



# **FEMP Assessment of Energy and Load Reduction Techniques (ALERT) FY 2004**

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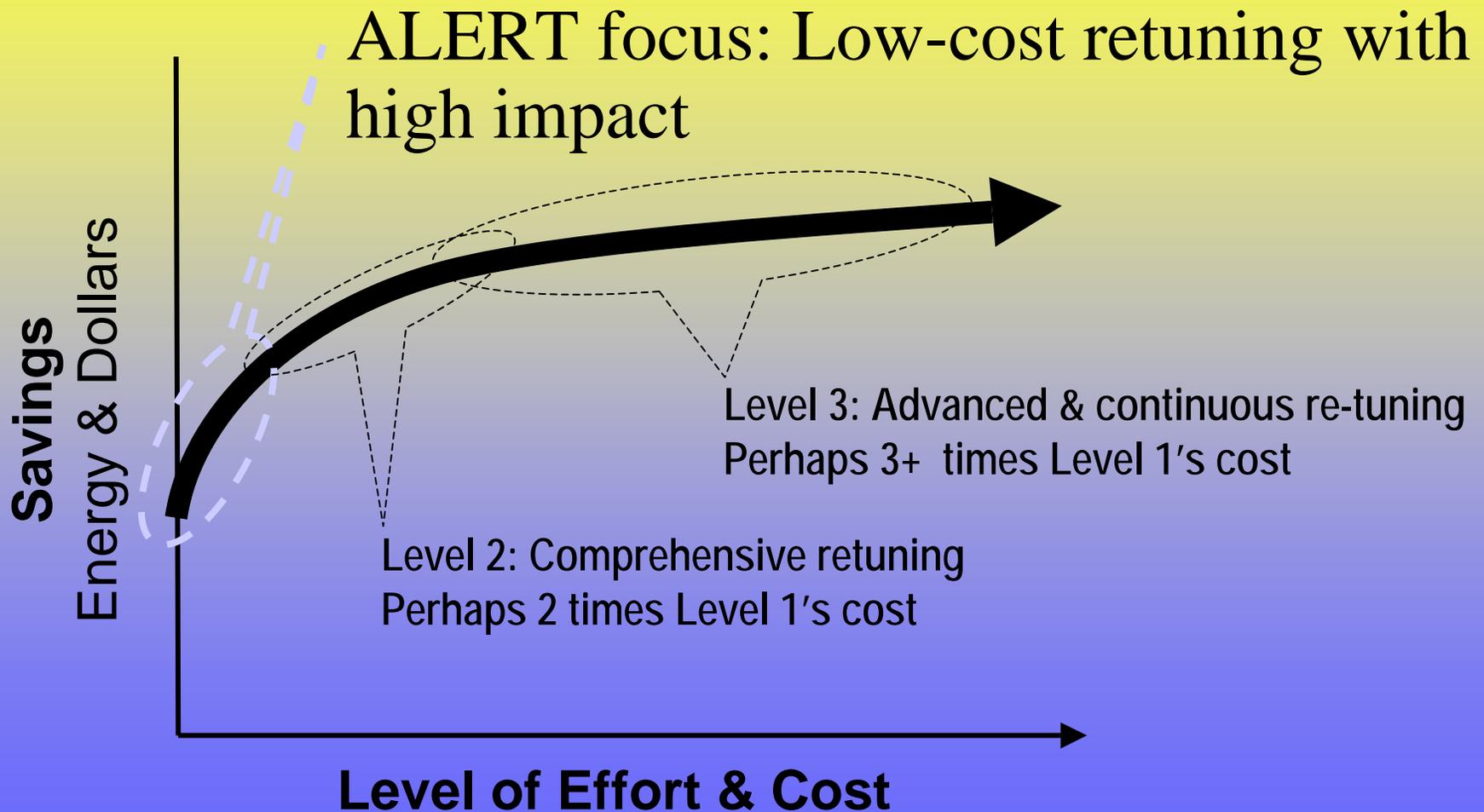
# What is an ALERT?



- ALERT: Assessment of Load and Energy Reduction Techniques to identify low-cost O&M improvements that will:
  - Reduce energy use and cost
  - Lead to more comprehensive projects
  - FY04 – Focus on reduced consumption of natural gas (NG)



# Cost/Benefit Concept Chart





# What are Benefits of ALERTs?

- Demonstrate leadership**
- Free up resources for injection**
- Increase the availability of gas supplies**  
for residential and commercial heating  
loads.
- Reduce Federal energy cost and energy  
use.**



# FY04 ALERT Focus



**Reduce natural gas consumption in two areas:**

- Reducing electricity use and summer peak demand in regions that rely heavily on natural gas for electricity generation leads to reduced natural gas consumption for generation.**
- Reduce natural gas consumption at Federal facilities for space and water heating, natural gas powered cooling and for process loads.**



# Natural Gas - Federal Consumption and Costs

FY	Billions of BTU	Cost Per MMBTU	Cost x 10 <sup>6</sup>
2001	110	\$7.26	\$796
2000	110	\$4.53	\$498
1999	119	\$3.88	\$463
1998	120	\$4.06	\$489

❖ If the cost of natural gas goes up by \$1, the annual cost to agencies increases roughly \$110 million.



# Criteria for Site Participation

- Active project champion and management support
- Site has resources to participate in the assessment and implement the recommendations
- Large cooling load and reliance on NG for generation
- Large consumer of NG at site
- Agency pays utility bills
- Ability to cost share