

CHUGACH ELECTRIC ASSOCIATION, INC. ANCHORAGE, ALASKA

REGULAR BOARD OF DIRECTORS'S MEETING

AGENDA

Rachel Morse, Chair Bettina Chastain, Vice Chair Harold Hollis, Treasurer James Henderson, Secretary Sam Cason, Director Mark Wiggin, Director Erin Whitney, Director

November 22, 2021

4:00 p.m.

Chugach Board Room

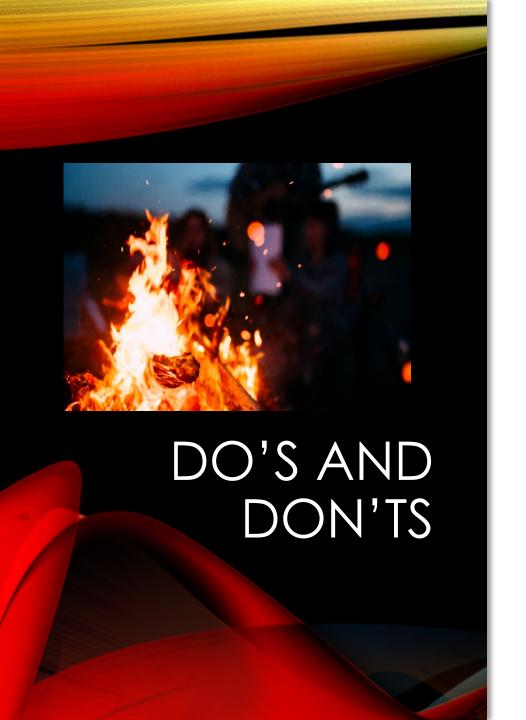
- I. CALL TO ORDER (4:00 p.m.)
 - A. Pledge of Allegiance
 - B. Roll Call
 - C. Safety Minute "Fire Prevention" (Freeman)
- II. APPROVAL OF THE AGENDA* (4:10 p.m.)
- III. PERSONS TO BE HEARD (4:15 p.m.)
 - A. Member Comments
- IV. CONSENT AGENDA (4:20 p.m.)
 - A. Board Calendar
 - B. Training and Conferences
 - 1. Winter School for Directors, December 10-14, 2021, Nashville, TN
 - 2. APA Legislative Conference, January 25-27, 2022, Juneau, AK
 - 3. NRECA PowerXchange, March 3-9, 2022, Nashville, TN
 - C. Minutes
 - 1. October 20, 2021, Regular Board of Directors' Meeting (Quezon)
 - D. Director Expenses (10/16/21 11/19/21)
 - E. Discounting for 2022 Capital Credit Payments (Miller)
 - F. Pre-Approval for FY2021 Audit Services (Highers)
 - G. Capital Credit Retirement (Highers)
- V. CEO REPORTS AND CORRESPONDENCE (4:30 p.m.)
 - A. 3rd Quarter 2021 Communications Update (Hasquet)



- B. 2021 Electrify Alaska Conference (Masten)
- C. Board Policy Scheduled Tasks/Reports (Board/Staff)
- VI. DIRECTOR REPORTS (4:45 p.m.)
 - A. Alaska Power Association (APA) Report
 - B. Renewable Energy Alaska Project (REAP) Report
 - C. Board Committee Reports (Audit & Finance, Operations & Governance)
 - D. Other Meeting Reports
- VII. UNFINISHED BUSINESS (none)
- VIII. NEW BUSINESS* (scheduled) (5:10 p.m.)
 - A. COVID-19 Public Health Threat* (Board)
 - B. Project Authorization East Cable Terminal Reactor Replacement* (Laughlin/Hickey)
 - IX. EXECUTIVE SESSION* (scheduled) (5:30 p.m.)
 - A. Update on Railbelt Reliability Council (RRC) Hickey
 - B. Review 2022-2026 Strategic Plan (Miller)
 - C. RCA Order U-21-059(7) (Clarkson/Miller)
 - D. Chief Executive Officer (CEO) Search (Board)
 - X. NEW BUSINESSS** (scheduled) (7:40 p.m.)
 - A. Chief Executive Officer (CEO) Search** (Board)
 - XI. DIRECTOR COMMENTS (7:45 p.m.)
- XII. ADJOURNMENT* (8:00 p.m.)

FIRE







Know the locations of all your smoke alarms and make sure they are working.



Make sure everyone in the household knows the location of all fire extinguishers and knows how to use the.



Clean grease from your grill after every use. Accumulated oil on your grill can lead to an unsafe fire hazard.



Do not ignite fires with accelerants such as gasoline, lighter fluid or alcohol. Most fire pit accidents occur because of how the fire is built.



Never leave a burning candle unattended



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- XII. ADJOURNMENT* (8:00 p.m.)

November 2021

November 2021

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December 2021

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Oct 31	Nov 1 9:30am Pre Meeting for Cooper Landing Visit - (Morse, Hollis, Wiggin) (BoardroomCR) - Connie Owens	2 12:00pm Chugach Electric Key Member Summit (Morse) (Teams 3:00pm SEPA - The Role of Microgrids in a Carbon Free 4:00pm SEPA - Standards Everywhere But	9:30am Teleconference w/JK Executive Strategies (Jill and Lauren - Morse 11:00am Electrify Alaska Debrief (Hollis/Whitney) (Kaladi Brothers Coffee (6861	3:00pm SEPA - Utility and Industry Trends: What's Going on with Transportation 3:30pm Trip to Cooper Landing (Morse, Wiggin, Hollis) (Leave Chugach at 3:30	5 11:30am Discuss Strategic Planning Agenda (Morse/Chastain) (StarLeaf Cloud) - Connie Owens	6
7	9:30am CEO Succession Planning Committee w/JK Strategies (Morse, Chastain, Hollis) (boardroomcr) - Connie Owens	9 8:30am BRU Gas Field Visit (Wiggin, Hollis, Morse, Whitney, Cason) (Ross Aviation (6160 Carl Brady Dr, Anchorage, AK 99502)) - Connie Owens	9:00am Audit and Finance Packet Review (Hollis) (BoardroomCR) - Connie Owens	11	12	13
14	9:30am Pre-Governance Committee Meeting (Morse, Cason, Whitney) (StarLeaf Cloud) - Connie Owens	16 11:00am Mtg w/Lee, Rachel and Bettina (StarLeaf Cloud) - Connie Owens 4:00pm Audit and Finance Committee (BoardroomCR) - Connie Owens	17	18	11:00am REAP Quarterly Board Meeting (Whitney/Wiggin) 11:00am Review Board Packet (Morse/Chastain) 2:30pm Special Board of Directors Meeting (Chugach	20
21	22 2:30pm Wiggin - Board Video 2:40pm Whitney - Board Video 2:50pm Cason - Board Video 3:00pm Chastain - 3:10pm Morse Board 3:20pm Hollis - Board 3:40pm Henderson - 4:00pm Regular	23	24	25 Thanksgiv	26 ing Holiday	27
28	29	9:30am APA Board Strategic Planning (Hollis/Henderson) (Lakefront Hotel) - CCBOD	Dec 1	2	3	4

