

# **The Life of a BPA Energy Efficiency Measure**

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# Overview

- BPA assists public utilities
  - Develops EE measures (gather data/costs)
  - Program support to assist public utilities
- Regional Technical Forum (RTF) provides
  - Unit Energy Savings (UES)
  - Cost Effectiveness review (TRC)
- Utilities run energy efficiency programs
  - Work directly with home owners and contractors
  - Report measures to BPA

# Step 1: BPA Planning and Programs

- BPA builds a strategy around the regional potential and available measures
  - Advanced research to develop new measures
  - Calculates Willingness to Pay
  - May bundle measures for ease of implementation
  - Program rules (specifications, implementation manual, audits)
- BPA support
  - Distribute budget to utilities beginning of each 2 year rate period
  - Maintain the Deemed Measure list
  - Implementation Manual
  - Specifications
  - Forms, checklists, templates
  - Marketing tools

## Step 2: Regional Technical Forum (RTF)

A regional body of technical experts who review savings and costs of energy efficiency and approve the Unit Energy Savings for measures

- Models unit savings using SEEM (software)
- Calculates average costs
- Estimates other benefits and costs
- Calculates cost/benefit ratio

# Step 3: Utilities

- Utilities create program offers
  - Choose measures and incentives/rebates
  - Work directly with contractors and homeowners
  - Site audits are not required, no SIR
- Utilities report measures to BPA and are reimbursed (via EEI budget)
  - Report into IS2.0
  - Manage 2 year EEI budgets (or supplement w/ add'l \$)

# BPA's LIEE Measures

	Single Family	Multifamily	Manufactured Home
Attic insulation	✓	✓	✓
Floor insulation	✓	✓	✓
Wall insulation	✓	✓	n/a
Windows and patio doors	✓ \$20/sf	✓ \$20/sf	✓ \$20/sf
Exterior insulated door	✓ \$400	n/a	✓ \$400
Whole house air sealing	✓	n/a	✓
Prescriptive air sealing	✓	n/a	n/a
PTCS duct sealing	✓	n/a	✓
Prescriptive duct Sealing	✓	n/a	✓
Ductless heat pump	✓ \$3,800	n/a	✓ \$3,800

# Low Income Measures

- Dollar-for-dollar reimbursement
  - Measures with caps
    - DHP - \$3,800/unit
    - Windows - \$20/sf (0.22 windows and 0.30 patio doors not allowed)
    - Exterior door - \$400
- Other costs allowed (but determined by utility)
  - Costs incurred to meet requirements
    - (e.g. income verification, removal of knob & tube, underfloor moisture barrier)
  - Repairs required for health and safety
  - Repairs to protect the integrity of the measure
    - (e.g. replace rotten window frame, repair leak in roof)

# Program Rules

- Income verification
- Repair costs invoiced separately
- Funds can be comingled for a project, but not a measure
- No audit/energy modeling necessary
- Does not need to be a full scope project

# Resources

- BPA Requirements and Specifications
  - BPA Implementation Manual
  - 2014 Residential Wx specifications
- BPA Deemed Measure list
- Other tools and resources
  - Wx online trainings ([www.WxTrainingNW.com](http://www.WxTrainingNW.com))
  - Tools and checklists
  - Image gallery
  - Marketing materials

# Documentation Requirements

- Income verification
- Contractor(s) invoice
  - Show compliance with requirements
    - (e.g. Housing type, age of home\*, electrically heated)
  - Equipment information
  - What was replaced (pre-condition)
  - What was installed (post condition)
    - (e.g. R-value of insulation, U-value of windows (NFRC stickers); and square footage)

# Utility Budget Cycles

BPA distributes the Energy Efficiency Incentive (EEI) budgets at beg of each 2 year rate period

- Current Rate period is Oct 2013 – Sept 2015
- Allocated by Tier One Cost Allocator (TOCA)
- Utilities manage this budget, adds to it, etc.
- Provide examples (Van, Margaret, Todd)

# Summary

- Income verification
- Repair costs invoiced separately
- Funds can be comingled for a project, but not a measure
- Different rules than DOE-funded projects
  - No audit/energy modeling necessary, no SIR

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