

ALASKA ENERGY AUTHORITY

# INVESTING IN ALASKA'S FUTURE

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Commonwealth North  
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# 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
- Tariff Under Regulatory Review



# AEA Active Projects and Services

## Grants and Loans

- Power Project Fund
- Renewable Energy Fund

## Owned Assets

- Other Transmission Lines
- Transmission
- Transmission Lines Owned by AEA

## Power Cost Equalization

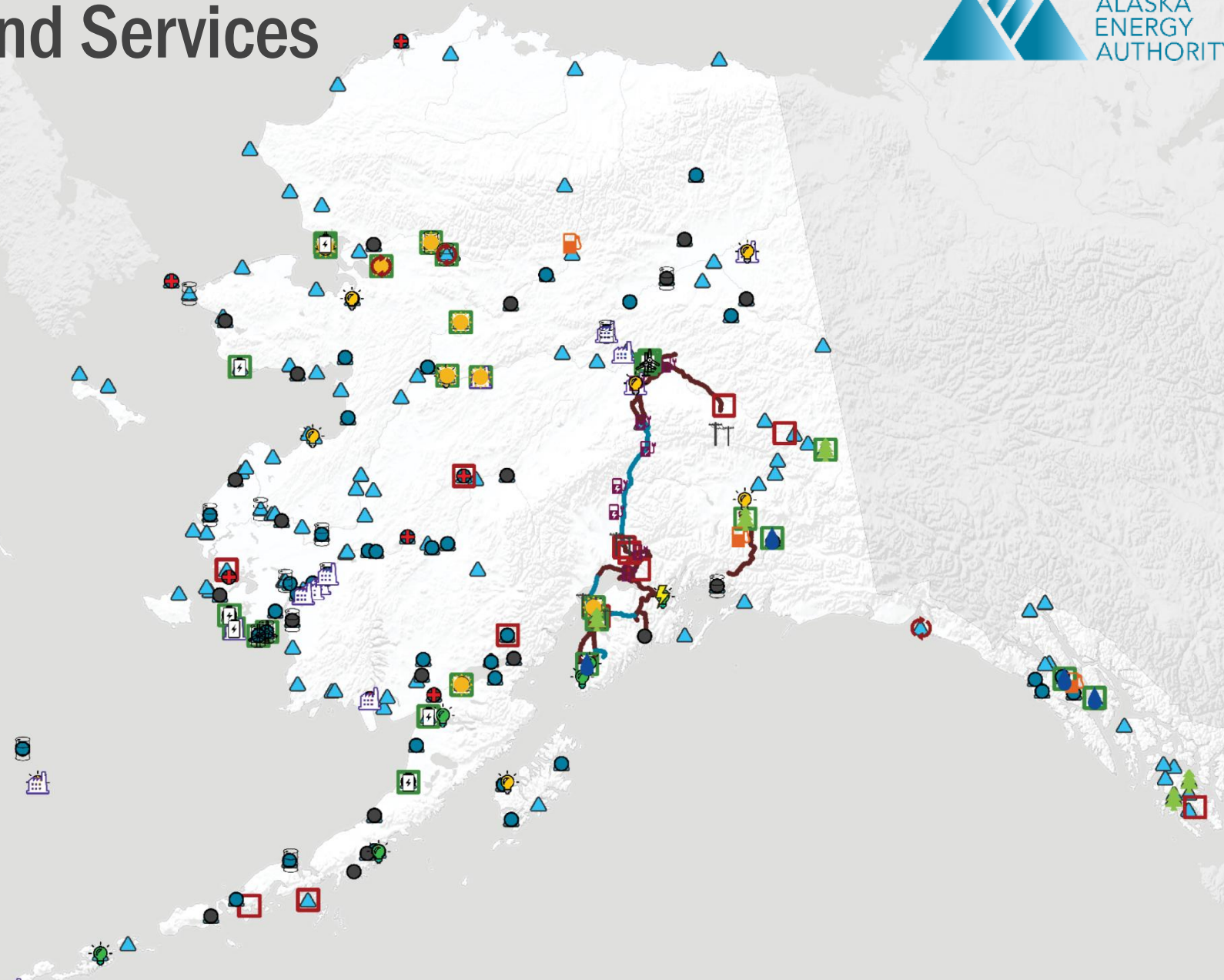
- PCE Communities

## 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





# 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*

**SOUTHCENTRAL ALASKA**

Bradley Lake Hydroelectric Project