December 2021

December 2021

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January 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Nov 28	29	30	Dec 1 8:30am APA Board Strategic Planning (Hollis/Henderson) (Lakefront Hotel) - CCBOD 4:00pm Governance Committee Meeting (BoardroomCR) - Connie Owens	2 8:30am APA Board of Directors Meeting (Hollis/Henderson) (Lakefront Hotel) - CCBOD 11:00am Audit and Finance Packet Review (Hollis) (boardroomCR) - Connie Owens	9:00am Strategic Planning Follow-up (Meghan Room) - CCBOD	4
5	4:00pm Audit Committee Meeting (Budget/CIP) (BoardroomCR) - Connie Owens	7	8 4:00pm Operations Committee Meeting (BoardroomCR) - Connie Owens	9	10 Directors Winter School (:	11 .2/10-12/14) (Nashville, TN)
12 Directors W	13 /inter School (12/10-12/14) (Nas 9:30am Review Board Packet (Morse/Chastain) (BoardroomCR) - Connie Owens	14 shville, TN)	4:00pm Regular Board of Directors Meeting (BoardroomCR) - Connie Owens	16	17	18
19	20	21	22	23 Christmas Ho	24 liday Observed	25 Christmas Day
26	27	28	29	New Year's Ho	31 liday Observed	Jan 1, 22

January 2022

January 2022

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February 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Dec 26	27	28	29	30	31	Jan 1, 22 New Years Day
2	3	4	5	6	7	8
9	10	11	12	13	9:30am Review Board Packet (Morse/Chastain) (BoardroomCR) - CCBOD	15
16	17	18	4:00pm Regular Board of Directors Meeting (Board Room CR) - Connie Owens	20	21	22
23	24	25 NRECA Director Training (Juneau, AK)	26 APA State Legislative Confer	27 ence (Juneau, AK) - Connie O	28	29
30	31	Feb 1	2	3	4	5

February 2022

February 2022

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March 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jan 30	31	Feb 1	2	9:00am Railbelt Issues Forum (Hollis/Henderson) (Microsoft Teams Meeting) - Crystal Enkvist	4	5
6	7	8	9 4:00pm Operations Committee Meeting (boardroomCR) - Connie Owens	10	11	12
13	14	15	16 4:00pm Board of Directors Meeting (BoardroomCR) - Connie Owens	17	9:30am Review Board Packet (Morse/Chastain) (boardroomcr) - Connie Owens	19
20	21	22	4:00pm Governance Committee Meeting (Boardroomcr) - Connie Owens	24	25	26
27	28	Mar 1	2	3	4	5

March 2022

March 2022

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April 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Feb 27	28	Mar 1	2	3	4	5
				NRECA Annual Mee	ting (March 3-9, 2022) (Nashvilli	e, TN) - Connie Owens
6	7	8	9	10	11	12
	ECA Annual Meeting (March 3-9,					
13	14	15	16	17	18 9:30am Review Board Packet (BoardroomCR) - Connie Owens	19
20	21	22	4:00pm Regular Board of Directors Meeting (BoardroomCR) - Connie Owens	24	25	26
27	28	29	4:00pm Audit and Finance Committee Meeting (BoardroomCR) - Connie Owens	31	Apr 1	2
CROD			<u> </u>			11/16/2021 9:24 AN

April 2022

April 2022

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May 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Mar 27	28	29	30	31	Apr 1	2
3	4	5	6	7	8	9
10	11	12	4:00pm Operations Committee Meeting (BoardroomCR) - Connie Owens	14	15	16
17	18	19	4:00pm Governance Committee Meeting (boardroomCR) - Connie Owens	21	9:30am Review Board Packet (Morse/Chastain) (BoardroomCR) - Connie Owens	23
24	25	26	4:00pm Regular Board of Directors Meeting (BoardroomCR) - Connie Owens	28	29	30

May 2022

May 2022

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June 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
May 1	2 Legislative Conference (5/1-5/3) (V	3 Vashington DC)	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18 4:00pm Audit and Finance Committee Meeting (BoardroomCR) - Connie Owens	19	9:30am Review Board Packet (Morse/Chastain) (boardroomCR) - Connie Owens 3:00pm Annual Meeting (ChangePoint) - Connie Owens	21
22	23	24	4:00pm Regular Board of Directors Meeting (BoardroomCR) - Connie Owens	26	27	28
29	30 Memorial Day - Connie Owens	31	Jun 1	2	3	4

June 2022

June 2022

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July 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
May 29	30	31	Jun 1	2	3	4
5	6	7 APA Federal Legisla	8 4:00pm Operations Committee Meeting	9 OC) - Connie Owens	10	11
12	13	14	15 4:00pm Governance Committee Meeting	16	9:30am Review Board Packet w/Chair	18
19	20	21	4:00pm Regular Board of Directors Meeting	23	24	25
26	27	28	29	30	Jul 1	11/16/2021 8:24 AM

July 2022

July 2022

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August 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jun 26	27	28	29	30	Jul 1	2
3	4 Independence Day Holiday	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	9:30am Review Board Packet w/Chair	23
24	25	26	4:00pm Regular Board of Directors Meeting	28	29	30
31	Aug 1	2	3	4	5	6

August 2022

August 2022

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September 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jul 31	Aug 1	2	3	4	5	6
7	8	9	4:00pm Operations Committee Meeting (BoardroomCR)	11	12	13
14	15	16	4:00pm Audit and Finance Committee Meeting (BoardRoomCR) - Connie Owens	18	19	20
21	22	23	24 APA Annual Meeting (8/	25 23-8/26) (Ketchikan, AK)	26	27
28	9:30am Review Board Packet (LDT's Office)	30	4:00pm Regular Board of Directors Meeting (BoardroomCR)	Sep 1	2	3

September 2022

September 2022

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October 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Aug 28	29	30	31	Sep 1	2	3
4	5 Labor Day	6	7	8	9	10
11	12	13	14 4:00pm Governance Committee Meeting	15	9:30am Review Board Packet w/Chair	17
18	19	20	21 4:00pm Regular Board of Directors Meeting	22 ative: Strategic Planning (9/21-	23	24
25	26	27	28 Region IX Meeting (Portland, OF	29	30	Oct 1

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October 2022

October 2022

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November 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Sep 25	26	27	28	29	30	Oct 1
2	3	4	5	6	7	8
9	10	11	12 4:00pm Operations Committee Meeting	13	14	15
16	17	18	19	20	21 9:30am Review Board Packet	22
23	24	25	26 4:00pm Regular Board of Directors Meeting	27	28	29
30	31	Nov 1	2	3	4	5

November 2022

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December 2022

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Oct 30	31	Nov 1	2	3	4	5
6	7	8	9 4:00pm Audit and Finance Committee (Budget and CIP) (BoardroomCR) - Connie Owens	10	11	12
13	14	15	4:00pm Audit and Finance Committee Meeting (BoardroomCR) - Connie Owens	17	9:30am Review Board Packet	19
20	21 4:00pm Regular Board of Directors Meeting	22	23	24 Thanksgivi	25 ng Holiday	26
27	28	29	4:00pm Governance Committee Meeting	Dec 1	2	3

December 2022

December 2022

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January 2023

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Nov 27	28	29	30	Dec 1	2	3
4	5	6	7 APA Open House and Decen 4:00pm Operations Committee Meeting	8 nber Meeting Series (Details t	9:30am Review Board of Directors Packet	10
11	12	13	4:00pm Regular Board of Directors Meeting	15	16	17
18	19	20	21	22	23 Christmas Eve (Holiday Observe)	24 Christmas Eve
25 Christmas Day	26 Christmas Day (Holiday Observed)	27	28	29	30 New Year's Eve (Holiday Observed)	31 New Years Eve

Winter School for Directors

Nashville, TN | December 10 - 14, 2021

Ensuring that board leaders develop the knowledge and skills required to meet the challenges of today's increasingly complex utility marketplace.

