



LINE UNDERGROUNDING

Presented by:

Andrew Laughlin, Chief Operating Officer

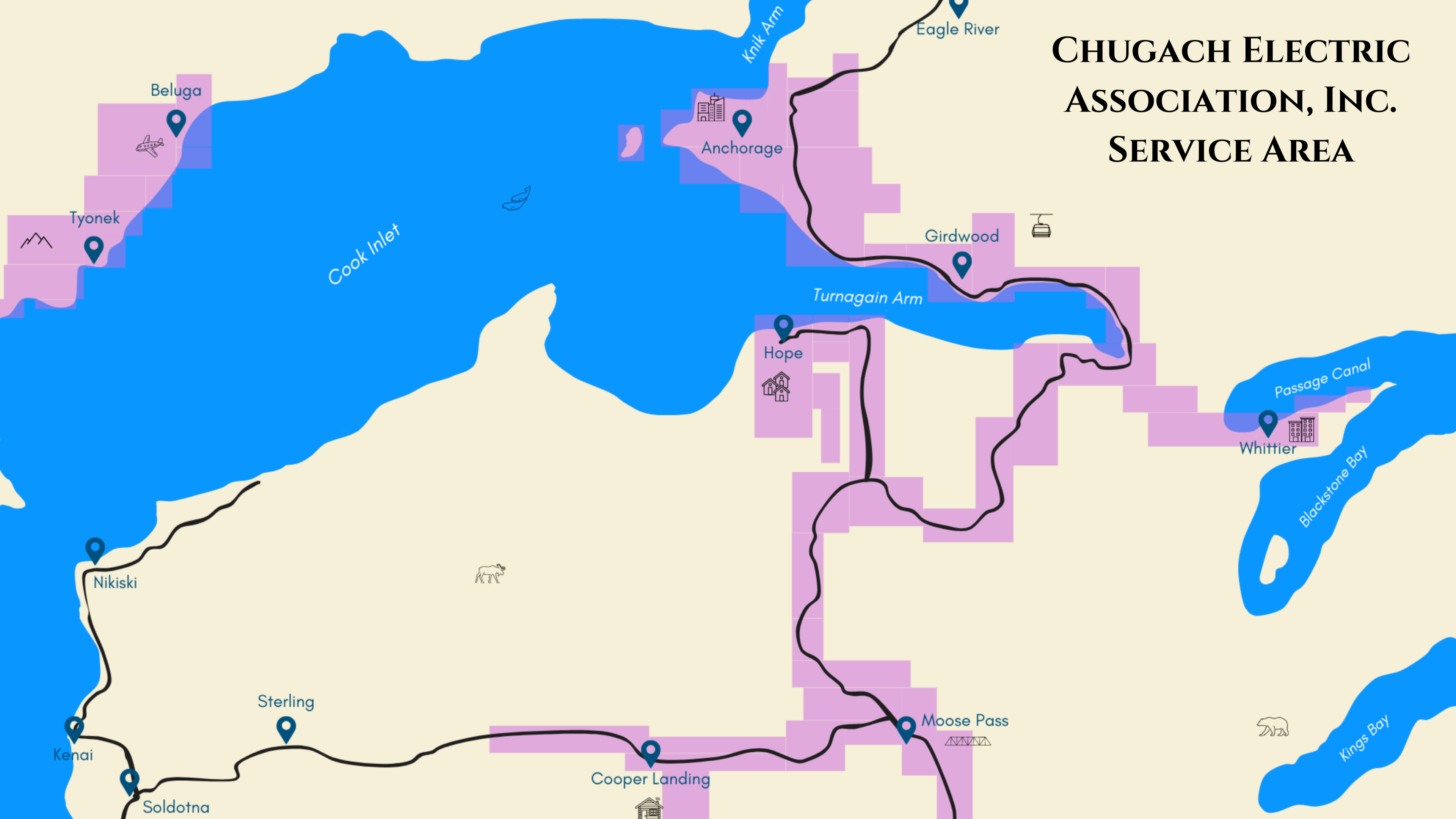
Mike Miller, VP System Control

Trish Baker, Sr. Mgr. Government Affairs

Anchorage Assembly Work Session

December 5, 2025

CHUGACH ELECTRIC ASSOCIATION, INC. SERVICE AREA



CHUGACH'S DISTRIBUTION LINES

- Distribution Lines: 3,377 miles
 - Underground: 2,262 miles
 - Overhead: 1,115 miles



