• 5 Staff
• 11 Years
• 68 Members
• 21 Board Members

• Education
• Outreach
• Collaboration
• Advocacy
Mobile Greenhouse
Energy Efficiency: The First Fuel

The graph shows the range of levelized costs (cents per kWh) for various energy sources. Coal IGCC has the highest cost, followed by coal, nuclear, biomass, solar PV, natural gas combined cycle, wind, and energy efficiency, which has the lowest cost.
Energy Efficiency Barriers

- Program Gaps
- Cash for energy upgrades
- Owner-payer disconnect
- Little energy tracking
- Cost of an energy audit
- Lack of understanding of energy efficiency opportunities
- Capacity for long-term planning
Collaboration
Energy Audits

**Level I**

“Walk-through audit”
- Utility bill review
- Brief interviews with building personnel
- High-level, energy-use analysis for the facility

**Level II**

- Utility bill analysis
- Interviews with building personnel and management team
- Evaluation of equipment, windows, insulation, lighting, and heating and ventilation
- Comprehensive report and more accurate cost-estimates
Overcoming Barriers

- Communication
- Collaboration
- Identify easy recommendations
- Coordination
- Follow Up!

Photo Credits: Tim Leach
Traveling Energy Efficiency Team

Trip Components

• Free Commercial Building Energy Efficiency Workshop
• Walking Workshop
• Level I Energy Audit

Public and Private Buildings Audited

Hoonah: 11
Haines: 9
Klawock: 6
Craig: 8

Total: Over 230,000ft²
Concise Report

- Simple
- 8 pages or less!
- Appendices for further resources
Results

2.2 Year Payback!

<table>
<thead>
<tr>
<th></th>
<th>Costs</th>
<th>Annual Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>$200,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>HVAC</td>
<td>$150,000</td>
<td>$75,000</td>
</tr>
<tr>
<td>Other</td>
<td>$50,000</td>
<td>$25,000</td>
</tr>
<tr>
<td>Total</td>
<td>$400,000</td>
<td>$200,000</td>
</tr>
</tbody>
</table>
Example: Grocery Store

Figure 1 – Summary of Recommended EEM’s

<table>
<thead>
<tr>
<th></th>
<th>Implementation Cost</th>
<th>Annual Savings</th>
<th>Payback (yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>$14,601</td>
<td>$11,883</td>
<td>1.2</td>
</tr>
<tr>
<td>HVAC</td>
<td>$0</td>
<td>$0</td>
<td>n/a</td>
</tr>
<tr>
<td>Envelope</td>
<td>$0</td>
<td>$0</td>
<td>n/a</td>
</tr>
<tr>
<td>Other</td>
<td>$900</td>
<td>$2,544</td>
<td>0.4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$15,501</strong></td>
<td><strong>$14,427</strong></td>
<td><strong>1.1</strong></td>
</tr>
</tbody>
</table>

Lighting Upgrades
Occupancy Sensors
Install Cooling Misers
“...The information provided in the free energy audit and workshop will greatly help us reduce our energy costs and dedicate more of our funding towards programs and projects that support a healthy community and watershed...”
- Meredith Pochardt, Executive Director, Takshanuk Watershed Council, Haines, AK

-Low hanging fruit (with Iggy the gnome)
Photo Credit: Tim Leach
Leveraged Funding – Hard Costs

Alaska Housing Finance Corporation $6,000
Sustainable Southeast Partnership $4,600
U.S. Department of Agriculture
  Rural Business Enterprise Grant $7,290
Prep, outreach, and on-the-ground personnel hours (REAP): ~$5,500

Photo Credit: Tim Leach
Energy Audit Program Round II?

Do you own, rent or manage a commercial building?

Or know someone who does?

Private and some public buildings

Contact:

Robert Venables
Southeast Conference
energy@seconference.org

Shaina Kilcoyne
Renewable Energy Alaska Project
s.kilcoyne@realaska.org
Phase 1: RACEE Community Efficiency Champions

Remote Alaskan Community Energy Efficiency

DOE RACEE
Thank You!

Shaina Kilcoyne
s.kilcoyne@realaska.org