Residential Housing & Building Efficiency

Alaska Housing Finance Corporation’s mission is to provide Alaskans access to safe, quality, affordable housing.
**Energy efficiency** simply means using less energy to perform the same task – that is, eliminating energy waste. (Environmental and Energy Study Institute)

**Weatherization** refers to the installation of energy-efficient measures to improve the building envelope, its heating and cooling systems, its electrical system, and electricity and/or fuel consumption. (Connecticut)
Energy Efficiency and Weatherization

- Started the first time someone was cold and wanted to be warmer.
- Modern weatherization as a program started in the mid 1970’s
Saving Money and Saving Energy
It is not for us.... but for them!

- Energy Savings -
- Cost Savings -
- Health & Safety

Children were a gauge as biological indicators of housing health.
- 70% of their time spent indoors
- Breathe the air
- Constantly on the go
- Touch all household surfaces
- Everything goes into their mouths
- Highly affected by conditions
ALASKA STATE INVESTMENT

$242.6 MILLION into the Home Energy Rebate Program has had the following effects:

26,587 Total units retrofitted

SAW A REDUCTION OF

$261 MILLION in total residential energy costs*

Average energy use of participating households by 34%
Energy Efficient Measures

- Increased air-tightness
- Installed programmable thermostat
- Replaced heating system
- Replaced water heater
- Insulated ceiling
- Replaced doors
- Replaced windows
- Insulation added
- Installed ventilation
• Health & Safety is the #1 priority
  – Homeowner Actions – Ok to do!
    • Reprogram Thermostats
    • Unplug unused equipment (ghost loads)
    • Upgrade appliances
    • LED lighting
    • Replace broken windows & doors

• Professional Actions – **Hire an expert!**
  • Diagnostic Testing
  • Air sealing / insulation
  • Replacing fans / ventilation
  • Heating systems – tune-up or replacement
Basic Building Science

House as a system
AHFC Loan Programs
• Wx Programs
• Loans & Financing
  • Renovation Loans
  • First-Time Homebuyer
  • Rural Loans (purchase or renovate)
  • Veterans Mortgage Program
  • Energy Efficiency Interest Rate Reduction

Alaska Housing Finance Corporation
Who to talk to...
• Your local lender and ask for an AHFC loan.
• Find a lender through AHFC Website – Featured Lenders
• Contact AHFC – 888-854-3884

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