AHFC Energy Programs

Rebate, Weatherization, Revolving Loan

LEGISLATIVE REPORT

10/22/2010



Overview

- \$200 million for weatherization (income-based, no-cost program)
- \$100 million for rebates

 (for those NOT qualifying for weatherization program: rebates for eligible improvements ratings required)
- \$60 million additional for rebates 9/2008 (to carry program into next calendar year)
- Large training component for both programs

Allocations

Anchorage Region
Southcentral Region
Fairbanks Region
Interior Region
Juneau Region
Southeast Region
Northern Region
Western Region
Southwest Region

Weatherization Rebate \$26 million \$34 million \$16 million \$24 million \$29 million \$17 million \$2 million \$12 million \$4 million \$12 million \$5 million \$14 million \$4 million \$18 million \$5 million \$20 million

\$12 million

\$2 million

Weatherization PROGRAM

\$200 Million

Encumbered:

2008-2009= **\$70** million 2010= **\$60** million



Weatherization PROGRAM

Homes Weatherized

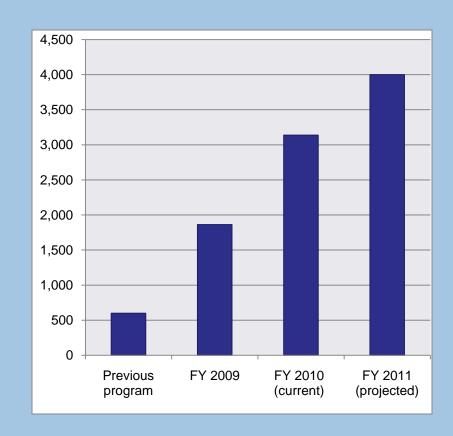
Previous program: 600

• FY 2009: **1864**

FY 2010: 3139 (current)

FY 2011: 4000 (projected based on funding)

 Statewide weatherization providers and housing authorities have now achieved a sustainable capacity.





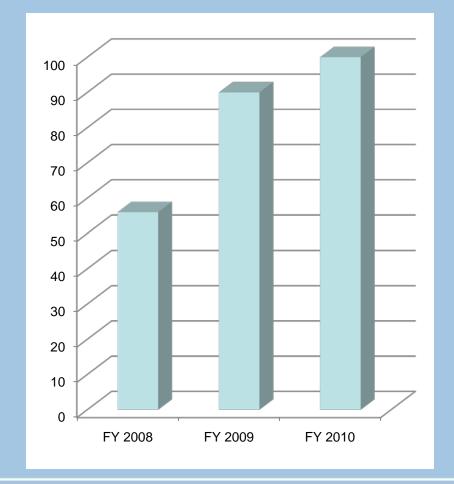


Communities/Areas Served

• FY 2008: **56**

FY 2009: 90

• FY 2010: **100+**



W Home Energy Rebate PROGRAM

\$160 Million

Funds Fully Encumbered Expended: \$72.8 million



W Home Energy Rebate PROGRAM

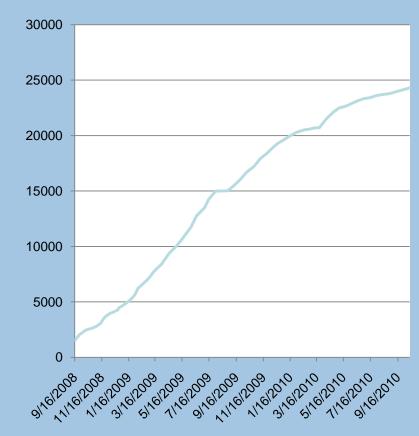
As-Is Ratings Paid: 24,292*

Existing Homes*

- 9,142 rebates paid
- \$6,258 average
- 18 month deadline
- 63.5% participation rate

New 5 Star Plus Homes

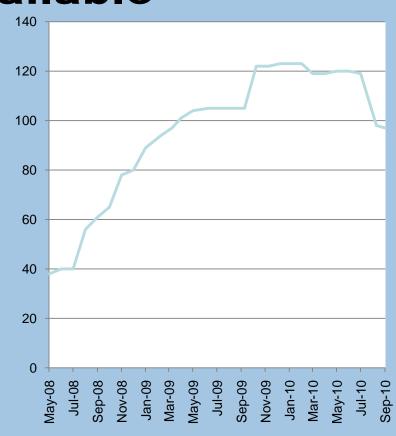
• 822 rebates paid



W Home Energy Rebate PROGRAM

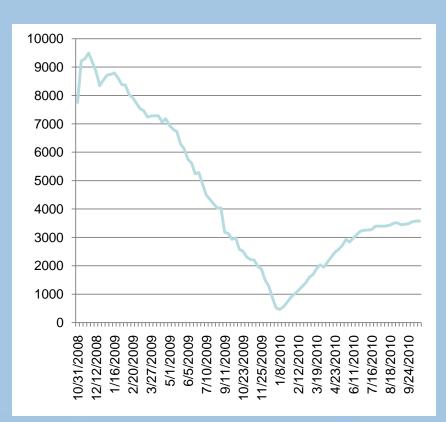
Raters Available

- Raters
 - 38 at program start
 - 123 at peak
 - 97 currently listed
- Roving rater program
- Centralized sign-up list
 - www.akrebate.com or call 1-877-AK-REBATE



