
Energy Efficiency Work Group – August 14 & 17, 2018

In Attendance:

Voting Members

Dan Givens
Donna Robertson
Jimmy Fox
John Davies

Joseph Little
Lee Hazen
Lisa Baraff
Ron Johnson
Ross Adkins

Facilitation Team

Jana Peirce

Tuesday, August 14

EE Brown Bag Lunch – presentation by Nathan Wiltse, Cold Climate Housing Research Center

- City of Fairbanks adopted IECC code 2015
- City of North Pole adopted IECC code 2009 (little to no enforcement)
- Most of the housing stock in the area were built in the 70s/80s and are at 2 star plus and 3 star plus ratings
- New construction is already pretty energy efficient, should target the older homes
- Two ways energy efficiency programs could go
 - One: target specific measures/retrofits
 - Two: Allow residents to do whatever measures increase their houses rating
- A targeted program on solid fuel burning devices, possibly starting at NOASH residents, would be more effective in reducing PM2.5

Friday, August 17

Work Group Discussion

- **Recap brown bag lunch discussion**
- **Focus our energy existing housing**
 - Bigger Bang than new construction (delay in impact, plus already more energy efficient)
- **New construction**
 - BEES – standard 4.5-5 stars to qualify for AHFC loan
 - City of Fairbanks building code close to BEES
 - 2/3 new construction meets BEES (voluntary by builders or reg by bank)
 - North Pole Building Code
 - Not well known
 - Not enforced
 - Only in City of North Pole
 - Commercial Buildings
 - State of Alaska
 - Mostly mechanical + safety
 - Schools
 - DEED has energy standards for schools
- **Target existing housing stock**
 - Lots of opportunity
 - AK warm data

- Most of Fairbanks 2-3 star homes
 - HER/Wx program effectiveness
 - 32% energy savings
 - HER: \$11k cost (\$3k from homeowner)
 - Wx program allowed up to \$30k/home included safety measures
 - Wx program continues with federal dollars (low income only)
 - HER discontinued. AHFC says could continue in targeted fashion
 - Could do better than 30% if program were targeted.
 - Adding insulation more effective than windows
 - 30% energy savings from just insulating crawl-space wall
 - Double benefit from targeting low income: More likely to burn wood
 - Targeting: Need to put though into prioritization
 - Targeted EE where most needed + grow it out
 - NOASH, Hotspots, Solid fuel
 - Apartment buildings with outside boiler?
 - Not rule out any retrofits (e.g. windows)
 - Talk with Interior Weatherization: Could they target hotspots under existing program?
- **Not a Control Measure**
 - Voluntary – doesn't count for [SIP]
 - If we put dedicated funding in mil rat can it be a Control Measure?
 - Long term benefits from improving energy efficiency
- **Funding**
 - Use targeted air shed grants?
 - Can investment in Wx program and count as offset for point sources?
- **Education**
 - Education to NOASH include info on Wx programs they may qualify for
 - Encourage smaller homes not to heat whole home (e.g. empty bedrooms)
- **Saturation study**
 - Saturation Study: 2 miles wide x 5 miles long
 - 150 NOASH waivers (How many total NOASH?)