Our goal was to simplify the process into 4-important steps

- Obtain Written Permission
- Determine Eligibility
- Are there Energy Saving Opportunities?
- How will the Occupants Benefit?
What did we see?

Heating systems that were:
- Old
- Oversized
- Inefficient
- Leaky
- Or non-functioning

Before
After

What did we see?

Lighting systems that were:
- Old
- Incandescent
- On 24/7
What else did we see?

Windows that were:
- Old
- Leaky
- Inefficient during heating and cooling seasons

Before
After

We saw

Appliances that were:
- Old
- Inefficient
Through the wall A/C units

Refrigerators
Benefit to the Occupants

- Do occupants pay their utilities directly?
- Are their utilities included in the rent?
- Would Owners be willing to:
  - Lower Rents (for a period or time)
  - Freeze Rents (for a period of time)
  - Offer some other form of benefit to occupants

Review... big pay back

- Heating Systems and DHW
  - Down size system
  - Increase Efficiency
- Kwh reduction
  - Lighting upgrades
  - Refrigerators
  - Cooling (SEER) Improvement
- Air Leakage reduction
  - Inexpensive, but sometimes difficult
Review...marginal pay back

- Windows
- A/C units
  - Incremental cost
- Solar
  - PV and Thermal
  - Cost Sharing (owner, utility, us)

Problems...

- Scheduling
  - Weather
- Financial (pooling $$)
- Getting equipment
- Relocating occupants
- Solar
  - Expensive
  - Roof/Codes issues
Production

- 1 mil budget over 2yrs.
- 12 projects
- 412 total units
- ~ $2400/unit

ECM

- 21- boilers replaced
  - avg. 500 kbtu reduction (10.5 mbtu)
- 4100 bulbs replaced x 30 w reduction
  - = 123k watts saved
- 5 kw PV system up
- Solar thermal
  - 40 panels (4x10)
  - 2300 gal. storage
  - 80% DHW
- Solar thermal (evacuated tube)
  - 120 sq ft
  - 160 gal storage
  - 25% DHW
5 kw PV system

Evcauated Tubes
40 panel thermal