INTERTIE MANAGEMENT COMMITTEE (IMC)
REGULAR MEETING AGENDA
July 24, 2026, 9:00 a.m.
To participate dial 1-888-585-9008 and use code 212-753-619#

1. CALL TO ORDER
2. ROLL CALL FOR COMMITTEE MEMBERS
3. PUBLIC ROLL CALL
4. AGENDA APPROVAL
5. PUBLIC COMMENTS
6. APPROVAL OF PRIOR MINUTES – June 26, 2026
7. OLD BUSINESS
   - A. PSSE Model / Contract
     - i. EXECUTIVE SESSION (Bylaws Section 5.11.3) – To discuss confidential financial matters the immediate knowledge of which could have an adverse effect upon the finances of AEA, the Intertie, of the IMC, or any of its Members.
   - B. Wildfire / Natural Disaster Notification Process
8. NEW BUSINESS
   - A. Annual Meeting and Election of Officers
9. COMMITTEE REPORTS
   - A. Budget to Actuals — Mark Ziesmer
   - B. IOC Report — Mike Miller
   - C. Operator Report — Mike Miller
10. MEMBER COMMENTS
11. NEXT MEETING DATE – September 25, 2026
12. ADJOURNMENT

Alaska Intertie Management Committee (IMC)
REGULAR MEETING MINUTES
Alaska Energy Authority Board Room
Friday, June 26, 2026

1. CALL TO ORDER

Chair Tony Zellers called the meeting of the Alaska Intertie Management Committee to order on June 26, 2026, at 9:00 a.m.

2. ROLL CALL FOR COMMITTEE MEMBERS

Members present: Tony Zellers (Matanuska Electric Association (MEA)); Dan Bishop (Golden Valley Electric Association (GVEA)); Andrew Laughlin (Chugach Electric Association (CEA)); and Bill Price (Alaska Energy Authority (AEA)). A quorum was established.

3. PUBLIC ROLL CALL

Jennifer Bertolini (AEA); Patrick Domitrovich; Pam Ellis (AEA); Jim Mendenhall (AEA); Vienna Vaden (AEA); Robert Varga (AEA); Mark Ziesmer (AEA); Mike Miller (CEA); Ashley Brown (Guess & Rudd); Jonathon Green (Guess & Rudd); Keith Palchikoff (GVEA); David Pease (MEA); and Jon Sinclair (MEA).

4. AGENDA APPROVAL

MOTION: A motion was made by Mr. Laughlin to approve the agenda. Motion seconded by Mr. Bishop.

MOTION: A motion was made by Mr. Price to amend the agenda adding Item 8C. Natural Disaster Notification Process. Motion seconded by Mr. Bishop.

A roll call vote was taken, and the motion to amend the agenda adding Item 8C. Natural Disaster Notification Process passed unanimously.

A roll call vote was taken, and the motion to approve the amended agenda passed unanimously.

5. PUBLIC COMMENTS

There were no public comments.

6. APPROVAL OF PRIOR MINUTES – May 1, 2026

MOTION: A motion was made by Mr. Laughlin to approve the Minutes of May 1, 2026. Motion seconded by Mr. Price.

A roll call vote was taken, and the Minutes of May 1, 2026 were approved unanimously.

7. OLD BUSINESS

7A. FY2027 Budget

MOTION: A motion was made by Mr. Price to approve the Fiscal Year 2027 Budget as presented for submittal to the Alaska Energy Authority. Motion seconded by Mr. Bishop.

Mr. Laughlin noted the SVC Support Services Contract line item under the Intertie Administrative Costs. He requested a discussion as to why this maintenance contract is considered an administrative cost rather than being allocated by usage cost.

Mr. Price explained that it was included as a placeholder for the services contract. He noted that AEA has no preference if it is placed under Administrative or Operations and Maintenance (O&M) within the Budget.

Mr. Laughlin said that CEA's preference is to move the item to an O&M category, as it is based off usage.

Mr. Bishop commented that he would like to explore whether the usage is proportional and if the usage affects the entire Railbelt and Intertie participants relatively equally or if it is tied to the usage.

