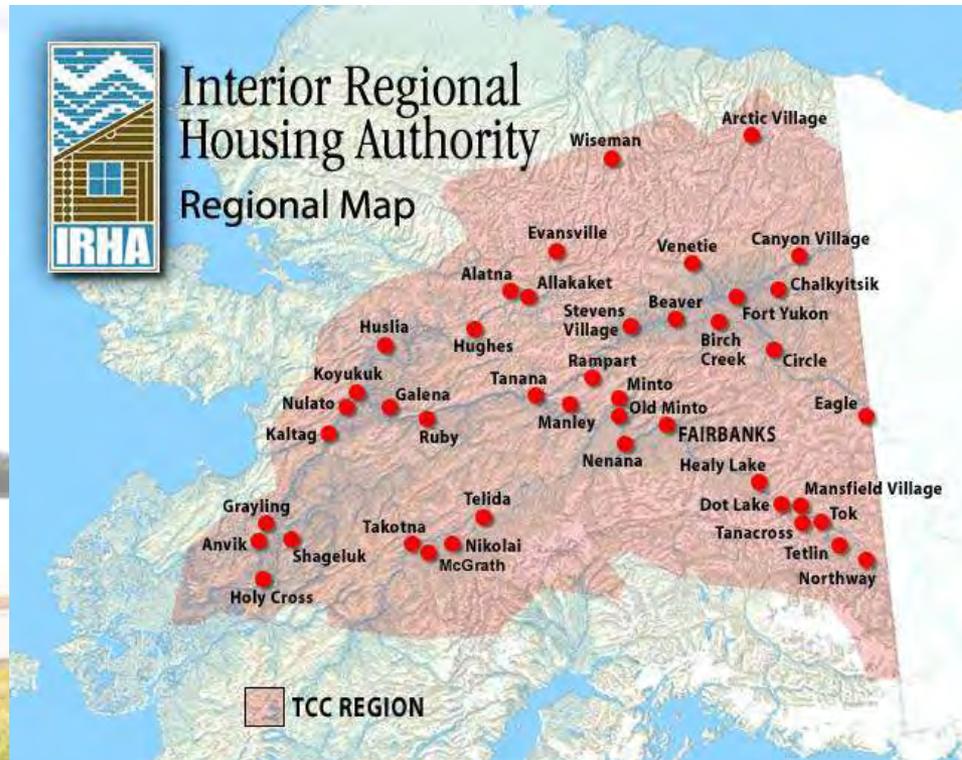


Interior Regional Housing Authority



**42 Villages in our Service Area,
which is larger in land than the State of Texas.
We service 30 villages under the NAHASDA Housing Program**

Interior Alaska

- Some of the Highest Energy Costs in the Nation
- Communities are insolated and generally accessible only by air
- Diesel Power Generation
- Space Heating is Diesel or Wood
- Some of the lowest Median Income
- Generally spend more on Energy than any other region in the State
- Extreme Temperature Changes from Winter to Summer

OUR GOAL:

- Reduce the Cost & Consumption of Energy
- Invest in Energy Projects and reduce consumption
- Save sacred Resources
- Support Self Sustaining communities



Energy Projects

- **AHFC Weatherization Program**
- **DOE EECBG Grant – 11 Villages**
- **Denali Commission EECBG Matching Grant**
- **USDA High Cost Energy Grant**
- **TCC Energy Inventory – Funded by the Denali Commission**
- **TCC EECBG Energy Audits**

AHFC Weatherization Services

5 Agencies state wide & 12 Housing Authorities

Prescriptive Methods of Weatherization

Priority	Measure
1	Strategic Airsealing, attic, floor, walls, windows, doors
2	Attic Insulation
3	Floor/crawl space Insulation including the rim joist and often a ground vapor barrier
4	High Efficiency Heating System
5	Wall Insulation
6	Ventilation systems primarily using fans and fresh air vents
7	Occasional doors & windows

Villages we are providing services to this 2011 Grant Year:

- Kaltag
- Stevens Village
- Ruby



DOE Energy Efficiency Conservation Block Grant

Proving Energy Projects to 11 Villages

Alatna Village - Solar installation on Washeteria

Circle Native Community - Lighting Retrofits – residential – CFLs

Hughes Village - Wood fire boiler/washeteria & install energy efficient street lights

