

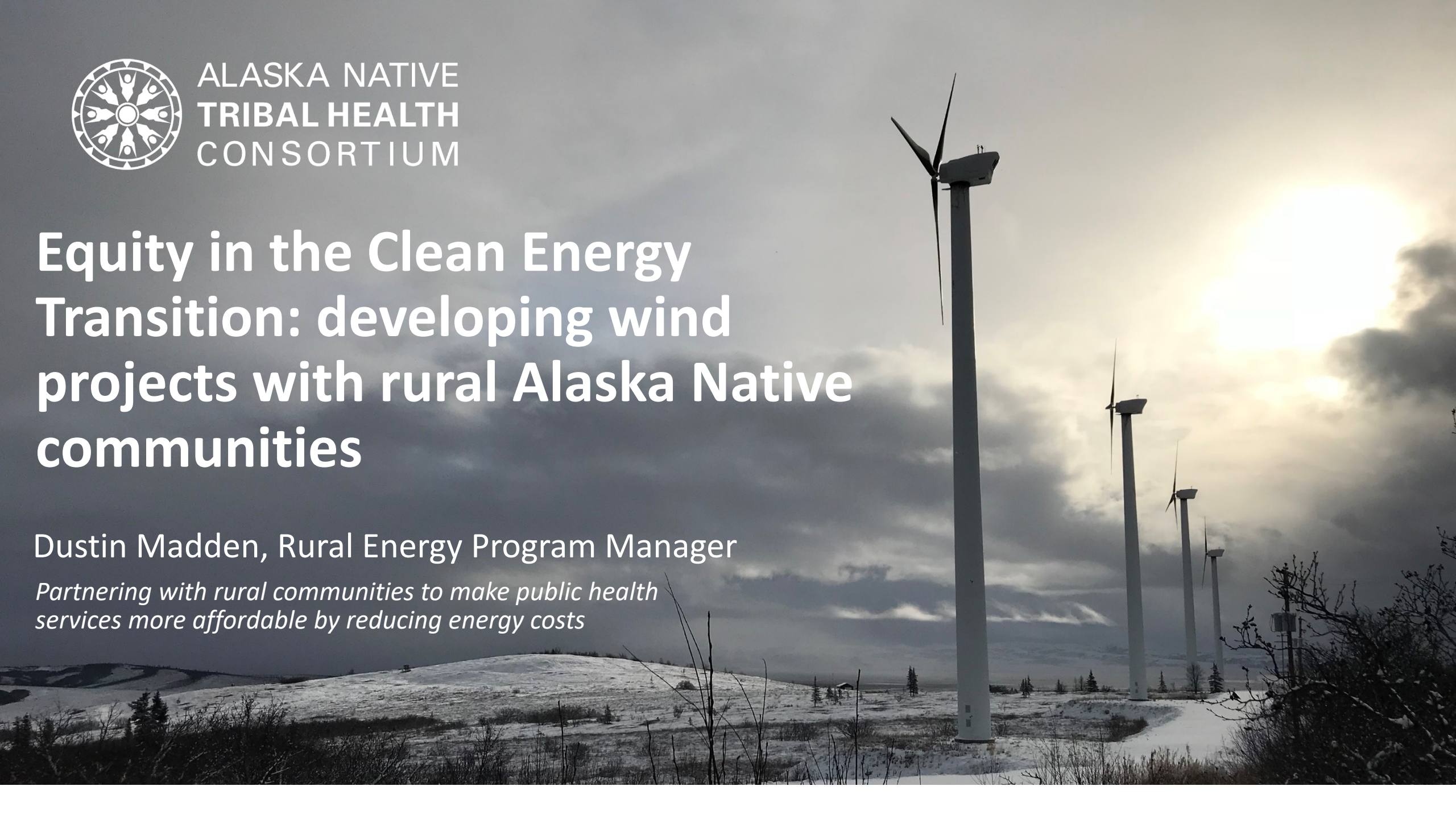


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TRIBAL HEALTH
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Equity in the Clean Energy Transition: developing wind projects with rural Alaska Native communities

Dustin Madden, Rural Energy Program Manager

*Partnering with rural communities to make public health
services more affordable by reducing energy costs*



- ANTHC overview
- Projects to benefit communities
- Developing cost effective projects
- Securing funding:
 - Grants
 - IRA tax credits



“Compact” I.H.S.

