“A Step Towards Conservation for Interior Alaska Tribes”

Hughes, Huslia, Allakaket and Birch Creek

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IRHA is the Tribally Designated Housing Entity (TDHE) for 29 of the 34 tribes in the Tanana Chiefs/Doyon Region.
IRHA & Energy

- IRHA was created in 1974
- For 34 years IRHA built homes
- Over the past 5 years we have focused on critiquing the homes we build to be as energy efficient as possible
- Benefits to our home owners
- Community members were continuing to suffer from high energy costs (fixed costs).
Huslia Utility Costs (Per Month)

<table>
<thead>
<tr>
<th></th>
<th>Wood</th>
<th>Fuel Oil</th>
<th>Electricity</th>
<th>Propane</th>
<th>Total (Per Month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRHA Homes Built in 2005</td>
<td>$115.00</td>
<td>$225.00</td>
<td>$103.00</td>
<td>$ -</td>
<td>$443.00</td>
</tr>
<tr>
<td>Old-TRHA Homes Built in 1998</td>
<td>$172.00</td>
<td>$427.50</td>
<td>$103.00</td>
<td>$25.00</td>
<td>$727.50</td>
</tr>
<tr>
<td>Non-HUD Homes</td>
<td>$230.00</td>
<td>$427.50</td>
<td>$262.20</td>
<td>$25.00</td>
<td>$944.70</td>
</tr>
</tbody>
</table>
Dual Generation

Having two or more generator sizes; one for smaller loads and one for larger loads.

Birch Creek:
- 50 kWh & 65 kWh

Hughes:
- 35 kWh & 75 kWh
Hughes

- Population: 78
- Land Area: 3.10 square miles
- Temperatures range from 70 above to -50
- KWH was 26.8 cents in June 07 (locally owned by city)
- Gas is $6 per gallon
- Diesel is $5.50
Huslia

- Population: 293
- Land Area: 16.43 square miles
- Temperatures range from 70 above to -50
- KWH was 31.4 cents in June 07 (owned by AVEC and the City)
- Gas is $5.50 per gallon
Allakaket

- Population: 97
- Land Area: 3.6 square miles
- Temperatures range from 70 above to -50
- KWH was 31.6 June 07 (provided by APC)
- Gas is $6 per gallon
Birch Creek

- Population: 43
- Land Area: 6.1 square miles
- Temperatures range from 65 above to -60
- KWH is currently .60 cents (owned by the village council)
- Birch Creek does not have a place to sell gas or heating fuel, it is either barged in or flown in when needed.
The Plan

- Community wide assessment of:
  - Average monthly loads
  - Public Buildings
  - Homes

- Identify community energy weaknesses and strengths

- Develop future community energy goals and plans

- Explore and research alternative sources of energy

- Hire a local community member to gather and send us data

- Reducing energy through education
  - Community Workshops/presentations
  - Schools Presentations & hands on activities
Goals

► Reduce energy costs community wide

► Maximize the use of smaller boilers

► Create energy awareness community wide

► Develop a comprehensive energy plan for each community which will be presented to them by October 31, 2008
Questions?