

ALASKA ENERGY AUTHORITY

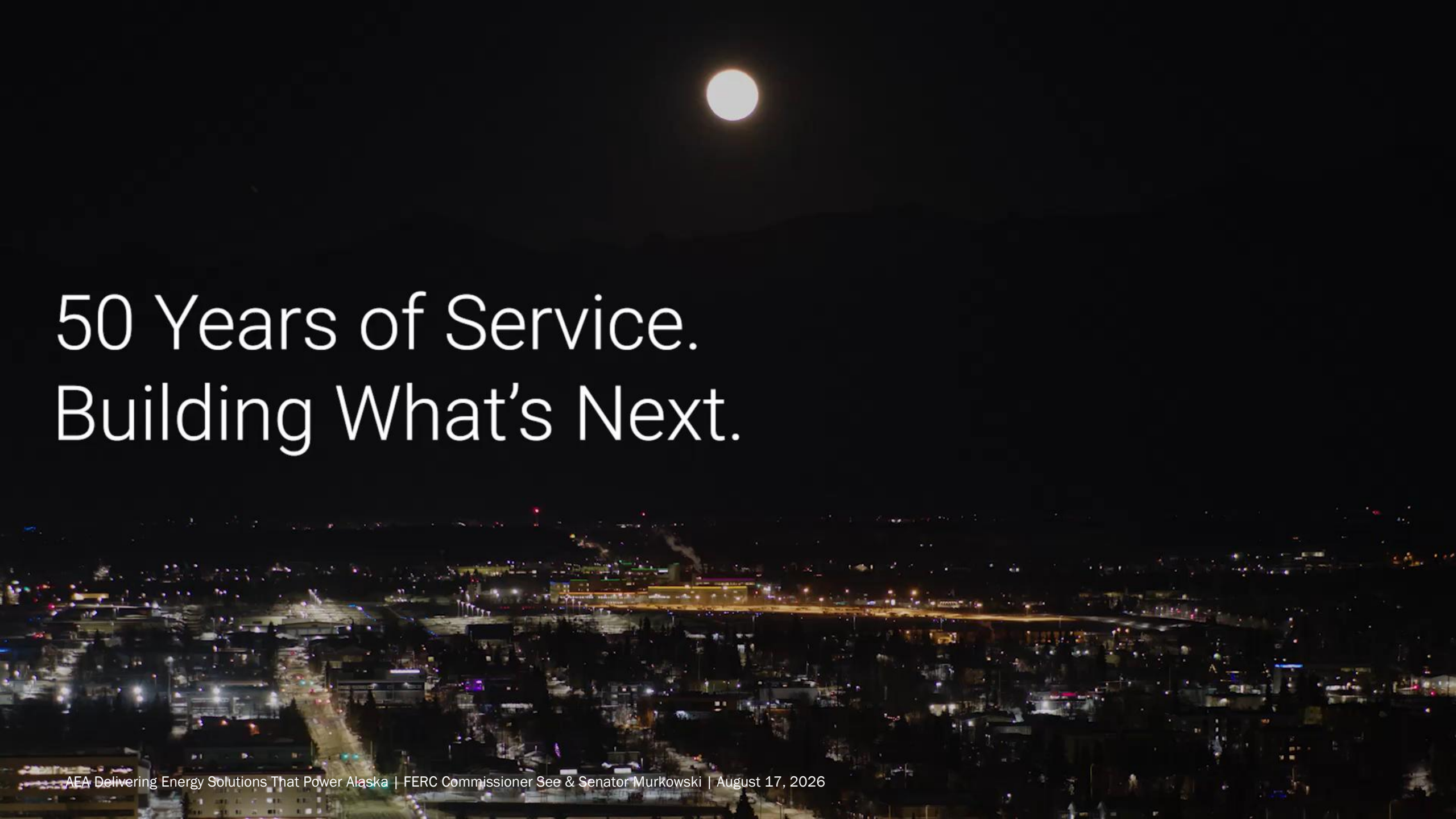
# DELIVERING ENERGY SOLUTIONS THAT POWER ALASKA

Curtis W. Thayer  
CEO and Executive Director

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FERC Commissioner Lindsay S. See  
Senator Lisa Murkowski  
August 17, 2026



An aerial night photograph of a city, likely Anchorage, Alaska, with a full moon in the dark sky. The city lights are visible in the lower half of the frame, and the moon is a bright circle in the upper half.

# 50 Years of Service. Building What's Next.

# Railbelt Infrastructure & Military Installations

Railbelt system serving 75 percent of Alaskans; linking Homer–Kenai–Anchorage–Mat-Su–Denali–Fairbanks–Delta Junction



## ⚡ Bradley Lake Expansion Project

Expansion of the **120 MW** Bradley Lake Hydroelectric Project that **increases generation capacity by more than 40 percent**. Additional energy is transferred through the Alaska Intertie to utilities serving Interior Alaska—including military installations.

## ⚡ Cook Inlet PowerLink

Proposed **38-mile** high-voltage direct current subsea transmission cable enabling up to **200 MW** bi-directional flow. Strengthens Southcentral-Interior transfer capacity and provides **critical backup redundancy for Joint Base Elmendorf-Richardson**.

## ⚡ SSQ Transmission Upgrades

Upgrades to the Sterling-Soldotna-Quartz Creek transmission corridor that increase transmission capacity by **53 percent** through conversion to **230 kV** infrastructure. The project **reduces transmission losses** and **improves voltage performance within the corridor**.

