

ALASKA ENERGY AUTHORITY

INVESTING IN ALASKA'S FUTURE

Curtis W. Thayer
Executive Director

Commonwealth North
January 15, 2026



ALASKA
ENERGY
AUTHORITY



AEA Programs and Services Overview



Owned Assets

- Bradley Lake Hydroelectric Project
- Alaska Intertie
- Sterling to Quartz Creek Transmission Line
- Cook Inlet PowerLink



Power Cost Equalization

- \$48 Million Program
- 193 Rural Communities
- 82 Electric Utilities
- Benefits 82,000+ Alaskans



Rural Energy

- Bulk Fuel Upgrades
- Rural Power System Upgrades
- Circuit Rider Program
- Electrical Emergency Assistance



Renewable Energy and Energy Efficiency

- Renewable projects; biomass, electric vehicles, hydroelectric, solar, and wind
- Federal programs: NEVI and Home Energy and High Efficiency Rebate Allocation



Grants and Loans

- Renewable Energy Fund
- Power Project Fund
- Federal Grants



Energy Planning

- Alaska Energy Security Task Force
- State Energy Security Profile
- Electronic Library
- Energy Data Resources
- 40101(d) Grid Resilience



Railbelt Transmission Organization

- AEA, Railbelt Reliability Council, and Utility Governance
- Certificate of Public Convenience and Necessity
- Tarriff Under Regulatory Review

AEA Active Projects and Services

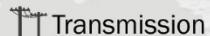


Grants and Loans

- Power Project Fund
- Renewable Energy Fund

Owned Assets

- Other Transmission Lines



- Transmission Lines Owned by AEA

Power Cost Equalization

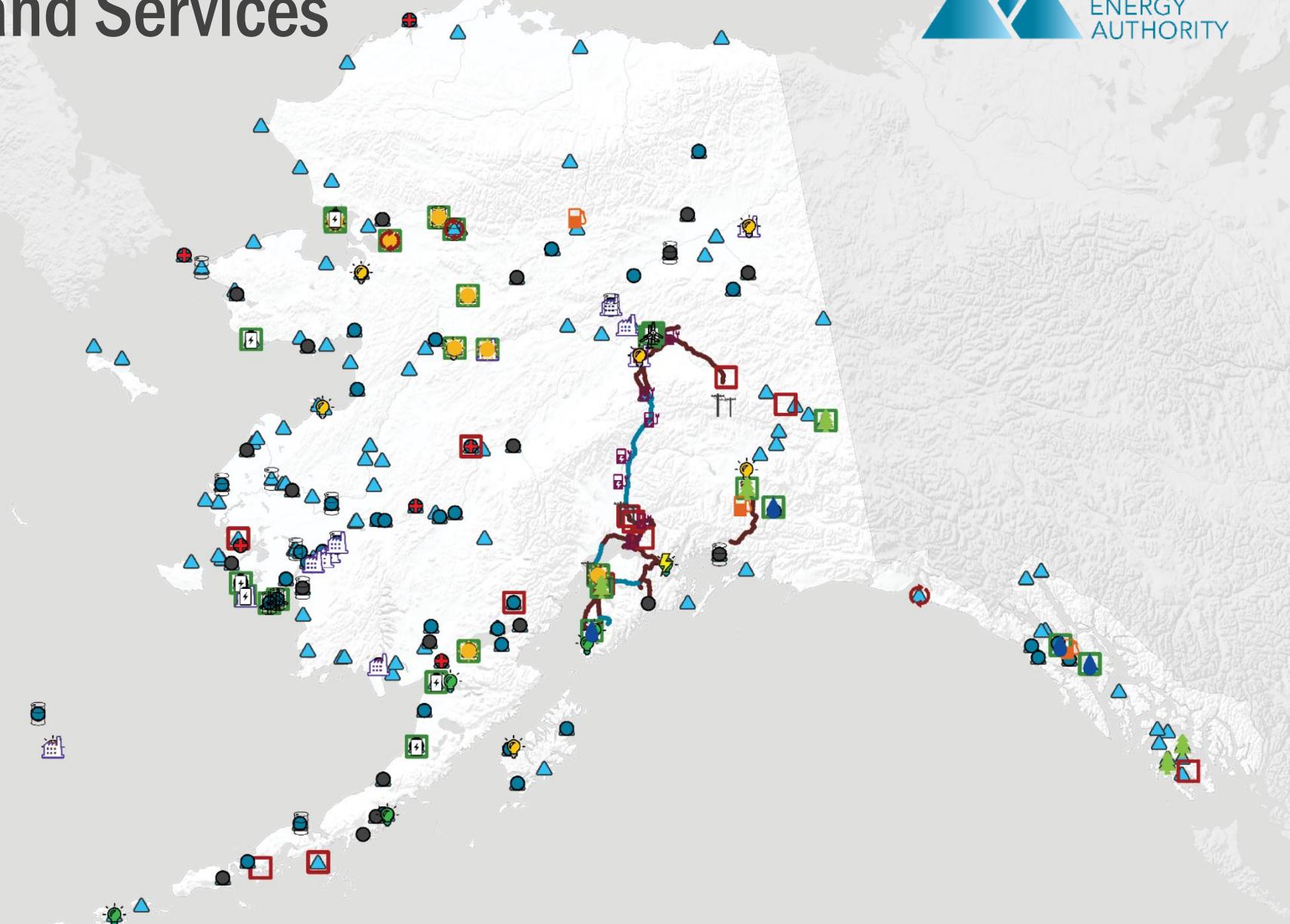
- PCE Communities

Renewable Energy

- Biomass
- Electric Vehicles
- Port Electrification
- Heat Recovery
- Hydroelectric
- Solar
- Storage
- Wind

