



Alaska is Energy!



- 70 straight days of sunshine powering solar & more
- Fairbanks receives more daylight than the "Lower 48"
- Sunshine provides energy to grow vegetables and flowers larger and more brilliant than the "Lower 48"
- Sunshine provides vitamin D to grow and protect our bones
- Sunshine energizes people and improves mental health
- Alaska has the largest field of oil in North America and produces 25% of the U.S. oil



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Where does Alaska's energy consumption per capita rank? A. 10th highest B. 5th highest C. 4th highest D. 1st highest https://www.eia.gov/state/rankings/



Energy Efficiency is a resource too!

Energy savings from customer energy efficiency programs are typically achieved at 1/3 the cost of new generation resources. Efficiency programs can also reduce the need to install, upgrade or replace transmission and distribution equipment.

http://aceee.org/topics/energy-efficiency-resource



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Building Science is key!

- In 1950, 25% of Americans did not have indoor plumbing
- 630,000 Homes in U.S. do not have indoor plumbing per Census
- Originally it was thought to be
 - Unhealthy
 - Indelicate
 - Ugly

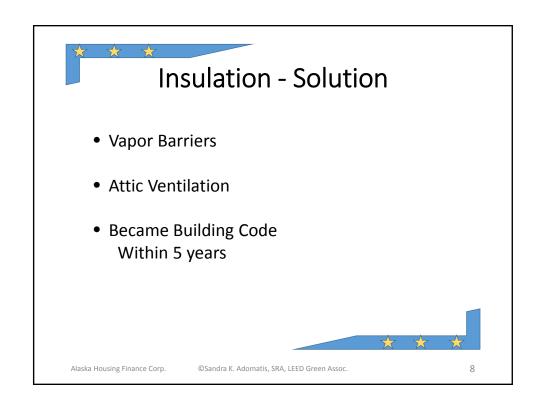


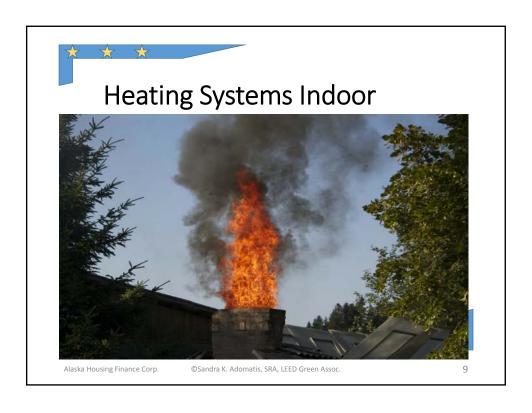
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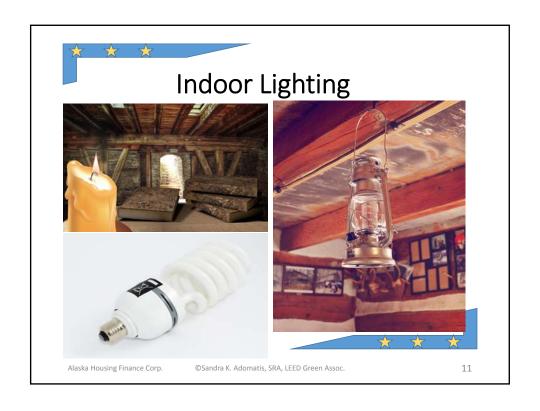
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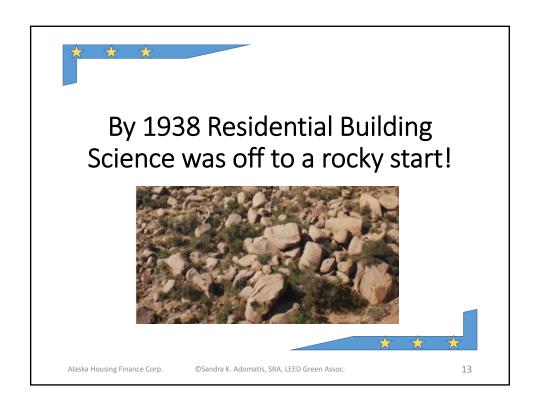






