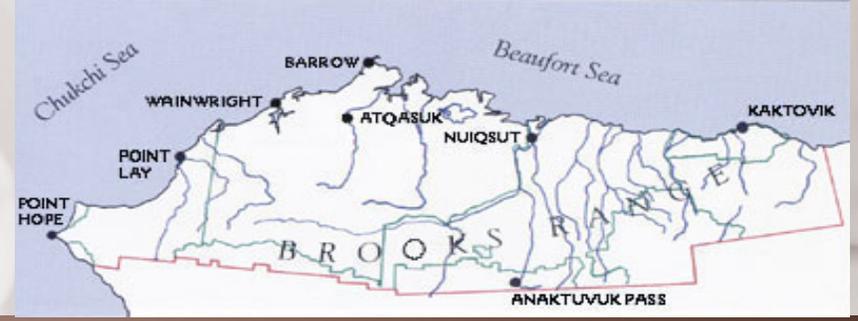




# THE EVOLUTION OF TNHA HOUSING

FROM 2009 – PRESENT

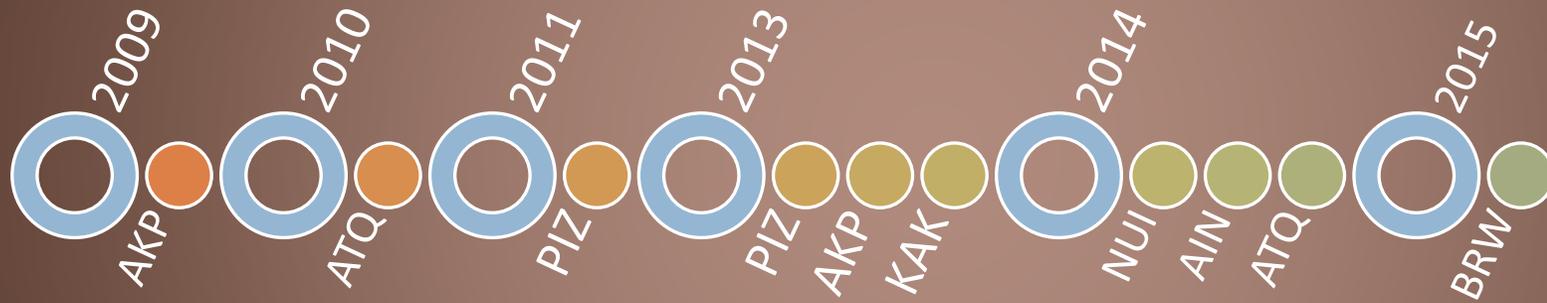
# Interesting facts



- 2009 Ground breaking
- 6 Generations of Housing to date
- Project 27 started in the fall 2013
  - 24 homes
  - 6 Villages
  - 2 Years
- First and only 6 STAR energy rated homes in the Arctic
- Project 31 started in the summer 2015
  - Tightest home ever
  - 13 days to dry in



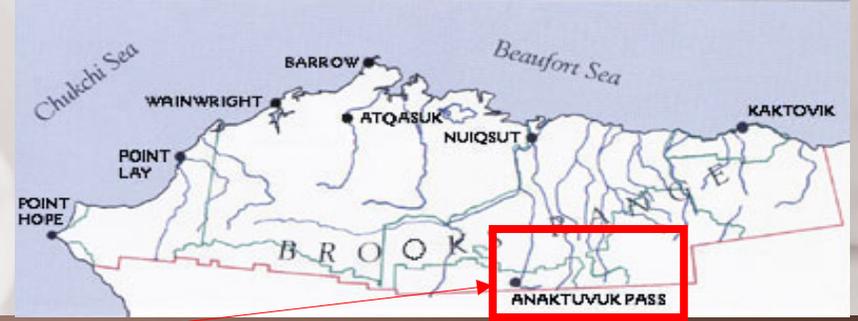
# 2009 Sustainable Northern Shelter (AKP)



