

Yukon-Kuskokwim Region Energy

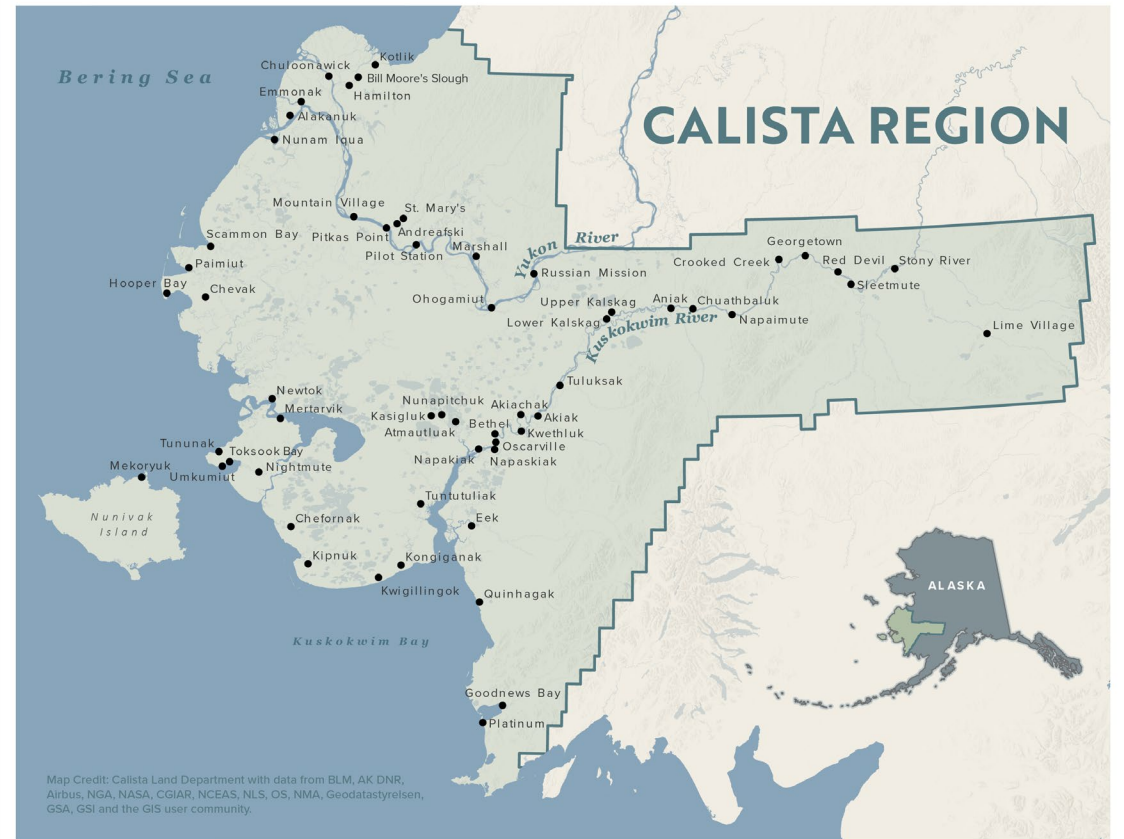
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Andrew Guy, President/CEO



Region Overview

- Spans 58,000 square miles
- Over 27,000 residents
- Kusilvak Census area growing as fast as Mat-Su Borough
- 50 permanent communities
- 6 seasonal communities
- 56 Tribes
- 45 Alaska Native village corporations



Cost of Living in Y-K

- Cost of living in rural Alaska is astronomical, e.g.:
 - Retail price for heating fuel in Sleetmute is \$9.10/gal.
 - Retail price for gas in Sleetmute is \$9.52/gal.

Avg. residential rate per kWh w/out PCE in Y-K	\$0.83
Avg. PCE assistance per kWh in Y-K	\$0.46
Avg. effective residential rate per kWh w/ PCE in Y-K	\$0.37

(based on data collected from akenergyauthority.org, *Power Cost Equalization Program Statistical Report FY2024*. Reporting period: 07/01/23 to 06/30/24)

- Compare to urban Alaska, where the cost of energy is \$0.22/kWh

Current Utility Systems



Napakiak school fuel tank farm

- 19 electric utility providers within the Region
- Communities rely on diesel generators for power
 - In many cases generators are operating past their usable/reliable lifecycle (30+ years old)
 - Dependent on fuel shipments—either by barge or aircraft
 - O&M for generators and fuel tank farms are a challenge: costly and finding skilled labor

Y-K Energy Development Opportunities

- Regional energy projects, e.g.:
 - DC powerlines to the Region, connecting to the Railbelt power grid
 - Inter-ties between rural communities
 - Inter-ties to anchor-tenants
- State matching funds to access federal funds for power transmission and generation
- Increased access to capital for funding and financing energy projects in rural Alaska

Energy Future for the Y-K

- In-state natural gas pipeline from the North Slope provides a potential solution for Southcentral and Southwest Alaska
- A potential anchor-tenant in Y-K provides an opportunity to bring lower cost and reliable energy to the Y-K Region through the prospective natural gas pipeline
- The natural gas delivery infrastructure to the Y-K could be multi-modal, e.g.:
 - Small diameter pipeline as gas, or
 - Generate electricity through transmission lines



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