# 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*



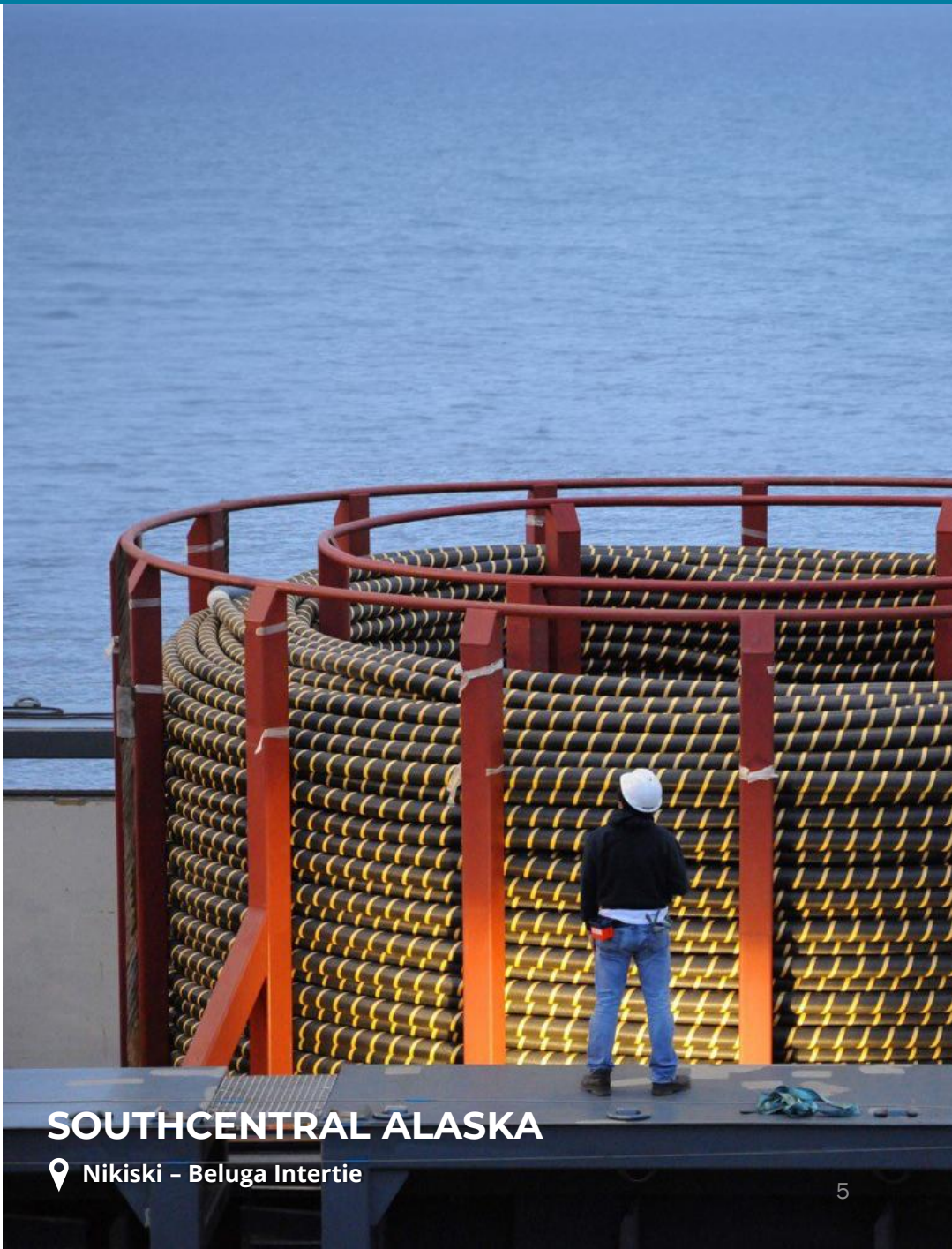
CONNECTIVITY  
**Railbelt Link**  
*Connects South & Central Regions*



TARGET COMPLETION  
**2032**  
*Shovel-ready status*



ESTIMATED COST  
**\$413 Million**  
*Preliminary Engineering Done*



**SOUTHCENTRAL ALASKA**

**Nikiski - Beluga Intertie**

# 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.

Electricity costs for Alaska’s rural residents are significantly higher than in urban areas. The PCE program reduces these costs, ensuring affordable service, reliable centralized power, and the long-term viability of 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 facilitates 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