Mr. Laughlin provided CEA's perspective and noted that they do not serve any load north right now. This item looks like a maintenance agreement that would be based off of usage and appropriate for the participants that are using the Intertie. He noted that the item currently is under an administrative function that is not generally reserved for maintenance activities. Mr. Laughlin discussed whether the item is truly a placeholder, then perhaps it could be presented before the IMC when the contract is available to review and considered for approval. He discussed that as a generic line item and maintenance item under an administrative section look like an added cost for CEA. He does not understand why CEA is being asked to bear that cost.

Mr. Price explained the contract. The three SVCs are Teeland, Gold Hills, and Douglas. Unless negotiations occur for something different, this contract line item is currently structured as a fixed cost. The contract includes warranty support, technical support, spares, and maintenance. It is not tied to usage.

Mr. Bishop discussed that he is interested in learning more about the function of the contract. He asked the System Studies Subcommittee if it provides voltage regulation value to the Southcentral utilities in general, as opposed to only being necessary for transfers up the Intertie.

Mr. Price expressed his understanding is that the contract is a stability issue for the Intertie itself.

Mr. Bishop commented that he believes CEA's request is reasonable. Mr. Bishop requested analysis to support the information.

Chair Zellers asked Mr. Price if the different pieces that he discussed are disseminated by cost and if they could be spread throughout the budget. Mr. Price noted it is not impossible. As it is currently structured, the contract is a fixed fee. However, the contract needs to be renewed. The current cost is $550,000 per year. The expected cost for renewal with no changes is $750,000 per year. The users and the engineers, who must manage and work with GVEA on this contract, are not happy with the overall service. There is an ongoing discussion regarding the type of contract that will continue forward. The cost is therefore to be negotiated. The contract expires at the end of the year. Mr. Price explained that the placeholder amount is $100,000 because the price negotiations have not been finalized. He noted that it is conceivable that the contract could be separated by different aspects. The Intertie Operating Committee (IOC) will create a committee of engineers to negotiate the new contract and to discuss items such as what the contract should do and how the contract will be used.

Mr. Bishop expressed appreciation to the IOC for working on a more acceptable path.

Chair Zellers noted that it is good to know the contract expires at the end of the year. He is open to the will of the Body. He reminded members that there is a motion on the table to approve the budget as presented.

Mr. Price discussed that if the SVC warranty contract is moved to the O&M section, then it will trickle into the usage rate. If the SVC contract remains in the Administration section, then it affects the capacity charge. Mr. Price noted that the amount is a relatively small number in the budget. The finalized actual number will require a budget amendment. He commented that the line item could be moved at the time of the budget amendment.

Mr. Laughlin discussed his understanding that the contract includes the vendor providing field support if the SVCs go down. He noted that if the contract remains in the Administrative section, then CEA is paying 1/3 of the cost. Whereas, if the contract is moved to the Maintenance section, the payment is based on usage. Mr. Laughlin believes payment based on usage is appropriate, and his preference is to move the line item to the Maintenance section.

Mr. Bishop commented that he does not object to Mr. Laughlin's preference.

Chair Zellers indicated that he does not have an opinion one way or the other. He believes that the new contract should be itemized and placed in the appropriate places in the budget. That budget amendment is likely to occur in January.

MOTION: A motion was made by Mr. Laughlin to reallocate the SVC Support Services Contract item to the FERC 570 Maintenance of Station Equipment section of the FY2027 Budget. Motion seconded by Mr. Bishop.

A roll call vote was taken, and the motion to amend the Budget passed unanimously.

A roll call vote was taken on the motion to approve the FY2027 Budget as amended and passed unanimously.

8. NEW BUSINESS

8A. PSSE Model / Contract

MOTION: A motion was made by Mr. Laughlin to enter into Executive Session to discuss confidential financial matters, the immediate knowledge of which could have an adverse effect upon the finances of AEA, the Intertie, the IMC, or any of its members. Motion seconded by Mr. Bishop.

A roll call vote was taken, and the motion to enter into Executive Session passed unanimously.

i. **EXECUTIVE SESSION: 9:21 a.m. - (Bylaws Section 5.11.3) – To discuss confidential financial matters the immediate knowledge of which could have an adverse effect upon the finances of AEA, the Intertie, of the IMC, or any of its Members.**

The Committee reconvened its regular meeting at 9:57 a.m. Chair Zellers advised that the Committee did not make any decisions on the matters discussed while in executive session.