High energy costs

Tribal non-profit



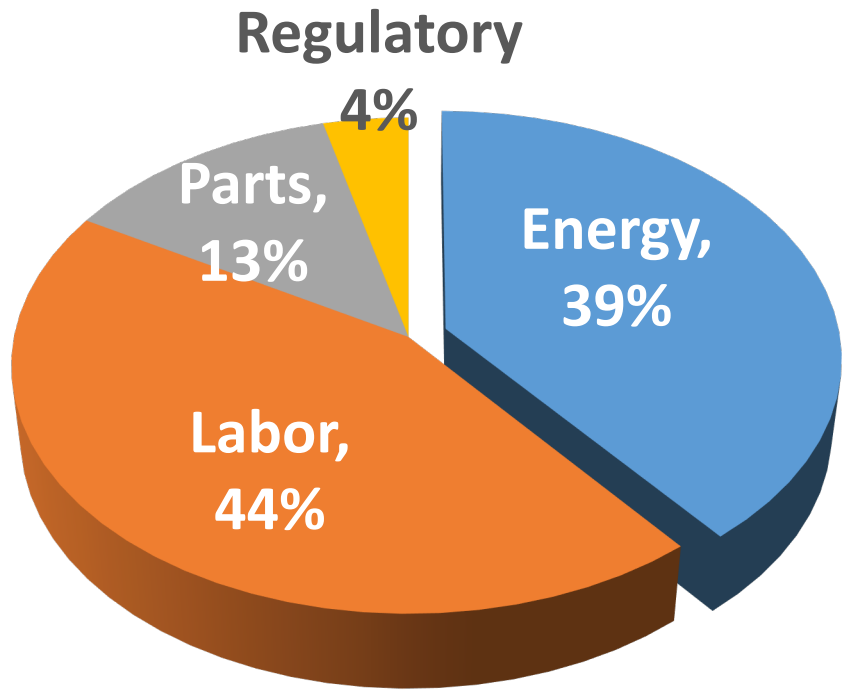
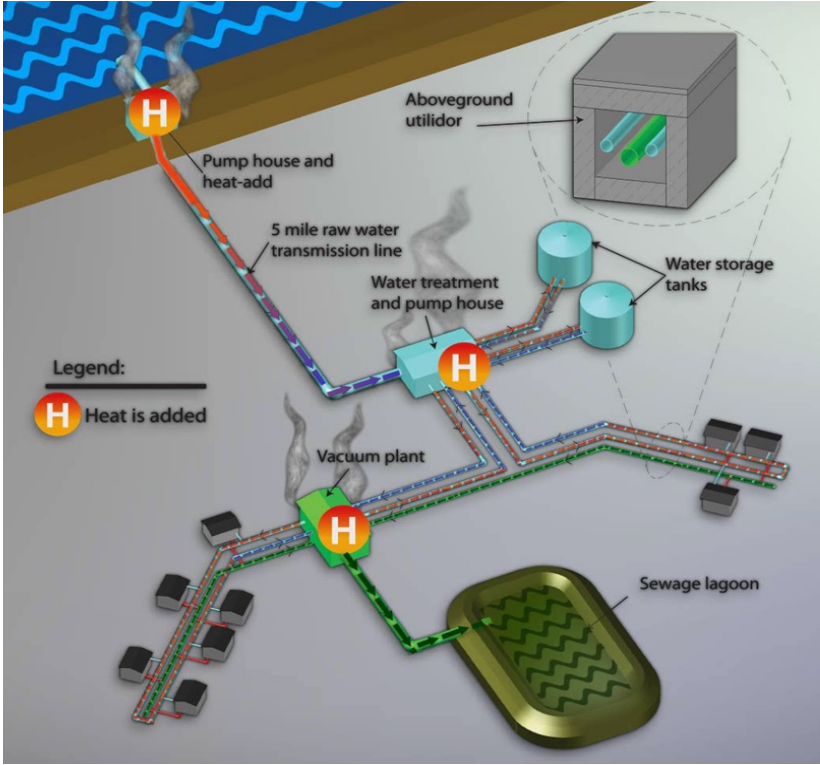
Water Infrastructure



