

Calista Energy Management Assistance Initiative

US Dept. Of Energy
Office of Indian Energy

Presented by:

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November 18, 2016



Community Sustainability

1. Transportation Access

- Access In & Out
- Airports, ferries, railroad, ports, roads, trails
- Federal Land restrictions isolate our communities and resources today

2. Affordable Energy

- Dependable Power
- Affordable Energy
- Diesel used for heat and electricity is largely imported
- Few Transmission Grids

Economy

- Economy (jobs) means access to our God Given Resources:
 - Minerals
 - Oil and Gas
 - Forests
 - Mammals
 - Fisheries
 - People!

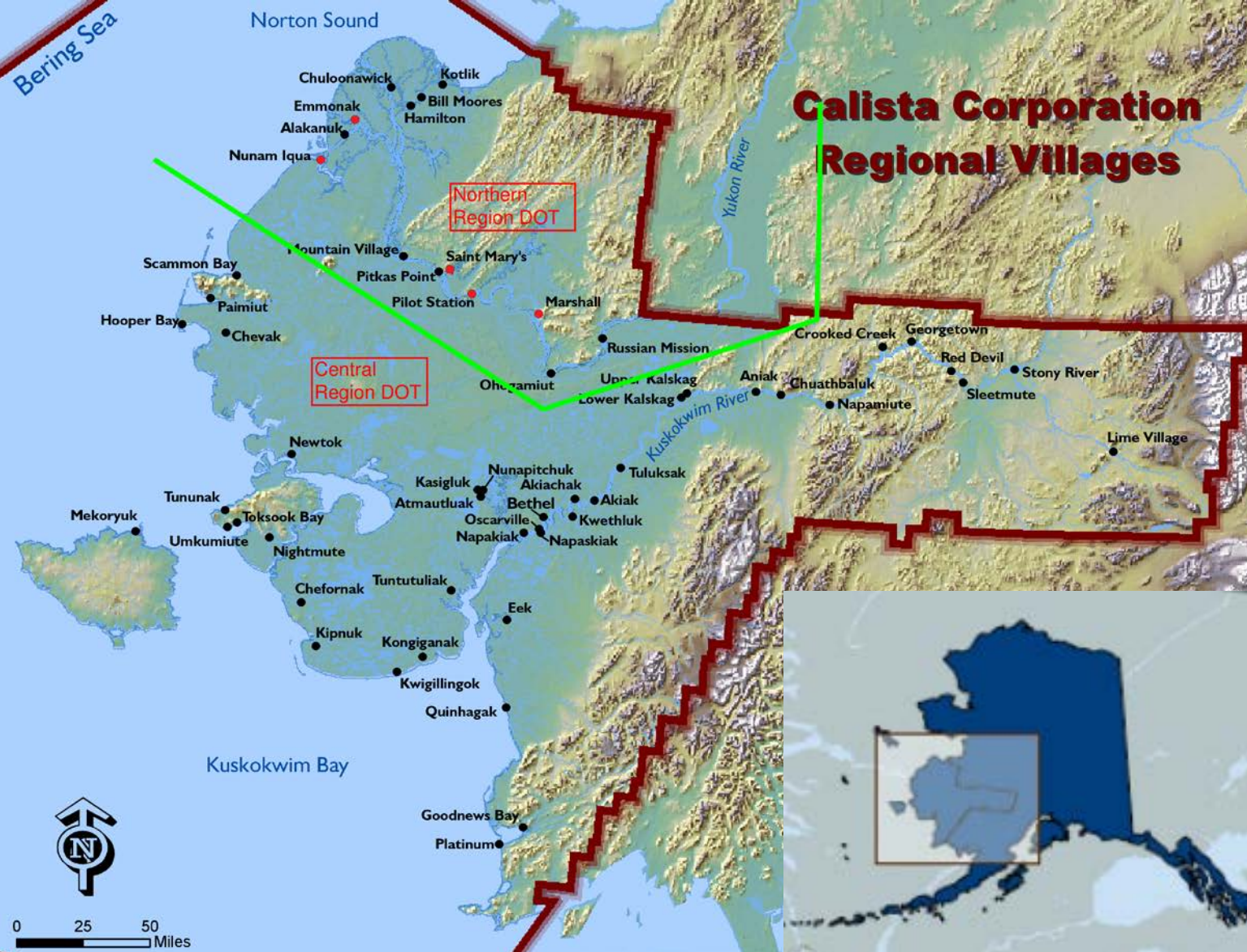


Pilcher Mtn. at Marshall, AK



Barge docked at Emmonak, AK





57,000 sq. m. vs. IL 56,343 sq. m. #24 in US

Demographics	Calista Region	Alaska
Population	25,735	737,259
Median income	45,933	70,760
High school education	78.1%	91.6%
Bachelor's +	8.6%	27.5%
Persons below poverty	27.1%	9.9%
Persons under 18 years	39.1%	25.6%
Unemployment Rate	17.6%	6.3%