REGISTER

JOIN US

2021 Winter School for Directors

As boards are challenged to address multiple large-scale issues, NRECA's Winter School for Directors is designed to ensure that board leaders develop the knowledge and skills required to meet these challenges successfully.

To help ensure that board leaders develop the knowledge and skills required to meet the challenges of today's increasingly complex utility marketplace, NRECA offers a variety courses at Winter School for Directors.

This five-day program offers co-op directors:

- The essential knowledge and skills necessary to succeed on the board
- All required courses to earn the Credentialed Cooperative Director (CCD) certificate

- The opportunity to advance beyond the CCD level toward the Board Leadership Certificate (BLC)
- Earn continuing education credits that can be applied toward maintaining their Director Gold credential.

Also of Interest

- Summer School for Directors (<u>East</u> | <u>West</u>)
- Director Certificate Programs

Looking to earn credit?

Earn your Credentialed Cooperative Director (CCD) certificate or your Board Leadership Certificate (BLC). If you've already earned your CCD and BLC credentials, you can earn the credits you need to achieve or maintain Director Gold status.

Schedule

Subject to change.

ALL DAYS FRI. 12/10 SAT. 12/11 SUN. 12/12 MON. 12/13 TUE. 12/14

FRI. 12/10

8:00am - 4:00pm 901.1 Rules and Procedures for Effective Board Meetings

• 8:00am - 4:00pm 905.1 Assessing Governance: Taking a Continuous Improvement Approach to Governing Your Co-op

0	8:00am - 4:00pm	955.1 Your Board's Culture: Its Impact on Effectiveness
0	8:00am - 4:00pm	935.1 Appraising and Compensating the CEO
0	8:00am - 4:00pm	975.1 Capital Credits Issues and Decisions
0	8:00am - 4:00pm	2600 Director Duties and Liabilities

SAT. 12/11

0	8:00am - 4:00pm	971.1 Governance Challenges of the Evolving Distribution Cooperative
0	8:00am - 4:00pm	974.1 Rate Making Strategies & Policy Decisions for Electric Co-op Boards
0	8:00am - 4:00pm	2620 Board Operations and Process
0	8:00am - 4:00pm	913.1 Cooperative Fundamentals, Legacy, and Economic Impact
0	8:00am - 4:00pm	953.1 Improving Board Decision Making Quality
0	8:00am - 4:00pm	943.1 Conversation Skills Outside the Boardroom
0	8:00am - 4:00pm	903.1 The Role of the Board Chair in Conducting Effective Meetings

SUN. 12/12

0	8:00am - 4:00pm	956.1 Crucial Conversations in The Boardroom
0	8:00am - 4:00pm	2640 Financial Decision Making
0	8:00am - 4:00pm	961.1 The Evolution of Electric Cooperative Power Supply
0	8:00am - 4:00pm	927.1 Cybersecurity: The Board's Oversight Role - NEW!
0	8:00am - 4:00pm	951.1 Developing Effective Boardroom Decision-Making
0	8:00am - 4:00pm	925.1 Co-op Bylaws: Guiding Principles & Current Issues

MON. 12/13

♦ 8:00am - 4:00pm 963.1 Strategic Technologies and Their Impact on The Cooperative

◆ 8:00am - 4:00pm	977.1 Equity Management and Boardroom Decision Making
● 8:00am - 4:00pm	2610 Understanding the Electric Business
● 8:00am - 4:00pm	952.1 Increasing Influence and Building Board Consensus - NEW!
• 8:00am - 4:00pm	957.1 How to Evaluate and Improve Board Performance
• 8:00am - 4:00pm	919.1 Cooperative Structure: A Strategic Advantage
● 8:00am - 4:00pm	958.1 Succession Planning: Developing the Purpose-Driven Organization
TUE. 12/14	
• 8:00am - 4:00pm	929.1 Current Issues in Policy Development
● 8:00am - 4:00pm	921.1 Risk Oversight: The Board's Role in Risk Management

930.1 Ethics and Governance: Implementing the New

964.1 Communicating the New Energy Landscape

Save the Date!

8:00am - 4:00pm

3:00am - 4:00pm

3:00am - 4:00pm

ecember 10 - 4, 2021



2630 Strategic Planning

Accountability

Register by December 10, 2021

REGISTER

View My Co-op's Registrants

Hotel & Travel

HOTEL

Gaylord Opryland Resort and Convention Center

2800 Opryland Dr. Nashville, TN 37214 (615) 889-1000

♣ For reservations call 877-491-7397

RESERVE BY

11/11/21

To guarantee event rate

RATE

\$219

USD/Night + taxes

воок now

Additional Hotel Information >

ABOUT NASHVILLE, TN

Known as "Music City" for its legendary country music venues, Nashville is the capital of Tennessee and home to Vanderbilt University.

View Airline and Travel Discounts →

Things to do in Nashville 🗷

AIRPORT(S)

BNA 8mi from event

Additional Travel Information >

Questions about the Program?

Brianne McIntyre
703-907-5619
Brianne.McIntyre@nreca.coop

Questions about Certification/Continuing Education?

Angie Hylton
703-907-5656
Angie.Hylton@nreca.coop

Questions about Registration?

Accounts Receivable Department 703-907-6875
AccountsReceivable@nreca.coop

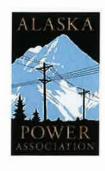
Questions about Anything Else?

Member Contact Center
1-877-766-3226
member-support@cooperative.com

Cancellation and Refund Policy→

Photography/Image Agreement →

Conferences, Meetings & Training Policies \rightarrow



Alaska Power Association 2022 Legislative Conference

January 26- January 27, 2022 Centennial Hall, Juneau, AK

Agenda

	Tuesda	av, Janua	rv 25	.2022
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Early registration (Location TBD) 4:00 p.m. - 5:30 p.m.

Wednesday, January 26, 2022

Breakfast (Centennial Hall) 7:30 a.m. - 8:30 a.m.

Federal legislative briefings 8:00 a.m.

