Existing Homes

Cost Ranges for Efficiency Installations

Cost Ranges– Intent

- Respond to customer demand
- Create order of magnitude awareness
- Maintain/build customer momentum

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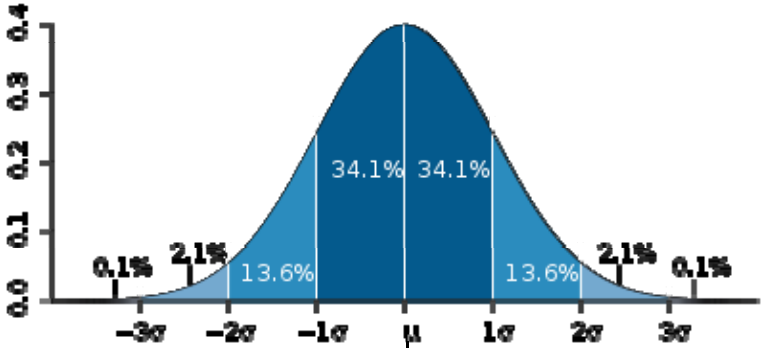
Cost Ranges– Strategy

- Statistical method
  - Distribution analysis
  - 2008-2010 data
  - 2010 dollars
  - Compared to NREL data
  - Outliers removed
- Ease of maintenance



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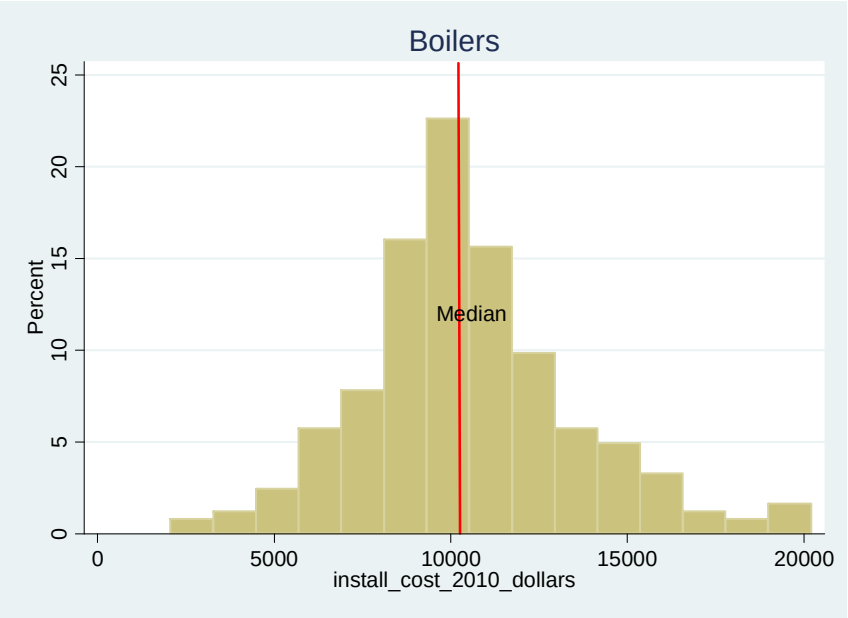
Cost Ranges– Methodology & Results

- DHW and Heating measures
  - Standard distributions
  - Range = 1 standard deviation (68% of projects)



