

Huslia Tribal Office

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## Biomass Project

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Ts'aatiyhdinaada kk'onh Dinh Tribe



# Huslia Village Council

“dba” Huslia Tribal Council

- Alaska Native Tribe
- Most residents are Koyukon Athabascans
- Roughly 290 Air Miles West of Fairbanks, AK
- Heating Fuel is delivered by river barges in Spring & Fall







# Vision Statement



**“The main goal of our community is to ensure the survival of our community and the preservation of our traditional way of life. We envision our community as a desirable place to live where future members will want to come back after schooling to work and raise families. To reach this goal we need to create a self-sustaining economy and address social, cultural and infrastructure issues in our community.” – Huslia Community Plan 2017**



The slide features a background image of a sunset over a body of water. The sky is a mix of purple, blue, and orange, with a bright orange glow on the horizon. The water is dark blue and reflects the sky. The title 'Project Overview' is centered at the top in a white, serif font with a red glow effect.

# Project Overview

- **Community scale biomass project to heat 60% of the sq footage of community buildings in the community of Huslia, AK – School, Washeteria & Clinic**
- **Creates 5 – 12 part-time jobs**
- **Predicted to save the community \$57,000 annually in oil costs**
- **The Huslia Tribal Council will own the facility and manage the long term operations and maintenance of the project**
- **Project will install 3 – “Garn 2000” cordwood boilers in a 30x24 steel building**

















# Project Location







# Major Participants

- **Huslia Tribal Council (HTC)**
- **City of Huslia**
- **Yukon Koyukuk School District (YKSD)**
- **Alaska Native Tribal Health Consortia (ANTHC)**
- **Tanana Chiefs Conference (TCC)**





# Management Approach and Team Roles

- **The Huslia Tribal Council (HTC) in partnership with TCC and ANTHC will lead the design, construction, and operation of a cordwood-fired heating system**
- **Following commissioning, HTC will operate the system and provide quarterly operational reports to US DOE.**
- **During the operation, HTC will purchase fuelwood from local contractors and sell wood-fired heat to the Yukon-Koyukuk School District (YKSD)**





# Key Milestones & Deliverables

- **Year 1:**
  - **Yukon Koyukuk School District and their project managers will complete work on the new Jimmy Huntington School Heating system**
  - **Construction & commissioning of Biomass Boilers and begin heating major Huslia Community Facilities**
- **Year 2**
  - **First year of operations, data collection**





# Project Goals

- **Cost Reduction**

- Displace approximately \$57k of the fuel used to heat the facilities with local, sustainably harvested woody biomass. Fuel cost savings over the 25-year life of the project are estimated at approximately \$1.5 million.

- **Carbon Reduction**

- Reduce greenhouse gas over the life of the project.

- **Community Resiliency**

- Enhances self-sufficiency and technical capabilities of Huslia residents by reducing money export from the community for fuel oil and providing training for system operators and fuel harvesters.

- **Economic Development**

- Create approximately 5-12 part-time jobs for wood harvesters, and 2 part-time jobs for boilers operators





# Project Benefits & Outcomes

- Installation of 3-Garn 2000 biomass boilers to heat 3 main buildings in the community of Huslia
- Create 5-12 part time and full time jobs harvesting and operating the biomass system
- Long-term reduction in oil costs for these 3 facilities estimated at \$57,000/year and over \$40,000/year of local economic development pumped into the local community
- Near completion of the Huslia Tribal Council's Renewable Portfolio Standard (RPS) to achieve 25% diesel displacement in its community facilities by the year 2025
- Leverage 50% of project costs in the form of in-kind and cash contributions
  - Federal Funds: \$361,143                      Cost-share: \$361,143                      Total: \$722,286