Rural Energy Program



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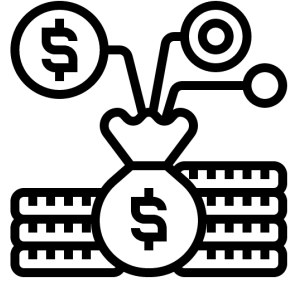
ANTHC Rural Energy: Supporting Communities



Identify



Analyze & Develop



Fund



Implement

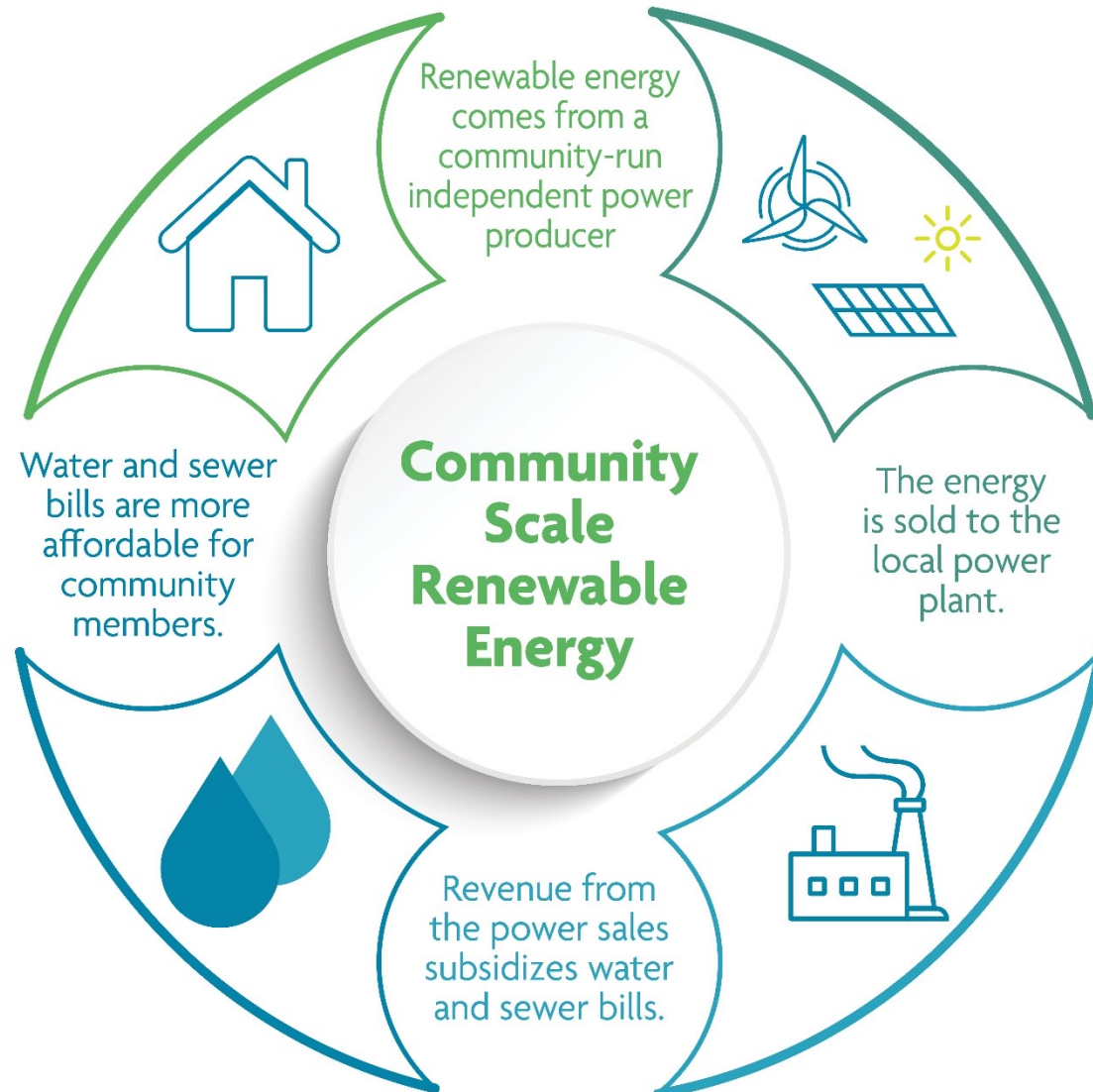


Save

