




## 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)

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## Cost/Benefit Concept Chart

ALERT focus: Low-cost retuning with high impact

Level 3: Advanced & continuous re-tuning  
Perhaps 3+ times Level 1's cost

Level 2: Comprehensive retuning  
Perhaps 2 times Level 1's cost

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## 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.

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## 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.

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## 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.

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## 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

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