MOTION: A motion was made by Mr. Price that the IMC complete negotiations with Siemens for a new term contract to last five years, similar to what has been proposed, and final negotiations to be approved by all IMC members, and to include the RRC as a licensed sharing member. Motion seconded by Mr. Laughlin.

A roll call vote was taken, and the motion passed unanimously.

8B. Disaster Declaration for Structure 616

Chair Zellers discussed that Item 8B. relates to the Governor's disaster declaration for the avalanche that damaged Structure 616. Chair Zellers asked Mr. Bishop if GVEA or AEA is managing the situation. Mr. Bishop noted that GVEA and AEA are collaborating and attempting to recover the costs from the State. There were no other questions.

8C. Natural Disaster Notification Process

Chair Zellers requested Mr. Price to discuss Item 8C. Mr. Price commented that he does not remember when AEA received the first notification of the occurrence of the avalanche. He noted that the O&D members received an email regarding the Grandview Fire, and the first phone call regarding the fire was between Brad Janorschke, CEO Homer Electric Association, and Curtis Thayer, CEO AEA. Mr. Price indicated that he has heard subsequent conversations that some Executive Members did not receive advance notice but rather learned about the incident through the news. Mr. Price discussed that in hindsight, the Governor did not know about the damage to Structure 616 until after he issued the disaster declaration.

Mr. Price suggested that the natural disaster policy is either revitalized or established so that a notification procedure is followed to quickly inform the Governor so that the equipment can be supported promptly.

Chair Zellers agreed with Mr. Price's comments, and he believes the members should consider the options. He suggested the issue be placed as an agenda item for the next meeting. There were no objections, and no other comments or questions.

9. COMMITTEE REPORTS

9A. Budget vs. Actuals

Mark Ziesmer, AEA, indicated that the Budget to Actuals Report as of March 31, 2026, is included in the Member packet. He is available for questions. There were no comments or questions.

9B. IOC Report

Mike Miller, CEA, indicated that the IOC Report is included in the Member packet. He is available for questions. There were no comments or questions.

9C. Operator Report

Mr. Miller stated that the Operator Report is included in the Member packet. There were a fair number of events on the system over the last couple of months. He is available for questions. There were no comments or questions.

10. MEMBERS COMMENTS

Mr. Laughlin thanked everyone for their hard work on the Committee reports, and thanked AEA for their efforts on the PSSE Model Contract negotiations.

Mr. Bishop echoed Mr. Laughlin's comments.

Mr. Price expressed appreciation to the Members.

Chair Zellers echoed Mr. Laughlin's comments.

11. NEXT MEETING DATE – July 24, 2026

Chair Zellers stated that the next meeting date is July 24, 2026.

12. ADJOURNMENT

There being no further business of the IMC, the meeting adjourned at 10:04 a.m.

