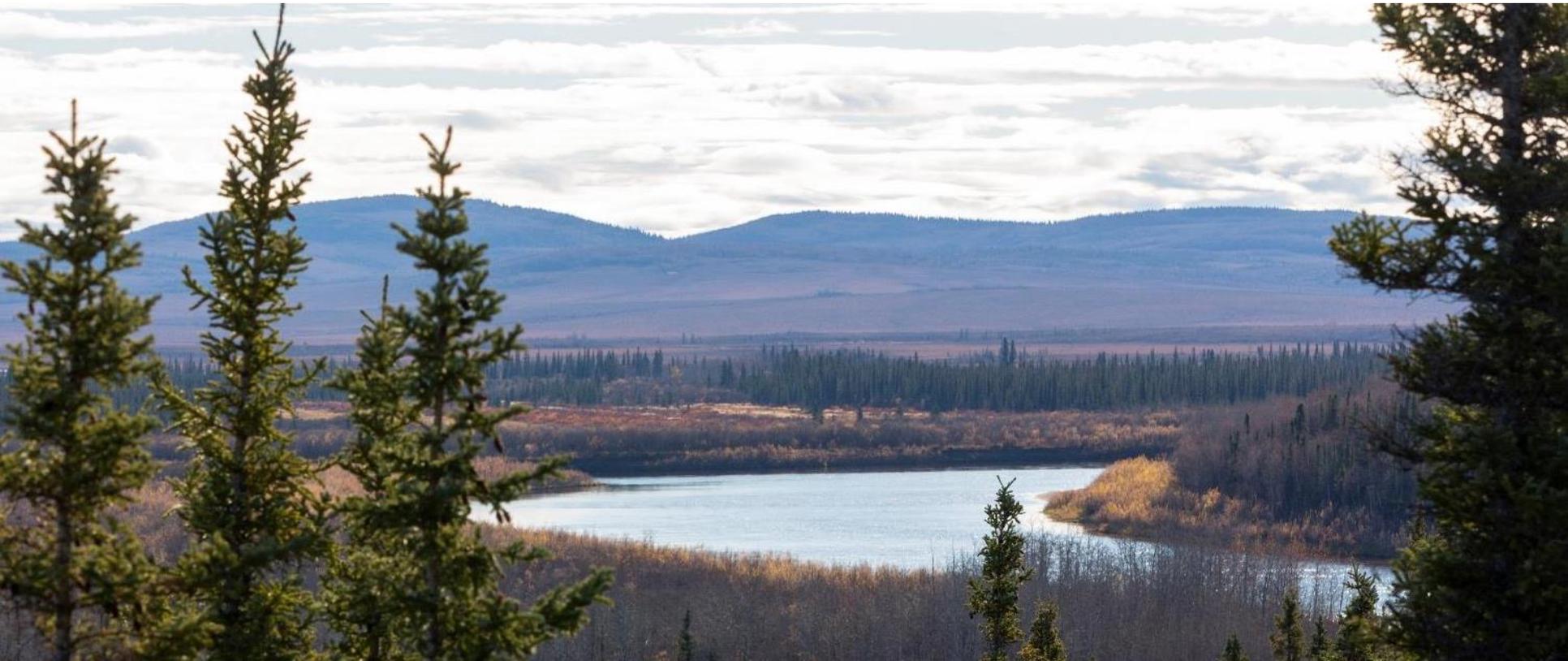


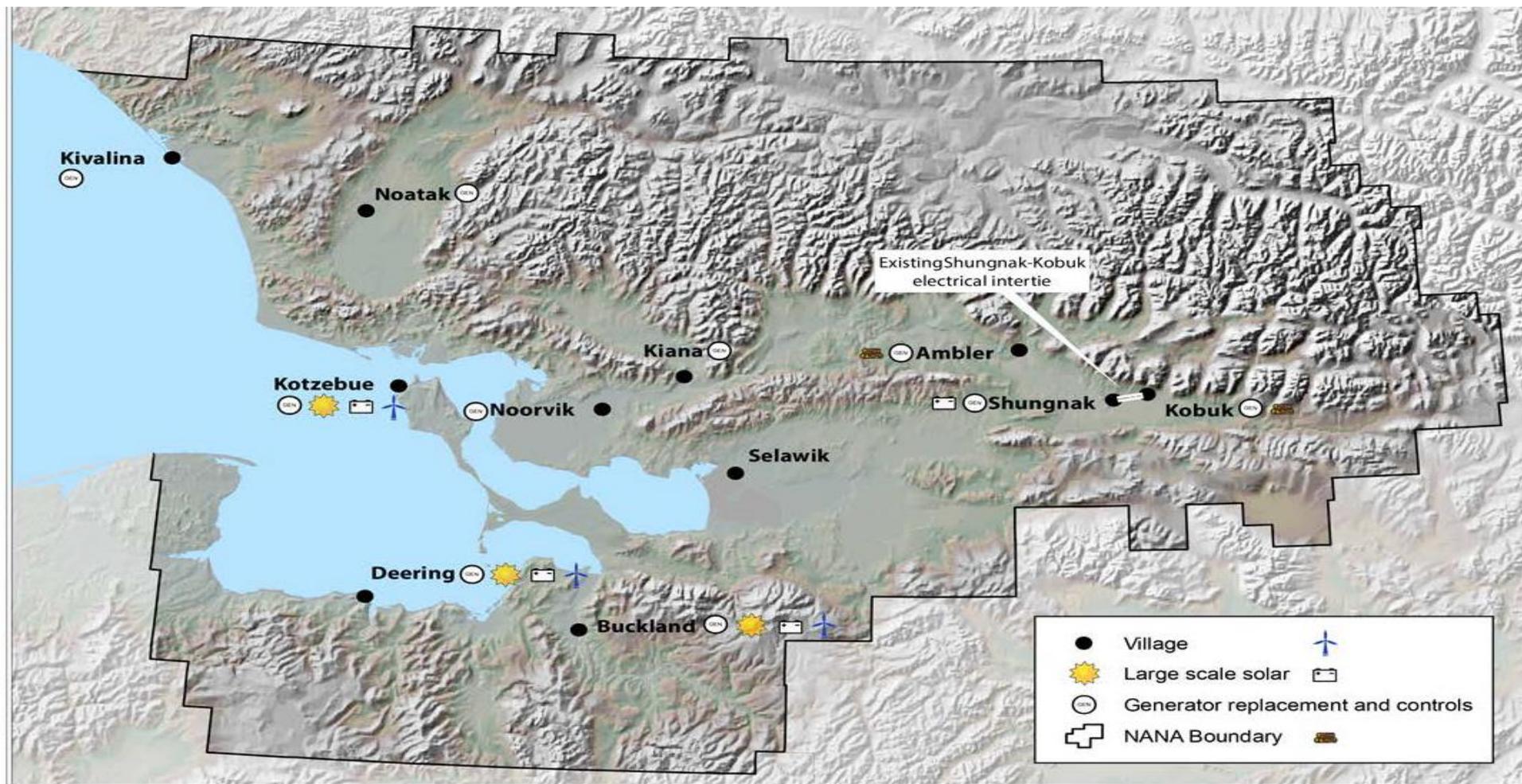
NANA



ATAUTCHIKUN

ETIPP Regional Meeting
October 24, 2025





Energy Projects in the NANA Region

NOT FOR NAVIGATION

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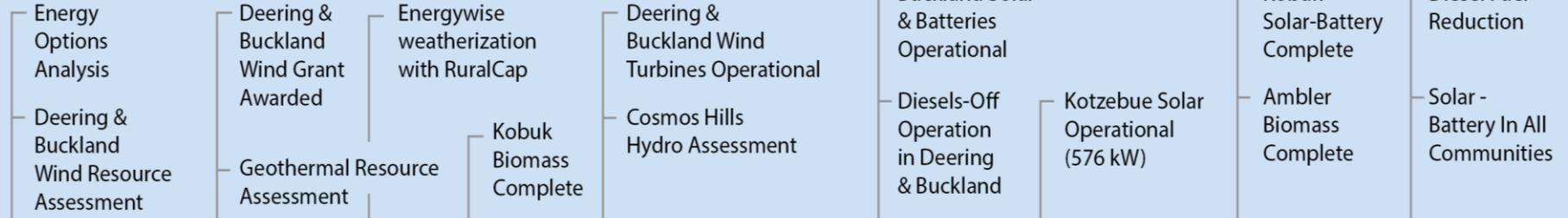
Fuel Prices & Electric Rates

