

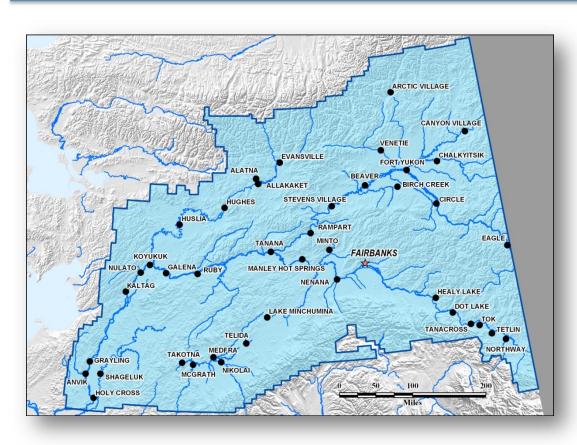
Dave Messier, TCC Infrastructure Director

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Working Together STRONGER FUTURE

TCC Region

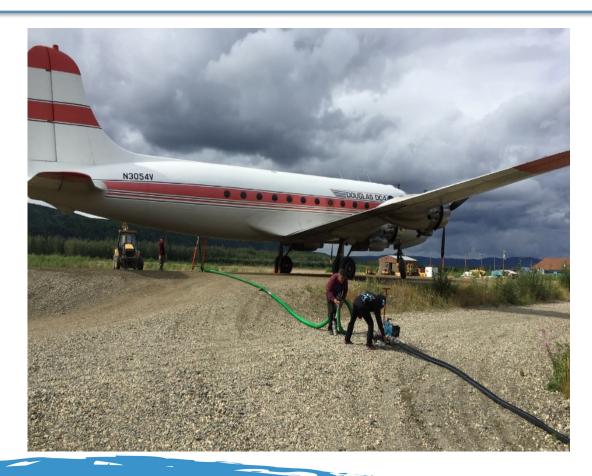


- •235,000 Square Miles
- •37% of the State
- Extreme Subarctic
- Majority off road system
- •Avg. Village load is about 100-150 people, 75kW load
- •Roughly the size of Texas, fewer miles of road that Rhode Island





This is where we are: "Tribal Energy Security?"





Solar in our Villages So, we started here...









Solar in our Villages But we really wanted to get here...

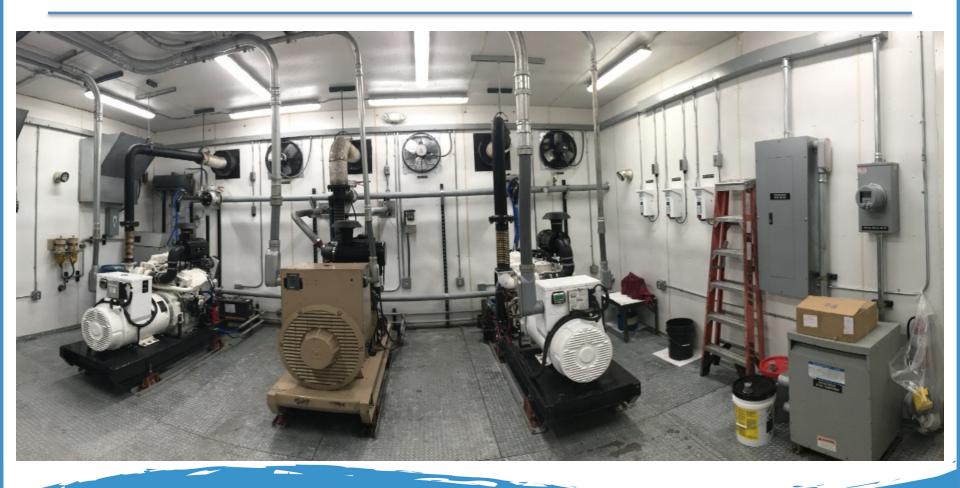


All we had to do was find funding, upgrade generators, re-tap gen heads, move the main feed, replace step up transformers, re-wire half the village, re-wire the switchgear, engineer a moveable building foundation, navigate contractor challenges, avoid the folks who said we were wasting our time, find good contractors who wanted to work in the bush, ID a suitable inverter system, educate the community, rework their local use of the PCE formula, establish a PPA, find more funding, improve the control system Then repeat 15 more time.





Power Plant Upgrades





Utility Collaboration

- Who is running the plant and how long have they been there?
- How pretty is your switchgear....
- Split phase or 3 phase?

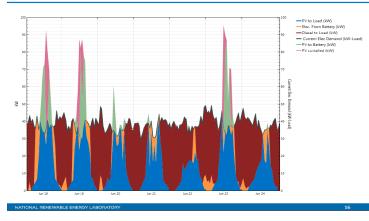




Diesel Off

"No Models are correct but some are Useful"

Dispatch – Nominal battery cost



← NREL Modeling

Actual Hughes Data→







Questions?

"Success is the constant process of overcoming obstacles"

-somebody smarter than Dave

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