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Energy Efficiency Director



**SUSTAINABLE
SOUTHEAST**
PARTNERSHIP



Renewable Energy
Alaska Project



Renewable Energy
Alaska Project



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

- Education
- Outreach
- Collaboration
- Advocacy



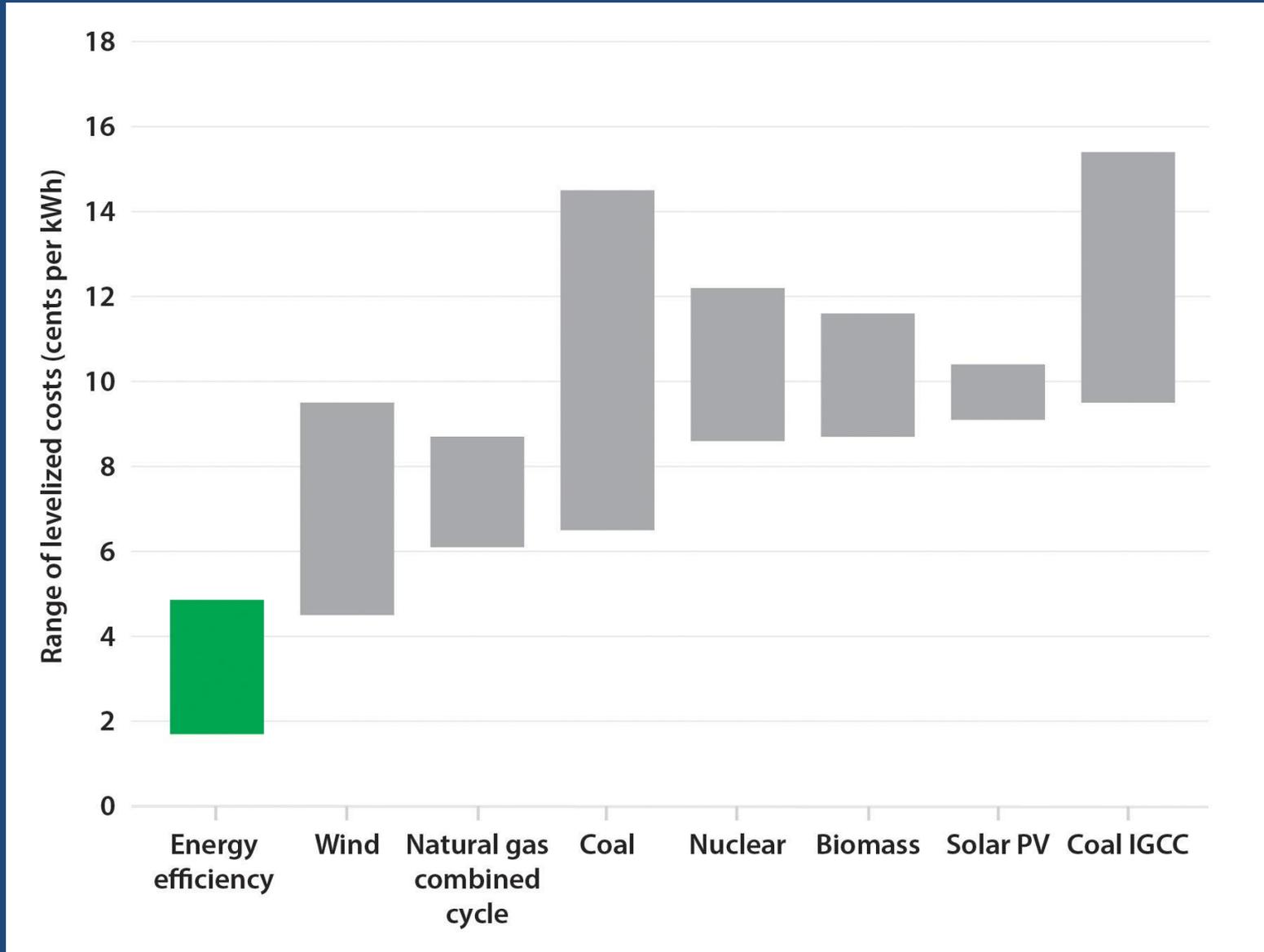
SUSTAINABLE
SOUTHEAST
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Mobile Greenhouse



Sue and Wes Tyler –
Icy Strait Lumber, Hoonah

Energy Efficiency: The First Fuel



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 of Alaska 

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!



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Paying too much on your energy bills?

Most commercial buildings in Alaska have the potential to reduce their energy use by as much as 30%!



Benefits of pursuing energy improvements in your building:

- Capture wasted energy dollars to pay for improvements over time
- Reduce maintenance costs
- Improve image and lease quality
- Improve building asset value
- Improve indoor environment and safety for tenants and customers
- Increase profit margins
- Lower cost of goods and services to customers

Spread the Word!



savings start with an energy audit

Haines residents spend nearly \$3 million every year for heating.

An energy audit provides a prioritized list of energy efficiency measures including cost estimates and potential savings associated with each measure.

Start with simple changes, like adjusting temperature set points on your building thermostats.