Over two-thirds of Chugach's distribution lines are buried

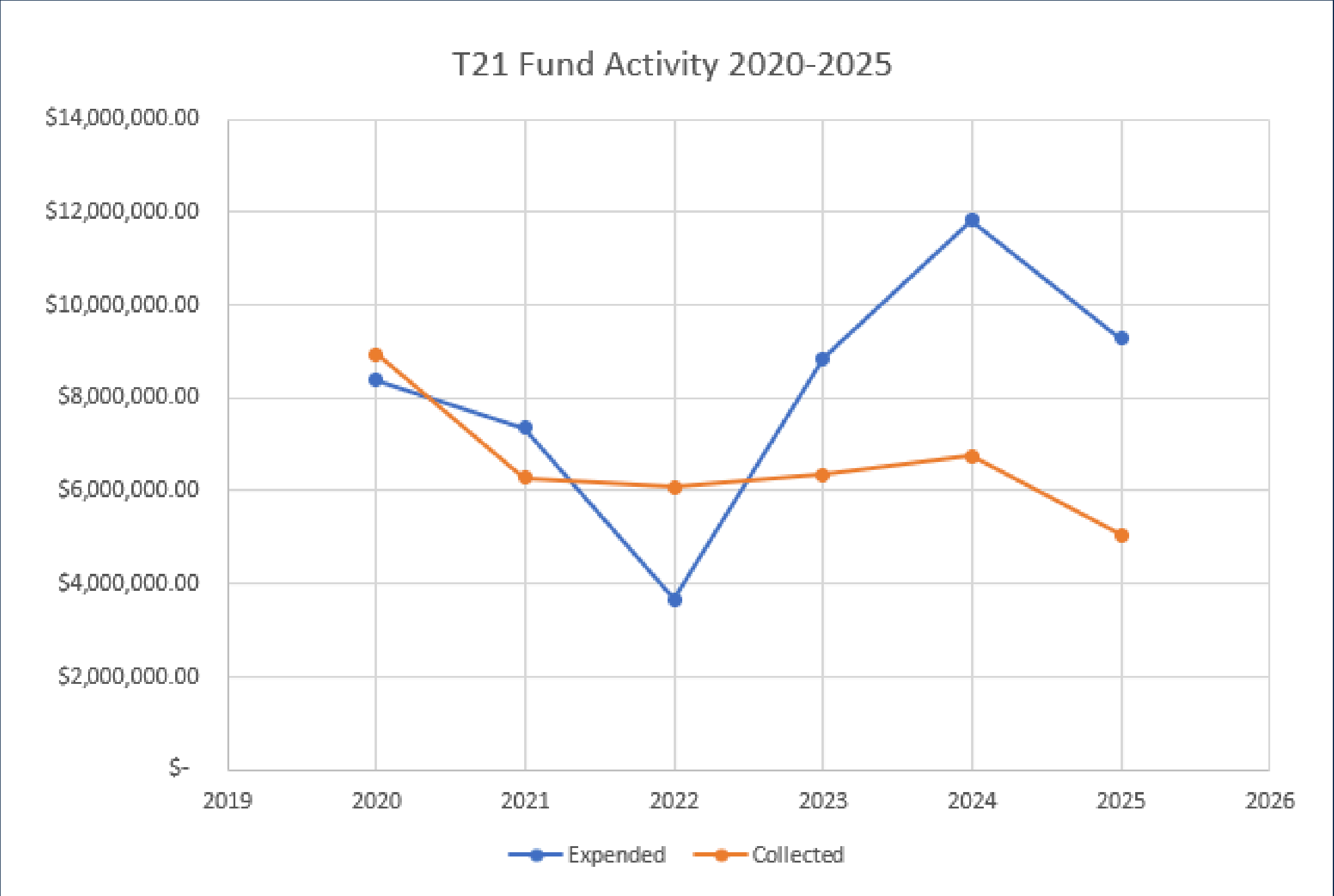
UNDERGROUNDING PROGRAM

Anchorage Municipal Code 21.07.050

- Since 2005, utilities required to include a five-year undergrounding program as part of its annual capital improvement plan (21.07.050F1)
- Annually, the utility shall plan on expending “at least two percent of a three-year average of its annual gross retail revenues derived from utility service connections within the municipality” (21.07.050G1a)
 - Chugach targets ~\$6.6 million annually
 - Customers are charged a 2% Anchorage Underground Surcharge on monthly bills
- Project priorities “shall be based on undergrounding in conjunction with the electric utility’s essential system improvements and then by target area” (21.07.050F1)



