

# – WEATHERIZATION IN ALASKA: A PROVIDERS PERSPECTIVE

*PRESENTED BY:*

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# Statewide Wx Program Delivery

**AK Legislature mandated the program be implemented 'yesterday.'**

- Two delivery networks:
  - 5 Statewide Wx contractors
  - 14 AK Native Regional Housing Authorities



# AK Regional HA Background / Structure

- Ak Native organizations created in early 1970's under state statute (A.S. 18.55.996)
- Organized along ANCSA geographic boundaries (service areas)
- Originally formed to meet housing needs of underserved Native villages & administer HUD 37' Act funding
- Became TDHE's under NAHASDA
  - 190 Tribes
  - Aprox. \$90M in NAHASDA funds

# State/ Tribal Partnership

- Regional HA's created under same statute as state HA – Alaska Housing Finance Corporation (AHFC)
- Pre-existing relationship was critical factor to Wx program development / implementation
  - ▣ AHFC supports RHA statewide operations & has on-going contractual relationships
  - ▣ Allowed for immediate conduit / vehicle for Wx service delivery vehicle
  - ▣ RHA serve *all* eligible applicants (Native & non-Native)

# Training / Capacity Building

- Key to successful Wx program has been well funded, well structured, well implemented training & capacity building program
- RHA already had “construction skills;” Wx skill set had to be added & refined
- AK had core group of energy efficiency experts / energy assessors & trainers to draw from
  - ▣ Existing AK Wx program for 20+ years

# Training / Capacity Building

- RHA Contracts included 3 line items:
  - Operations
  - Administration
  - Training

# Training / Capacity Building

- AHA Wx training:
  - ▣ 32 different training sessions to date
  - ▣ 117 trainings (some staff attending multiple sessions.)
    - E.g.: Lead Construction Coordinator attended 18 sessions; Field Forman attended 5.

# Training / Capacity Building

- 12 different training providers:
  - Alaska Craftsman Home Program; Alaska Works Partnerships; Wisdom & Assoc.; UAA; AEA; CCHRC; AHFC; other private contractors
  
- Broad range of trainings:
  - Advanced Cold Climate building Techniques
  - Energy Assessor certification
  - Combustion safety
  - BPI Certification
  - Boiler / furnace trainings
  - Building envelope retrofitting
  - Blower door testing / AKWARM
  - Lead Certified Renovator



# Wx Program Implementation – Aleutian Housing Examples

## □ Staffing:

- ▣ 2 Full-time office employees (Construction & Program Mrg.)
- ▣ 12 Full-time field employees
- ▣ 9 Part-time field employees (as needed)

## ▣ Process:

- Community Outreach (10 communities)
- Field Assessments (AkWARM driven)
- Develop PMP & Complete Scope of Work (PMP)
- Post-Assessment & Closeout

# Projected Wx Projects/ Plans

- Current 5-year Plan:
  - Currently in Grant Year 3 under a 5-year plan
  - Completed approximately 110 of an anticipated 260-280 projects / units
  - Rural area cap of \$30K / unit for S/F units (includes project mgmt. , admin & construction)