Source: US Census

January 2015	Y-K Delta	On-Road	Statewide
Heating Fuel	\$6.38	\$3.41	\$5.10
Gasoline	\$6.90	\$3.42	\$5.80

2012 Fish & Game	Households	Est. Harvest/lbs
Subsistence	Harvesting-Sharing	All Resources
Bethel Hub	85.1% - 70.1%	954,525



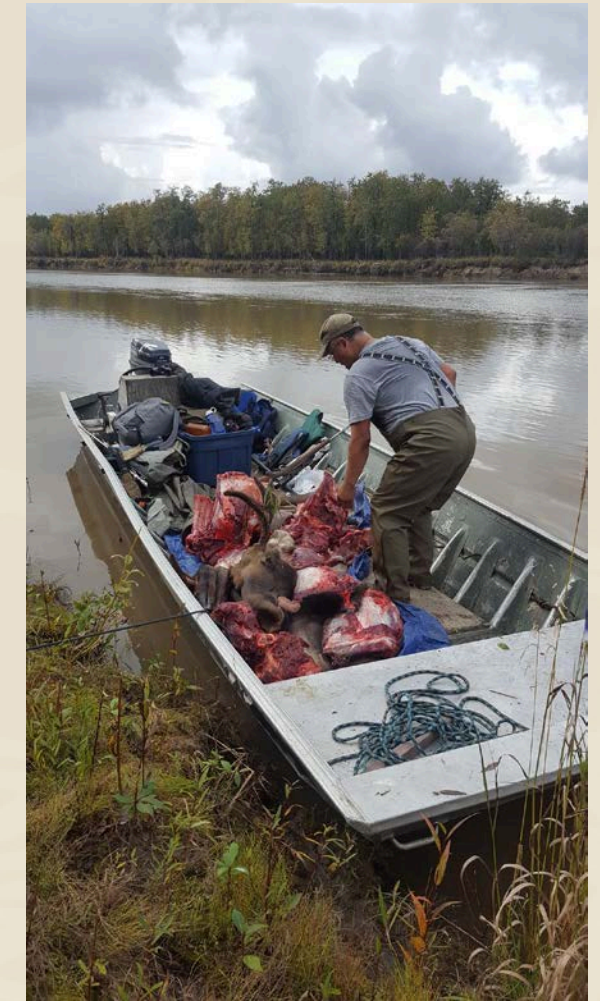
Calista Energy Management Assistance Initiative

- Aims to provide technical assistance to the 56 tribal communities
- Reduce costs of electricity and heating
- Improve operational efficiency
- Enhance human capacity & job opportunities
- Integrate energy plans, i.e. AVCP Inc. , system maintenance & development efforts across communities
- CEMAI will create a regional roadmap, increase economies of scale and foster resilient service delivery
- CEMAI will measure and benchmark energy performance outcomes/costs across communities
- Assist with Rate Setting and Financial Planning
- Provide access to experts across region, state and nation
- Facilitate intra-regional communication, education and outreach
- Aggregate needs and opportunities through an IT platform