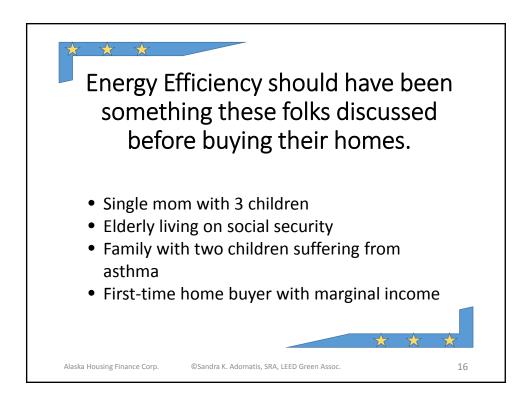


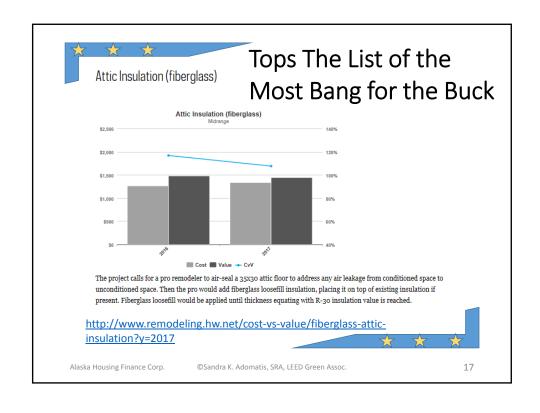




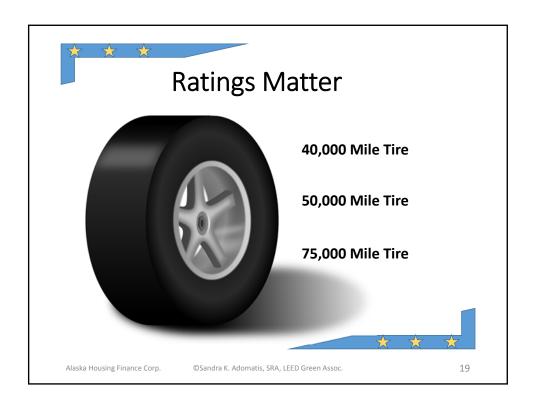


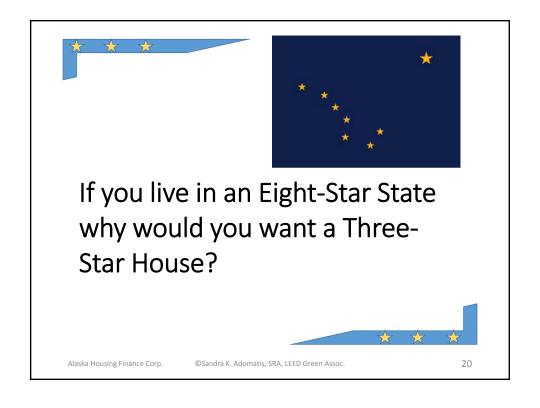
New Building Science – Emphasizes Comfort Health Lower Cost of Maintenance Ratings and brand names