RECENT PLAN ACTIVITY



2020-2025

Total Spent
\$49,361,922.87

Total Collected
through surcharge
\$39,452,759.44

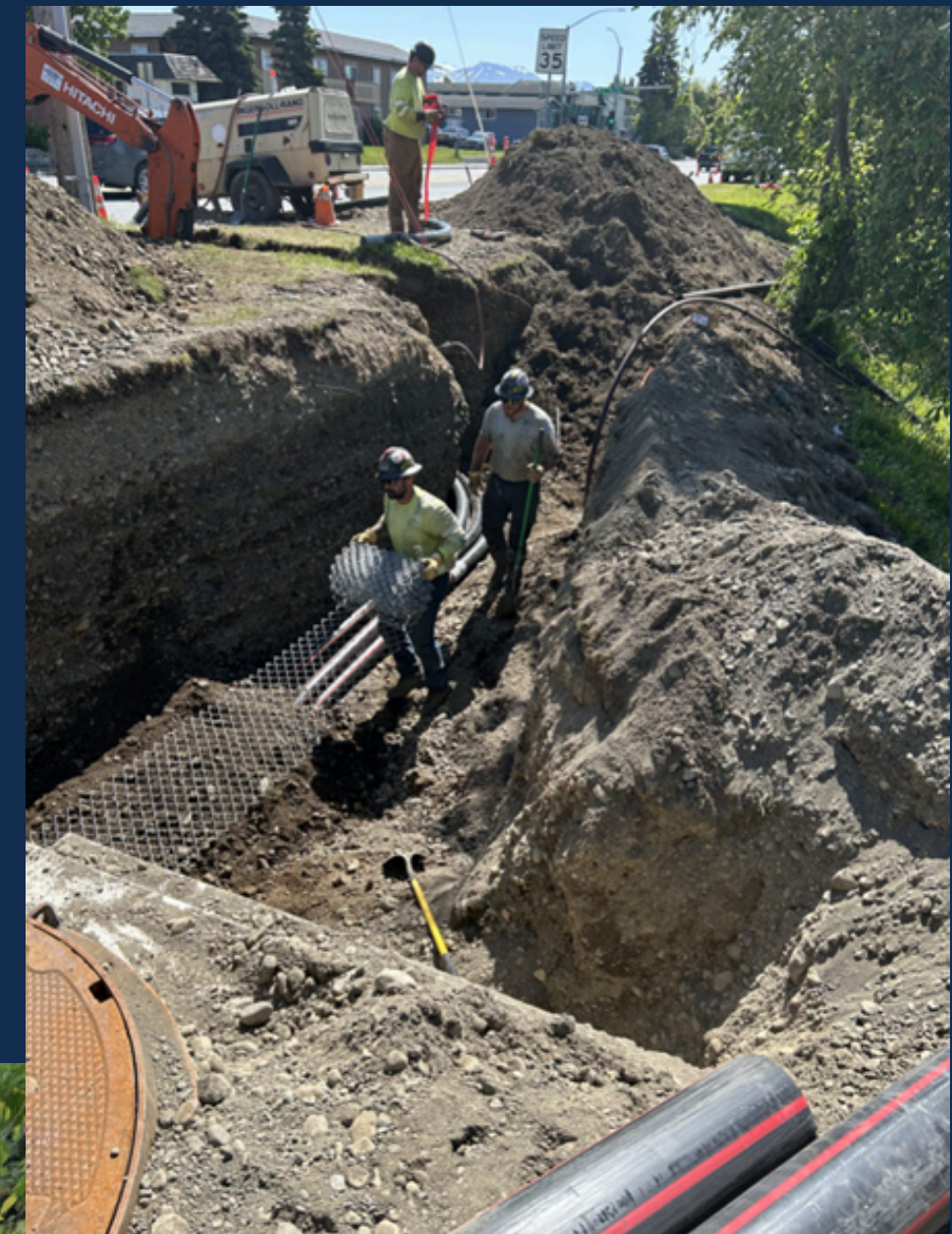
PROJECT SELECTION CRITERIA

1. **Safety.** Improve system safety by retiring overhead facilities, per the National Electric Safety Code.
2. **Relocation.** Relocate utility facilities as part of State and Municipal road project work.
3. **Load Growth Improvement.** Install larger underground conductor and retire overhead facilities.
4. **Reliability.** Replace overhead systems with underground systems in areas with high numbers of wind- or tree-related outages, where possible.
5. **Target Areas.** Emphasize locations that would benefit significant numbers of people, such as central business areas, major traffic corridors, parks and recreational areas, and school and university areas.