Benefitting communities: IPP model



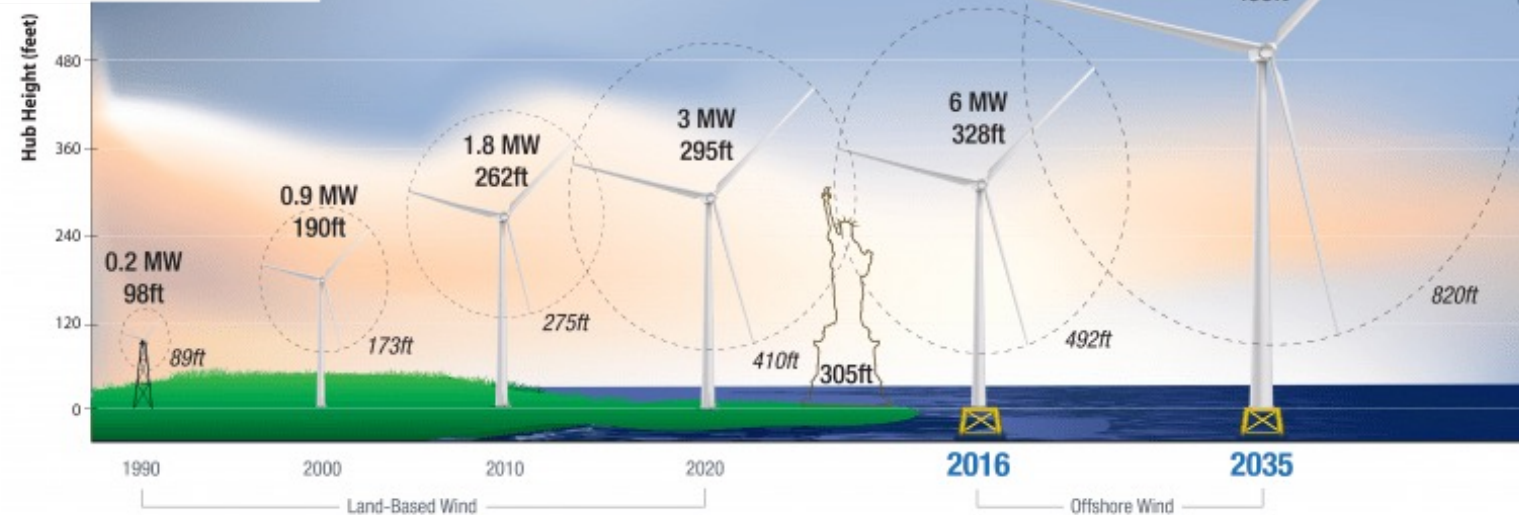
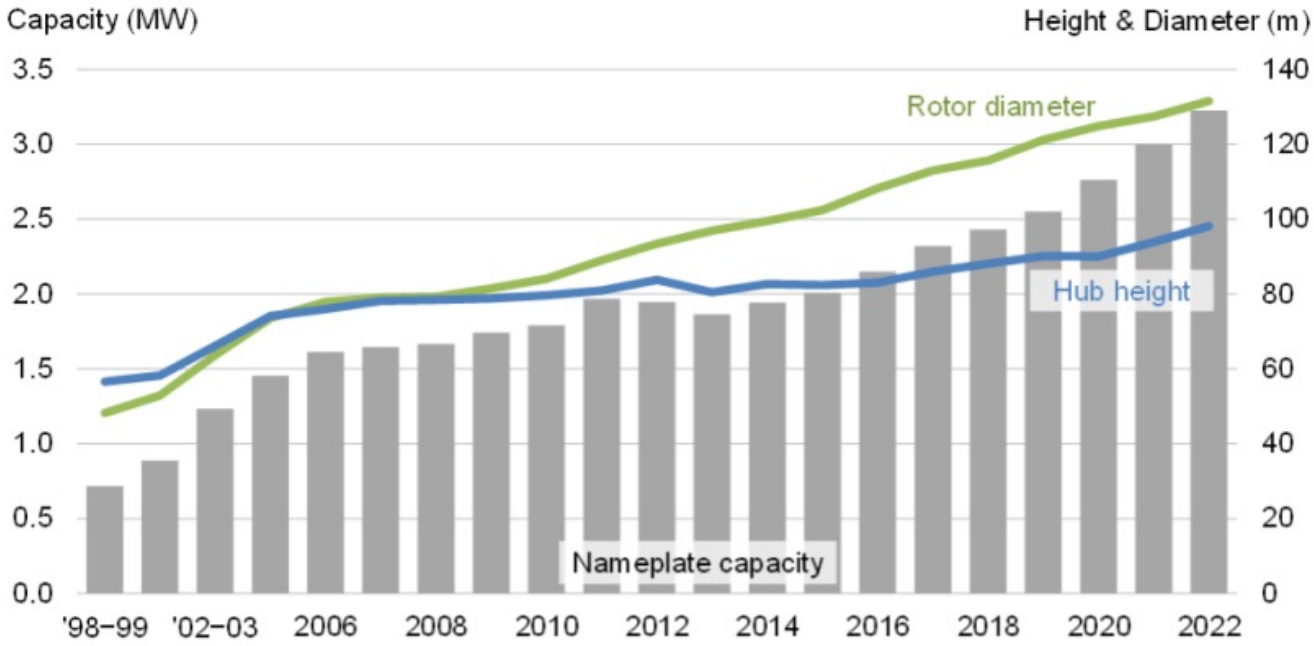
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- Holistic approach
- Household benefits
- Overcomes PCE disincentive
- Local control
- Incentivize widespread adoption