Reduce energy costs to facilitate subsistence

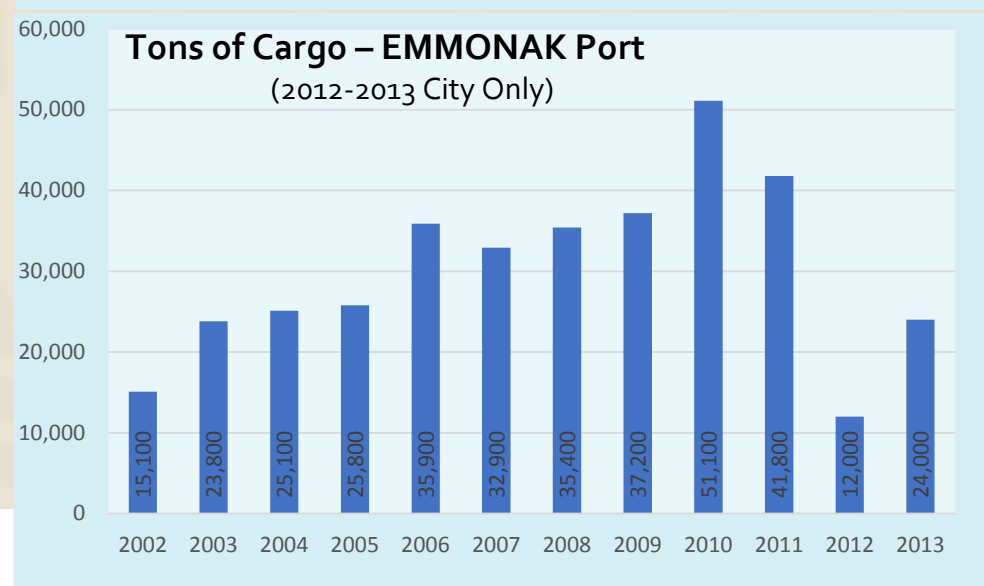
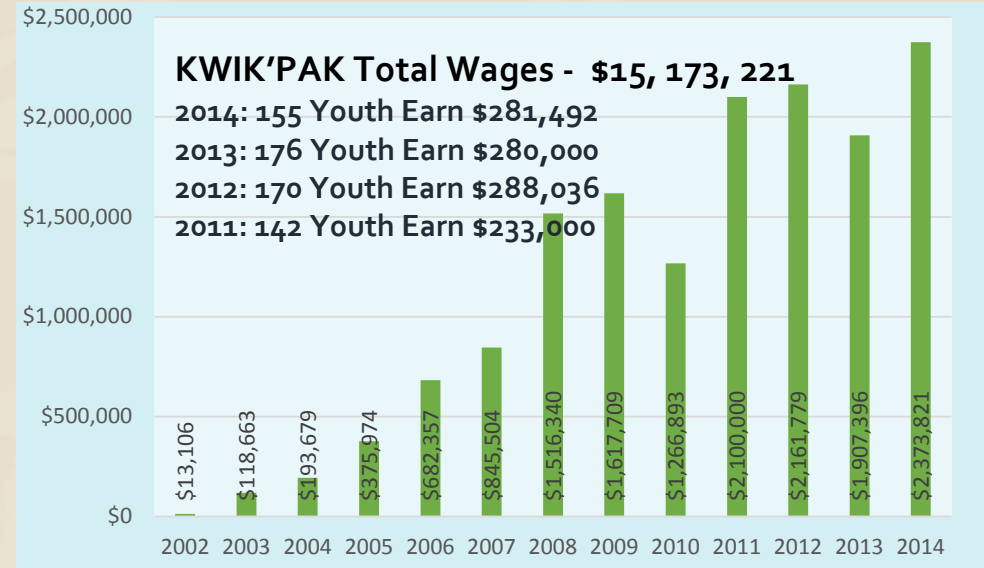
- Replace Old Refrigerators
- Install LED lights
- Energy Efficiency Assessments of Homes
- using thermal imaging cameras
- blower door tests