## ⚡ Susitna-Watana Hydroelectric Project

Proposed **618 MW** hydroelectric project generating up to **2,800 GWh** annually. The project could **offset future Cook Inlet natural gas supply declines** and provide up to **50 percent** of projected Railbelt electricity demand.

# 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 more than **40 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

**\$400 Million**

*Class IV Estimate*

**SOUTHCENTRAL ALASKA**



**Bradley Lake Hydroelectric Project**

AEA: Empowering Alaska's Energy Needs That Power Alaska | FERC Commissioner See & Senator Murkowski | August 17, 2026

# 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*



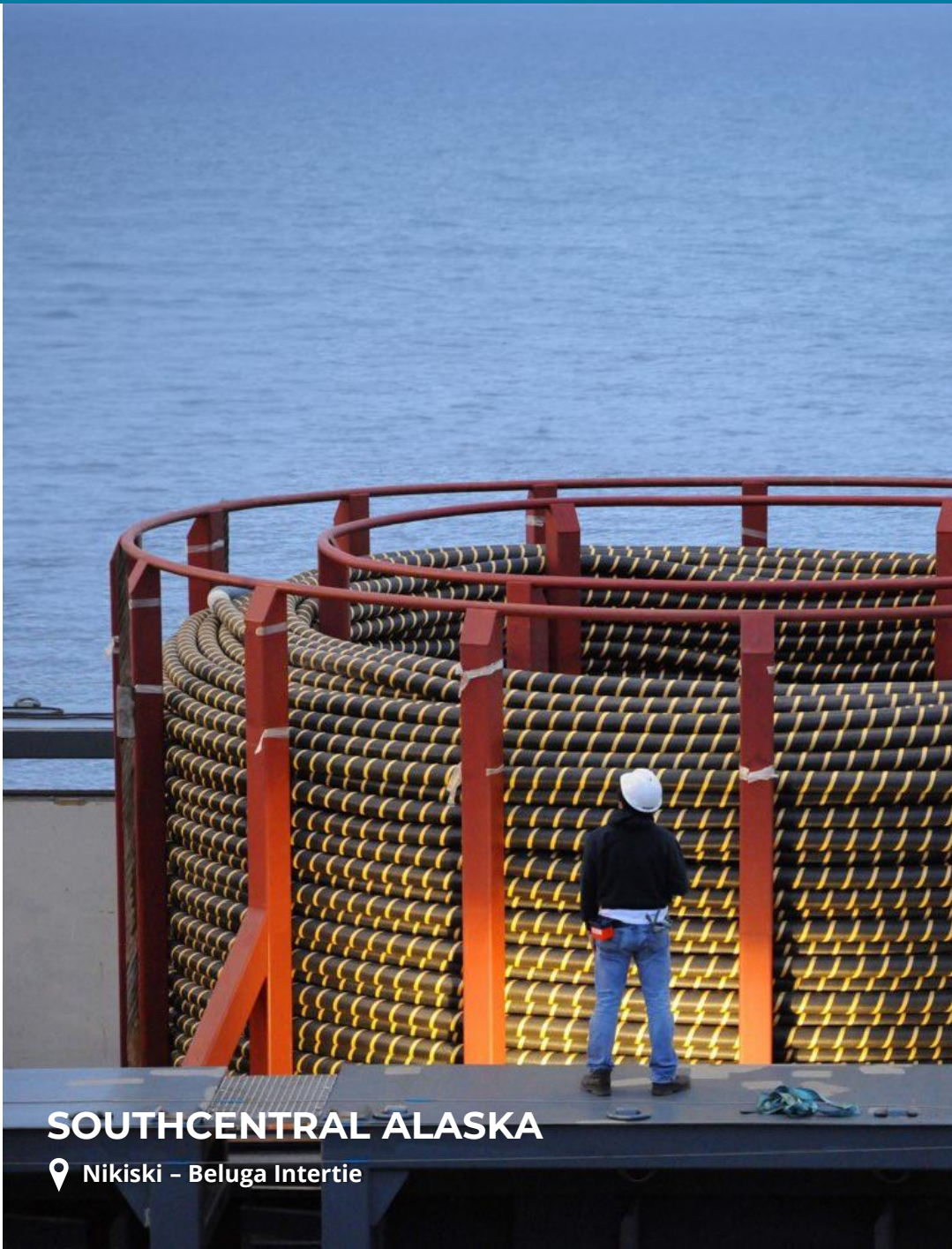
CONNECTIVITY  
**Railbelt Link**  
*Connects South & Central Regions*



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



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



**SOUTHCENTRAL ALASKA**

**Nikiski - Beluga Intertie**

# Soldotna-Sterling-Quartz Creek (SSQ) Transmission Line and Substation Project

Upgrading transmission lines from 115 kV to 230 kV increases Railbelt transfer capacity by 50 percent, significantly improving system reliability and stability.



#### TRANSFER CAPABILITY

**+53%**

*Potential stability-limited increase*



#### LINE LOSS REDUCTION

**-8.4 PTS**

*Projected full-corridor tie-loss drop*



#### TARGET COMPLETION

**2030**

*Upgrades underway*



#### ESTIMATED COST

**\$173.9 Million**

*Including all costs*

**KENAI PENINSULA**



**SSQ Transmission Line and Substation Project**

AEA Delivering Energy Solutions That Power Alaska | FERC Commissioner See & Senator Murkowski | August 17, 2026

# Contact Us

## Alaska Energy Authority (AEA)

813 W Northern Lights Blvd.

Anchorage, AK 99503

Phone: (907) 771-3001

Fax: (907) 771-3044

[akenergyauthority.org](http://akenergyauthority.org)