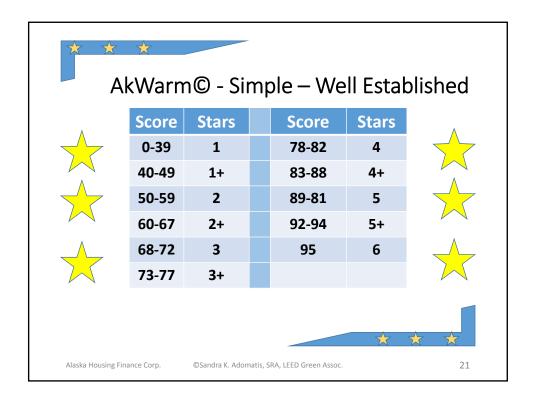


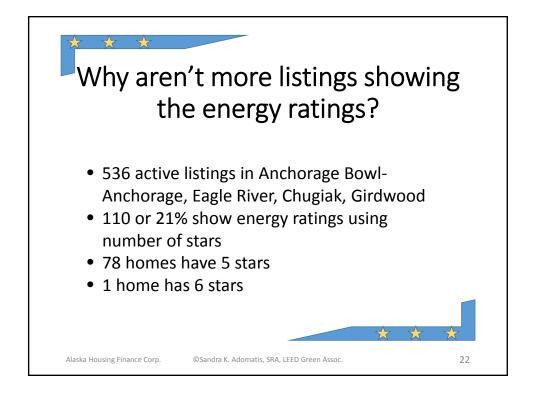




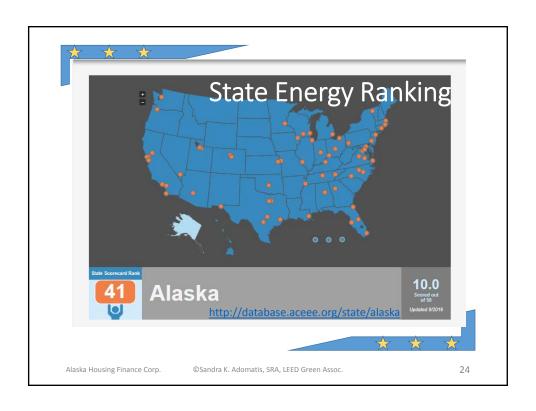












Alaska Housing Inventory

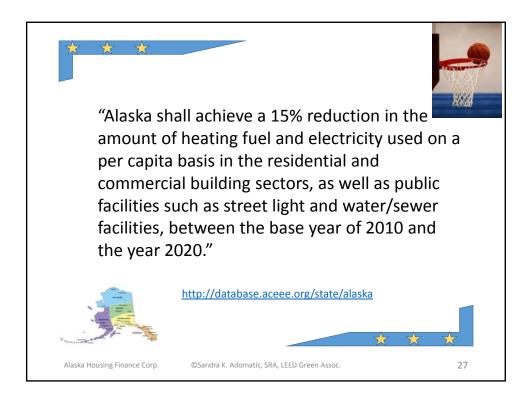
- Nearly 1 in 3 households in Alaska are costburdened or some 75,000 homes
- Nearly 20,000 homes use large amounts of energy
- Average size house is 1,881 square feet
- 72% of houses were built between 1960 and 1999
- 33% of housing uses fuel oil
- Statewide average energy cost per house is \$4,681
- Highest costs are \$8,000 annually per house in Doyon Region