# 2015 TNHA R-Valued (BRW)

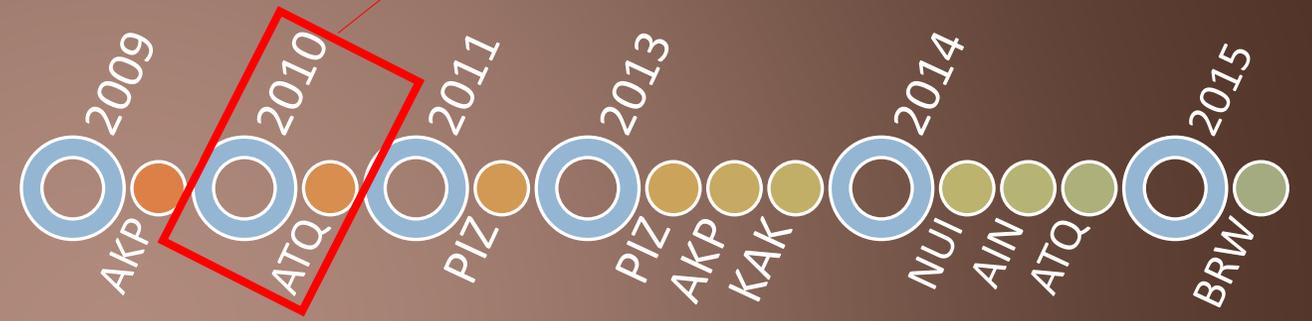
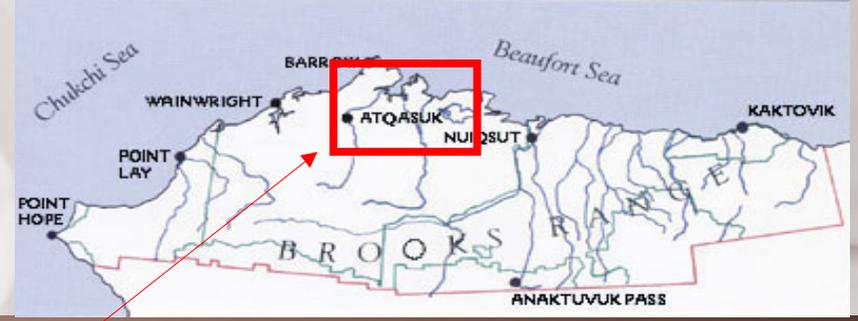


# GENERATION 1 (1) HOME

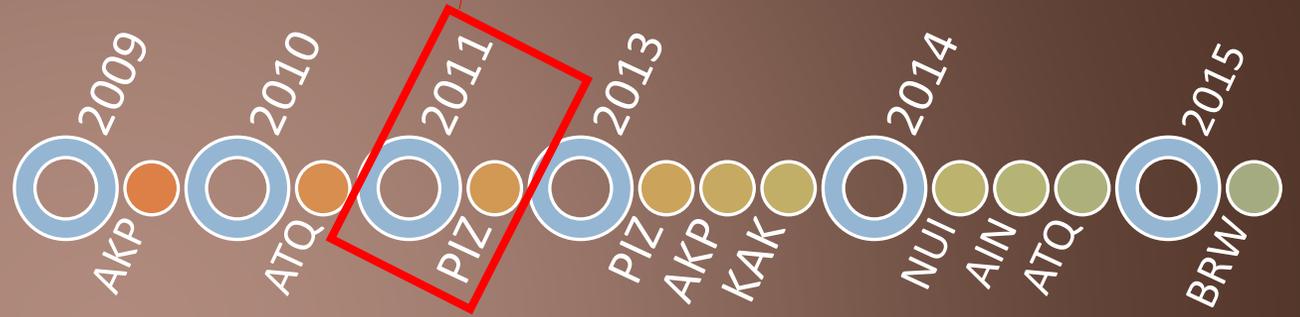
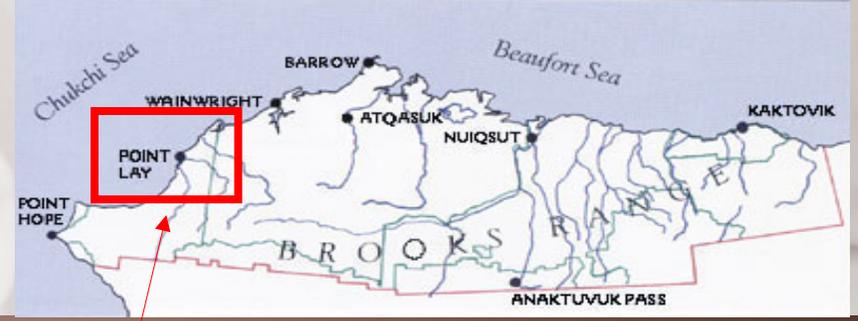