# Biomass Background

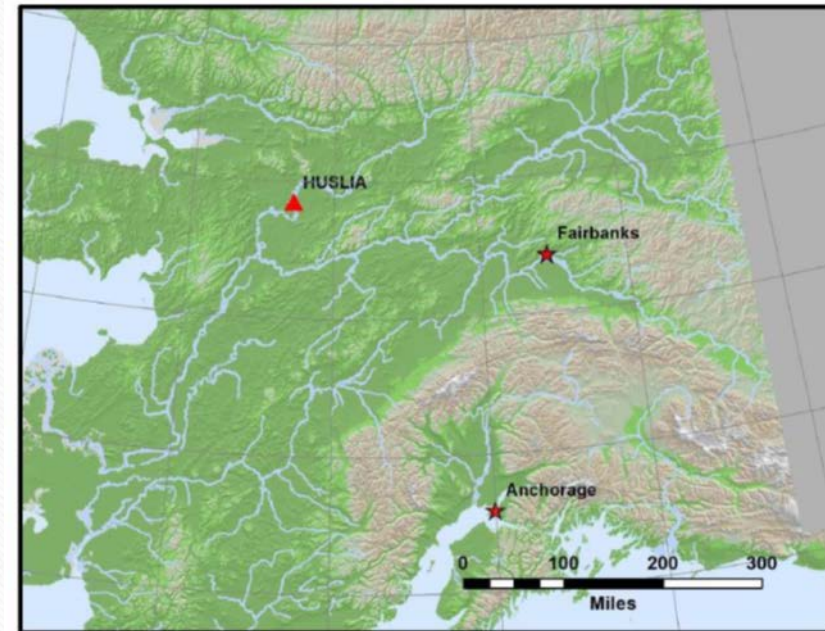
- The planned Garn cordwood boiler technology is well proven in Alaska, with the first such system installed in the Village of Dot Lake in the late 1990s. Currently 14 community- scale cordwood and woodchip-fired energy projects are in operation in Alaska
- The project is consistent with the Huslia Tribal Council's goal of supplying 25% of the community's energy from renewable sources.