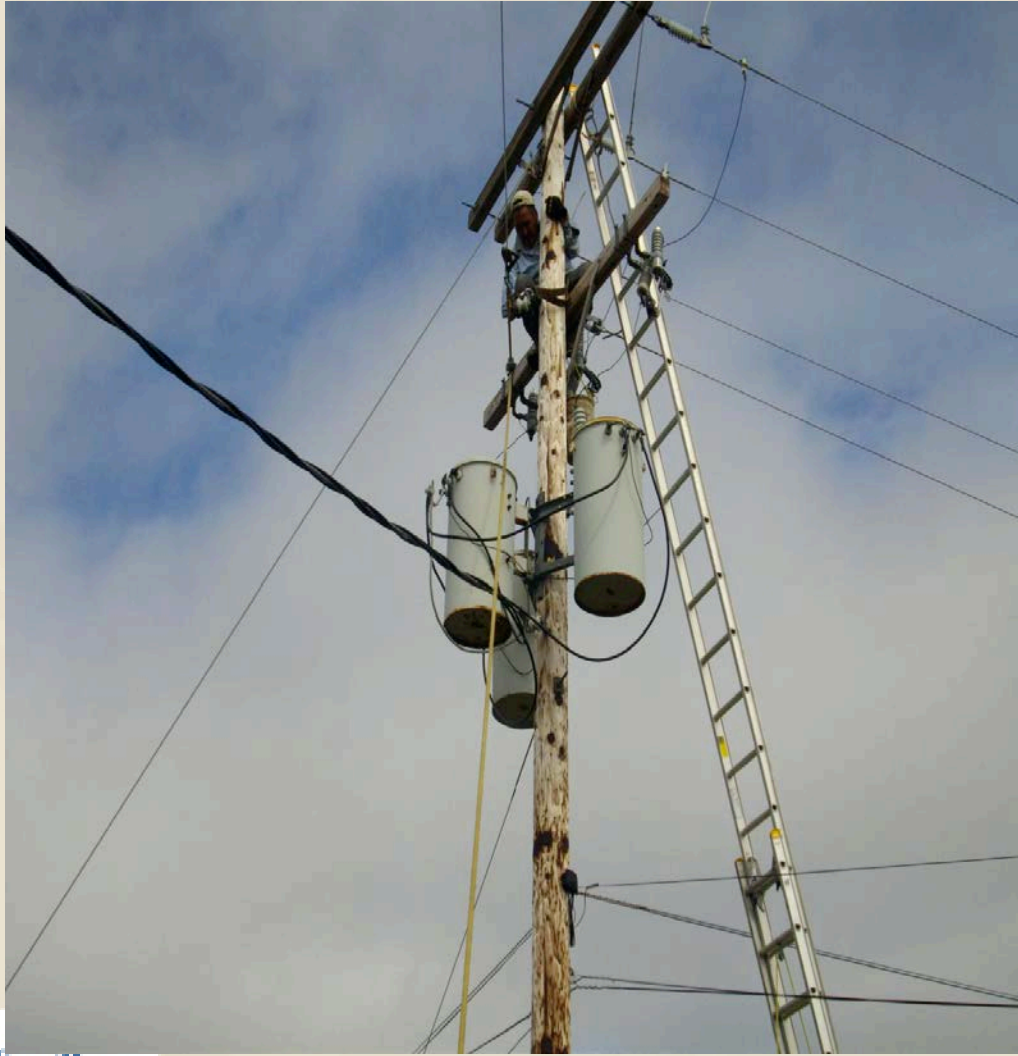
Capacity Building: Reduce cost of energy for Industry



Skiff Manufacturing/Repair
 243 Skiffs built since '99
 2014 9 employees Earn \$298,405