Sustainable Northern Shelter

# GENERATION 2 (3) HOMES

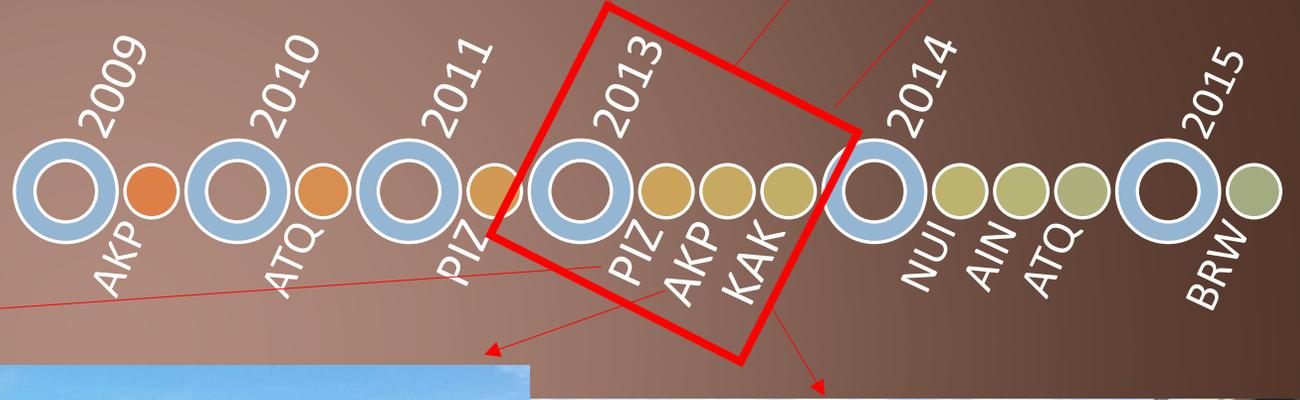
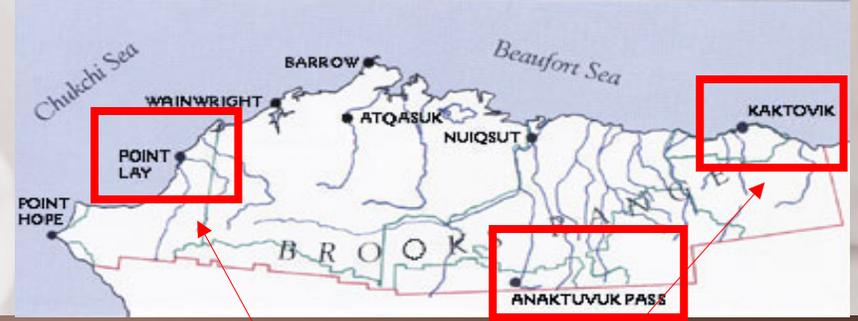


# GENERATION 3 (2) HOMES



Sustainable Northern Shelter

# GENERATION 4 (12) HOMES



# GENERATION 4

## Home Energy Rating Certificate

**Alaska Housing FINANCE CORPORATION**

The Home Located At:  
Truss House 906  
Point Lay, Alaska

Has Been Energy-Rated As:  
**★★★★★★**  
Six Star

**Overall Efficiency of Home**  
95.3 points

**BEES Compliance**  
Pass

Amount of CO2 Produced by the Home  
18,453 pounds per year

**Projected Annual Energy Costs**  
\$2,129 per year

**Breakdown of Heating Costs, \$ Per Year**

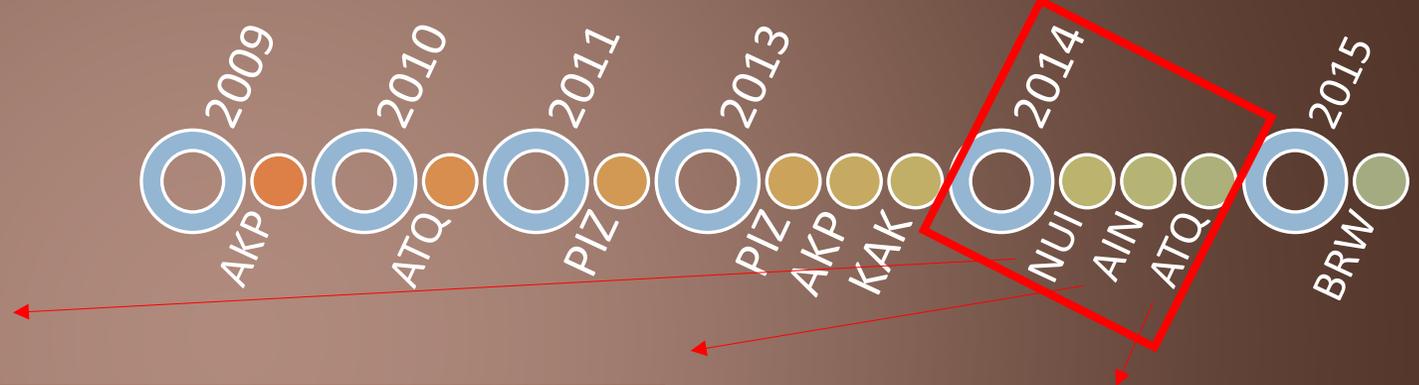
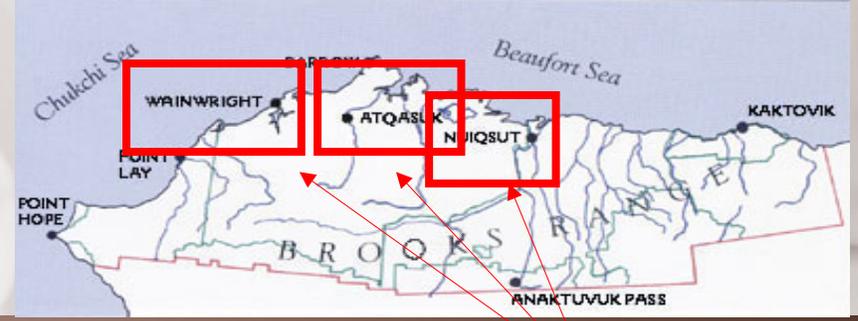
Floor	\$56
Wall/Door	\$91
Window	\$68
Ceiling	\$63
Air/Vent	\$146
Htg System Loss	\$74
Hot Water	\$625