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Tony Zellers, Chair

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Bill Price, AEA Secretary

Alaska Energy Authority

AK Intertie Budget to Actual Revenues and Expenses

07/01/2025 to 05/31/2026

ALASKA ENERGY AUTHORITY
AK INTERTIE BUDGET TO ACTUAL REVENUE AND EXPENSES
FOR THE PERIOD 07/01/2025 THROUGH 05/31/2026

		FY26 Amended Budget	Amended Budget 07/01/2025 - 05/31/2026	Actuals	YTD Actuals as a % of Total Annual Budget	(Over) Under YTD Variance
	Revenue From Utilities					
	AKI-GVEA	2,593,498	2,363,752	2,378,647	92%	(14,895)
	AKI-CEA	379,452	363,702	363,702	96%	-
	AKI-MEA	1,198,215	1,114,831	1,197,948	100%	(83,117)
	Total Revenue From Utilities	**4,171,164**	**3,842,285**	**3,940,297**	**94%**	**(98,012)**
	Interest	-	-	56,455	0%	(56,455)
	Other	-	-	1,950	0%	(1,950)
	Total Revenues	**4,171,164**	**3,842,285**	**3,998,703**	**96%**	**(156,417)**
	Total Revenues	**4,171,164**	**3,842,285**	**3,998,703**	**96%**	**(156,417)**
56600	**Misc Transmission Expense**					
	Alaska Energy Authority					
	AK Intertie-Miscellaneous Studies as Needed	247,000	226,417	140,114	57%	86,303
	Alaska Energy Authority Total	247,000	226,417	140,114	57%	86,303
	Golden Valley Electric					
	AK Intertie-Private Line Telephone Service SCADA	85,000	77,917	33,479	39%	44,438
	Golden Valley Electric Total	85,000	77,917	33,479	39%	44,438
56601	**Weather Monitoring Batteries**					
	Alaska Energy Authority					
	AK Intertie-SLMS Support & Intertie Ground Patrol	175,000	160,417	53,944	31%	106,472
	Alaska Energy Authority Total	175,000	160,417	53,944	31%	106,472
56700	**Rents**					
	Alaska Energy Authority					
	AK Intertie-Alaska Railroad	1,000	917	1,000	100%	(83)
	Alaska Energy Authority Total	1,000	917	1,000	100%	(83)
	Matanuska Electric Association					
	AK Intertie-Talkeetna Storage	7,200	6,600	6,600	92%	-
	Matanuska Electric Association Total	7,200	6,600	6,600	92%	-
56900	**Maintenance of Structures**					
	Matanuska Electric Association					
	AK Intertie-Maintenance of Structures	100,000	91,667	-	0%	91,667
	AK Intertie-Insulator Replace (Tee to Douglas)	100,000	91,667	-	0%	91,667
	Matanuska Electric Association Total	200,000	183,333	-	0%	183,333
57000	**Maintenance of Station Equip**					
	Chugach Electric Association					
	AK Intertie-Teeland Substation	185,000	169,583	80,914	44%	88,669
	AK Intertie-Douglas Substation Communications	505,000	462,917	406,927	81%	55,990
	Chugach Electric Association Total	690,000	632,500	487,841	71%	144,659
	Golden Valley Electric					
	AK Intertie-GVEA SVC Project	-	-	1,865	0%	(1,865)
	AK Intertie-Healy, Cantwell, Goldhill	54,500	49,958	33,997	62%	15,961
	AK Intertie-SCADA Maint Healy, Cantwell, Goldhill	10,000	9,167	-	0%	9,167
	AK Intertie-HLSB Sync PT Replacement	50,000	45,833	18,672	37%	27,162
	AK Intertie-Replace Healy Substation Breaker	-	-	1,100	0%	(1,100)
	SVC Insulator Replacements - Healy and Gold hill	10,000	9,167	5,646	56%	3,520
	AK Intertie-Redesign Healy SVC 138 kV Interconnect	50,000	45,833	-	0%	45,833
	Golden Valley Electric Total	174,500	159,958	61,279	35%	98,679
	Matanuska Electric Association					
	AK Intertie-Douglas Substation	250,000	229,167	219,962	88%	9,205
	Matanuska Electric Association Total	250,000	229,167	219,962	88%	9,205
57100	**Maint of OH Lines**					
	Golden Valley Electric					
	AK Intertie-Northern Maintenance	103,000	94,417	73,347	71%	21,070