# Field Work Results- Atka



# Results – Actual Savings

## Atka Example

Wx Client No.	Pre Weatherization				Post Weatherization			
	Annual Usage (gallons)	Annual Cost	Cost per gallon	Date data received	Annual Usage (gallons)	Annual Cost	Cost per gallon	Date data received
15	885	\$7,071.00	\$7.99	10/22/08	583	\$3,964.40	\$6.80	1/25/11
13	805	\$6,432.00	\$7.99	9/30/08	350	\$2,380.00	\$6.80	1/25/11
14	402	\$3,212.00	\$7.99	10/22/08	450	\$3,060.00	\$6.80	1/25/11
6	1,200	\$9,588.00	\$7.99	10/13/08	525	\$3,570.00	\$6.80	1/25/11
2	1200	\$9,588.00	\$7.99	12/11/08	620	\$4,216.00	\$6.80	1/25/11
3	400	\$3,196.00	\$7.99	11/25/08	485	\$3,298.00	\$6.80	1/25/11
12	1100	\$8,789.00	\$7.99	8/24/09	300	\$2,040.00	\$6.80	1/25/11
11	835	\$6,671.65	\$7.99	8/24/09	410	\$2,788.00	\$6.80	1/25/11
10	900	\$7,191.00	\$7.99	8/24/09	350	\$2,380.00	\$6.80	1/25/11
8	691	\$5,521.09	\$7.99	8/24/09	425	\$2,890.00	\$6.80	1/25/11
7	712.5	\$5,692.86	\$7.99	8/24/09	510	\$3,468.00	\$6.80	1/25/11
6	800	\$6,392.00	\$7.99	8/24/09	525	\$3,570.00	\$6.80	1/25/11
5	550	\$4,394.50	\$7.99	8/24/09	465	\$3,162.00	\$6.80	1/25/11
13	10,481	\$ 83,739	\$7.99		5,998	\$40,786.40	\$6.80	
	806.19	\$6,441			461	\$3,137.42		

□ Average homeowner savings in dollars & fuel used: **43%**



**Field Work Results**

**Project Examples**



Installing rigid foam insulation on cement walls

## Caulking and air sealing



## Finished look

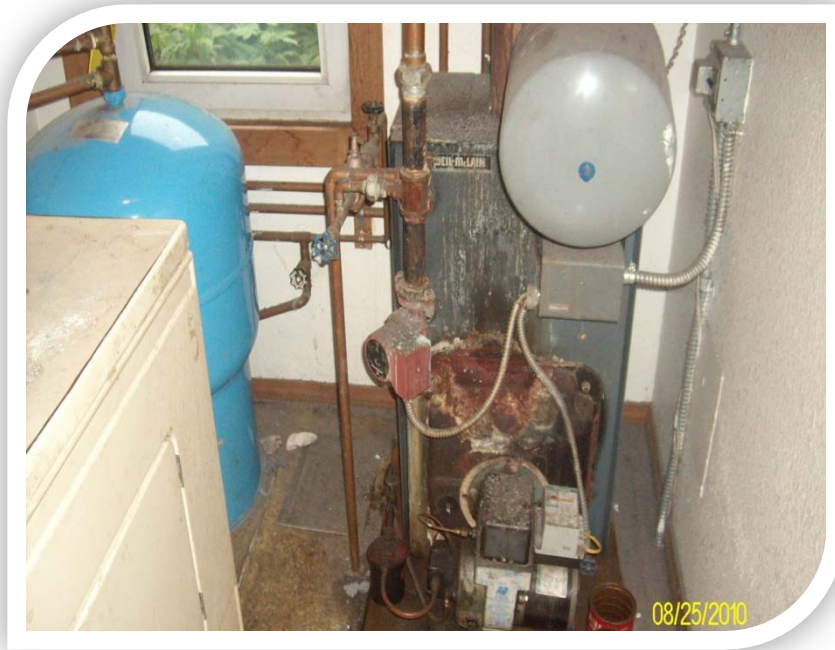




Installing air gasket on electrical outlet



Existing boiler and hot water tank



New System 2000 boiler and hot water tank





Weatherization sticker

## New smoke alarm



## Back view of smoke alarm (hard wired)





## Air Sealed, insulated crawl space

New ground vapor retarder

## Prepping attic for cellulose installation



## Installed cellulose in attic





New CO detector with digital readout

**Sealed air leak at wall penetration  
in attic**



**Air sealing at wire penetration in  
attic**





Air sealing and rigid foam insulation in crawl space



## Existing HRV with damaged heat exchanger



## New HRV replacement





Water damage from leaking windows

## Window replacement and siding repair





Wind baffle over new range hood exhaust

## New exterior exhausting range hood





Existing window jamb - sealed

**Stove without range hood exhaust**



**New range hood exhaust installed**



# Thank You

## CONTACT INFO

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