Village of Kaltag -Energy Audits for 63 residents & lighting retrofits

Koyukuk Native Village - Changing Street Lights to LED

Nikolai Village - Replacing generator & upgrading power plant

Rampart Village – Weatherize the Community Washeteria

Shageluk Native Village - Solar Thermal installed on the washeteria

Native Village of Stevens – Install Solar on Tribal Office Building

Village of Venetie - Purchase a 125kw generator, the 190 kw as backup

Native Village of Minto - Retrofit lighting in bathrooms of 42 residents & clean & tune boilers to be more energy efficient



Denali Commission DOE EECBG Grant Match

Denali Commission is an independent federal agency designed to provide critical utilities, infrastructure, and economic support throughout Alaska

The Energy Program primarily funds design and construction of replacement bulk fuel storage facilities, upgrades to community power generation and distribution systems, alternative-renewable energy projects, and some energy cost reduction projects.

Administration Funding is Granted to IRHA

To Cover the EECBG projects which will provide Energy Efficiency, Power Generation upgrades and alternative Energy Projects for 11 villages

Denali Commission Programs & Projects

- [Community Planning](#)
- [Conference Sponsorships](#)
- [Economic Development](#)
- [Energy](#)
- [Government Coordination](#)
- [Health Facilities](#)
- [Solid Waste](#)
- [Teacher Housing](#)
- [Training](#)
- [Transportation](#)

Energy Projects Include

- Bulk-Fuel Storage
- Community Power Generation
- Distribution Systems Upgrades
- Energy Cost Reduction Projects
- Renewable and Alternative Energy
- Power Line Interties