WHY ARE WE DOING THIS??? 2025 ENERGY PRICES IN...	Gasoline \$/G	Stove Oil \$/G	Electricity \$/Kwh (1-750) PCE	Electricity \$/Kwh (>750) NO PCE
Kotzebue	\$8.99	\$8.59	\$0.30	\$0.47
Ambler	\$15.97	\$15.97	\$0.32	\$1.01
Kobuk	\$11.36	\$10.77	\$0.28	\$0.81
Shungnak	\$7.75	\$7.34	\$0.28	\$0.83
Kiana	\$7.47	\$8.24	\$0.27	\$0.68
Noorvik	\$8.25	\$7.95	\$0.31	\$0.75
Selawik	\$6.66	\$7.72	\$0.33	\$0.76
Buckland	\$6.96	\$6.79	\$0.20	\$0.50
Deering	\$6.10	\$7.75	\$0.20	\$0.67
Kivalina	\$7.04	\$6.78	\$0.29	\$0.72
Noatak	\$15.58	\$17.23	\$0.49	\$1.27

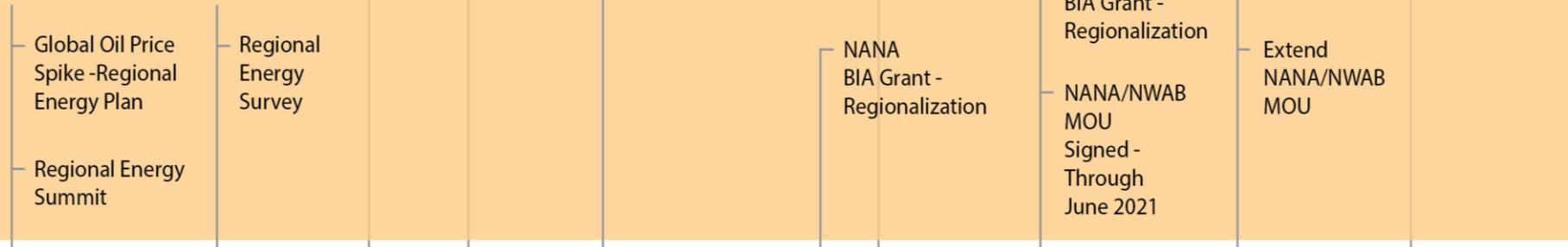
NANA/NWAB Village Energy Program – Past, Present, Future