W Home Energy Rebate

Wait List



Statewide: 3,575

Anchorage: 1,583

Fairbanks: 326

Juneau: 182

Total Ratings Dispatched

Statewide: 30,081





Program Snapshot

Approximate Costs of Sampled Homeowners

AHFC Rebate Amount

\$6200 average rebate

Homeowner Paid Costs

\$10,800 average spent

-\$6200 average rebate

=\$4600 homeowner investment

\$1580 annual energy savings 3 year payback



W Home Energy Rebate PROGRAM

Energy & CO2 Impacts

HOMES	Before	After	Total Saved	Per Home
6998				
Energy Cost	\$38,104,164	\$27,061,010	\$11,043,154	\$1,586 / year
CO2 lbs/year	304,449,069	218,531,869	85,917,199	12,341 lbs / yr
Rating Stars	2+	4		3 steps
BTUS			679 Billion	97 Million

Average energy use reduced 32.58%

Equivalent energy savings: 117,184 barrels of crude oil

4.9 million gallons of fuel oil

700 gallons of fuel oil per home



W Home Energy Rebate PROGRAM

Average Savings per Home by Fuel Type

Fuel Type	Average Saved	
Electric	748 kwh	
Natural Gas	978 ccf	
#2 Oil	650 gallons	
Propane	84 gallons	
Wood	2.2 cords	

6998 sampled homes

Projected average energy cost reduced 29%



Second Mortgage for Energy Conservation

- 2nd Mortgage up to \$30,000
 - -15 Year Loan at the Taxable Rate
 - -Loans Paid Off: 84
 - -Active Loans: 34



Home Energy Rebate & Weatherization Comparison Snapshot

BEFORE*
1996 - March 2008

AFTER April 2008 – October 15, 2010

• Ratings 25,557 34,283

• Rebates n/a 9142

• 5+ Homes 2,345 822

Weatherized 10,704 5003

14,967 homes now more energy efficient since 2008



*Programs prior to \$360 million state funding

Alaska Energy Efficiency Revolving Loan Fund (AEERLF)

"Alaska Sustainable Energy Act" - \$250 million revolving loan fund

- Energy efficiency improvements for
 - Regional Educational Attendance Areas (REAAs)
 - University of Alaska
 - State facilities
 - Municipal facilities
- Guaranteed savings from energy efficiency improvements are used to pay off the loan
- Requires Retrofit Energy Assessment for Loan (REAL)

In final development phase

Retrofit Energy Assessment for Loan (REAL)

Prior to applying for the loan...

Initial Project Evaluation

Energy benchmark

Energy Audits

Audits by Certified Energy Auditor (CEA) or Certified Energy Manager (CEM)
 certification through the Association of Energy Engineers (AEE), or an AHFC-approved
 equivalent.

Energy Performance Contracts (EPCs)

 Energy Service Companies (ESCos) pre-qualified by Alaska Housing Finance Corporation (AHFC) and Alaska Department of Transportation and Public Facilities (DOT/PF) may be used.

Retrofits may be managed by qualified Energy Service Companies (ESCos), or the facility owner (if under \$250,000).

Retrofit Energy Assessment for Loan (REAL) Process

REAL application/benchmark to AHFC

AHFC reviews application for eligibility

Initial assessment performed by qualified energy auditor (CEA/CEM) to allow for benchmarking and AHFC prioritization of projects

Investment Grade Audit (IGA)

Loan application to AHFC for approval



Energy Efficiency Revolving Loan (EERL) Process

Loan approved by AHFC

Upgrades accomplished either through Energy Performance Contract (EPC) with an Energy Service Company (ESCo), or overseen by facility owner (if less than \$250,000)

Loan repaid according to projected energy savings (term depends on payback of project; less than or equal to 15yrs; interest based on rate in effect at time of application)

Technical assistance available

Long term energy savings



Two ways to get the work done

Path 1

ESCo does IGA

ESCo manages project, performs work through EPC

Path 2

Certified Energy Auditor or Certified Energy Manager does IGA

Facility owner manages project (if less than \$250,000)

