commercial Umbrella) & MEA (includes Aviation)
	35,466	33,909	36,253	21,369	44,000	35,650	
Intertie Operating Costs Total	1,302,773	1,484,052	781,413	1,583,361	2,007,385	1,992,890	
FERC 570 - Maintenance of Station Equipment							
MEA - Replace Protective Relay Schemes Douglas	843,382	6,324	-	-	-	-	Per MEA
	843,382	6,324	-	-	-	-	
Intertie Cost of Improvements Total	843,382.08	6,324	-	-	-	-	
FERC 920 - AEA Administrative Costs							
Personal Services, Travel and Other Costs	99,383	85,139	101,058	103,738	90,000	100,000	Per AEA
	99,383	85,139	101,058	103,738	90,000	100,000	
FERC 920 - IMC Administrative Costs							
IMC Administrative Costs (Audit, meetings, legal)	22,364	18,211	11,533	9,996	40,000	17,500	Per IMC Chair
	22,364	18,211	11,533	9,996	40,000	17,500	
FERC 566 - Miscellaneous Transmission Expense							
Misc Studies: System Reserves Study, PSS/E maint, AGC Study	15,680	20,719	69,023	68,978	290,000	200,000	per IOC
LIDAR study (complete lidar, vegetation, PLS CADD file with drawings, structure/foundation movement, infrared, and imaging)	-	-	-	226,125	300,000	-	per IOC
	15,680	20,719	69,023	295,103	590,000	200,000	
Intertie Administration Costs Total	137,427	124,069	181,614	408,836	720,000	317,500	
TOTAL EXPENSE	2,283,583	1,614,445	963,027	1,992,198	2,727,385	2,310,390	
SURPLUS (SHORTAGE)	477,200	834,916	1,552,634	99,452	(556,839)	(19,680)	

ALASKA INTERTIE
FISCAL YEAR 2022
ENERGY PROJECTION

MONTH	True up to Contract Value	GVEA MWH	MEA MWH	CEA MWH		TOTAL MWH
Jul	1,620	11,050	1,795	0		14,465
Aug	1,620	8,973	2,008	0		12,601
Sep	1,620	13,749	1,952	0		17,321
Oct	1,621	28,741	1,821	0		32,183
Nov	1,621	10,171	1,786	0		13,578
Dec	1,621	8,962	2,048	0		12,631
Jan	1,621	12,043	2,395	0		16,059
Feb	1,621	8,513	2,070	0		12,204
Mar	1,621	5,617	2,168	0		9,406
Apr	1,621	12,448	1,798	0		15,867
May	1,621	9,247	1,966	0		12,834
Jun	1,621	32,274	1,940	0		35,835
TOTAL	19,449	161,788	23,747	0		204,984

TOTAL INTERTIE PROJECTED ENERGY USAGE 204,984 MWH
Usage estimate reduced by 1/12 of Total for rate calculations 187,902 MWH
Section 7.2.2 MINIMUM USAGE CONTRACT VALUE 204,984 MWH

UTILITY	FY 22	
MEA	27.50%	21.50 MW
CEA	72.50%	56.60 MW
GVEA	100.00%	78.00 MW
		<u>156.1</u>

Usage Rate per KWH \$ 0.00886
Capacity Rate \$2.11

USAGE			CAPACITY			ADMIN			CASH FLOW
GVEA	MEA	CEA	GVEA	MEA	CEA	GVEA	MEA	CEA	TOTALS
\$97,903	\$15,904	\$0	\$164,580	\$45,365	\$119,426	\$26,459			\$469,637
\$79,501	\$17,791	\$0				\$26,459			\$123,751
\$121,816	\$17,295	\$0				\$26,459			\$165,570
\$254,645	\$16,134	\$0				\$26,459			\$297,238
\$90,115	\$15,824	\$0				\$26,458			\$132,397
\$79,403	\$18,145	\$0				\$26,458			\$124,006
\$106,701	\$21,220	\$0				\$26,458			\$154,379
\$75,425	\$18,340	\$0				\$26,458			\$120,223
\$49,767	\$19,208	\$0				\$26,458			\$95,433
\$110,289	\$15,930	\$0				\$26,458			\$152,677
\$81,928	\$17,419	\$0				\$26,458			\$125,805
\$285,948	\$17,188	\$0				\$26,458			\$329,594
\$1,433,441	\$210,398	\$0	\$164,580	\$45,365	\$119,426	\$317,500			\$2,290,710
Total Energy: \$1,643,839			Total Capacity : \$329,371						

TOTAL MWH REVENUE	\$ 2,290,710
O&M BUDGET - Operating	1,992,890
O&M BUDGET - Administrative	317,500
TOTAL O&M BUDGET	2,310,390
SURPLUS (SHORTAGE)	\$ (19,680)

Annual Participant Administrative Contribution \$ 105,833
Monthly Contribution per Participant \$ 8,819.44

**MINIMUM INTERTIE TRANSFER CAPABILITY RIGHTS
(MITCR) DETERMINATION
FOR FISCAL YEAR 2022**

Annual System Demand										
					18-19	19-20	20-21	3 YR AVG.		
<u>SOUTHERN UTILITY PARTICIPANTS (MW)</u>										
						DRAFT 6/30/2022	APPROVED 6/30/2021	APPROVED 6/30/2020	APPROVED 6/30/2019	
CEA					375.4	364.5	366.0	368.6 MW		
MEA					137.0	137.0	145.0	139.7 MW		
					UNITS					
					USAGE	KWH	187,902,000	187,902,000	187,902,000	297,441,000
					BUDGET	\$	1,992,890	2,007,385	2,168,391	2,024,298
					MITCR	KW	156,100	156,000	156,000	156,100
TOTAL					508.3 MW					
					ENERGY (A)	\$/KWH	\$0.00886	\$0.00892	\$0.00964	\$0.00568
<u>NORTHERN UTILITY PARTICIPANTS (MW)</u>										
					CAPACITY (B)	\$/KW	\$2.11	\$2.12	\$2.29	\$2.14
GVEA					200	191	204	198.3 MW		
TOTAL					198.3 MW					
<u>MITCR DETERMINATION</u>										
					FY 22	KWH	CAP RATE	CAP CHARGES		
MEA					27.50% 21.50 MW	21,500	\$2.11	45,365.00		
CEA					72.50% 56.60 MW	56,600	\$2.11	119,426.00		
GVEA					100.00% 78.00 MW	78,000	\$2.11	164,580.00		
					156.10 MW	156,100		329,371.00		

(A) See Section 7.2.5 AK Intertie Agreement

(B) See Section 7.2.6 AK Intertie Agreement