TECHNOLOGY INNOVATION/COST REDUCTION



REGIONALIZATION



WORKFORCE DEVELOPMENT



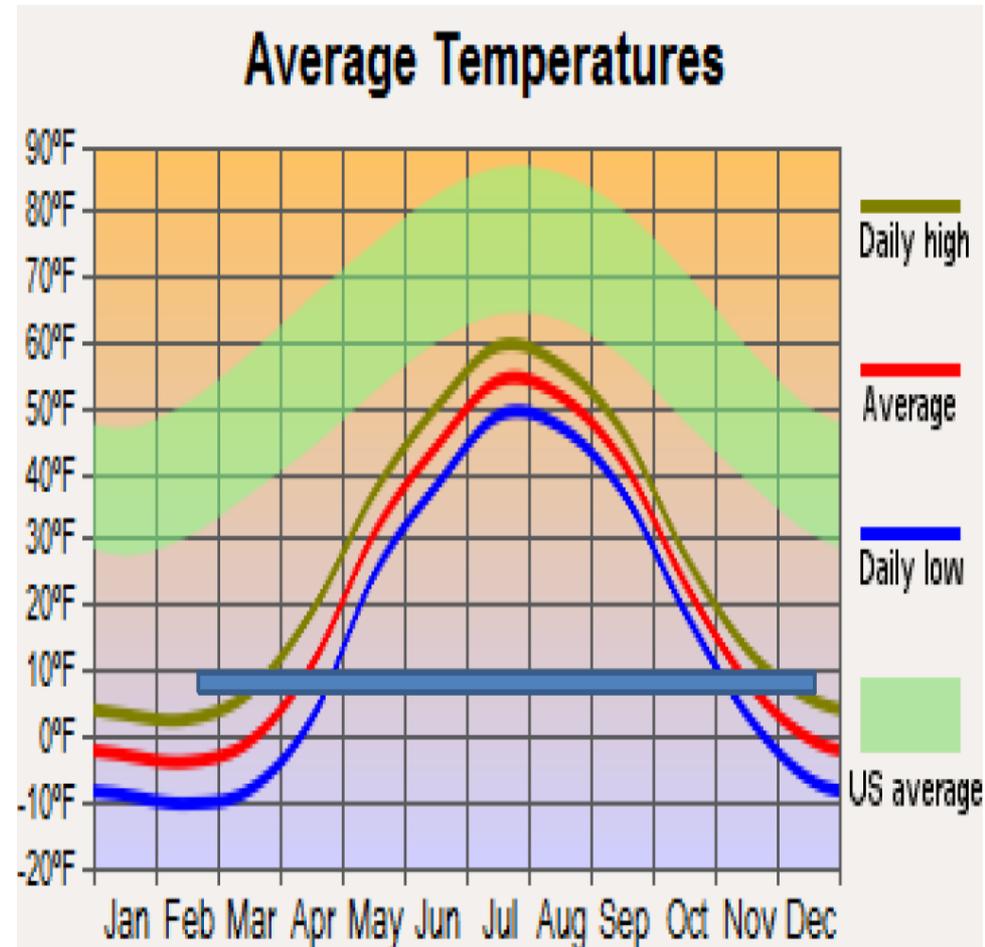
2008 2009 2011 2014 2015 2016 2018 2019 2020 2021 2026

Energy- What We've Learned So Far

NANA/NWAB Role in energy for our region

1. **Project development**, including stakeholder coordination
2. **Grant writer/fund seeker** – innovative approaches
3. Advocating for change in State and Federal policies
4. Infrastructure planner
5. Communicating NWALT (NorthWest Arctic Leadership Team) energy priorities to stakeholders
6. **Update Energy plan**
7. **Research arctic-appropriate technologies** (e.g., heat pumps-NWAB, batteries, solar, diesels-off)
8. Regional Energy Authority/Joint Action Agency

