

# AHFC Energy Programs Update

# Funding Since 2008

Home Energy Rebate

Weatherization

Totals

\$217.5 million

\$292.5 million

Grand Total

\$510 million

# Rebate/Wx by the Numbers

☐ Home Energy Rebate Program

17,908 Homes completed

☐ New Home Rebate Program

1,751 Homes completed

☐ Weatherization Program

8,513 Homes completed

More than **28,000** homes energy efficient!

# Rebate/WX Program Impacts

- ❑ Alaska housing stock is safer, better quality and more affordable to heat
- ❑ More than **4,000** jobs created and retained
  - ❑ Direct jobs – 2,492
  - ❑ Indirect jobs – 1,780
  - ❑ Jobs from spent energy savings – 407

# Rebate/WX Program Energy Savings

Total Energy Saved Annually – 2.3 trillion BTUs

## Equivalent to:

- ❑ 406,334 Barrels of Oil or,
- ❑ 23,567,420 CCF of Gas or,
- ❑ 17,077,840 Gallons of Fuel Oil or,
- ❑ 690,721 MegaWatt Hours of Electricity

# Savings

Total Estimated Energy Cost Savings **Per Year** to  
Alaskan Homeowners and Renters  
**More than \$37 million**

## **Benefit:**

Savings are spent locally, recirculating  
through the economy

## **Savings from 8,275 Anchorage Homes**

Is enough energy to power **3,437** homes in  
the Anchorage area for 1 year

*or*

Power the Performing Arts Center, Egan  
Convention Center, Sullivan Arena, Robert  
Atwood Building and the Dena'ina Center for  
**8.7 years!**

# Weatherization Program

Elderly



AHFC Stock Photos

Children



Alaskans with Disabilities





# Weatherization Program

Health  
and Safety

Energy  
Efficiency

Homeowner  
Education

Comfort

Building  
Durability



Photo Credit: Jimmy Ord

## Employs Local Community Members



Photo Credit: Jimmy Ord

# Weatherization Program *Update*

## Current totals

December 31, 2012

Total expended	\$199.7m
Units complete	8,513

## Projected totals

March 31, 2013

Total expended	\$230m
Total units complete	10,500

## Projected totals

March 31, 2014

Expended	\$292.5
Units complete	13,500

# Weatherization Program

## *Savings*

Average home BTU savings

60.8 million  
BTU/year

Average home energy savings

28%

Average home cost savings

\$1,336/year

# Weatherization Program

	Southeast (Outside Juneau)	Anchorage	Fairbanks	NANA Region
	(n=562)	(n=518)	(n=807)	(n=106)
Average Energy Savings Per Year (Million BTUs)	54.4	54.2	56.6	62
Average reduction home energy use	31%	22%	23%	40%
Average cost savings per home (\$)	\$1,223	\$490	\$1,394	\$2,335



# 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



AHFC Stock Photo

# 5 Star Plus New Home Rebate



**Rebates**  
**Total Expended**

1,751 rebates  
13.1 million

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# Home Energy Rebate Program

## Stimulating an Economy

17,908 homeowners have spent more than  
**\$209.1 million** on energy efficiency  
improvements.



# Home Energy Rebate Program

## Program Snapshot

### Average Improvement Costs

\$11,681 spent  
-\$6,389 rebate  
-\$325 As-Is  
-\$175 Post  

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= **\$4,792** homeowner  
investment

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# Home Energy Rebate Program

Average homeowner investment

\$4,792

Average home cost savings

\$1,464/year

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**Investment pays for itself in 3.3 years!**

# Home Energy Rebate Program

	Juneau	Anchorage	Fairbanks	Bering Straits	Ahtna
	(n=1,012)	(n=9,566)	(n=2,361)	(n=13)	(n=37)
Average cost per home	\$12,089	\$12,062	\$11,800	\$15,036	\$8,783
Average cost savings per home per year	\$2,219	\$1,033	\$2,880	\$1,960	\$1,954
Average rebate per home	\$6,679	\$7,204	\$6,152	\$6,114	\$5,428
Average payback per home (homeowner funds) in years	2.4	4.7	2	4.5	1.7