Cost effective projects: scale

- Average community loads:
 - Toksook Bay: ~380 kW
 - Chevak: ~225 kW

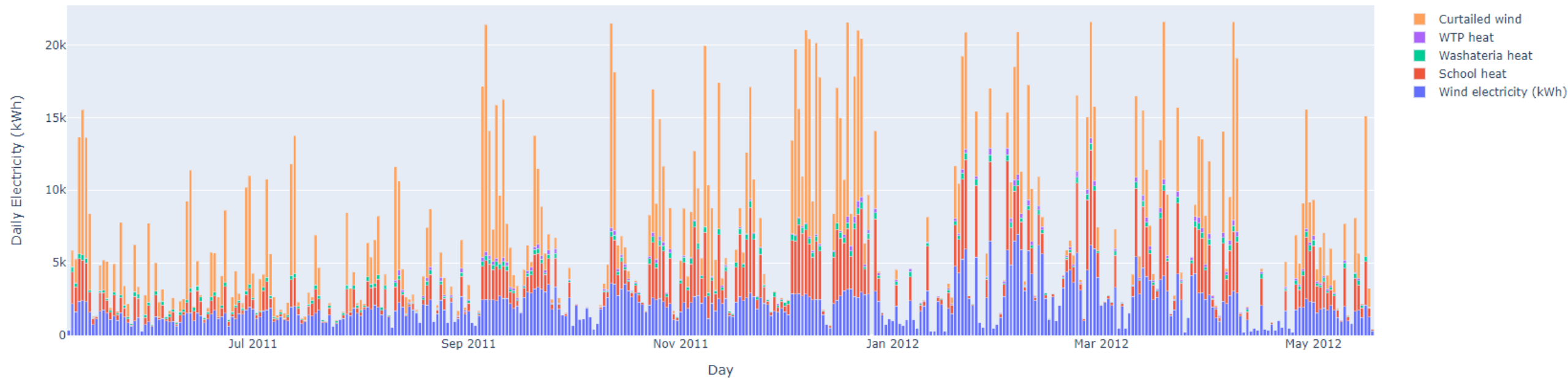


Cost effective projects: excess wind



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Breakdown of wind production with school: grid electricity, wind-to-heat, curtailment