Rural Energy

- Bulk Fuel
- Diesel Emissions Reduction Act
- Circuit Rider Assistance
- Emergency Assistance
- Utility Training





SOUTHCENTRAL ALASKA
📍 Bradley Lake Hydroelectric Project

Bradley Lake Expansion Project

AEA is advancing the Bradley Lake Expansion Project, which includes the **Dixon Diversion** and **Bradley Pool Raise** sub-projects. This project will divert water from Dixon Glacier to increase Bradley Lake's annual energy production by **50 percent**.



ESTIMATED ANNUAL OUTPUT

180,000 MWh

≈ 30,000 homes powered



NATURAL GAS OFFSET

1.5 Billion cu ft

7.5% of unmet demand (2030)



TARGET COMPLETION

2031

Shovel-ready status



ESTIMATED COST

\$342 Million

Class IV Estimate

Cook Inlet PowerLink (CIPLink)

CIPLink is a high-voltage direct current (HVDC) transmission system connecting Southern and Central Railbelt regions. It features a **38-mile subsea cable** and overland routes to deliver **up to 200 MW** of bidirectional power flow.



CAPACITY
200 MW

Bidirectional Flow



CONNECTIVITY
Railbelt Link

Connects South & Central Regions



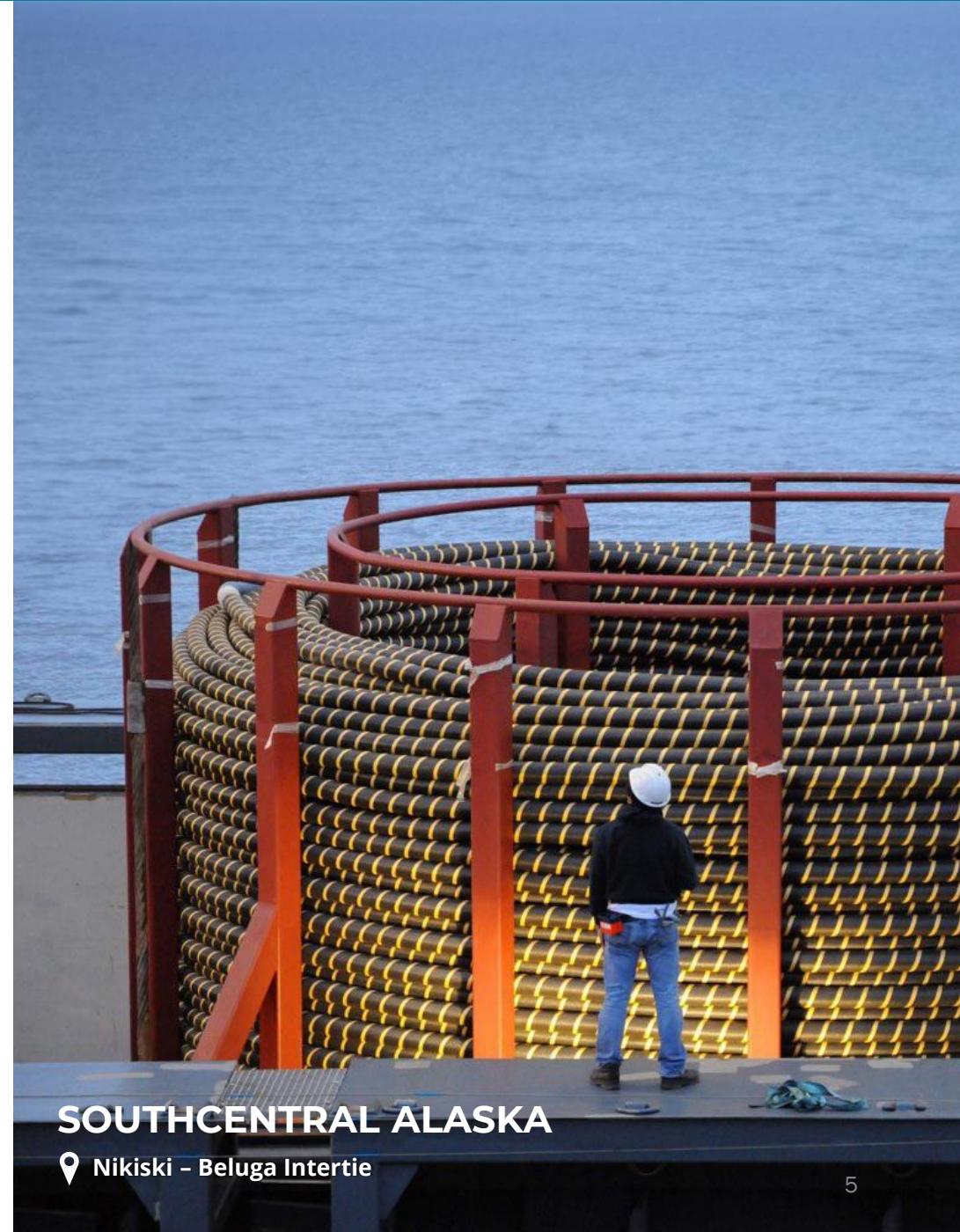
TARGET COMPLETION
2032

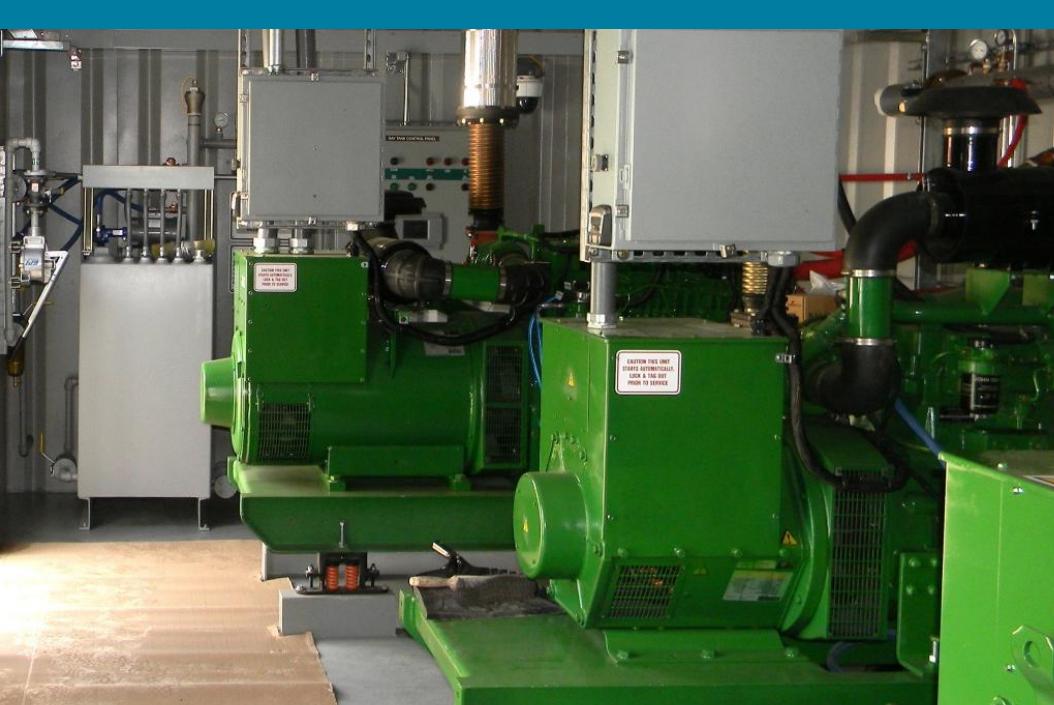
Shovel-ready status



ESTIMATED COST
\$413 Million

Preliminary Engineering Done





RURAL ALASKA

Community Infrastructure



ALASKA
ENERGY
AUTHORITY

Rural Energy Infrastructure

