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## Energy Efficiency Work Group – July 20, 2018

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### In Attendance:

#### Voting Members

Jimmy Fox  
Dan Givens  
Kendall Brehm  
Dr. Owen Hanley  
Tim Jones  
Dr. Joseph Little  
Ross Adkins  
Ross Johnson  
Jennifer Willeford

#### Non-Voting Members

Nick Czarnecki, FNSB

#### Facilitation Team

Jana Peirce

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### Discussion

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- What to do with inefficient buildings?
  - Energy savings from past weatherization (Wx) efforts (CCHRC report, 2008-11)
    - Federal Wx assistance program: 21% Reduction in North Pole
    - Home Energy Retrofit (HER) program: \$2,500/year savings in heating (bigger than Wx in No. Pole)
    - Money has dried up
  - R75 walls/R? roofs: can cut energy by 2/3
  - Ways exist to overcome difficulties in adding insulation to existing structures. (Ross Adkins)
  - Energy efficient blinds
  - Look at Energy retrofits for NOASH households
  - Make money available for Energy Efficiency for low income households
  - Promote energy audits for homeowners
    - GVEA electrical audit (limited)
    - Interior Weatherization (full audit with blower door test, etc.)
- Why aren't contractors building energy efficient (EE) homes?
  - Need Building Codes for Energy Efficiency
    - State BEES Code
    - Commercial building code?
    - Are there standards for cabins (BTUs/sq. foot)?
    - AHFC minimum construction standard?
  - Lenders "appraise to market" – only lend up to certain amount based on comps.
    - Buyers want energy efficient homes (Bryce Ward), but have hard time getting financing.
- Look at efficiency in Transportation too
  - Educate people to drive smaller vehicle during alerts
  - Waiver or sticker on windshield to operate large vehicle during alert

- Technologies:
  - Heat pumps – what are economics in the Interior?
  - Solar-air heater (Ron Johnson)
  - Activated Autoclave Concrete (AAC) – industrial opportunity (Dan Givens)
  - Energy efficiency technology used in Europe
    - Condensing boiler (required in England) – 30% energy savings
  - “Stack Robber” – increases efficiency of wood stoves by capturing lost heat (older technology)
- Make blueprints available for super-efficient tiny homes
- Education
  - Opportunity for Army and Air Force housing offices help with education
    - Consider energy efficiency and type of heating source when adding properties to list compiled for personnel looking for off-base housing (Air Force says it is not building new housing itself)
    - Talk to housing office about potential mechanism to approve housing in nonattainment area (Tim Jones will look for contact name)
    - Housing allowance is generally “above market” rates
    - Good time for education is when they first arrive: Newcomer’s Group (Every new soldier), Get Ready for Winter group (talk about Wx vehicles, etc.)
  - Work with realtors too
  - Incentives or education for smaller homes and smaller vehicles (“smaller living”)
    - Energy use increases with size of house, even if home is energy efficient
    - Proper sizing of boilers
  - Link NOASH households with other resources/assistance when apply for NOASH waiver
    - Interior Weatherization recommended NOASH applicant stay with wood stove and apply for NOASH waiver
  - Information from AQ Stakeholders Group (educational papers, you tube, etc.) on what would really help improve air quality in Fairbanks/No. Pole.
- Borough assessment for property taxes based on sales cost (not cost to build or energy efficiency)
- Licensing for EE-building specialist (LEEDS)
- Ask State of Alaska to prioritize FNSB for energy efficiency program funding
- Ft. Wainwright energy use on base:
  - Army is “single fuel” as much as possible: uses J8
  - Don’t know sulfur content of J8