Beneficial electrification



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- Partnering with ACEP to research economics
- Dispatchable electric loads:
 - Wind-to-heat
 - Community facilities: WTP, hospital/clinics, schools
 - Residential homes
 - Electric Vehicles
- Battery Energy Storage



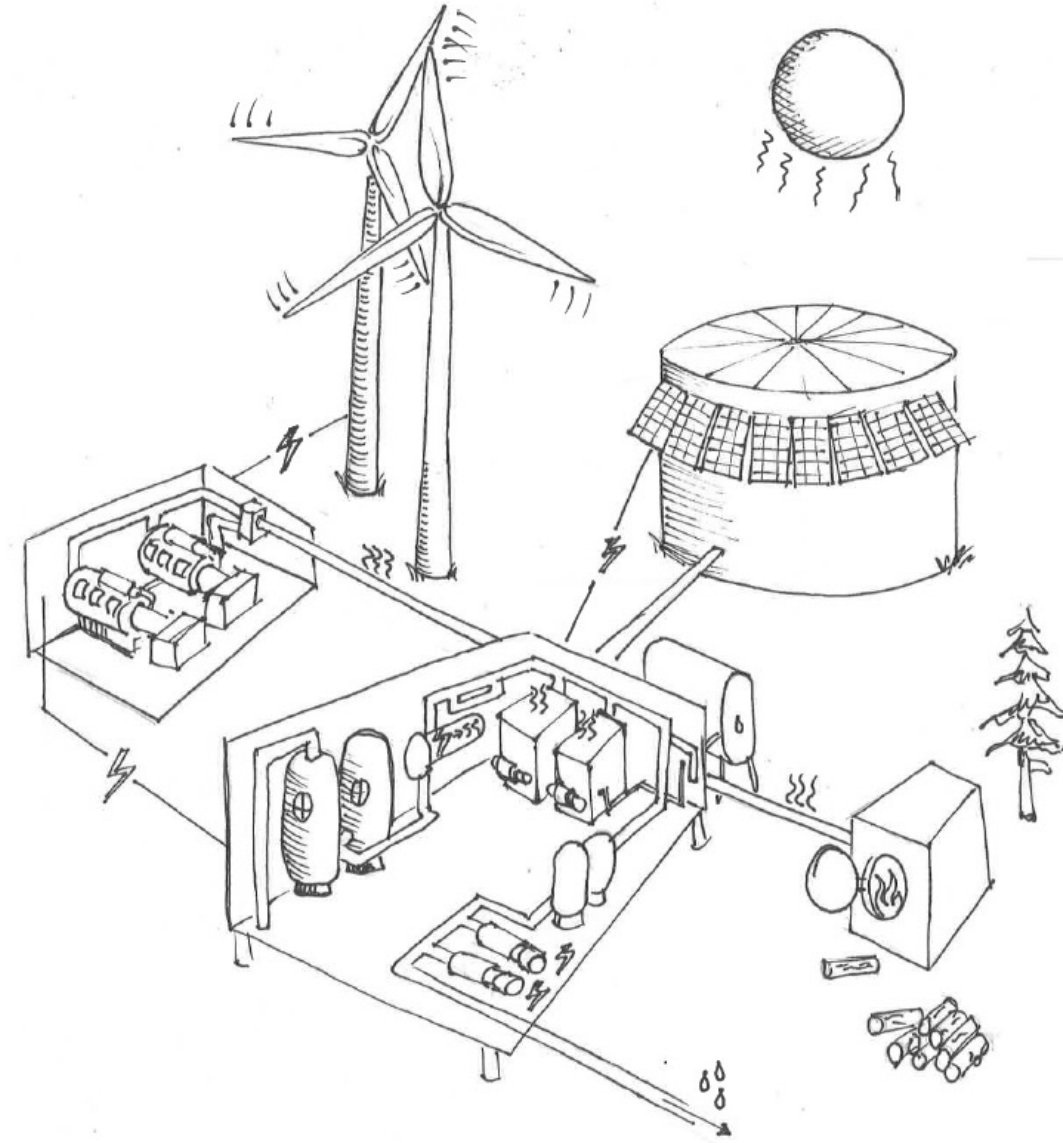
ANTHC installed a dispatchable electric boiler in the Maniilaq hospital that saves between 20,000-30,000 gallons of heating fuel annually