ALASKA ENERGY AUTHORITY
AK INTERTIE BUDGET TO ACTUAL REVENUE AND EXPENSES
FOR THE PERIOD 07/01/2025 THROUGH 05/31/2026

		FY26 Amended Budget	Amended Budget 07/01/2025 - 05/31/2026	Actuals	YTD Actuals as a % of Total Annual Budget	(Over) Under YTD Variance
	AK Intertie-Landing Pads	60,000	55,000	-	0%	55,000
	Golden Valley Electric Total	163,000	149,417	73,347	45%	76,070
	Matanuska Electric Association					
	AK Intertie-Special Patrols (Incl Foundation Insp)	50,000	45,833	-	0%	45,833
	AK Intertie-Southern Maint. (Incl Ground Insp)	125,000	114,583	10,891	9%	103,692
	AK Intertie-Equipment Repair & Replacement	100,000	91,667	-	0%	91,667
	Matanuska Electric Association Total	275,000	252,083	10,891	4%	241,192
57102	**Maint OH Lines-ROW Clearing**					
	Golden Valley Electric					
	AK Intertie-Northern ROW Clearing	600,000	550,000	364,030	61%	185,970
	AK Intertie-Repair Tower 616 Foundation	500,000	458,333	466,400	93%	(8,067)
	Golden Valley Electric Total	1,100,000	1,008,333	830,430	75%	177,903
	Matanuska Electric Association					
	AK Intertie-Southern ROW Clearing	175,000	160,417	40,286	23%	120,131
	AK Intertie-Southern ROW Remote Sensing	10,000	9,167	-	0%	9,167
	Matanuska Electric Association Total	185,000	169,583	40,286	22%	129,298
58306	**Misc Admin**					
	Alaska Energy Authority					
	AK Intertie-IMC Admin Cost (Audit, Meeting, Legal)	20,000	18,333	291,817	1459%	(273,484)
	Alaska Energy Authority Total	20,000	18,333	291,817	1459%	(273,484)
58401	**Insurance Premiums**					
	Alaska Energy Authority					
	AK Intertie-Insurance	27,000	24,750	26,521	98%	(1,771)
	Alaska Energy Authority Total	27,000	24,750	26,521	98%	(1,771)
	Matanuska Electric Association					
	AK Intertie-Insurance	18,000	16,500	-	0%	16,500
	Matanuska Electric Association Total	18,000	16,500	-	0%	16,500
Total	**Total Expense**	**3,617,700**	**3,316,225**	**2,277,512**	**63%**	**1,038,713**
	Total Operating Expenses	**3,617,700**	**3,316,225**	**2,277,512**	**63%**	**1,038,713**

71001	**Total Expense, Budget**					
	Alaska Energy Authority					
	Administrative Support Services	300,000	275,000	344,871	115%	(69,871)
	Alaska Energy Authority Total	300,000	275,000	344,871	115%	(69,871)
Total	**Total Expense**	**300,000**	**275,000**	**344,871**	**115%**	**(69,871)**
	Total AEA Administration Expenses	**300,000**	**275,000**	**344,871**	**115%**	**(69,871)**
	Total Expenses	**3,917,700**	**3,591,225**	**2,622,383**	**67%**	**968,842**
	Surplus (Shortage)	**253,464**	**251,060**	**1,376,320**	**543%**	**1,125,259**

Alaska Intertie Budget to Actuals Status Report for the Period 07/01/2025 through 05/31/2026

Budgeted Usage

MONTH	GVEA MWH	MEA MWH	CEA MWH	TOTAL MWH
Jul	2,846	2,194	-	5,040
Aug	5,188	2,276	-	7,464
Sep	2,177	2,143	-	4,320
Oct	6,861	2,045	-	8,906
Nov	8,868	2,158	-	11,026
Dec	8,868	2,436	-	11,304
Jan	9,537	2,446	-	11,983
Feb	504	2,224	-	2,728
Mar	838	2,365	-	3,203
Apr	4,853	2,180	-	7,033
May	4,853	2,299	-	7,152
Jun	6,192	1,957	-	8,149
TOTAL	61,585	26,723	-	88,308

Actual Usage to Date

MONTH	GVEA MWH	MEA MWH	CEA MWH	TOTAL MWH
Jul	2,181	3,879	-	6,060
Aug	3,421	2,297	-	5,718
Sep	5,069	2,098	-	7,167
Oct	7,752	1,914	-	9,666
Nov	10,979	2,170	-	13,149
Dec	6,242	2,554	-	8,796
Jan	3,021	2,675	-	5,696
Feb	2,018	2,292	-	4,310
Mar	8,250	2,666	-	10,916
Apr	4,141	2,222	-	6,363
May	2,750	2,404	-	5,154
Jun	-	-	-	-
TOTAL	55,824	27,171	-	82,995

PROJECTED ENERGY USAGE TO DATE (MWH)		80,159
Budgeted Operating Costs for the Period (based on budget)	$	3,316,225
Budgeted Usage Revenue for the Period (budgeted rate * projected usage)	$	2,770,295
Estimated Budgeted Energy Rate per MWH (based on budgeted costs and usage)	$	34.54
Annual Budgeted Energy Rate (Billed Rate) (based on minimum contract value)	**$**	**34.56**

ACTUAL ENERGY USAGE TO DATE (MWH)		82,995
Actual Operating Costs for the Period	$	2,277,512
Actual (Billed) Usage Revenue for the Period (budgeted rate * actual usage)	$	2,868,307
Projected Actual Energy Rate per MWH (based on actual costs and usage)	**$**	**22.91**

Intertie Management Committee Meeting
IOC Report
July 24, 2026

1) Intertie Operating Committee

   Douglas Comm: CEA reported continued progress on the new communications shelter build-out at Douglas (racks, batteries, DC rectifiers, and network monitoring equipment installed), with the tower contractor and Alaska Railroad coordinating on new feed lines so railroad equipment can transition into the new shelter and AEA microwave radios can connect to the RF system. Once installation nears completion, a walkthrough will be scheduled for AEA, MEA, the railroad, DPS, and Golden Valley representatives.