Capacity Building and Training

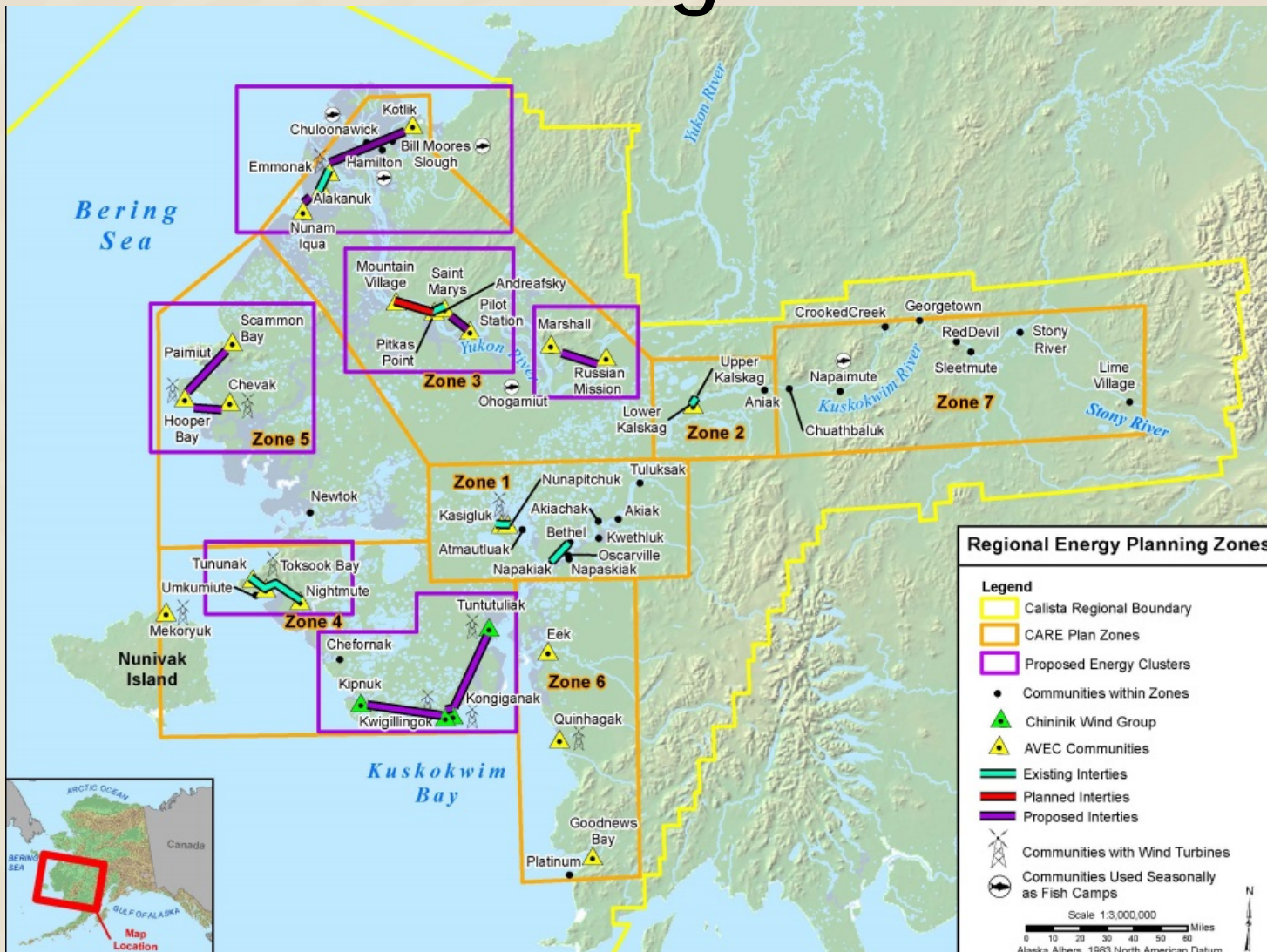


Solution: Village Cluster Consolidated Services

High Cost of Energy Threatens Sustainability

AVEC, Inc.	No PCE	PCE	Anchorage	Alaska
Cents/KwH	59.17	39.55	13.48	17.88

- Access:** commit to link villages by road
- Energy:** commit to transmission lines
- Coordination:** of the shared public services, infrastructure, Maint. & Ops.
 - Power Plants
 - Schools-institute regional high schools
 - Airports
 - Sub-regional Clinics already implemented



