

Energy Efficiency for the Nunamiut People of Anaktuvuk Pass, Alaska

Tribal Energy Program

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Yukon River Inter-Tribal Watershed Council

Energy Department



The Yukon River Inter-Tribal Watershed Council



- ▶ Established in 1997
- ▶ Treaty Based
- ▶ 70 Tribes and First Nations



YRITWC Energy Department

- ▶ Directive – Clean Water Needs Clean Energy
- ▶ *Efficiency is the Priority*
- ▶ RE and Energy Efficiency Trainings



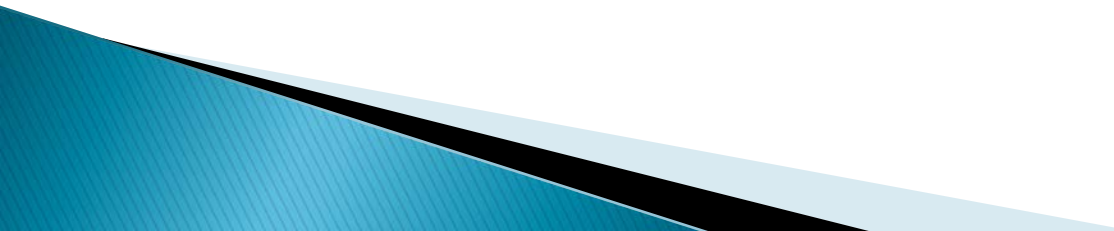


Nunamiut Corporation

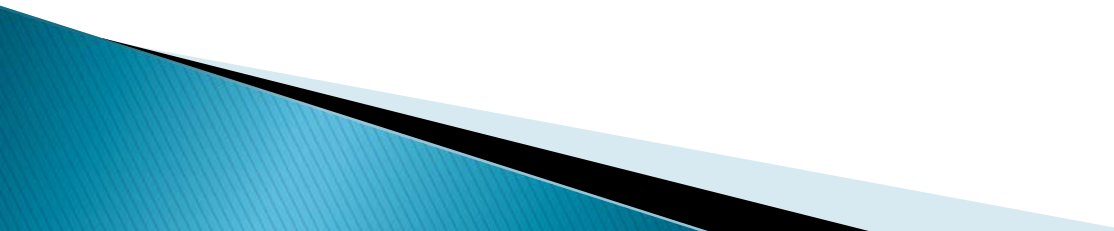
- ▶ Nunamiut People– Inland Eskimo of Alaska
- ▶ Anaktuvuk – *place of caribou droppings*
- ▶ Corp = The Local General Store
Hardware Store, Bank, Grocery Store, Restaurant,
Hotel, Gas Station, radio station
- ▶ Electric Rate:
\$.35 /kWh, \$9.25 /gal oil



Project Goals:

- ▶ Reduce Electrical/Heating Fuel Consumption
 - ▶ Save Nunamiut \$
 - ▶ Involve and educate the Community in Energy Efficiency– quantify and report results from the project to the Nunamiut board of directors.
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Buildings

- ▶ Village Store – 3,200 sq ft (plus 3,000sq ft store room) \$60k
 - ▶ Village Restaurant (4,200 sq ft) \$45k
 - ▶ Corporation Office/Hotel: \$30k
 - ▶ Managers House (732 sq ft) \$4k
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Insulate and Seal

- ▶ Doorways
- ▶ Windows, Air Leaks
- ▶ Holes in roof, unused stovepipes.



Village Shop

- ▶ Replaced large capacity lights with 120 Watt High Bay LED lighting.
- ▶ Repaired Heating system
- ▶ Installed motion sensors for lighting



The Village Store

- ▶ 100 bags of cellulose insulation
- ▶ Replaced all lights with LED's
- ▶ Installed a energy monitoring device



The Village Restaurant

- ▶ Replaced and sealed broken windows
- ▶ Installed on demand hot water
- ▶ Replaced fluorescent bulbs with LED's

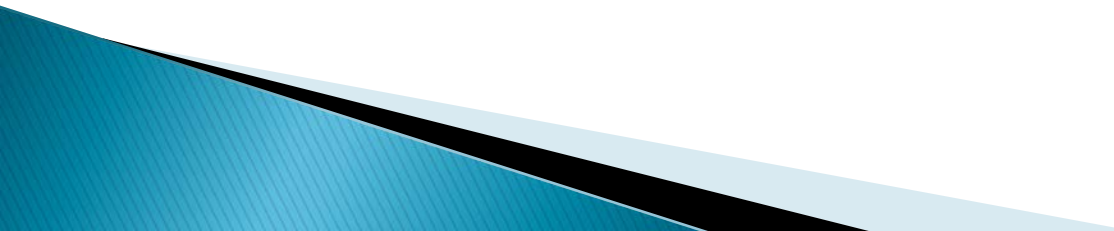


Corporation Office

- ▶ Created an arctic entry way
- ▶ Sealed roof of building and removed stovepipes
- ▶ Installed TOYO stoves
- ▶ On demand hot water



Recap

- ▶ 200 Gallons of Roof Sealant
 - ▶ 5 Doors
 - ▶ 15 double paned windows
 - ▶ 4 cases of caulk
 - ▶ 3 Toyo Stoves
 - ▶ 100 bags of cellulose
 - ▶ 118 Total LED Bulbs
 - ▶ Cost savings of \$55,000 per year
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Thank you

QUESTIONS?

