

Alaska Housing Finance Corporation

Energy Efficiency Programs and Resources Overview

BEES

Building Energy Efficiency Standard

Established 1992

Promote construction of energy-efficient buildings

IECC 2012
ASHRAE 62.2
AK Amendments



HERS

Home Energy Rating System

Home Energy Rating Certificate



The Home Located At:

*This Street
Palmer, Alaska*

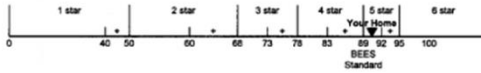
Has Been Energy-Rated As:

★★★★★

Five Star

Overall Efficiency of Home

90.4 points



BEES Compliance

Pass

Amount of CO2 Produced by the Home

27,771 pounds per year

Projected Annual Energy Costs

\$2,539 per year

Breakdown of Heating Costs, \$ Per Year

Floor	\$55
Wall/Door	\$305
Window	\$83
Ceiling	\$55
Air/Vent	\$199
Htg System Loss	\$272
Hot Water	\$301

Client: One Awesome House Rater: My Rater, Here in AK Date: 9/22/2012

Rater's City: Anchorage, AK 99504 Contact:

ver. 2.3.1.0, library: 9/24/2013, file: Sample.hm2, Rating Type: BEES, Rebate ID: 21,440

I certify that this Rating is true and correct, to the best of my knowledge and belief:

Rater Signature

4300 Boniface Parkway | Anchorage, Alaska 99504 | P.O. Box 101020 | Anchorage, Alaska 99510
907.733.6100 (Anchorage) or (Toll-Free) 1.800.478.4862 (24/7) | www.alhf.com