PROJECT CHALLENGES

- **Land Rights.** Easements may be lacking in areas where new infrastructure is planned.
- **Relocation project dependencies.** State and Municipal road projects often move up or are delayed due to funding or agency resources available.
- **Utility coordination.** Poles remain in place when telecom lines are not undergrounded with electric lines.
- **Construction season.** Most undergrounding work must occur during summer months.



COMBINED ML&P AND CHUGACH PLANS

2020-2024

Former MLP T21 Projects (From 2020-2024 Plan)					CEA T21 Projects (From 2020-2024 Plan)				
WO#	Project Title	Completion date (or Estimated)	Total Project Cost/Estimate	Notes	WO#	Project Title	Completion date (or Estimated)	Total Project Cost/Estimate	Notes
P2000046	4th-5th at Gambell-Karluk OH-UG	-	-	Land Rights Issues	-	Westpark Subdivision	(2029)	\$500,000	
-	Needle Circle	(2029)	\$2,500,000		E2514341	Turnagain Park OH/UG	(2029)	\$2,950,000	
-	Glacier St. & 24th Ave	(2028)	\$2,600,000		-	Elmore and Tudor - 4/0 ACSR	(2029)	\$500,000	
-	Logan Street	(2028)	\$2,150,000		-	Wisconsin Street	(2029)	\$2,500,000	
E2114039	7th-8th Alley: Gambell-Ingra OH-UG	(2027)	\$800,000		E2114040	Roosevelt Park Subd. OH-UG	(2028)	\$1,800,000	
E2514342	W 9th Ave & P St OH/UG	(2027)	\$1,150,000		-	Wickersham Park	(2028)	\$750,000	
-	Frontierland Park: 10th & E	(2027)	\$350,000		-	Lake Otis Parkway	(2028)	\$2,000,000	
E2114038	Glacier Street & 22nd Ave. OH-UG	(2027)	\$2,000,000	Land Rights Issues	-	Green Valley	(2027)	\$250,000	
E2314214	Blueberry Road - OH/UG	(2026)	\$500,000		E1913879	Girdwood Entry Subdv. OH/UG	(2026)	\$80,000	Project depends on DOT project
E2414294	Forest Park OH/UG	(2026)	\$500,000		E2314213	Aero Acres Subdivision - OH/UG	(2026)	\$800,000	In design
P1900043	GAMBELL STREET: <u>OH</u> TO UG T-21 PROJECT	(2026)	\$2,100,000	Project depends on DOT project	E2013961	Raspberry Industrial Subd OH-UG	8/27/2020	\$257,683	
P1700062	Arctic Benson Park	8/15/2020	\$234,773		E1913887	Kieffer Subdv OH to UG	9/10/2020	\$181,561	
P1900123	ARCTIC BLVD TO AURORA DRIVE: TITLE 21 PROJECT	7/24/2024	\$716,328	Land Rights Issues. Modified from original scope	E1613660	Muldoon Rd OH/UG: Creekside to Northern Lights	12/12/2020	\$2,894,983	
P1800112	Mt. View Lions Park	8/1/2020	\$657,413		E1913886	Shaun Landing Circle OH/UG	5/26/2021	\$187,393	
P1900042	Alley between 7th & 8th Ave: E St. to C St T21 OH/UG	8/13/2020	\$516,975		E2013958	Rockridge Drive OH/UG	8/23/2021	\$430,064	
P1800123	Inlet Place between 13th & 15th T21 OH/UG	8/27/2020	\$292,240		E2013962	Arctic: Raspberry-Dimond UG	10/30/2021	\$2,057,869	
P1800102	Benson: Denali to Seward Hwy	10/26/2020	\$951,799		E1813853	Old Seward: O'Malley-Huffman	10/30/2021	\$2,207,583	
E1900025	T21 UNDERGROUND A ST TO BARROW AT FIREWEED	7/25/2023	\$329,951		E1813812 & E1913870	O'Malley Road - Livingston to Hillside	9/22/2022	\$1,806,687	Two phases
					E2013957	Jewel Lake: Strawberry-84th OH/UG	9/28/2022	\$1,837,719	
					E1813854	Patterson at E. Tudor OH/UG	9/15/2023	\$859,538	
					E2214121 & E2214120	Old Seward Hwy - Dimond Blvd to O'Malley Rd	10/2/2023	\$4,017,911	Two phases
					E1613634	Baxter Road OH to UG	6/28/2024	\$2,803,891	
					E1913914	Alyeska Subdv Blk 2 OH/UG	9/24/2024	\$1,655,422	
					E1813852	Huffman Road - Lake Otis to Old Seward - 4/0 ACSR	5/10/2025	\$2,700,866	
					E2314212	Dimond: Jewel Lake - Roy St OH/UG	8/4/2025	\$3,191,398	