Ex. Boilers
$7,100-13,300

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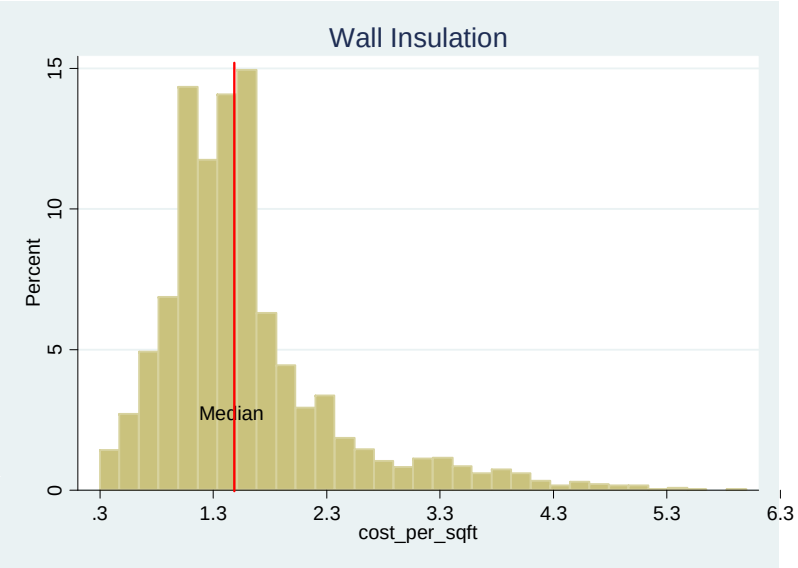
Cost Ranges– Methodology & Results

- Weatherization measures
  - Distributions less standard
  - Range = middle 80% of jobs (10/90)
  - Comparable to NREL data



Ex. Wall insulation
$.86-2.55
(*NREL: $1.10-2.40*)

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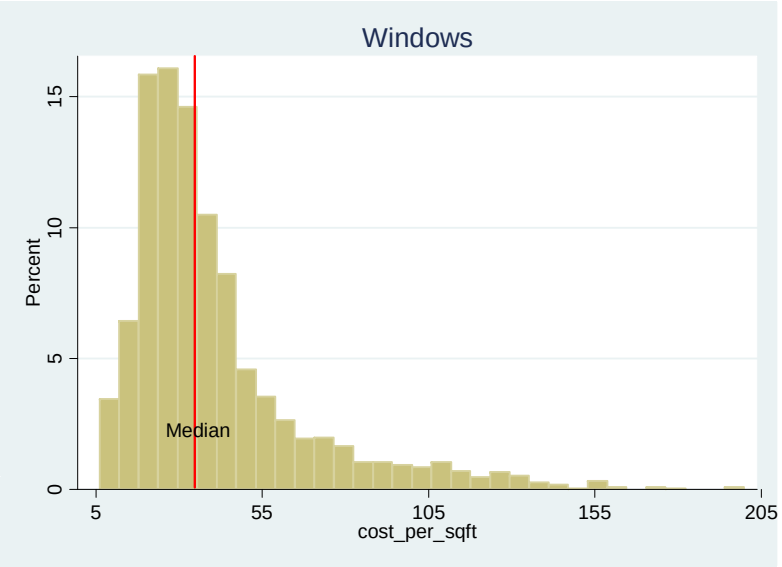
Cost Ranges– Methodology & Results

- Windows
  - Range: middle 60% of jobs (20/80)
  - Middle 80% low was too low
  - Aligns with NREL



Windows
$22-55
(*NREL: $21-58*)

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Cost Ranges– Qualifier

"Estimated Cost Range will vary per contractor, is dependent on many factors such as existing conditions and type of materials, and is not a promise of job cost."

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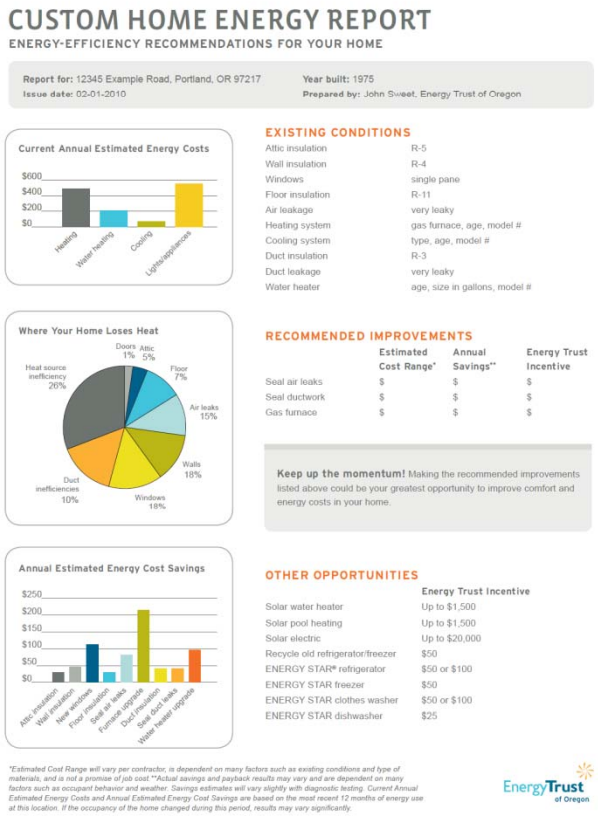
Cost Ranges–
Use & Maintenance