Rep. Don Young (via teleconference) Sen. Lisa Murkowski (video address) Sen. Dan Sullivan (video address)

APA Legislative Briefing 8:30 a.m.

Crystal Enkvist, Executive Director, and Larry Markley, APA lobbyist Henry Strub, Chair, AK CARE Committee

Legislator Panel 9:00 a.m. - 10:00 a.m.

Break 10:00 a.m. - 10:15 a.m.

Administration Panel 10:15 a.m. - 11:15 a.m.

Break 11:15 a.m. - 11:30 a.m.

Lunch 11:30 a.m. - 1:00 p.m.

Hill visits 1:00 p.m. - 5:30 p.m.

APA Legislative Reception (Event to be determined) 5:30 p.m. - 7:30 p.m.

Thursday, January 27, 2022

Breakfast (Centennial Hall) 7:30 a.m. - 8:00 a.m.

Speaker: 8:00 a.m. - 8:30 a.m.

Legislator Panel 8:30 a.m. - 9:30 a.m.

Attendees are asked to please exit the room during the break so it may be rearranged for the APA Board of Directors meeting.

APA Board of Directors meeting (Centennial Hall)

10:30 a.m. - 12:00 p.m.

*Agenda subject to change

NRECA PowerXchange

Nashville, TN | March 4 - 9, 2022

NRECA's annual meeting of members—where insights, ideas and connections converge.

MEET US IN MUSIC CITY!

Empowering America's Electric Cooperatives

Join us for the largest gathering of electric cooperative leaders, designed to embrace the challenges of our ever-changing industry and cultivate future-focused thinkers.

We look forward to seeing you in Nashville at NRECA's first *in-person** annual meeting of members under its new name and renewed mission: **PowerXchange** (March 6-9, 2022; pre-meeting director education March 4-6).

Through general sessions featuring nationally renowned leaders, educational breakout sessions and interactive learning sessions, PowerXchange is THE place where cooperative leaders can come together to share ideas, strategies and best practices while casting their vote on future-focused issues.

PowerXchange is about:

- What's impacting costs and efficiency now.
- Weighing in on industry initiatives that will shape the energy landscape for years to come.

- Cultivating forward-thinking strategy with sessions centered around future issues.
- Exchanging ideas, improving upon them, and finding innovative solutions to their day-to-day challenges.

Want to learn more about PowerXchange? Check out our FAQs.

*An online option will be available for those unable to travel. More details coming soon.

Next Generation Leaders Experience

NRECA is committed to working with our member co-ops to attract and retain top talen. This, of course, includes the future leaders of America's electric cooperatives. The Next Generation Leaders Experience develops emerging coopertive leaders through special NRECA PowerXchange programming designed to build their co-op knowledge, extend their professional network and develop self-awareness that will help as they grow and contribute as co-op leaders.

The Next Generation Leaders Experience will be offered as part of the 2022 NRECA PowerXchange registration.

Learn more

Also of Interest

Resolutions Process

Your Safety Is Our Focus

We value the health and safety of our members, staff and all other event participants; therefore, our focus is to create an environment that provides practical safeguards for every person involved. By registering for this event, you are agreeing to comply with NRECA's Event Code of Conduct & Policies, including health and safety protocols, as a condition

of attendance.

Please review the current CDC guidance for this event location prior to traveling.

Schedule

Subject to change.

ALL DAYS FRI. 03/04 SAT. 03/05 SUN. 03/06 MON. 03/07 TUE. 03/08 WI

4

FRI. 03/04

8:00am - 4:00pm Pre-Meeting Education

SAT. 03/05

• 8:00am - 4:00pm Pre-Meeting Education

• 8:00am - 5:00pm Community Service Project (Sponsored by Touchstone Energy Cooperative)



SUN. 03/06

• 8:00am - 4:00pm Pre-Meeting Education

9:00am - 6:00pm NRECA Registration

◆ 10:00am - 11:30am SEDC Member Enrichment Meeting

11:30am - 1:30pm NISC Annual Meeting & Luncheon

- 1, - 1,		THE SALE OF CHARLES
0	2:00pm - 3:30pm	NRTC Annual Meeting
0	4:00pm - 5:00pm	Proposed Resolutions Forum
0	5:30pm - 7:30pm	Welcome Reception (Sponsored by CoBank)
MOI	N. 03/07	
0	7:00am - 7:00pm	NRECA Registration
0	9:00am - 10:30am	General Session 1
0	11:00am - 12:00pm	Breakout Sessions
0	12:00pm - 2:00pm	International Lunch
0	2:00pm - 3:00pm	Breakout Sessions
0	3:30pm - 4:30pm	Breakout Sessions
0	4:30pm - 7:00pm	TechAdvantage® Expo Grand Opening Reception
TUE	E. 03/08	
0	7:00am - 8:30am	ACRE Breakfast
0	7:00am - 7:00pm	NRECA Registration
0	9:00am - 10:30am	General Session 2
0	11:00am - 12:00pm	NRECA Business Meeting
0	11:30am - 5:00pm	TechAdvantage® Expo Open
0	1:15pm - 2:15pm	Breakout Sessions
0	2:30pm - 3:30pm	Breakout Sessions

Entertainment Night (Doors open at 7 p.m.)

• 7:30pm - 9:30pm

Doors open at 7 p.m.

WED. 03/09

0	7:00am - 1:00pm	NRECA Registration
0	9:00am - 10:30am	General Session 3
0	9:00am - 1:00pm	TechAdvantage® Expo Open

ees

n-person Early Bird Registration	\$650
n-person Regular Registration	\$700
n-person One Day Registration	\$350
n-person Spouse Registration	\$75
n-person Next Generation Leaders Experience Early Registration	\$650
n-person Next Generation Leaders Experience Early Registration Online Registration	\$650 \$495
	·

Save the Dates!



Hotel & Travel

MEETING LOCATION

Music City Center

201 Rep. John Lewis Way South Nashville, TN 37203 615-401-1400

ABOUT MUSIC CITY CENTER

ABOUT NASHVILLE, TN

Nashville—where music is inspired, created, recorded and performed. Music City is ready to be explored. Experience more music, food and fashing that ever before.

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AIRPORT(S)

BNA
15mi from event

Additional Travel Information >

FUTURE POWERXCHANGE DATES

2023	Nashville	March 3-8
2024	San Antonio	March 1-March 6
2025	Atlanta	Feb. 28-March 5
2026	Nashville	March 6-11

Questions about the program?

Kristen Wheeler 703-907-5695

kristen.wheeler@nreca.coop

Questions about NRECA member resolutions and business meeting?

Melissa DePuy

703-907-5788

Melissa.DePuy@nreca.coop

Questions about registration?

Accounts Receivable

703-907-6875

accountsreceivable@nreca.coop

Questions about sponsorship opportunities?

Stephanie Harbrecht

703-907-5830

Stephanie.Harbrecht@nreca.coop

Photography/Image Agreement →

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

October 20, 2021 Wednesday 4:00 p.m.