Improving reliability and safety for Alaska's remote communities.



Rural Power System Upgrades

Improves generation in villages with <2,000 people by replacing inefficient mechanical systems with electronic generator sets.

Mitigates risk of aging system failure

ELIGIBLE
170
Communities

DEFERRED MAINT.
\$300 Million
Funding Need



Bulk Fuel Upgrades

Designs and builds modern, code-compliant bulk fuel facilities. Most existing facilities are >40 years old and pose safety risks.

Addresses corrosion and environmental risks

INVENTORY
400+
Facilities

DEFERRED MAINT.
\$1 Billion
Funding Need

Power Cost Equalization (PCE)

PCE is a key part of Alaska's energy policy—helping rural residents access affordable electricity despite isolation and high infrastructure costs, narrowing the gap with urban rates and supporting rural utilities.



193

RURAL COMMUNITIES



82

ELECTRIC UTILITIES



82,000

ALASKANS



750 kWh

RESIDENTIAL

Residential customer are eligible for PCE credit up to 70 kWhs per month.

70 kWh

PUBLIC FACILITIES

Community facilities can receive PCE credit for up to 70 kWhs per month multiplied by the number of residents in a community.

\$47M

FUNDS DISBURSED

In fiscal year 2025, AEA disbursed \$47 million to rural electric utilities benefiting 82,000 Alaskans.

 St. George Island, Pribilof Islands, Alaska