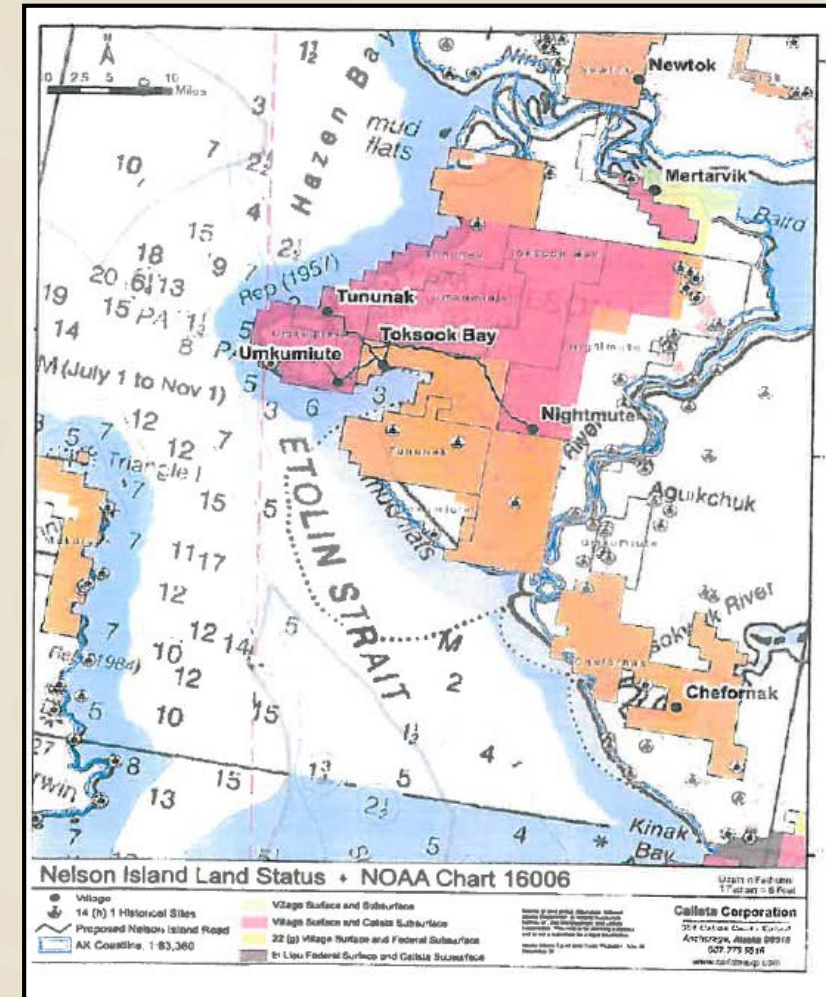
Village Cluster Consolidated Services

State Benefits:

- Reduce Duplication
- Economies of Scale
- Coordinated State Agency Master Plans
- Sharing of Resources
- Centralized, Better Schools
- Leverage Limited State Capital & Operating Funds

Local Benefits:

- Linked Communities
- More Reliable Power
- Cheaper Energy and Transportation Costs
- Higher Quality Services
- Improved Education for Rural Students
- Improved emergency services and resources