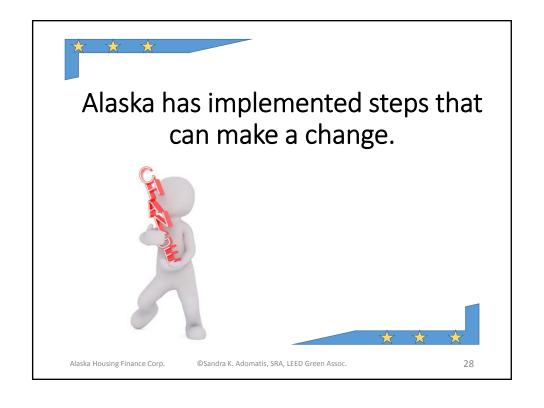
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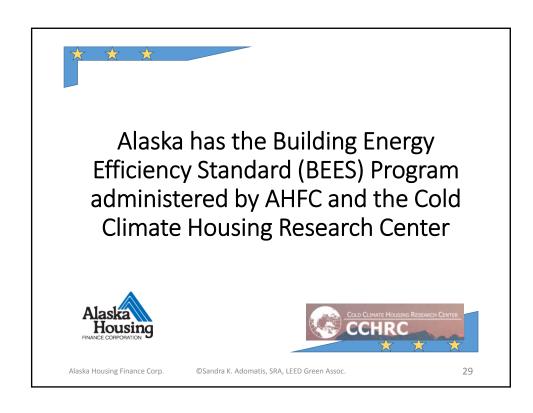
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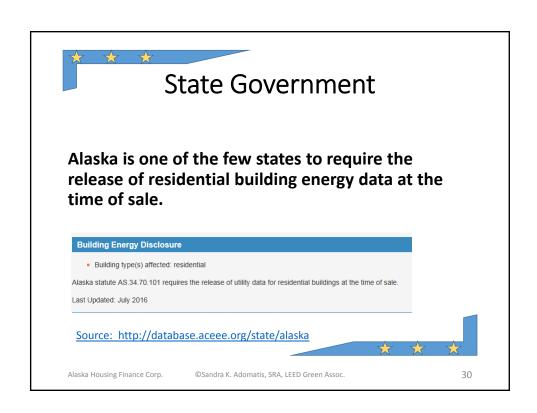
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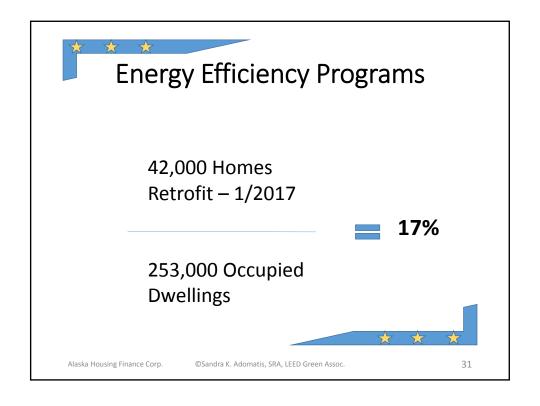


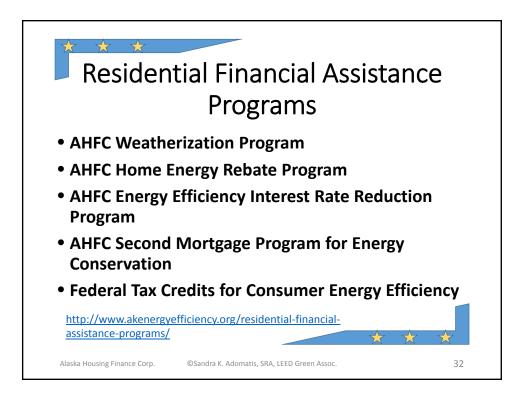




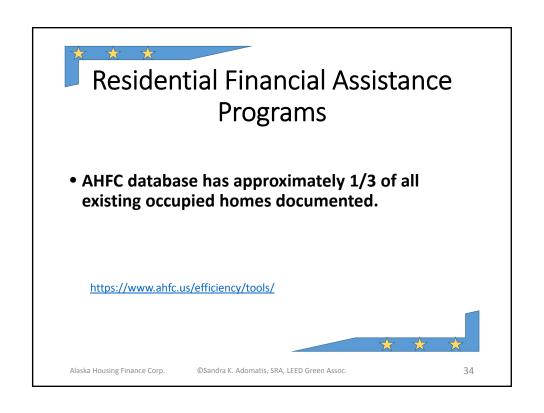








Alaska Programs • Energy Audits – home owners making recommended changes save an average of \$1,347 annually. That's a payback period of 4 years. Source: http://www.akenergyefficiency.org/get-an-assessment/







All new construction must meet a high energy efficiency standard compared to houses built just 5 years ago.

SIP Wall Construction – Energy Efficient

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