2 Projects

EECBG Match Funding
Energy Inventory

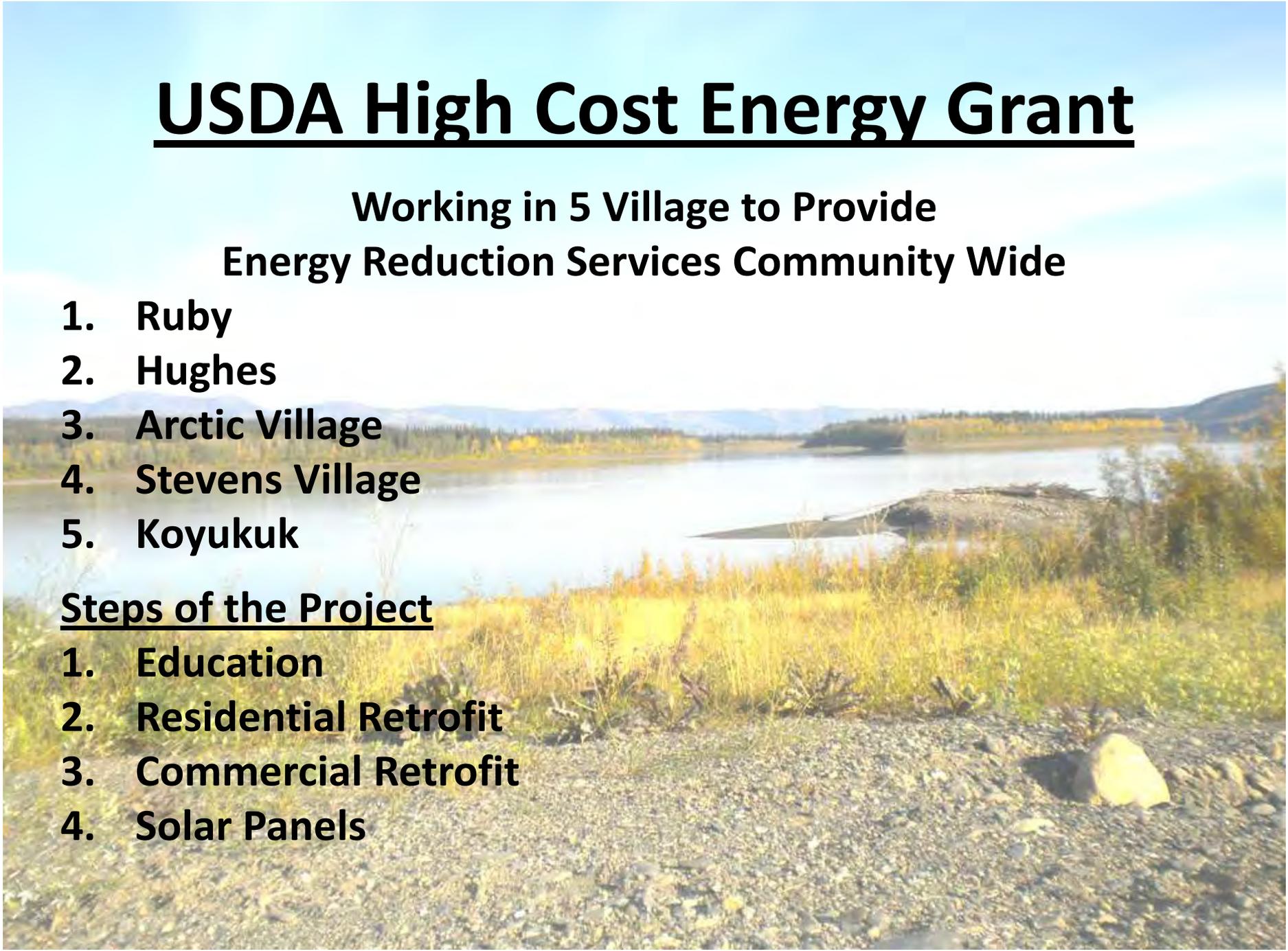
USDA High Cost Energy Grant

**Working in 5 Village to Provide
Energy Reduction Services Community Wide**

- 1. Ruby**
- 2. Hughes**
- 3. Arctic Village**
- 4. Stevens Village**
- 5. Koyukuk**

Steps of the Project

- 1. Education**
- 2. Residential Retrofit**
- 3. Commercial Retrofit**
- 4. Solar Panels**



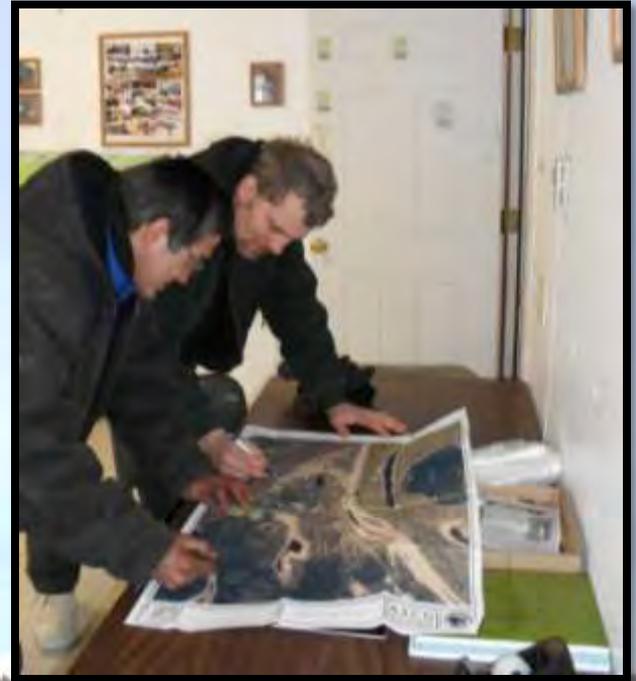


Energy Inventory

- Site inspections of power plants & related energy infrastructure in all 42 villages within Interior Alaska.

- 1. Village Inventory**
- 2. Statement of Need**
- 3. Energy Costs**
- 4. Potential Upgrades**
- 5. Ongoing efforts for potential expansion**
- 6. Action Plan**

*This project is Funded by the Denali Commission
IRHA contracted with TCC to conduct
the village by village assessments*