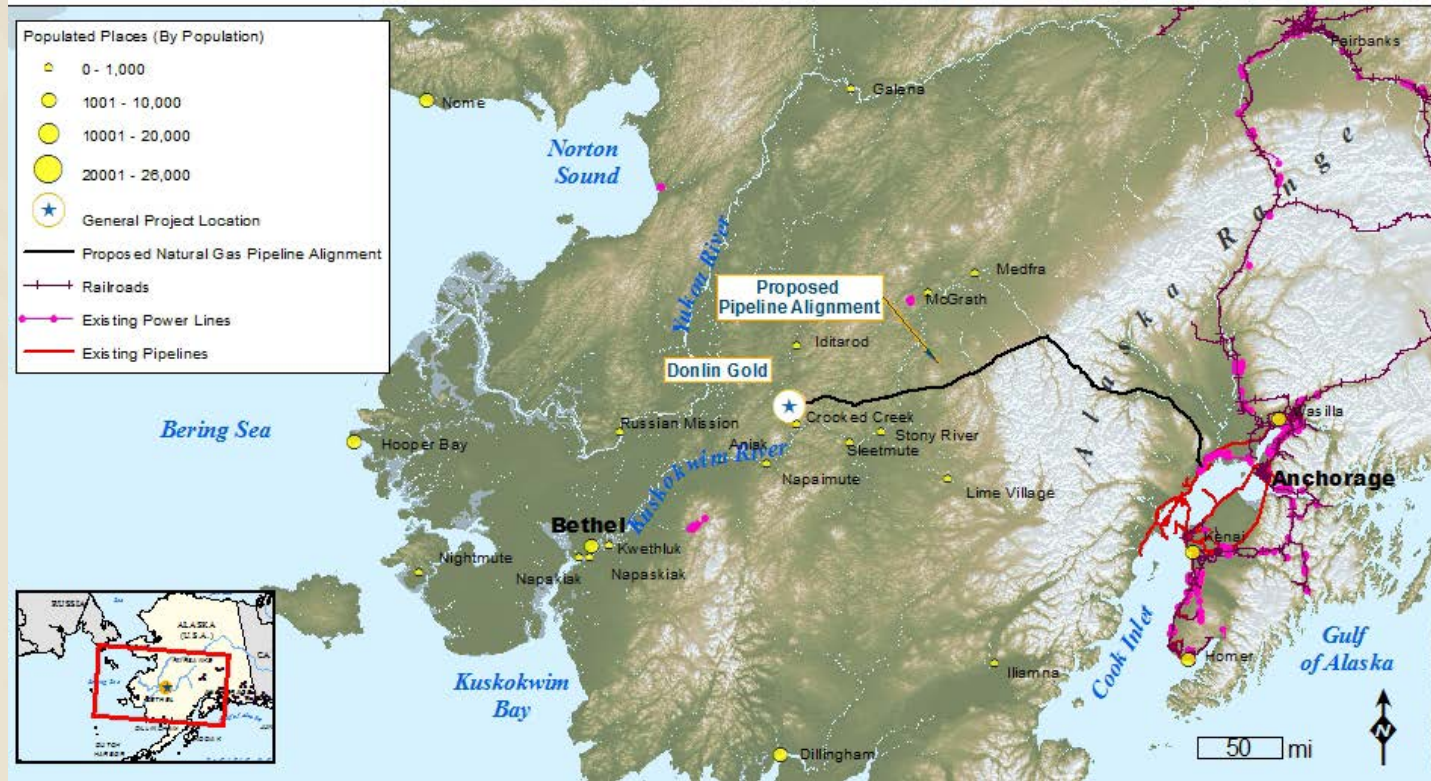


Toksook Bay Cluster Communities



Donlin Creek Mine Proposes Affordable Energy

\$1 Billion pipeline privately financed



- Provides dependable power
- 315 mile buried 14" natural gas pipeline
- Capacity to transmit < 5% of the proposed Alaska LNG project
- **Affordable energy** for the region
- Potential to expand into an energy grid for the planned cluster community electric interties



Quyana - Thank You!

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