- EPS pilot report
- Website
- Bi-annual updates



CUSTOM HOME ENERGY REPORT

ENERGY-EFFICIENCY RECOMMENDATIONS FOR YOUR HOME

Report for: 12345 Example Road, Portland, OR 97217 **Year built:** 1975
Issue date: 02-01-2010 **Prepared by:** John Sweet, Energy Trust of Oregon

Current Annual Estimated Energy Costs

$600 $400 $200 $0

Heating, Water heating, Cooling, Lights/appliances

EXISTING CONDITIONS

Attic insulation	R-5
Wall insulation	R-4
Windows	single pane
Floor insulation	R-11
Air leakage	very leaky
Heating system	gas furnace, age, model #
Cooling system	type, age, model #
Duct insulation	R-3
Duct leakage	very leaky
Water heater	age, size in gallons, model #

Where Your Home Loses Heat

Doors 1%, Attic 5%, Floor 7%, Air leaks 15%, Walls 18%, Windows 18%, Duct inefficiencies 10%, Heat source inefficiency 26%

RECOMMENDED IMPROVEMENTS

	Estimated Cost Range*	Annual Savings**	Energy Trust Incentive
Seal air leaks	$	$	$
Seal ductwork	$	$	$
Gas furnace	$	$	$

Keep up the momentum! Making the recommended improvements listed above could be your greatest opportunity to improve comfort and energy costs in your home.

Annual Estimated Energy Cost Savings

$250 $200 $150 $100 $50 $0

Attic insulation, Wall insulation, New windows, Floor insulation, Seal air leaks, Furnace upgrade, Duct insulation, Seal duct leaks, Water heater upgrade

OTHER OPPORTUNITIES

	Energy Trust Incentive
Solar water heater	Up to $1,500
Solar pool heating	Up to $1,500
Solar electric	Up to $20,000
Recycle old refrigerator/freezer	$50
ENERGY STAR® refrigerator	$50 or $100
ENERGY STAR freezer	$50
ENERGY STAR clothes washer	$50 or $100
ENERGY STAR dishwasher	$25

*Estimated Cost Range will vary per contractor, is dependent on many factors such as existing conditions and type of materials, and is not a promise of job cost. **Actual savings and payback results may vary and are dependent on many factors such as occupant behavior and weather. Savings estimates will vary slightly with diagnostic testing. Current Annual Estimated Energy Costs and Annual Estimated Energy Cost Savings are based on the most recent 12 months of energy use at this location. If the occupancy of the home changed during this period, results may vary significantly.

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Existing Homes – Proposed Web/Material Updates

Weatherization Measures

	Cost Range	
Wx Measure	Low	High
Attic Insulation	$ .48	$ 1.49
Wall Insulation	$ 0.86	$ 2.55
Floor Insulation	$ 0.77	$ 2.06
Duct Insulation	$ 204	$ 1,180
Duct Sealing	$ 460	$ 1,275
Air Sealing	$ 455	$ 1,215
Windows	$ 22	$ 55

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Existing Homes – Proposed Web/Material Updates

DHW & Heating Measures

	Cost Range	
Heating/DHW	Low	High
Heat Pump	$ 5,100	$ 10,275
Gas Furnace	$ 3,520	$ 5,975
Gas Hearth	$ 2,390	$ 4,360
Boiler	$ 7,120	$ 13,300
Tankless Water Heater	$ 1,965	$ 3,950
Ductless Heat Pump	$ 2,825	$ 6,970

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