# Measure Selection Guidelines

# Weatherization Energy Auditor Single Family

Learning Objectives

By attending this session, participants will be able to:

* Describe selection criteria for weatherization measures.
* Identify Appendix A of the DOE WAP Rule 10 CFR, Part 440.
* Explain the concepts of present value and fuel escalation rate as they relate to SIR.
* Practice SIR calculations.

Key Terminology

Appendix A

Decommissioning

Discount rate

Fuel escalation rate

Mobile Home Energy Audit (MHEA)

National Energy Audit Tool (NEAT)

Present value (PV)

Savings-to-investment ratio (SIR)

Standards for conformance

Supplemental Materials

Handouts & Resources

Code of Federal Regulations, Title 10 – Energy, Part 440 – Weatherization Assistance for Low-Income Persons (10 CFR 440), Appendix A. <http://www.waptac.org/Rules-and-Regulations/Federal-Regulations.aspx>.

Auditing: The Selection of Measures." WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

Measure Selection Guidelines Quiz.

Measure Selection Guidelines Quiz Answer Key.

Savings to Investment Ratio Worksheet

SIR Calculator with PV Function.

Class Overview

* Before beginning the section, ask students what they think are the measure selection guidelines for WAP. Keep a running list.
* Compare simple payback and simple SIR: Conduct simple payback calculations on the board for the class to follow along. Assume replacing a refrigerator costs $300 and saves $25 per year in electricity. The refrigerator has a simple payback of 12 years. Plugging those same numbers ($300 cost, $25 annual savings, and 12 year life) into a simple SIR calculation returns a value of 1.
* After discussing slide 9, bring up the SIR calculator spreadsheet on the overhead. Take suggestions from the class and plug in numbers to check the SIR of a few different scenarios. Have students predict how changes in measure price, fuel escalation rate, etc. will change the outcomes.
* When you reach slide 10 of the presentation, lead a discussion about experiences from the field. Have students had clients refuse measures? What were their responses? When do they think it makes sense to continue with weatherization, and when does it make sense to defer services if measures are refused?
* At the end of the session, hand out the quiz for this chapter. Give students 5–10 minutes to complete, and then go over the answers as a class.