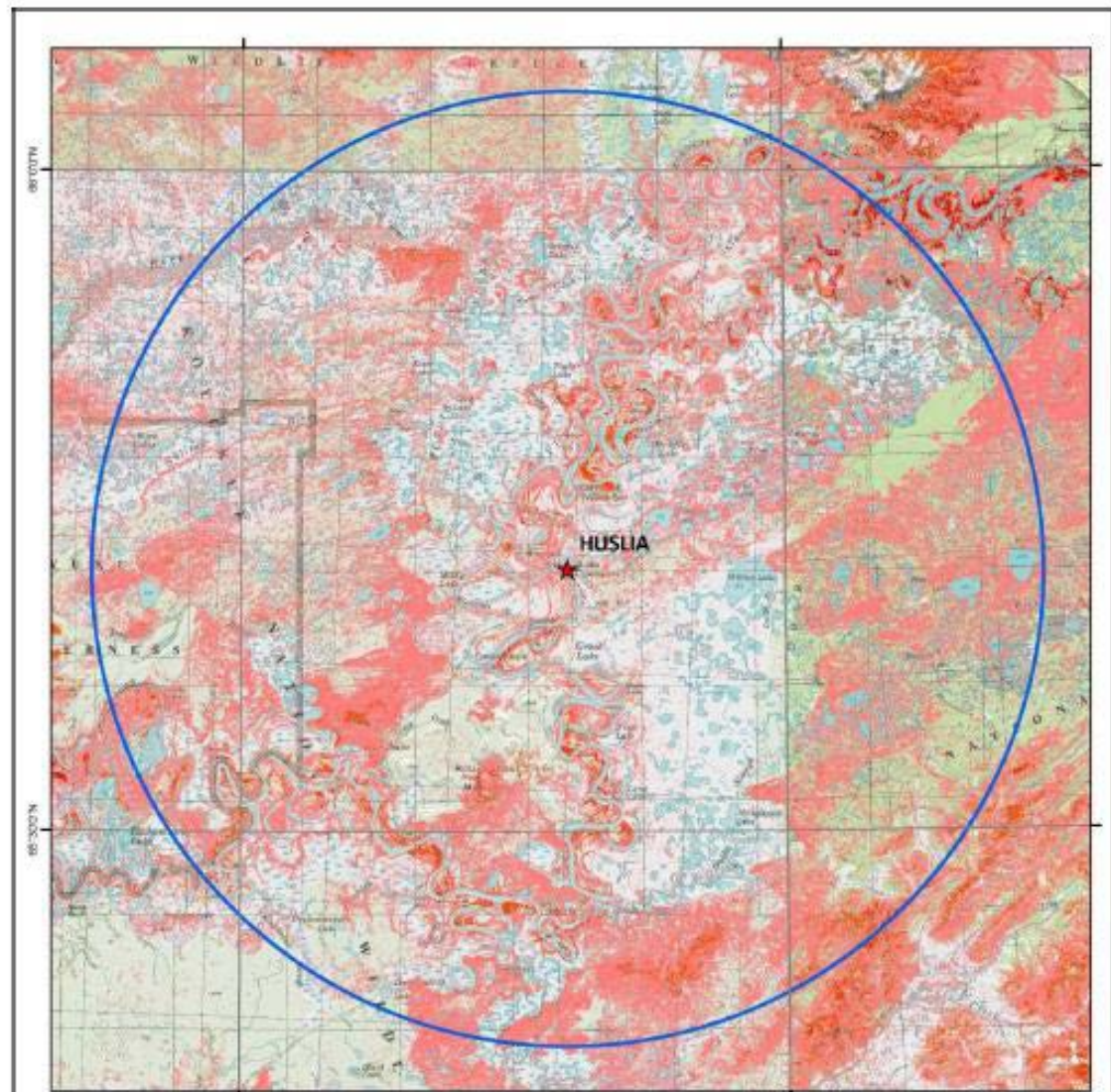
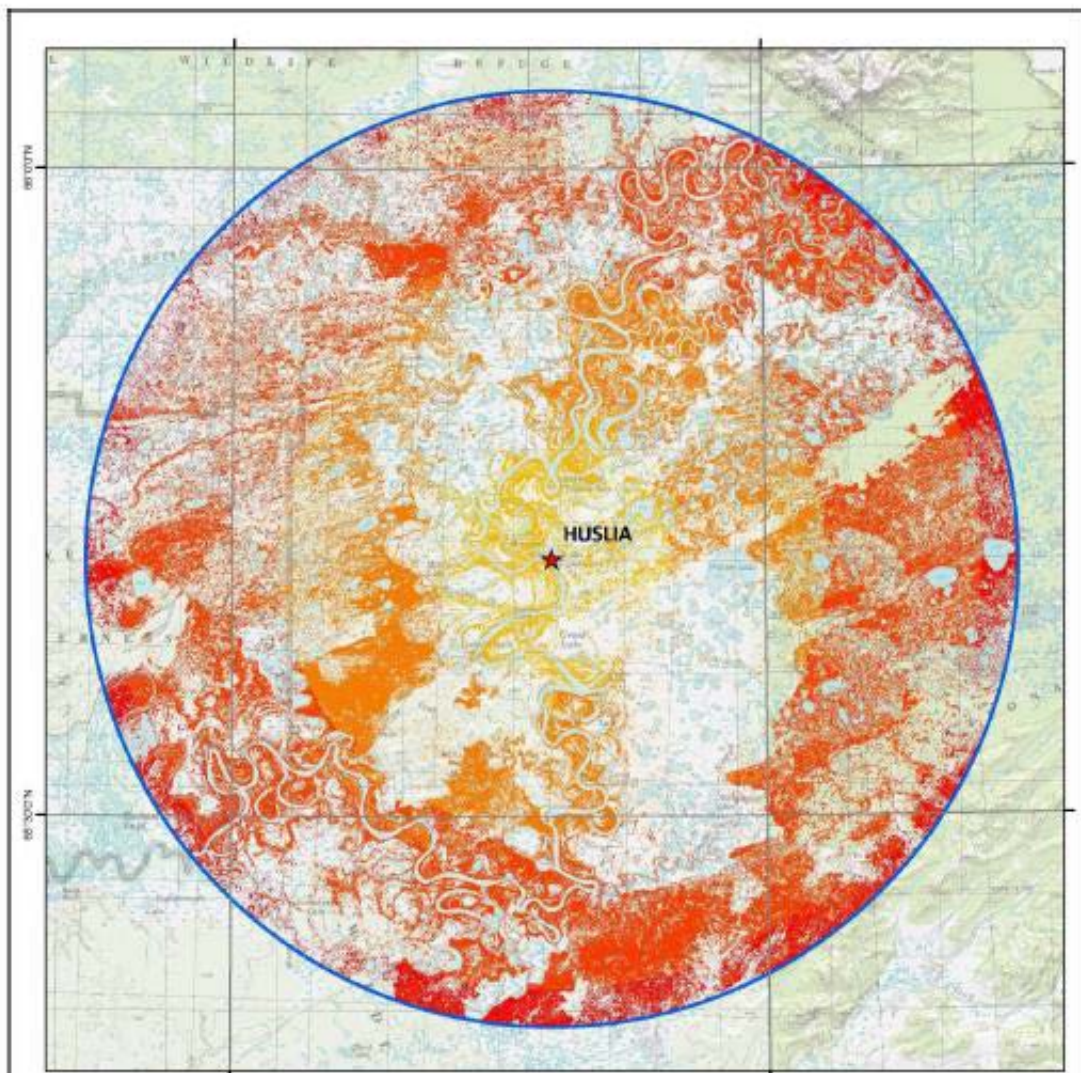


The Huslia Tribal Council Biomass Project will increase tribal energy security, decrease imported diesel and provide much needed employment for tribal members in Huslia, Alaska

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Ana Basee' (Thank You)  
Department of Energy Office of Indian Energy

Questions?