# Home Energy Rebate Program

## *Savings*

Average home BTU savings

103 million  
BTU's/year

Average home energy savings

34%

# Home Energy Rebate Program

## *Results*

April 2008 – January 25, 2013

Rebates      17,908

As-Is      32,294

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## *Waitlist*

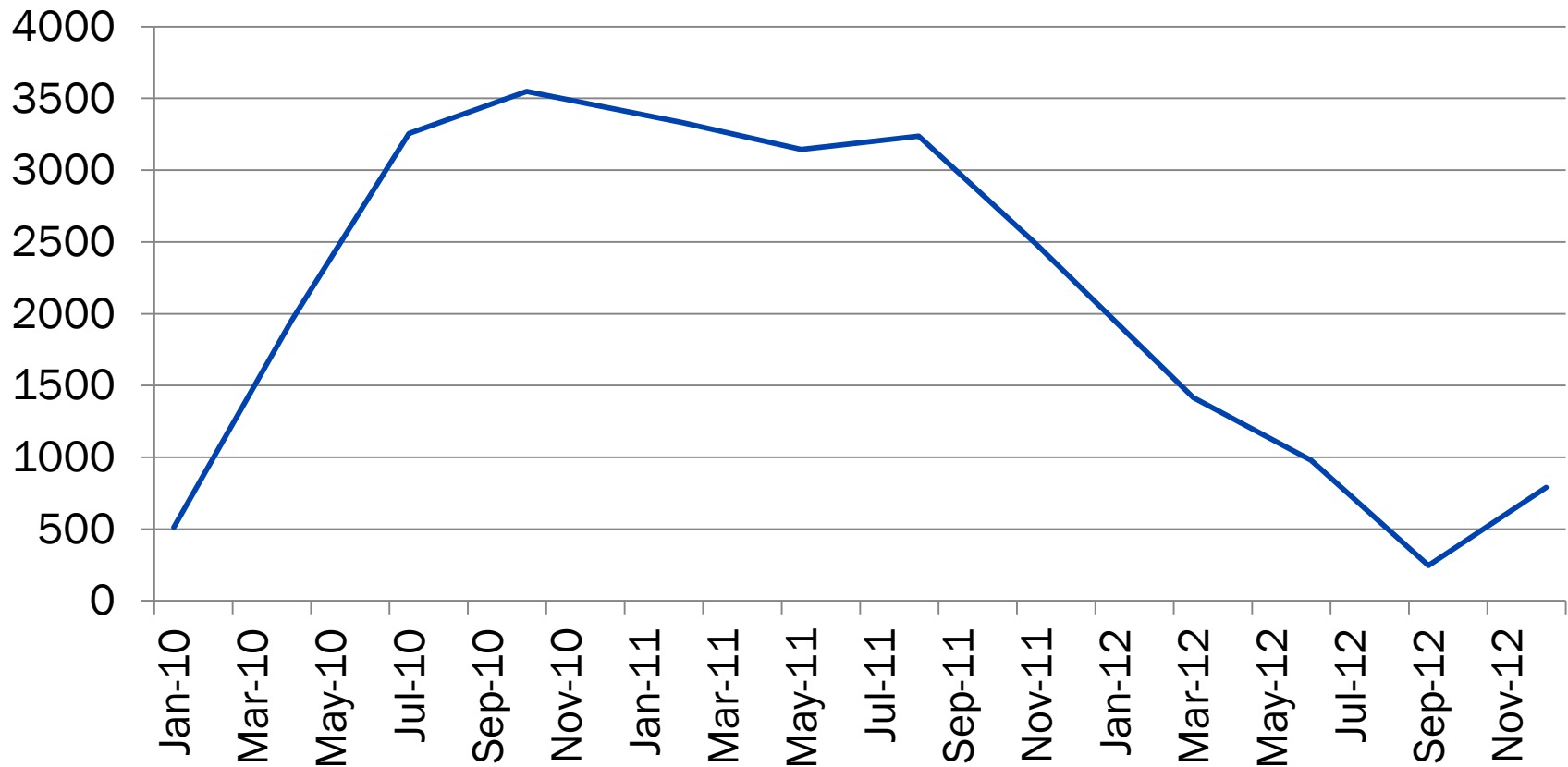
As of 1/25/13

511



# Home Energy Rebate Program

## Waitlist





## **Home Energy Rebate Program Marketing**

Rural Marketing Effort

Radio Advertisements in South Central, Fairbanks and Juneau

# Second Mortgage for Energy Conservation

Second mortgage up  
to \$30,000

15 Year Loan at the  
Taxable Rate

Active Loans: **65**

Loans Paid Off: **82**



AHFC Stock Photo



# Alaska Energy Efficiency Revolving Loan Program (AEERLP)

\$250m available for energy efficiency improvements for:

