

# ROAD BELT INTER-TIE

(RBIT)

## EXPANDING ALASKA'S INFRASTRUCTURE AND DEVELOPMENT

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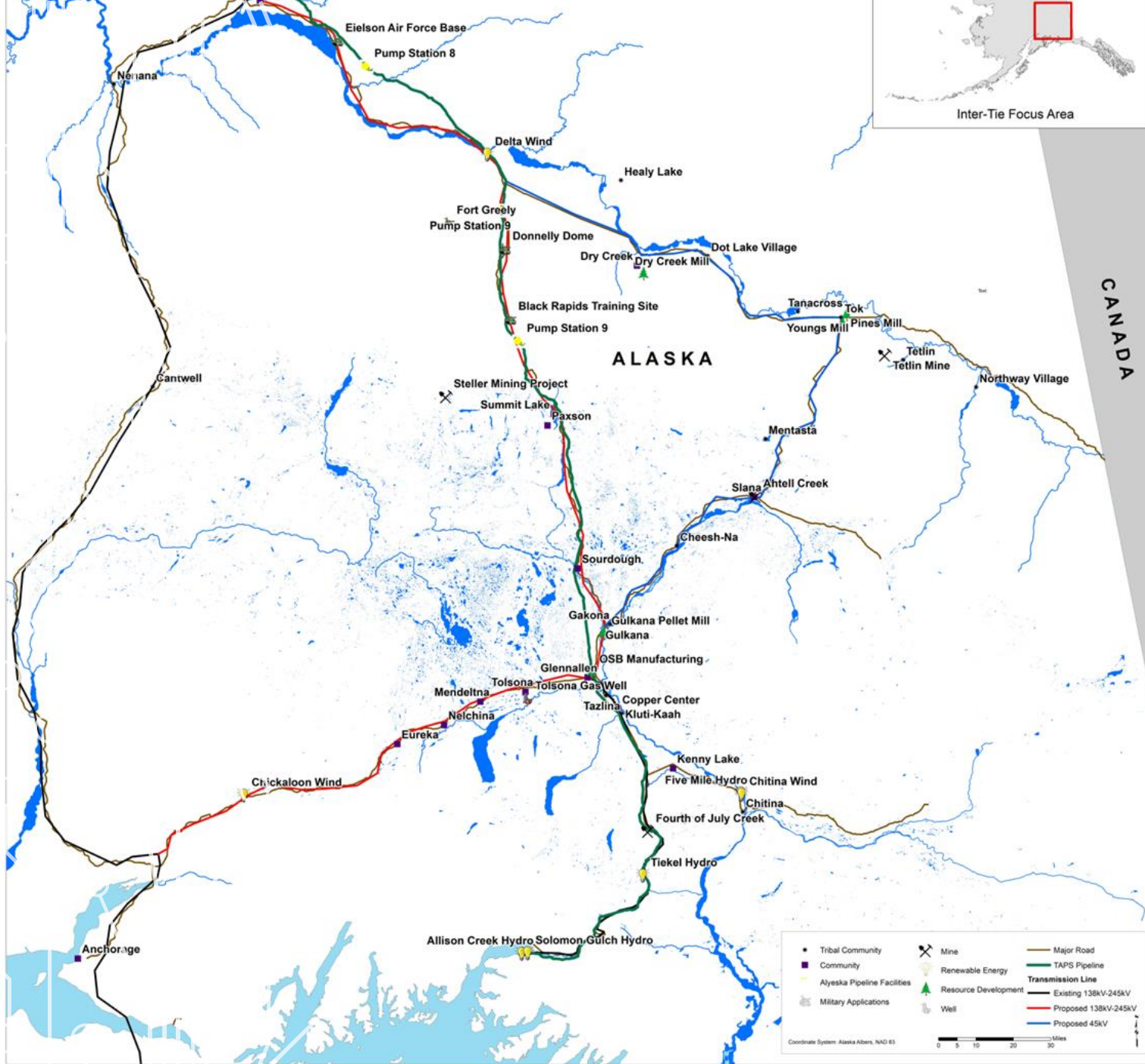


# NOT RBIT'S FIRST RODEO

- Historically, this project was considered and studied in the late 1980s and mid-1990s with much of the ground work for this transmission line done. Many of the earlier studies can be found at <http://www.cvea.org/aboutUs/projectreports.htm>

# CURRENT PROJECT PROPOSED TRANSMISSION RUNS

- Phase 1 Sutton-Glennallen-Delta = ~286 miles at 138KV to 245kV
- Phase 2 Gakona-Tok-Delta = ~227 miles at 65kV
- Could utilize existing ROWs with exception of ~100 miles of gaps
- Completes a bus loop around the road system of interior Alaska and connect to the “Rail Belt” electrical transmission line
- Electrical Grid the Size of Montana