REGULAR BOARD OF DIRECTORS' MEETING

Recording Secretary: Arden Quezon

I. CALL TO ORDER

Acting Chair Hollis called the Regular Board of Directors' Meeting to order at 4:01 p.m. in the boardroom of Chugach Electric Association, Inc., 5601 Electron Drive, Anchorage, Alaska.

A. Pledge of Allegiance

Chair Morse led the Board in the Pledge of Allegiance.

B. Roll Call

Board Members Present:

Rachel Morse, Chair (via teleconference)

Bettina Chastain, Vice Chair (via teleconference)

James Henderson, Secretary

Harold Hollis, Treasurer

Sam Cason, Director

Mark Wiggin, Director (via teleconference)

Erin Whitney, Director

Guests and Staff Attendance:

Present:

Lee ThibertMatthew ClarksonMarty FreemanBrian HickeySherri HighersTeresa Kurka

Via Teleconference:

Connie Owens Jonas Banta, The Jenny Marie Stryker, The

Mark Fouts Alaska Center Alaska Center

Crystal Enkvist, APA Shaina Kilcoyne, Solid Rachel Christensen, The

Kyla Kosednar, The Waste Services Alaska Center

Alaska Center

C. Minute

Marty Freeman, Senior Manager HSE discussed "Know What to do during an Emergency."

II. APPROVAL OF AGENDA

Director Cason moved and Director Whitney seconded the motion to approve the agenda. The motion passed unanimously.

III. PERSONS TO BE HEARD

None.

IV. CONSENT AGENDA

- A. Board Calendar
- *B. Training and Conferences*
 - 1. APA Legislative Conference, January 25-27, 2022, Juneau, AK
 - 2. NRECA Annual Meeting, March 3-9, 2022, Nashville, TN
- C. Minutes
 - 1. September 22-23, 2021, Regular Board of Directors' Meeting (Quezon)
- D. Director Expenses (9/18/21 10/15/21)

Director Cason moved and Director Henderson seconded the motion to approve the consent agenda. The motion passed unanimously.

V. EXECUTIVE SESSION

- A. CEO Recruitment Services Board Discussion
- B. Board Attendance Board Discussion

At 4:08 p.m., Director Cason moved and Director Whitney seconded the motion that pursuant to Alaska Statute 10.25.175 (c)(1), and (4) the Board of Directors go into executive session to discuss: 1) financial matters, the immediate knowledge of which would clearly have an adverse effect on the finances of the cooperative; and, 2) personnel matters. The motion passed unanimously.

The meeting reconvened in open session at 5:44 p.m.

VI. NEW BUSINESS

A. CEO Recruitment Services (Board)

Director Cason moved and Director Whitney seconded the motion that the Board of Directors approve that the Senior Manager of Risk Management and Administrative services negotiate, finalize and prepare for execution an agreement for the engagement of JK Executive Strategies, LLC to advise and assist in the CEO recruitment and selection as discussed in Executive Session.

The motion passed with 6 to 1 vote, with Director Henderson voting no.

B. COVID-19 Public Health Threat (Board)

Director Whitney moved and Director Cason seconded the motion that pursuant to Article V, Section 7, of the Association's Bylaws, the Board of Directors declare an

emergency exists that dictates in-person attendance not be required at the November 22, 2021, regular meeting of the Board of Directors. This declaration shall be revisited and extended by the Board of Directors as necessary at the November 22, 2021, regular meeting. The motion passed unanimously.

VII. CEO REPORTS AND CORRESPONDENCE

- A. August 2021 Financial Statements and Variance Report (Highers)
 Sherri Highers, Chief Financial Officer (CFO), Executive Vice President, Finance and Administration, discussed August 2021 Financial Statements and Variance Report and responded to questions from the Board.
 Lee Thibert, CEO and Brian Hickey, Chief Operating Officer (COO) also responded to questions from the Board.
- B. 3rd Quarter 2021 Safety Report (Freeman/Clarkson)
 Marty Freeman, Senior Manager HSE, gave an update on the 3rd Quarter 2021 Safety
 Report and responded to questions from the Board.
- C. Board Policy Scheduled Tasks/Reports (Board/Staff)
 Lee Thibert, Chief Executive Officer (CEO), discussed the Board Policy Scheduled Tasks/Reports.

VIII. DIRECTOR REPORTS

- A. Alaska Power Association (APA) Report Director Hollis introduced Crystal Enkvist, Executive Director, APA and she provided an update on APA activities, upcoming events and responded to questions from the Board.
- B. Alaska Railbelt Cooperative Transmission & Electric Company (ARCTEC) Report Director Henderson and Lee Thibert, CEO stated that there was no meeting to report on and that discussion is scheduled for Executive Session.
- C. Renewable Energy Alaska Project (REAP) Report Directors Whitney stated that there was no meeting.
- D. Board Committee Reports (Audit and Finance, Operations & Governance) Director Hollis stated that there was no meeting to report on and that the next meeting is scheduled for November 16, 2021.
 - Director Chastain reported on the October 13, 2021, Operations Committee meeting and stated that the next meeting is scheduled for December.
 - Director Cason stated that there was no Governance Committee meeting to report on and that the next meeting is scheduled for December 1, 2021.

E. Other Meeting Reports None.

IX. UNFINISHED

None.

X. EXECUTIVE SESSION

- A. Update on Railbelt Reliability Council (RRC)
- B. ARCTEC Discussion

At 6:25 p.m., Director Whitney moved and Director Cason seconded the motion that pursuant to Alaska Statute 10.25.175 (c)(1) and (3) the Board of Directors go into executive session to: 1) discuss and receive reports regarding financial matters, the immediate knowledge of which would clearly have an adverse effect on the finances of the cooperative; and, 2) discuss with its attorneys legal matters, the immediate knowledge of which could have an adverse effect on the legal position of the cooperative. The motion passed unanimously.

The meeting reconvened in open session at 7:38 p.m.

Director Hollis stated that Director Whitney was delegated to sign Directors Chastain, Morse and Wiggin's expense reports. No objections were made.

XI. NEW BUSINESS

None.

XII. DIRECTOR COMMENTS

Director Comments were made at this time.

XIII. ADJOURNMENT

At 7:50 p.m., Director Cason moved and Director Henderson seconded the motion to adjourn. The motion passed unanimously.

Director Wiggin was not present at the time of the vote.

James Henderson, Secretary Date Approved: November 22, 2021

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

$\frac{\textbf{REGULAR BOARD OF DIRECTORS' MEETING}}{\textbf{AGENDA ITEM SUMMARY}}$

November 22, 2021

ACTION REQUIRED AGEN	NDA ITEM NO. IV.D.
Information Only X Motion Resolution Executive Session Other	
TOPIC	
Director Expenses	
DISCUSSION	
The Directors' expenses will be submitted for approval at the board meet	ting.
MOTION	
(Consent Agenda)	

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

REGULAR BOARD OF DIRECTORS' MEETING AGENDA ITEM SUMMARY

November 22, 2021

Information Only	
Motion	
Resolution	
Executive Session	
Other	

TOPIC

Discounting for 2022 Capital Credit Payments

DISCUSSION

Chugach Electric Association, Inc. (Chugach) Board Policy 304 provides for the retirement of capital credits on a discounted basis for estate payments and former members that are no longer receiving electric service on the Chugach distribution system. Section II.D. of Board Policy 304 states:

Special / Discounted Capital Credits Retirements: The Association may retire capital credits on a discounted basis as approved by the Board to reflect the net present value of the capital credits. Approval of special or discounted capital credit retirements may reduce allowable amounts in a general retirement to the extent required to comply with Indenture and debt agreements. Amounts approved for discounting will be either (1) estate payments or (2) former members that are no longer on the Association's distribution system.