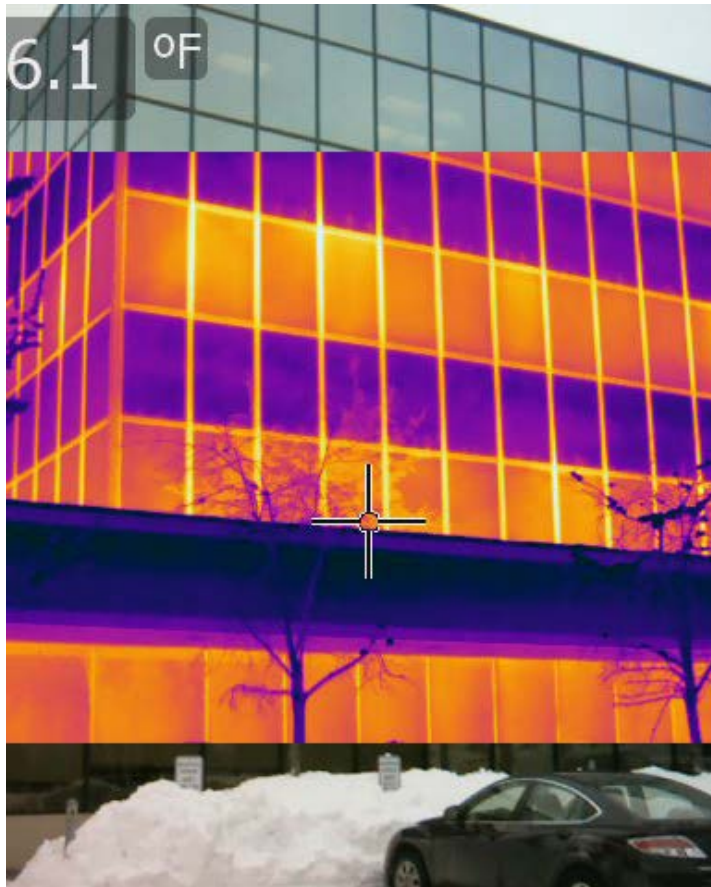
- |                       |                       |
|-----------------------|-----------------------|
| -Schools              | -State facilities     |
| -University of Alaska | -Municipal facilities |