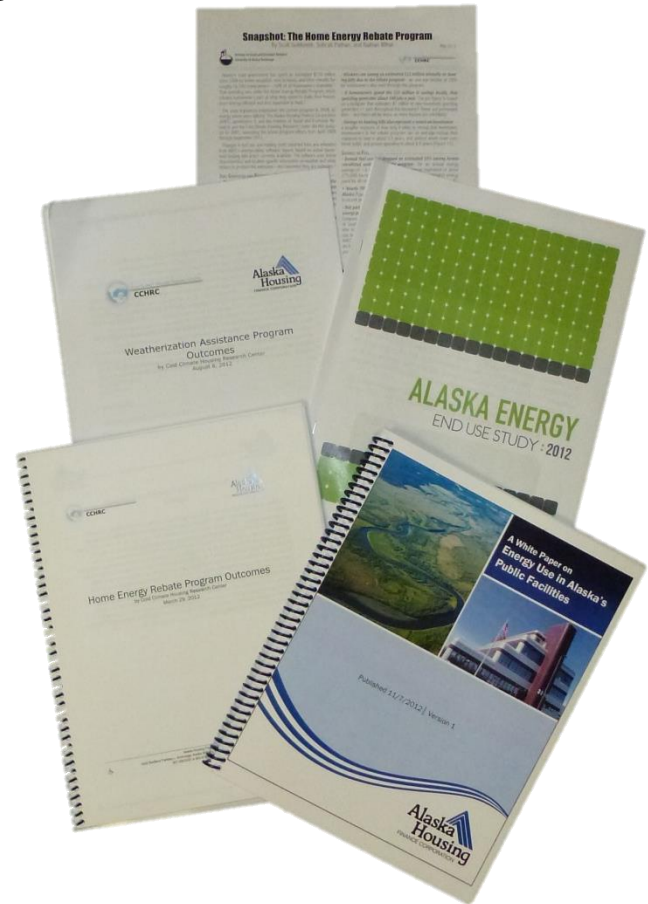
AkWarm

Energy Modeling Software

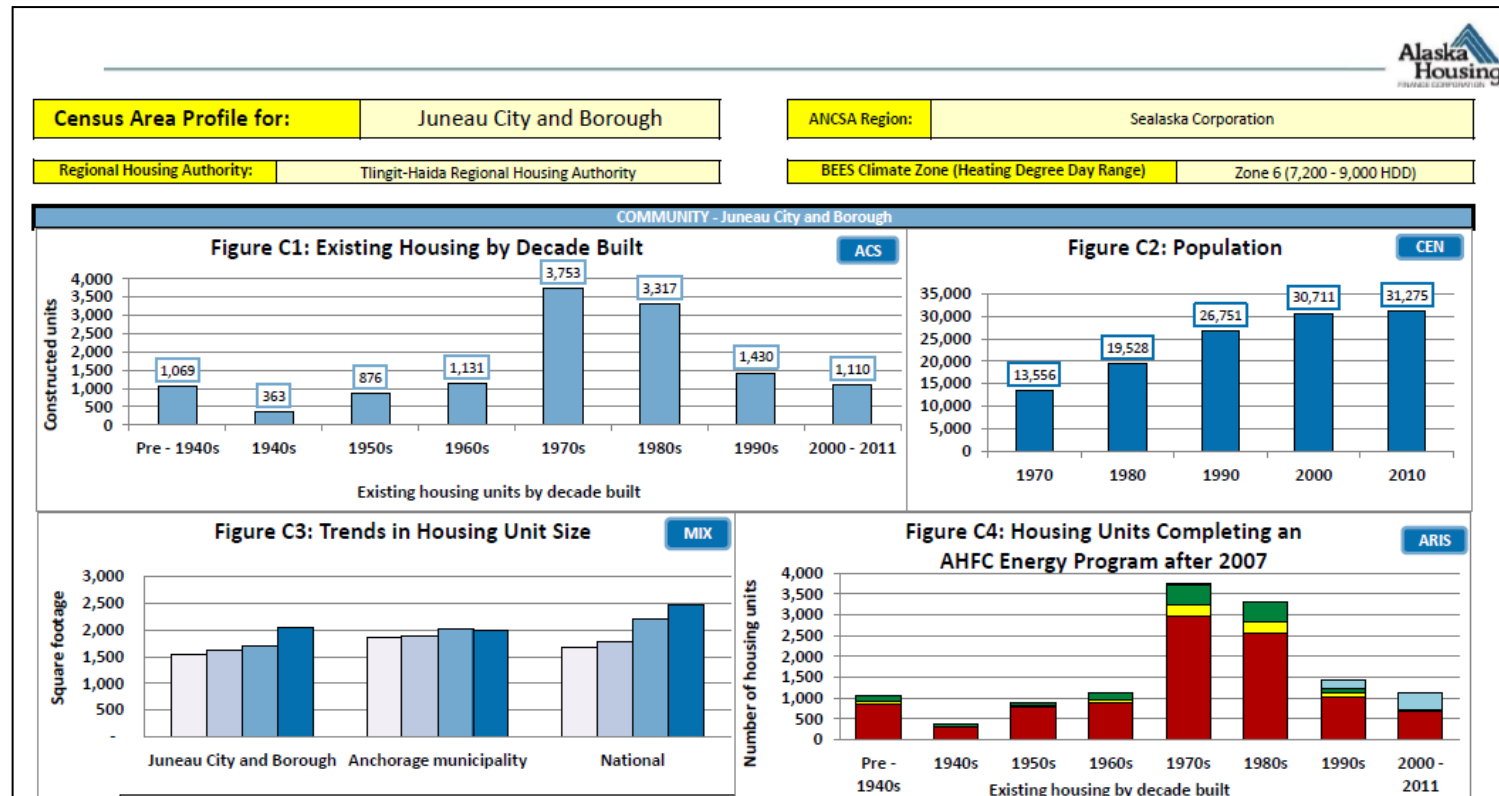
ARIS

Alaska Retrofit Information System

- ❑ AHFC's ARIS database has become the clearinghouse for information on Alaska buildings
- ❑ More than 75,000 unique records
- ❑ Information from the database may be used for policy decisions, research, program measurement, studies and reports, and much more



2014 Housing Needs Assessment



Juneau City and Borough

Energy Efficiency Home Calculator



Outreach is underway to the industry including; Appraisers, Lenders, Realtors, Contractors, etc.

Energy Efficiency Home Calculator



AK Appraisals

[AK APPRAISALS HOME](#)
[AK APPRAISAL TOOL](#)
[ABOUT](#)
[CHANGE PASSWORD](#)
[LOGOUT](#)

Energy Efficiency Calculator

[Appraisal Description](#)
[ARIS Search Criteria](#)
[ARIS Search Results](#)
[Comparable Details](#)
[Recommended Appraisal Adjustment](#)

ARIS Search Criteria

Note: The ARIS Search feature is optional. If you already have comparable home utility bill information and do not wish to search the ARIS database, click the Skip button below the form.

Enter search criteria in the form below. Typically search criteria is similar to the subject home being appraised. **At a minimum, please select a community and at least two other home areas before generating search results.**

Home Details

* Community:	Anchorage	
Street Name:	lake otis	
Street Suffix:	PKWY	
Matched Precinct:	480	
Number of Bedrooms:	3	
Rating Points:	88	+/- 2 Points
Square Feet:	1800	+/- 200 Sq Ft
Year Built:	1981	+/- 5 Years

Fuel Types

Utility Costs Cover:	Full House Energy	
		(Recommended Fuel Types)
Space Heating Fuel:	Natural Gas	Natural Gas
DHW Fuel:	Natural Gas	Natural Gas