   The project is now expected to cost approximately $30,000-$50,000 against the FY2027 budget, while only about $10,000 was budgeted for this line item; Mike Miller will need to submit a budget revision to the IMC. Bill Murray (Chugach) is coordinating with Bill Price on the budget correction.

   a) Synchrophasor Project: GVEA reported positive progress: a near-final signable version of the EPG software/services contract, with all Golden Valley legal markups accepted by EPG without contention, has been posted to the IOC Teams folder and sent to project managers for final comments, requested back by July 14.

      The contract includes a preliminary schedule with an official kickoff the first week of August, though substantive project work is contractually gated until a data-sharing agreement is executed. With AEA's role removed from the EPG contract, GVEA expects the previously stalled utility data-sharing/NDA agreement (circulated back in February/March) to move more easily; Golden Valley legal is preparing an updated draft and asked project managers to prompt their legal teams to turn it around quickly.
   b) Snow Unloading Project: GVEA reported that GVEA purchasing is reopening the engineering-support RFP with the firm design-schedule deadline removed; proposers will instead be asked to propose their own schedules, with timing considered as part of the ranking criteria. This is intended to allow firms that could not meet the prior timeline, or that would prefer to propose 2027 work, to submit proposals.
   c) PSS/E Licensing: Bill Price (AEA) reviewed a draft framework, previously shared with the System Studies Subcommittee (SSS), for the license sharing agreement among the Railbelt entities (AEA, the RRC, and the four utilities). He distinguished this agreement from the separate software licensing agreement between AEA and Siemens/PTI, which AEA will not sign until it has written confirmation from all members that they are satisfied with its terms. Larry Jorgensen (HEA) stated that HEA is authorized to participate in IMC projects only up to a load-ratio-share basis, and that the proposed cost-sharing by seats approach places a disproportionate burden on HEA relative to that limit; HEA will not participate unless the allocation is changed to load ratio share.

2) System Studies Subcommittee
   a) IBR Study: Draft memo to the IMC has been reviewed. Comments are being incorporated prior to a final review by the IOC and routing to IMC.
   b) 230kV Upgrade Impact Study: Memo to the IMC is being drafted by GVEA
   c) Railbelt EMT Model: RFP development complete and RFP release is on hold dependent on IMC direction.
   d) Railbelt Governor tuning/coordination: Due to SSS resource availability and the other study initiatives in progress, this study is being postponed for the time being. (Dependent on FY 2027 budget and direction from the IMC.)

e) Southern Tie Stability & Losses Study: CEA currently developing an RFP for the engineering work.

Relay, Protection, & Control Subcommittee

a) No update

4) SCADA/Telecommunications Subcommittee

a) No update

5) Operations, Maintenance, and Scheduling Subcommittee

a) No update

TO: Alaska Intertie Management Committee

FROM: System Studies Subcommittee

THROUGH: Intertie Operating Committee

DATE: July 24, 2026

SUBJECT: Alaska Railbelt Inverter-Based Resources Integration Study

The Alaska Railbelt IBR Integration Study performed by Telos Energy, Inc. (Telos) examined how much higher levels of inverter-based resources (IBRs) - including solar, wind, battery storage, and some distributed generation - could affect reliability and stability across the interconnected Alaska Railbelt system serving CEA, GVEA, HEA, and MEA. Using Summer Peak, Summer Valley, and Winter Peak cases, the study modeled IBR-prioritized dispatch that raised IBR penetration to 68%, 97%, and 44% of Dispatched Generation MWs in the Summer Peak, Summer Valley, and Winter Peak, respectively, to test the grid under aggressive renewable integration. Currently, the Railbelt is at approximately 5% IBR penetration dependent on season.