The attached Board resolution authorizes the retirement of capital credits in calendar-year 2022 in an amount not-to-exceed \$350,000 on a discounted basis for estate payments and former members that are no longer on Chugach's distribution system. The \$350,000 amount is \$50,000 higher than 2021 authorized levels to reflect the increased member base resulting from Chugach's 2020 acquisition of the Municipality of Anchorage d/b/a Municipal Light & Power. The early retirement of capital credits in an amount not-to-exceed \$350,000 for calendar-year 2022 will not adversely impact the Association's financial condition.

Chugach's Bylaws require Board of Directors approval for the retirement of capital credits. If the funding and approval of payments is preauthorized, Chugach can process the requests without having to seek Board approval for each specific retirement processed.

At the November 16, 2021, Audit and Finance Committee meeting, the Committee recommended the Board of Directors approve the attached resolution authorizing early (discounted) capital credit payments in calendar-year 2022 for estate payments and former members that are no longer on Chugach's distribution system in an amount not-to-exceed \$350,000.

MOTION

(Consent Agenda)



RESOLUTION

Discounting for 2022 Capital Credit Payments

WHEREAS, Chugach Electric Association, Inc. (Chugach) Board Policy 304 provides for the retirement of capital credits on a discounted basis for estate payments and to former members who are no longer receiving electric service on Chugach's distribution system;

WHEREAS, Chugach received a Private Letter Ruling from the Internal Revenue Service stating that the discounting of capital credits as provided for under Board Policy 304 does not jeopardize Chugach's tax-exempt status;

WHEREAS, Chugach's Bylaws require Board of Directors approval of capital credit retirements;

WHEREAS, amounts available for discounted capital credit payments can be increased or decreased at the discretion of the Chugach Board of Directors;

WHEREAS, the discounting of capital credit payments for estates and former members who are no longer receiving electric service on Chugach's distribution system in an amount of up to \$350,000 in 2022 will not adversely impact the Association's financial condition;

WHEREAS, estate and other early payments will be made on a frequent basis throughout 2022 and Board approval of each specific early retirement would cause delay in issuing the payments; and,

WHEREAS, the Board of Directors has determined that retirements under this early payment plan in 2022 will not impair the financial condition of the Association.

NOW THEREFORE, BE IT RESOLVED, Chugach shall make early payments of capital credits for estate payments and former members who request early retirements in the actual discounted amount, not-to-exceed \$350,000 in cash payments for calendar-year 2022.

BE IT FURTHER RESOLVED, any payments under the plan for 2022 will be at the present value based on a discount rate derived using the NRUCFC 10-year long-term fixed borrowing rate plus of 3%.

BE IT FURTHER RESOLVED, before receiving a payment under this plan, any member with an outstanding electric debt balance will be required to first pay the outstanding debt or acknowledge the capital credit payment will be reduced by the amount necessary to satisfy the outstanding debt.

CERTIFICATION

I, James Henderson, do hereby certify that I am the Secretary of Chugach Electric Association, Inc., an electric non-profit cooperative membership corporation organized and existing under the laws of the State of Alaska: that the foregoing is a complete and correct copy of a resolution adopted at a meeting of the Board of Directors of this corporation, duly and properly called and held on the 22">22">21 that a quorum was present at the meeting; that the resolution is set forth in the minutes of the meeting and has not been rescinded or modified.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of this corporation the $\frac{22^{nd}}{100}$ day of November, 2021.

Secretary

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

REGULAR BOARD OF DIRECTORS' MEETING AGENDA ITEM SUMMARY

November 22, 2021

ACTION REQUIRED	AGENDA ITEM NO. IV.F.
Information Only X Motion Resolution Executive Session Other	
TOPIC	

D 4

Pre-Approval for FY2021 Audit Services

DISCUSSION

At the November 16, 2021, Audit and Finance Committee Meeting, the Committee recommended the Board of Directors approve the retention of KPMG for audit services for FY2021 in accordance with the fees outlined in KPMG's contract, due to expire April 15, 2023. This includes a year-end audit of Chugach's financial statements and supplemental schedules, all of which are included in Chugach's annual financial report. In addition, KPMG issues a debt compliance letter and a report on our FERC-1 filing and, if applicable, also performs state and/or federal single audits.

MOTION

(Consent Agenda)

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

$\frac{\textbf{REGULAR BOARD OF DIRECTORS' MEETING}}{\textbf{AGENDA ITEM SUMMARY}}$

November 22, 2021

ACTION REQUIRED		AGENDA ITEM NO. IV.G.		
X X	Information Only Motion Resolution Executive Session Other			
TOPIC	<u>.</u>			
Capital	Credit Retirement			
DISCU	<u>ISSION</u>			
moved		eeting the Committee reviewed and al credit retirement as discussed in		
моті	ON			

(Consent Agenda)



RESOLUTION

Wholesale Capital Credit Retirement and Payment

WHEREAS, the Board of Directors desires to proceed with a wholesale capital credit retirement and payment; and

WHEREAS, the Board of Directors has determined that this retirement and payment will not impair the financial condition of the Association;

NOW, THEREFORE BE IT RESOLVED, Chugach establishes the amount of the capital credit retirement and payment to MEA and SES at \$2,198,440, which will retire the balance of MEA and SES's capital credits for 2012, and approximately 79.5% of their capital credits for 2013, which totals \$2,088,248 and \$110,192 respectively.

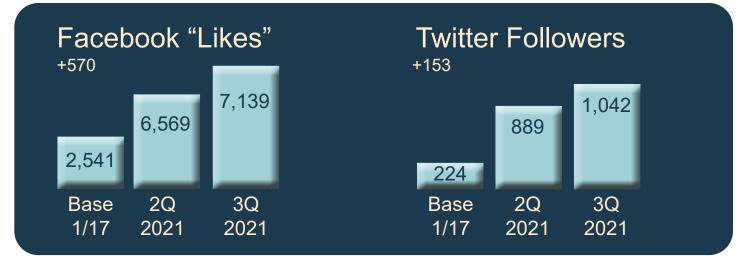
CERTIFICATION

I, James Henderson, do hereby certify that I am the Secretary of Chugach Electric Association, Inc., an electric non-profit cooperative membership corporation organized and existing under the laws of the State of Alaska: that the foregoing is a complete and correct copy of a resolution adopted at a meeting of the Board of Directors of this corporation, duly and properly called and held on the 22nd day of November, 2021; that a quorum was present at the meeting; that the resolution is set forth in the minutes of the meeting and has not been rescinded or modified.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of this corporation the <u>22nd</u> day of <u>November</u>, 2021.