AHFC Building Monitoring

Map Data Charts and Reports Training Videos and Project Reports

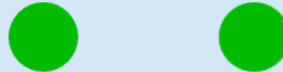
Charts and Reports

Group: Residential Facility: Glacierview Report: Dashboard Refresh Data

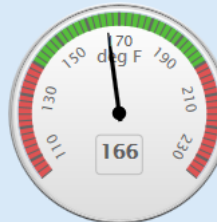
Glacierview Dashboard

Boiler #1 Alarm Boiler #2 Alarm

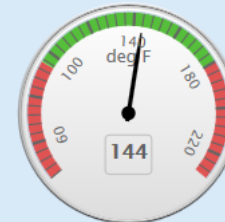
Boiler Info



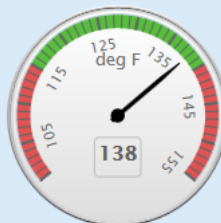
Primary Loop Temp



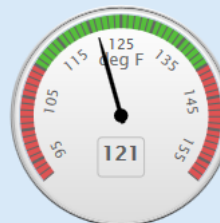
Bldg Heating Supply T



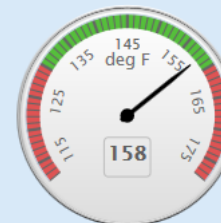
DHW Temp to Bldg



DHW Return Temp



DHW Temp from Tanks



Domestic Hot Water

Weatherization Program

Health
and Safety

Energy
Efficiency

Homeowner
Education

Comfort

Building
Durability



Home Energy Rebate Program

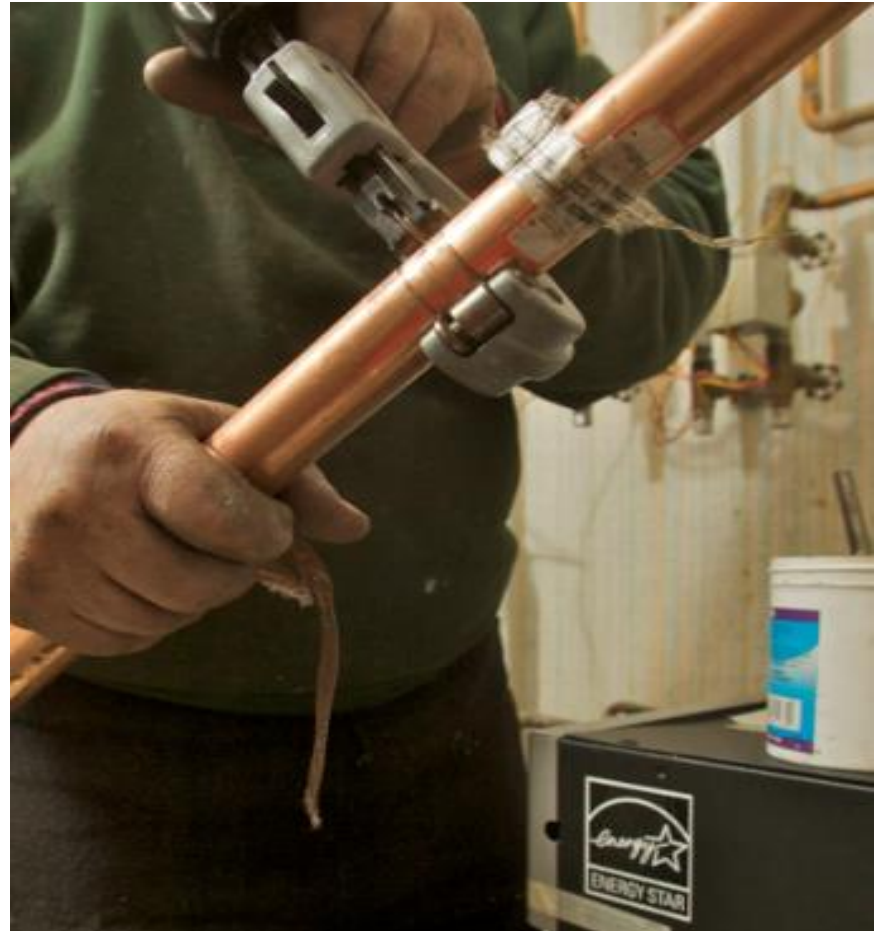
Open to all Alaskans

No income requirements

Owner-occupied, year-round residences

Homeowners pay upfront and are then rebated

“As-Is & Post” energy ratings



New Home Rebate for New Construction

<u>Points</u>	<u>Rating</u>
0-39	1 Star
40-49	1 Star +
50-59	2 Star
60-67	2 Star +
68-72	3 Star
73-77	3 Star +
78-82	4 Star
83-88	4 Star +
89-91	5 Star
92-94	5 Star +
95-100	6 Star



\$7,000 rebate for 5 Star Plus

\$10,000 rebate for 6 Star

Supplemental Housing Development Grant Program

Established 1981 to supplement HUD Indian Housing Development funds

Funds are used for:

- Water and sewer facilities
- Roads
- Electrical systems
- Energy efficiency measures

Employs local workers and buildings meet BEES



Alaska Energy Efficiency Revolving Loan Program (AEERLP)

\$250 million in bond authority for energy efficiency improvements:

- | | |
|-----------------------|-----------------------|
| -Schools | -State facilities |
| -University of Alaska | -Municipal facilities |

Savings from energy efficiency improvements may be used to pay off the loan



Energy Efficiency Interest Rate Reduction

Finance with AHFC

Applies to first \$200,000
of the loan amount

New Construction or
Retrofit



Second Mortgage for Energy Conservation Loan

Second mortgage up
to \$30,000

15 Year Loan at the
current rate

Partner with Alaska
USA Federal Credit
Union



Energy Efficiency Education

Free workshops throughout the state and
regularly in South-Central



Thank You

