Alaska’s experience with whole community energy efficiency

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Alaska’s experience with whole community energy efficiency: a quick outline

1. Defining “rural”
2. EE programs
3. Case Study: Nightmute
4. Case Study: Quinhagak
5. Case Study: Galena
6. Future potential
Alaska: by the numbers

740,000 People
660,000 Sq. Miles
200 Remote Microgrids
Railbelt
72% of Pop
76% of Energy
(Natural Gas)

Southeast
10% of Pop
13% of Energy

Rest of AK
18% of Pop
11% of Energy
Diesel is primary power in 90% of rural Alaska
Rural AK – High Energy Costs

NOTICE

New Fuel Prices
Gas= $7.50 per gallon
2 Cycle Oil= $7.50
Motor Oil= $6.75
Deisel= $8.50 per gallon
Propane= $300 per tank

Venetie, 1/5/17
Energy affordability starts with efficiency

- 35,000 rural residential buildings
- 75% not yet retrofit
- Total possible savings from EE = 7M gallons of heating oil equivalent/year

- 10,000 rural non-residential buildings
- Most not yet retrofit
- Total possible savings from EE = 12M gallons of heating oil equivalent/year
Alaska’s Energy Savings Potential is Huge
Community-Scale EE Case Studies

1. Nightmute (2009)
2. Quinhagak (2015)
Quinhagak Financed WVR Pilot Project (2015 – 2016)
The path forward points to innovation and collaboration
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AEA’s mission: Reduce the cost of energy in Alaska.