Funding projects: grants



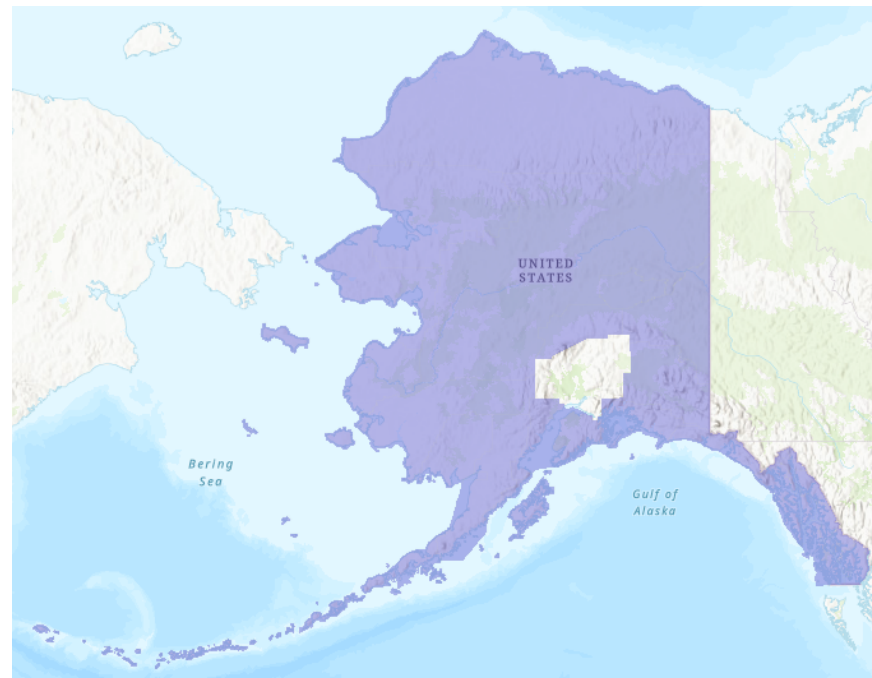
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- **Limitations:**
 - Design funding difficult
 - Long project development cycle
 - Max funding limits project size
 - Match funding
 - Need capacity for technical applications & grant requirements
- **Benefits:**
 - Equity / Justice40
 - Role of government
 - Project economics unsuitable for 100% private capital



Funding projects: IRA tax credits

- Wind/solar investment tax credits: 50%
- Non-profits are direct payment eligible
- Eligible entity must own the property
- Direct payment available during year system was placed in service
 - Financing



		2006 to 2019	2020 to 2021	2022	2023 to 2033
Full rate (if project meets labor requirements ^b)	Base Credit	30%	26%	30%	30%
	Domestic Content Bonus				10%
	Energy Community Bonus				10%
Base rate (if project does not meet labor requirements ^b)	Base Credit	30%	26%	6%	6%
	Domestic Content Bonus				2%
	Energy Community Bonus				2%
Low-income bonus (1.8 GW/yr cap)	<5 MW projects in LMI communities or Indian land				10%
	Qualified low-income residential building project / Qualified low-income economic benefit project				20%

Thank You!

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Rural Energy Program: Benefitting Communities



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- Program began in 2011
- \$4.7M ongoing annual savings (2022 est.)
- \$30.0M cumulative savings in 2022 dollars
- Total homes in 86 served villages: 7,745
- Annual energy savings per family: \$609

Total Annual Savings by Project Category