Find the right auditor for you. Auditors will find ways to save energy you never even dreamed existed!

To find a Certified Energy Auditor (CEA), check the Association of Energy Engineers Directory: www.aeecenter.org and <http://www.akenergyefficiency.org/find-an-energy-pro/>

Make sure to check that the auditor is certified for commercial buildings

Traveling Energy Efficiency Team

Trip Components

- Free Commercial Building Energy Efficiency Workshop
- **Walking Workshop**
- Level I Energy Audit

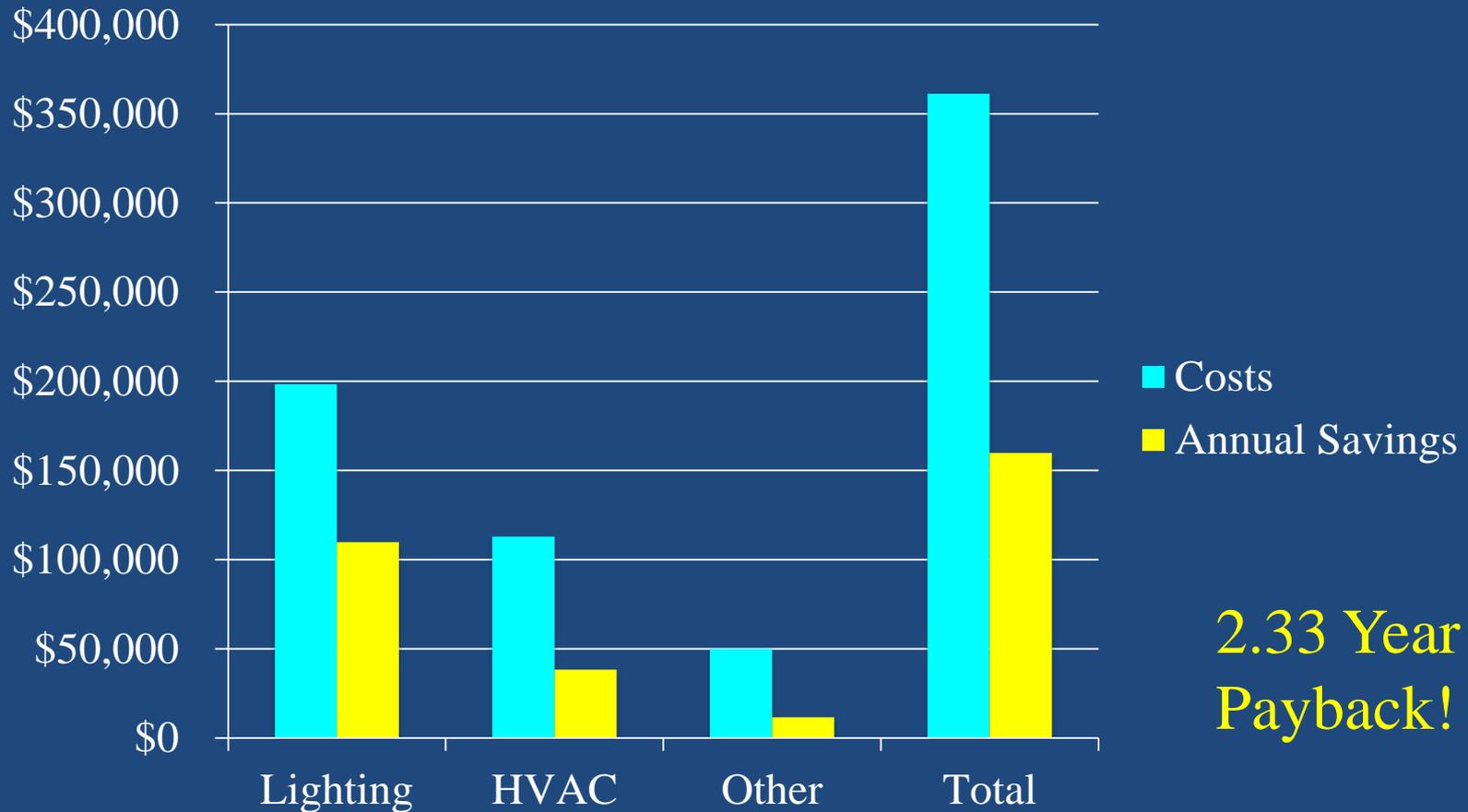
Public and Private Buildings Audited

Hoonah:	11
Haines:	9
Klawock:	7
Craig:	8

Total: Over 230,000ft²



Results



**2.33 Year
Payback!**



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Example: Grocery Store

Figure 1 – Summary of Recommended EEM's

	Implementation Cost	Annual Savings	Payback (yrs)
Lighting	\$14,601	\$11,883	1.2
HVAC	\$0	\$0	n/a
Envelope	\$0	\$0	n/a
Other	\$900	\$2,544	0.4
Total	\$15,501	\$14,427	1.1

Lighting Upgrades
Occupancy Sensors
Install Cooling Misers



Successes?



“...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 Izzy the gnome)

Photo Credit: Tim Leach



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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

Thank You!

Shaina Kilcoyne

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