Secretary	

CHUGACH Communications Update - 3Q 2021



Facebook Highlights

- Snow storm pictures
- Outage tips
- Snow forecast warning
- Employee Picnic video

Website updates

- CEO announces retirement
- Linemen praised for helping after accident
- Energy Secretary visit
- EV charging station program
- Employee Volunteer Program
- Construction projects
- Committee recruitment

Employee Communications/Events

Tweet Highlights

Snow storm pictures Energy Secretary visit

Phone scam warning

MAC volunteers needed

- Employee Health Fairs
- All employee meetings
- Food truck lunches
- Pandemic Response Team

Outages

- July 8: Girdwood
- July 8: Turnagain
- July 15: Downtown
- July 18: Spenard
- Aug. 3: Dowling
- Aug. 4: Baxter/Tudor
- Aug. 5: Moose Pass/Cooper Landing
- Aug. 7: Oceanview
- Aug. 31: Dimond/Victor
- Sept. 12: Indian/Bird Creek
- Sept. 20: Tyonek/Beluga
- Sept. 21: Windstorm outages
- Sept. 24: Early snow outages

Media/Press Releases

- ADN: Snowstorm outages
- KTUU: Snowstorm outages
- ADN: Eklutna River flow release
- ADN: Windstorm outages
- KTUU: Windstorm outages
- KTUU: Energy Secretary visit
- Frontiersman: Electric vehicles
- CEO retirement announcement



Agenda

Governor Dunleavy 100 - Year Challenge

EV Charging Station Infrastructure

Heat Pump Compatibility

Power Creek Hydroelectric Project

Battery Energy Storage System



Governor Dunleavy 100 – year challenge

Policy is often written
AFTER an event. What
can we do now to
drive down the cost of
energy?

Invest in a holistic view of energy use – solar, nuclear, wind, hydroelectric.

How do we write policy to make Alaska not so dependent?



"It's my goal that Alaska be known as an energy giant — not just an oil and gas giant, but an energy giant." Governor Dunleavy



Worldwide Sustainable Energy Conference

May 23: ArcticX kickoff event

May 24 – 26: Sustainable Energy

Conference

...hope the Anchorage conference would draw a variety of experts, including "someone like Elon Musk."



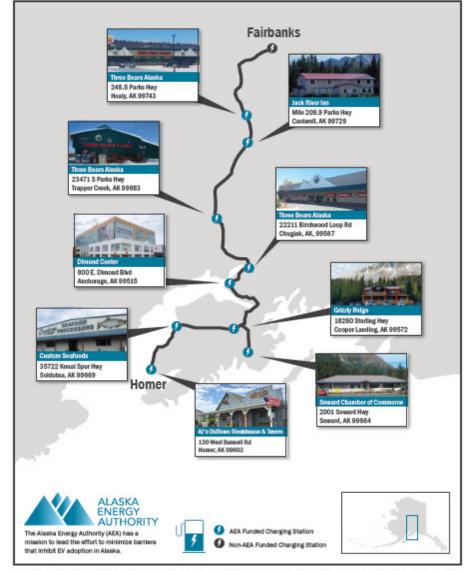


EV Charging Station Infrastructure

AEA has funding for \$1 million in grants from US DoE State Energy Program via Volkswagen Settlement funds.

Connect Homer and Seward to Fairbanks

- Charging Stations installed every 50 100 miles
- No greater than 5 miles from the highway

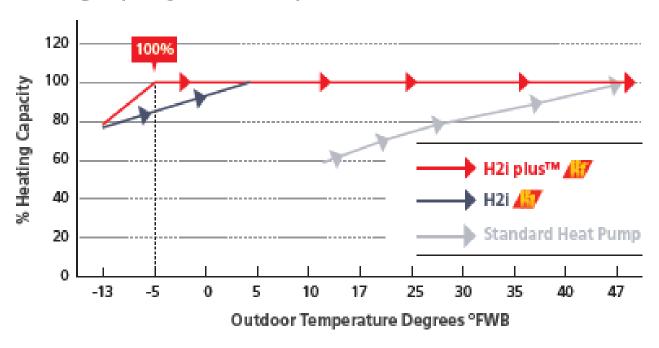




Heat Pump Compatibility in Alaska

Cold Climate vs Standard

Heating Capacity At Low Temperatures

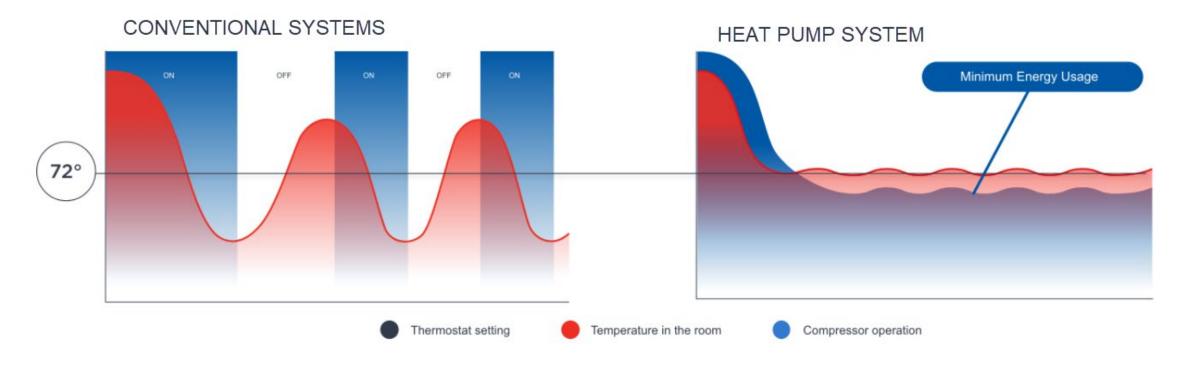


Performance

- Operation guaranteed at -13 F
- 100% capacity at -5 F
- 80% capacity at -13
- COP at 47 4.24
- COP at -5 2.24



Benefits of Heat Pumps



- Lower demand and energy cost
- Less maintenance
- Safer than combustion-based systems

- Zero carbon emissions
- Long, reliable lifespan (15-20 years)
- Quiet air filtration
- \$300 Federal tax credit



Power Creek Hydroelectric Project

In hydro-only mode, operators control the grid frequency by adjusting the angle of fast-acting water deflectors at Power Creek. The water stream is partially diverted away from the turbines to modulate power output, thereby maintaining grid stability.





Battery Energy Storage

Grid-scale energy storage system make the most of renewable energy and control costs while reducing reliance of imported diesel.