Harvest season for Solar PV & Heat-pumps



Alaska Mini-Split Heat Pump Calculator

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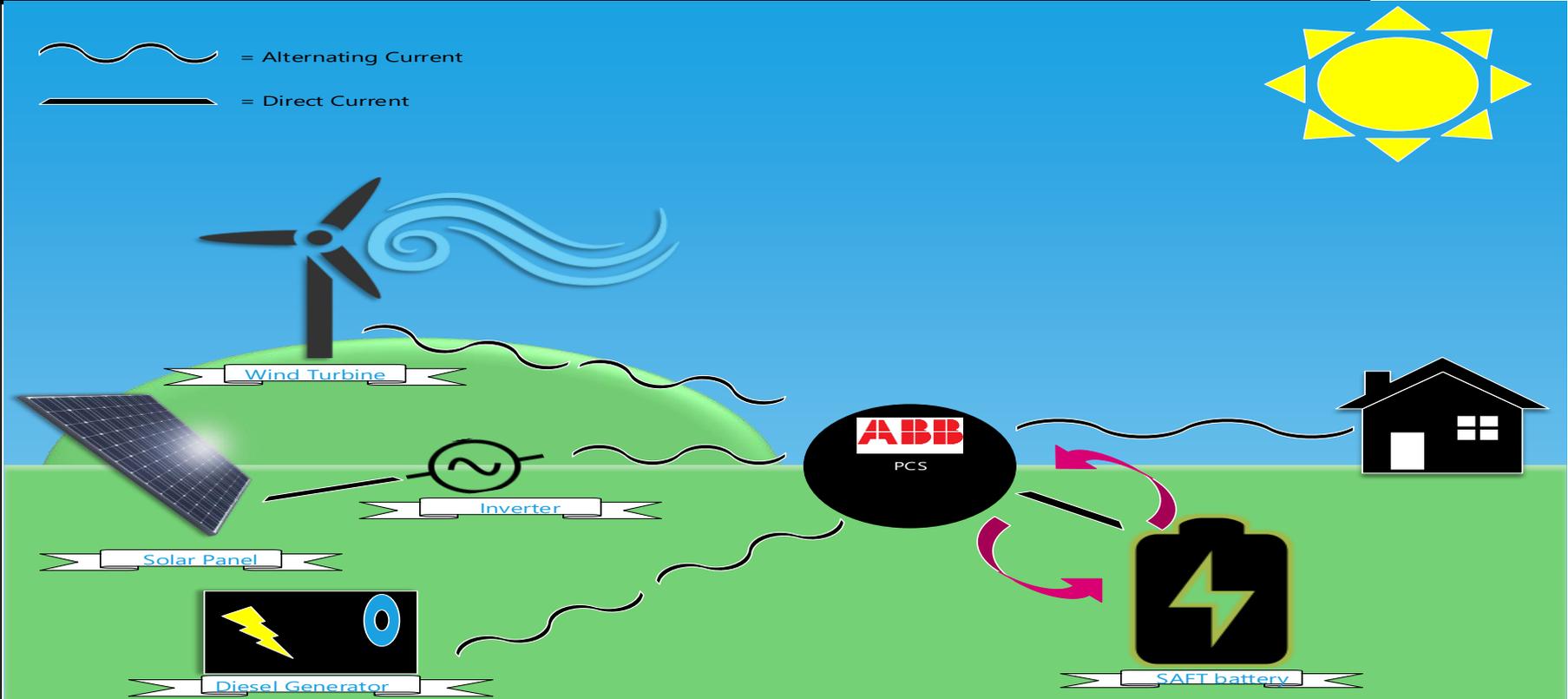


Alaska
Housing
FINANCE CORPORATION



AVEC
ALASKA VILLAGE ELECTRIC
COOPERATIVE

 = Alternating Current
 = Direct Current



- Project labor, materials, and logistics costs are higher in the NANA Region.
- Out migration of people from villages may create more of an energy crisis for the village.
- Workforce development – need succession plan of energy champions.
- Climate change
- Energy subsidies continues to be threatened.
- Remote communications to microgrids off the road system can be challenging.
- Power plant upgrades are needed to integrate renewable energy.

- DOE OCED Project – Replace a 10-mile overhead distribution tie-line between the villages of Kobuk and Shungnak with medium voltage direct current (MVDC) and power converters. 858 heat pumps.
- NTIA Broadband Grant – NANA was awarded \$65M to install broadband interconnecting the 11 villages.
- Potential Transmission line projects:
 - Ambler - Shungnak
 - Kiana - Noorvik
- Transmission lines are vital to promoting economic development and energy security.
- Cosmos Hills Feasibility Study stream flow data shows the hydro project can produce electricity and heat for Ambler, Shungnak, and Kobuk (8 months out of the year).
- Create Tribal Independent Power Producers (IPP) to keep more money in the village.



Taikuu