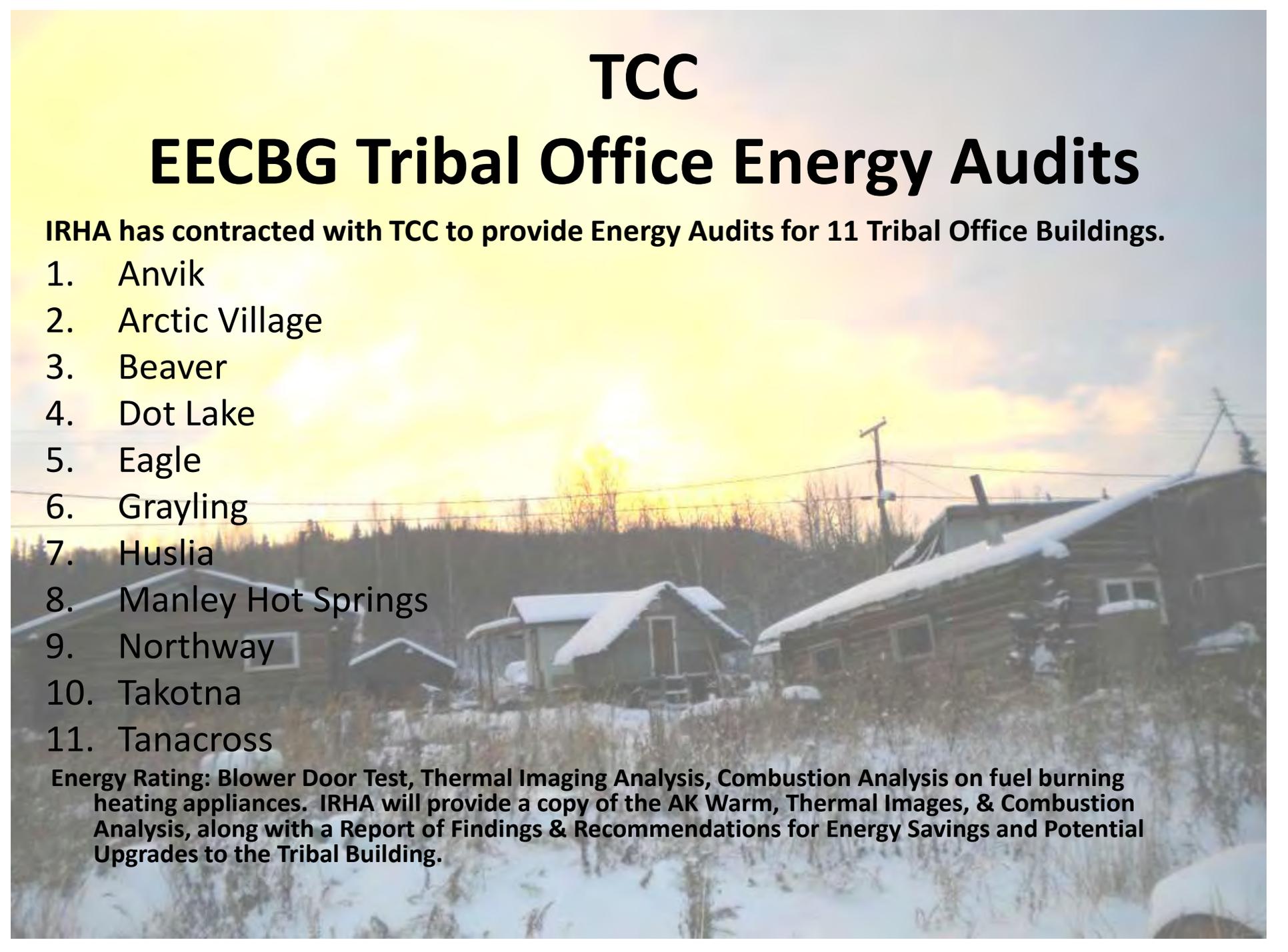
TCC

EECBG Tribal Office Energy Audits

IRHA has contracted with TCC to provide Energy Audits for 11 Tribal Office Buildings.

1. Anvik
2. Arctic Village
3. Beaver
4. Dot Lake
5. Eagle
6. Grayling
7. Huslia
8. Manley Hot Springs
9. Northway
10. Takotna
11. Tanacross

Energy Rating: Blower Door Test, Thermal Imaging Analysis, Combustion Analysis on fuel burning heating appliances. IRHA will provide a copy of the AK Warm, Thermal Images, & Combustion Analysis, along with a Report of Findings & Recommendations for Energy Savings and Potential Upgrades to the Tribal Building.







**We work with Programs
within our organization
Local Resources
Service Providers in the area**

- Seek Grant Funding
- Work with Tribes
- Community Education
- Collaborate with other service Providers
- Get the word out: newsletters, emails, reports

A photograph of a residential street in winter. The ground is covered in a thick layer of snow, with tracks from a vehicle or sled visible. Several houses with snow-covered roofs line the street. Utility poles with power lines are visible in the background. The sky is a clear, pale blue.

For more information on IRHA
or other agencies we work with
you can visit the
following websites:

www.irha.org

www.ahfc.us

www.denali.gov

www.tananachiefs.org

A wide-angle photograph of a snowy landscape. The foreground is a vast, flat expanse of snow, marked with numerous parallel tracks from a vehicle or sled. In the middle ground, a dense line of evergreen trees stretches across the horizon. The sky is filled with soft, grey clouds, and the sun is low on the right side, casting a warm, golden glow over the scene. The overall atmosphere is serene and cold.

We can set out and reach our goals at
55 below zero and
9 months of darkness

Our summer construction season is
3 months long with
2 months of daylight 24/7



Any Questions?

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Safe Travels Home