Client: TN HA Rater: Bryan Duszynski, Stoke Energy Services Date: 7/1/2014  
Rater's City: Fairbanks, Alaska 99709 Contact: (907)388-3321, doesntski@gmail.com  
ver. 2.3.2.1, library: 4/11/2014, file: TNHA PT Lay Truss House # 906.hm2, Rating Type: BEES

I certify that this Rating is true and correct, to the best of my knowledge and belief:  
  
Rater Signature

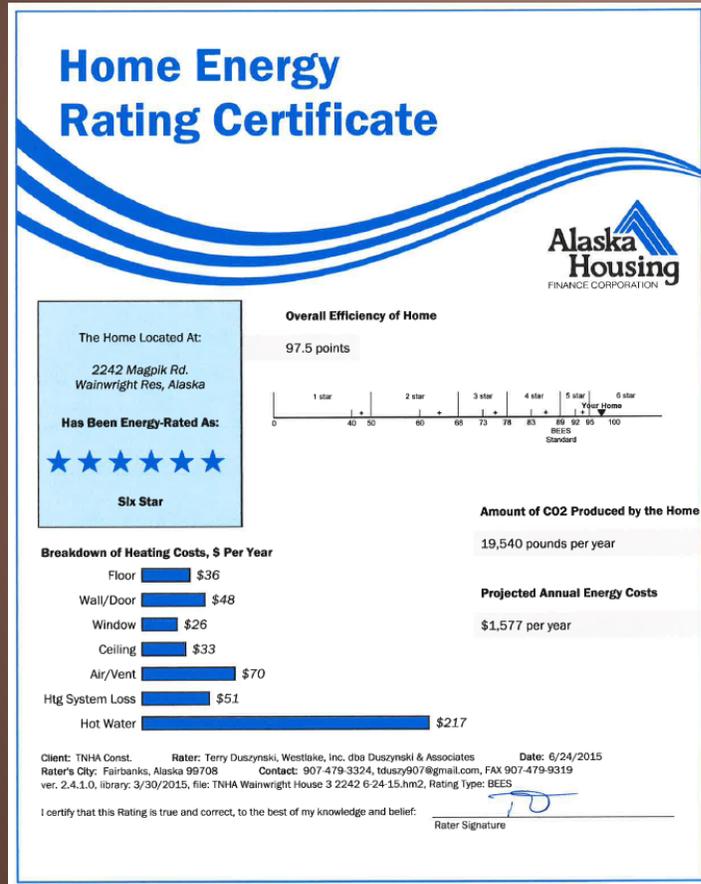


# GENERATION 5 (12) HOMES



TNHA DESIGNED  
Single Family Home

# GENERATION 5



# GENERATION 6



- Tightest home ever
- Double digits
- 13 days to dry in

## TNHA R-Valued home

# GENERATION 6

## Home Energy Rating Certificate

**Alaska Housing FINANCE CORPORATION**

The Home Located At:  
3421 A Stevenson Street  
Barrow, Alaska

Has Been Energy-Rated As:  
**★★★★★★**  
Six Star

**Overall Efficiency of Home**  
95.1 points

**Amount of CO2 Produced by the Home**  
16,981 pounds per year

**Breakdown of Heating Costs, \$ Per Year**

Floor	\$99
Wall/Door	\$125
Window	\$21
Ceiling	\$99
Air/Vent	\$98
Htg System Loss	\$44
Hot Water	\$106

**Projected Annual Energy Costs**  
\$1,439 per year

**Client:** Taglugmiullu Nunamiullu Housing Authority **Rater:** Terry Duszynski, Westlake, Inc. dba Duszynski & Associates **Date:** 12/11/15  
**Rater's City:** Fairbanks, Alaska 99708 **Contact:** 907-479-3324, tduszy907@gmail.com, FAX 907-479-9319  
ver. 2.4.1.0, library: 3/30/2015, file: TNHA 3421 A Stevenson Street 12-01-15.hm2, Rating Type: BEES

I certify that this Rating is true and correct, to the best of my knowledge and belief:  
Rater Signature:



# Questions & answers