**2025 - 2029 Overhead to Underground Projects
Chugach Electric Association, Inc.**

Project Description	Page Number	Grid	Work Order	Cost Estimate	2025	2026	2027	2028	2029
Debarr Sub to Anchorage Sub	A-1	1335-1339 1435, 1535, 1536	E2314215 E1720054	\$ 13,000,000	\$ 8,000,000	\$ 5,000,000	\$ -	\$ -	\$ -
Dimond Blvd. - Jewel Lake to Roy	A-2	2425, 2426, 2427	E2314212	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -
Huffman Road - Lake Otis to Old Seward - 4/0 ACSR	A-3	2832, 2833	E1813852 E2020060	\$ 900,000	\$ 900,000	\$ -	\$ -	\$ -	\$ -
Aero Acres	A-4	1726	E2314213	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -
Gambell St. - 3rd Ave. to 15th Ave.	A-5	1231, 1331, 1431	P1900043	\$ 2,100,000	\$ 2,100,000	\$ -	\$ -	\$ -	\$ -
New Girdwood Townsite	A-6	4815	E2514340	\$ 500,000	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -
W. 9th & P St.	A-7	1328	E2514342	\$ 1,150,000	\$ 50,000	\$ 200,000	\$ 900,000	\$ -	\$ -
Spenard Road Rehabilitation/Relocation	A-8	1629, 1728, 1729	E2214178	\$ 2,000,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
Glacier St. & 22nd Ave.	A-9	1537	E2114038	\$ 2,000,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
Blueberry Rd.	A-10	1529, 1530	E2314214	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ -	\$ -
Forest Park Dr	A-11	1428, 1528	E2414294	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ -	\$ -
Girdwood Entry Sub	A-12	5012	E1913879	\$ 80,000	\$ -	\$ 80,000	\$ -	\$ -	\$ -
Turnagain Park Subdivision	A-13	1526, 1527	E2514341	\$ 2,950,000	\$ -	\$ 700,000	\$ 750,000	\$ 750,000	\$ 750,000
Green Valley	A-14	1726, 1727	TBD	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -
Frontierland Park - 10th & E St.	A-15	1231, 1232	TBD	\$ 350,000	\$ -	\$ -	\$ 350,000	\$ -	\$ -
E 84th - Lake Otis to Elmore	A-16	2334, 2335, 2336	TBD	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -
Huffman Road - Lake Otis to Elmore	A-17	2834, 2835	TBD	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000	\$ -	\$ -
7th/8th Alley - Gambell St. to Ingra St.	A-18	1331, 1332	E2114039	\$ 800,000	\$ -	\$ -	\$ 800,000	\$ -	\$ -
Logan St. - 17th Ave. to 20th Ave.	A-19	1434	TBD	\$ 2,150,000	\$ -	\$ -	\$ 50,000	\$ 2,100,000	\$ -
Roosevelt Park	A-20	1728	E2114040	\$ 1,800,000	\$ -	\$ -	\$ 600,000	\$ 1,200,000	\$ -
24th Ave. & Glacier St.	A-21	1537	TBD	\$ 2,600,000	\$ -	\$ -	\$ 600,000	\$ 2,000,000	\$ -
Lake Otis Parkway	A-22	1834, 1934	TBD	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -
Wickersham Park	A-23	1833, 1834	TBD	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000	\$ -
Cange St - Huffman to De Armoun Rd	A-24	2834, 2934	TBD	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -
Needle Circle	A-25	1732, 1733	TBD	\$ 600,000	\$ -	\$ -	\$ -	\$ 100,000	\$ 500,000
Wisconsin Street	A-26	1626, 1726	TBD	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Westpark Subdivision	A-27	2031, 2032	TBD	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Elmore and Tudor - 4/0 ACSR	A-28	1835, 1836	TBD	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Northern Lights - Lake Otis to Arctic	A-29	1530-1534, 1630	TBD	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
				\$ 55,280,000	\$ 14,600,000	\$ 11,230,000	\$ 8,800,000	\$ 10,900,000	\$ 9,750,000

CHUGACH UNDERGROUNDING PLAN

Updated Annually

ChugachElectric.com

- Your Cooperative
 - Power Generation
 - Undergrounding Plan
 - Project List

www.chugachelectric.com/your-cooperative/power-generation/undergrounding-plan