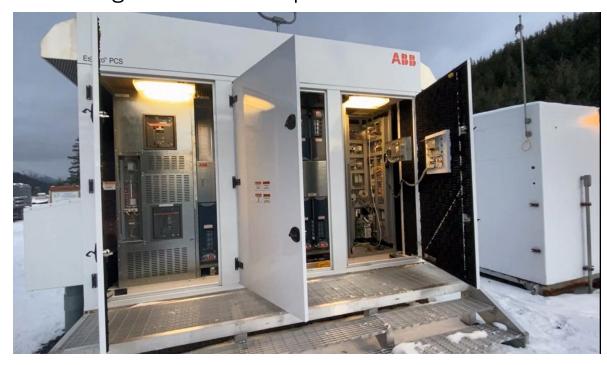


ABB power converter and control system



Saft developed a lithium-ion-based energy storage system rated at 1 MW with 1 MWh of energy storage capacity.



Questions?



CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

REGULAR BOARD OF DIRECTORS' MEETING AGENDA ITEM SUMMARY

November 22, 2021

<u>ACTION REQUIRED</u>	AGENDA ITEM NO. VIII.			
Information Only X Motion Resolution Executive Session Other				
TOPIC				
COVID-19 Public Health Threat				

DISCUSSION

In light of the ongoing COVID-19 pandemic and warnings issued by the Center for Disease Control and Prevention as well as other various governmental entities, the Chugach Electric Association, Inc., Board of Directors, pursuant to Article V, Section 7 of the Association's Bylaws, believes it appropriate to issue a declaration of emergency dictating that in-person attendance not be required at the December 15, 2021, regular meeting of the Board of Directors. This declaration shall be revisited and extended as necessary at the December 15, 2021, meeting.

MOTION

Move that pursuant to Article V, Section 7, of the Association's Bylaws, the Board of Directors declare an emergency exists that dictates in-person attendance not be required at the December 15, 2021, regular meeting of the Board of Directors. This declaration shall be revisited and extended by the Board of Directors as necessary at the December 15, 2021, regular meeting.

CHUGACH ELECTRIC ASSOCIATION, INC. Anchorage, Alaska

REGULAR BOARD OF DIRECTORS' MEETING AGENDA ITEM SUMMARY

November 22, 2021

ENDA ITEM NO. VIII.B.

TOPIC

Project Authorization – East Cable Terminal Reactor Replacement

DISCUSSION

The 30MVAR, 230kV reactor located at Six Mile East Cable Terminal will be replaced with a new reactor of similar capacity. The reactor is a long lead item. Reactor procurement will be initiated in late 2021. Pending reactor selection, the installation design will proceed in 2022 when the physical constraints of the reactor are known. This project will include the construction of new reactor foundation with oil containment, modifications to the existing bus to accommodate the new reactor profile and miscellaneous control wiring improvements. The replacement of the reactor will maintain system reliability and mitigate safety risks associated with reactor failure.

The total project cost is estimated at \$3,200,000 and is included in the 2022-2026 CIP under Budget ID 10.0207.

MOTION

Move that the Board of Directors authorize the Chief Executive Officer to proceed with the East Cable Terminal Reactor Replacement Project at an estimated cost of \$3,200,000.



RESOLUTION

East Cable Terminal Reactor Replacement

WHEREAS, Chugach Electric Association, Inc. (Chugach) has identified the need to replace the 30MVAR, 230kV Reactor located at Six Mile East Cable Terminal to maintain system reliability and safely mitigate potential impacts associated with reactor failure;

WHEREAS, Chugach will install secondary oil containment to bring the reactor installation into current compliance with current standards;

WHEREAS, Chugach has included this project in the 2022-2026 Capital Improvement Plan (CIP);

WHEREAS, Chugach has estimated the total cost of the project at \$3,200,000;

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors authorize the Chief Executive Officer to proceed with the East Cable Terminal Reactor Replacement Project with an estimated cost of \$3,200,000.

CERTIFICATION

I, James Henderson, do hereby certify that I am the Secretary of Chugach Electric Association, Inc., an electric non-profit cooperative membership corporation organized and existing under the laws of the State of Alaska: that the foregoing is a complete and correct copy of a resolution adopted at a meeting of the Board of Directors of this corporation, duly and properly called and held on the 22nd day of November 2021; that a quorum was present at the meeting; that the resolution is set forth in the minutes of the meeting and has not been rescinded or modified.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of this corporation the 22nd day of November, 2021.

	Secretary		

Chugach Project Authorization

Project Name: East Cable Terminal Reactor Replacement.

Project Category:

Safety	X	Incremental Load Growth		New Service	R&R T&D	
Agency Mandated		Reliability	X	Operating Efficiency	R&R Generation	

Accountabilities &	Approvals	Signatures	Date
Board of Directors:	James Henderson, Secretary		//
CEO:	Lee Thibert		//
COO:	Brian Hickey		//
Sponsor:	Andrew Laughlin, VP Engineering		//
Project Manager:	Shawn Wendling, Sr. Mgr., PROJECTS		//
Project Engineer:	Jesse Moe, Project Engineer, PROJECTS		/ /

Purpose and Need:

Installed in 1986/87, the 230kV reactor at East Cable Terminal is an integral to voltage support associated with undersea cables. Following a 1999 fault event the reactor is showing signs of failure. The Reliability Centered Maintenance program used by Chugach Substation Operations has noted a deteriorating trend in performance criteria associated with the 30 MVAR 230kV reactor increasing the probability of failure. Replacement of the reactor is necessary to avoid extended outages and operational impacts to the 230 kV transmission system.

Project Description:

The 30MVAR, 230kV reactor located at Six Mile East Cable Terminal will be replaced with a new reactor of similar capacity. The reactor is a long lead item and procurement will be initiated in late 2021. Completion of design and installation will be in 2022 when the physical constraints of the reactor are known. This project will include the construction of new reactor foundation with oil containment, modifications to the existing bus to accommodate the new reactor profile and miscellaneous control wiring improvements.

Approval Amount: \$3,200,000

This project is included in the 2022-2026 CIP under Budget ID 10.0207.

Category	Cost to Date	Cost to Completion	Cost at Completion
Labor	\$40,000	\$550,000	\$590,000
Materials	\$0	\$1,700,000	\$1,700,000
Construction Contract	\$0	\$910,000	\$910,000
Total	\$40,000	\$3,160,000	\$3,200,000

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Six Mile East Reactor Replacement

Regular Board of Directors' Meeting November 22, 2021



Agenda

ACTION

Requesting an approved motion for Project Authorization.

BACKGROUND

A shunt reactor is an inductive reactive resource used for voltage control when switched in parallel to a transmission line to counter the effect of excess capacitive reactance and improve power factor.

The 230kV, 30 MVAR shunt reactor within the Six Mile East Terminal Substation had a 1999 fault stressing internal components.

Using Reliability Centered Maintenance (RCM) practices, Chugach Operations mitigated the effects of the internal fault damage and extended the practical life of the reactor.

Performance trending has indicated the need for reactor replacement.





Project Constraints

SCOPE

This project includes the procurement and installation of a new reactor, the construction of a new reactor foundation with oil containment, modifications to the existing bus to accommodate the new reactor profile and miscellaneous control wiring improvements.

RISKS: Contaminated soil; material and equipment lead times

PROJECT COST

\$3.2 M estimated cost / Project Authorization Amount

PROJECT TIMELINE