# CURRENT CONCEPT



# PUBLIC PLANNING AND VETTING PROCESSES

- Copper Valley Regional Energy Plan with AEA Number 1 Priority
- Statewide Energy Planning with AEA Top Priorities
- Copper Valley Regional CEDS (Comprehensive Economic Development Strategy- US EDA) Top Priority
- Statewide CEDS Top Priority (with US EDA and AK DED of DCCED)
- Ahtna Tribal Energy Plan Number 1 Priority (US DoE-OIE)
- Tanana Chiefs Conference Energy Planning Priority (US DoE-OIE)
- Tanana Chiefs Conference CEDS Top Priority
- FBNS Borough CEDS Top Priority

# SUPPORT AND RESOLUTIONS

- AFNs Only Energy Resolution 2017 was RBIT!
- Native Organizations impacted and supportive of this project effort are approximately 12 Tribal Governments, 12 Village Corporations, 4 ANSCA Corporations (Ahtna, CIRI, Doyon, Chitina), Ahtna Inter-Tribal Resource Commission, Tanana Chiefs Conference, Copper River Native Association, , NV Chickaloon and many more.
- CVEA, AP&T, MEA, Golden Valley, APA (Alaska Power Association)
- Copper Valley Development Association (ARDOR)
- CV Chamber of Commerce
- Meetings and Discussions indicative of support...

# CURRENT COSTS AND CONSUMPTIONS INHIBITING DEVELOPMENT

- Most communities in this project area are paying 300-500% more than the national average (.12/kwh is Nat. Ave.).
- Communities are electrified by multiple micro-grids consuming approximately 4 million gallons of diesel per year. Emissions and other issues plague these small grids.
- PCE does not cover commercial electricity which is ~60% all electrical consumption in these communities.
- Electrical costs directly correlate to business/ resident closure and relocation.

# ECONOMIC AND NATURAL RESOURCE DEVELOPMENT

- Cheaper electrical power opens the door for BRE (Business Retention and Expansion), allows business plans to pencil out (e.g. Three Bears, etc.)
- Necessary Infrastructure for Economic Development.
- Timber and Lumber Industry (e.g. OSB manufacturing, lumber mills, biomass pellet and brick plants, etc., etc.)
- Mining operations that could open benefit : Ft. Knox, Pogo, Stellar Mine, Ahtell Creek Mine, Tetlin Mine, 4<sup>th</sup> of July Creek Mine, etc. etc.
- Tourism, Fishing, and Transportation Industry benefits
- Alyeska Pipeline benefit with cheaper energy for pumping oil and cathodic protection at its non-grid connected pump stations (8 & 9) .

# MILITARY BENEFITS AND BUILD UP

- Energy IS National Security!
- Military Bases that would benefit from RBIT: Black Rapids Training Facility, Donnelly Dome Range, Ft. Greeley, Eielson AFB, Ft. Wainwright, and Clear Lidar AFB.
- **REDUNDANT AND RELIABLE ENERGY NECESSARY!** Currently an 80 MW bottleneck at Eva Creek on Rail Belt. RBIT offers a redundant loop with more power capacity.
- Reduced cost for military with cheaper energy and redundancy.
- Signs of continued defense build up and growth.
- 25% Renewable needed and can be supplemented with RBIT

## OTHER INFORMATION

- Hierarchy of Needs for Infrastructure: Energy, Transportation, Communication – Already have 2 of the 3
- New Industry and Economic Development means potentially new revenue for the State.
- The region is Unorganized Borough and YOU are OUR Governing Body.
- This is also about people making hard choices...

Groceries or Electric Bill : Stay in Homeland or Migrate Outside

# WHAT'S NEEDED??

- Support from the Alaska State Legislature!
- RECON \$-Estimated at ~\$2 Million Soup to Nuts for Engineers Report
  - Outcome of this proposed reconnaissance study would be an actionable document to define a path forward for project development, a timeline and milestones table, beneficiaries and project participants, and indicative pricing and budget. (9 mos)
- Total Cost of Project Estimates:
  1. Phase 1 = ~\$200-\$300 Million (about 2 F-22's)
  2. Phase 2 = ~ \$100 Million (about an Abrams Tank)

## Where's this coming from??

It is expected that US Departments of Defense, Energy, Interior, Commerce, and Agriculture, along with Alaska state agencies, would be approached and contribute toward project deployment and construction, as well as beneficiary utilities, communities, and organizations.



# RBIT

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- Questions?
- Comments?
- Cries of Outrage?
- Thank you