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



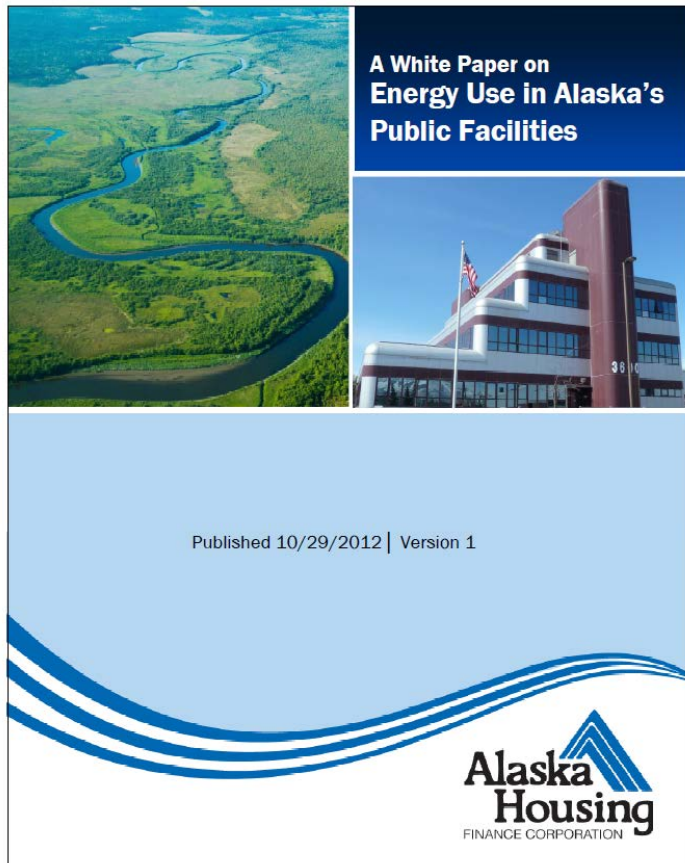
Photo Credit: CAEC

# Energy Use in AK Public Facilities



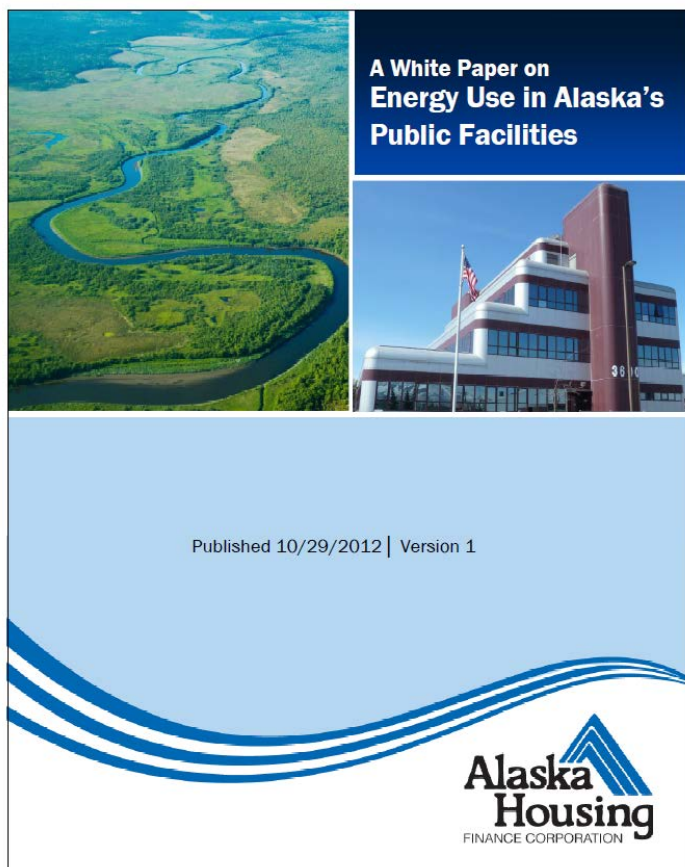
- ❑ Over 1,200 buildings benchmarked
- ❑ 327 buildings audited

# Energy Use in AK Public Facilities



- ☐ Adopt and enforce energy codes
- ☐ Require all publicly owned buildings track their energy use
- ☐ Establish a level of accountability

# Energy Use in AK Public Facilities



## Over All Findings

- ☐ Upwards of 5,000 publicly owned buildings exist in Alaska
- ☐ Estimated energy cost equates to approximately \$641,245,000 to the public each year
- ☐ At the average savings per building of \$25,000 the potential statewide annual savings would equal \$125,000,000

Note: Buildings were from a non-random sample

# ARIS

## Alaska Retrofit Information System

- ❑ AHFC's ARIS database has become the clearinghouse for information on Alaska buildings
- ❑ Used primarily by AHFC, DOT&PF, AEA, with all state agencies as users
- ❑ Over 70,000 unique records
- ❑ Available to local governments, school districts, boroughs and municipalities





# ARIS

## Alaska Retrofit Information System

- ☐ Home Energy Rebate Program Outcomes
- ☐ Alaska Energy End Use Study
- ☐ Energy Use in Alaska's Public Facilities
- ☐ Snapshot: The Home Energy Rebate Program
- ☐ Weatherization Assistance Program Outcomes
- ☐ Energy Efficiency of State, Municipal and Tribal Buildings in Alaska: Metrics and Analysis



# Efficiency First

More than 28,000 homes  
more efficient

More than 4,000 jobs  
created and retained

2.3 Trillion BTU's saved  
annually