The main finding is that higher IBR penetration increases sensitivity to both voltage and frequency disturbances. In steady-state analysis, the study identified contingency-driven thermal overloads that could be addressed through line or transformer upgrades, along with high-voltage conditions in the HEA area that would require added reactive support. In dynamic simulations, the system showed elevated rates of change of frequency (RoCoF) together with widespread voltage recovery issues under weaker-grid conditions. The study also found that lower Equivalent Short-Circuit Ratio with Dynamic Impedance Modeling (EqSCR with DZM) values correlated with dynamic voltage violations, with buses below about 4.0 more likely to experience voltage problems.

Based on the findings, Telos recommends a relative Rate of Change of Frequency (RoCoF) threshold of 1.25 Hz/s and an Equivalent Short-Circuit Ratio with Dynamic Impedance Modeling (EqSCR with DZM) value of approximately four to screen new interconnections for additional study. Telos also developed a voltage recovery criterion (attached) to assess both immediate and long-term fault recovery performance and recommends its adoption in future planning studies to help ensure acceptable system behavior. Additionally, Telos also provides several recommendations for generation interconnection requirements using reference from IEEE 2800.

Metric/Observation	Study Case (Grid Following)	Mitigation Case (Grid Forming + Synchronous)	Improvement
% of IBR Generation	44-97%	44-97%	
EqSCR with DZM P1 Average	2.7	4.0	Increased grid strength
Contingencies with P1 Voltage Violations	672	69	Improved voltage recovery
RoCoF Average RoCoF Maximum	2.0 Hz/s 3.8 Hz/s	1.25 Hz/s 2.0 Hz/s	Improved frequency stability
Oscillations Damping Ratio	<1%	>5%	Faster damping
Contingency with Numerical Instability	54	21	Improved model stability

Overall, the study demonstrates that at 44% IBR penetration, substantial system enhancements are required. These include increasing the deployment of grid-forming IBRs and performing EMT studies for new interconnections when the recommended screening criteria are not satisfied. The IOC requests that screening criteria be submitted to the RRC through the IMC and BPMC.

Chugach Electric Association, Inc.
5601 Electron Drive, P.O. Box 196300, Anchorage, Alaska 99519-6300 • (907) 563-7494 Fax (907) 562-0027 • (800) 478-7494
www.chugachelectric.com • info@chugachelectric.com

Dynamic Voltage Criteria

Voltage Type	Threshold (p.u.)	Duration	Purpose
Low Voltage	≥ 0.7 p.u.	Within 100 ms after fault cleared	Ensures immediate post-fault recovery to prevent voltage collapse or tripping during early recovery.
Low Voltage	≥ 0.8 p.u.	Cumulative 250 ms below threshold	Limits duration of short-term voltage sags and transient oscillations.
Low Voltage	≥ 0.92 p.u.	Within 10 seconds after fault cleared	Ensures steady-state voltage recovery; reactive power controls restore acceptable operating voltage.
High Voltage	≤ 1.10 p.u.	Within 100 ms after fault cleared	Prevents artificial post-fault voltage spikes due to simulation convergence issues.
High Voltage	≤ 1.05 p.u.	Cumulative 250 ms above threshold	Limits duration of high-voltage excursions; aligns with low-voltage duration limit for consistency.

Intertie Management Committee Meeting
Operator Report
July 24, 2026

1. Alaska Intertie usage report

a. MWh usage – Measured at Douglas Substation, YTD

	GVEA	MEA	Total
EO FY25	125,124	26,507	151,631
EO FY26	56,528	29,441	86,023
Delta – FY26 to FY 25	-55%	+11%	-43%

2. Alaska Intertie trips to report

There were no trips of the Alaska Intertie in the months of July.

3. IOC Quarterly Reliability Report

For generation trips or transmission line trips where the loss of load is known, the Railbelt-wide frequency response is calculated. The magnitude of the tripped power and the change in frequency from the pre-trip value to the peak or nadir are used to calculate the MW/0.1Hz value often known as 'Beta'. Chugach has calculated the Beta for several events and the table of the results is provided below.

Events without data for the MW magnitude of the trip were excluded, as were events that did not cause a frequency deviation greater than 0.2 Hz.

Event	Date	Time	MW Tripped	Pre-Trip Freq (Hz)	High /Low Freq (Hz)	Freq Resp (MW/0.1Hz)
Healy 2 Trip	7/12/2026	0:08:14	45.7	59.96	59.54	10.8