

A background image of a waterfall with a decorative teal and yellow wavy line overlaying the bottom half of the page.

# Wood River Electrical Plan

Energy Efficiency Options  
Theresa Drake

# Demand Side Management

Demand-side management (DSM) programs consist of the planning, implementing, and monitoring activities of electric utilities which are *designed to encourage consumers to modify their level and pattern of electricity usage.*

- Demand Response
- Energy Efficiency or Conservation
- Rate Mechanisms

# Demand Response

- Peak clipping or reduction of system peak
- Load shifting, or shifting load from on-peak to off-peak
- Examples: Air conditioner cycling, irrigation cycling, light shedding

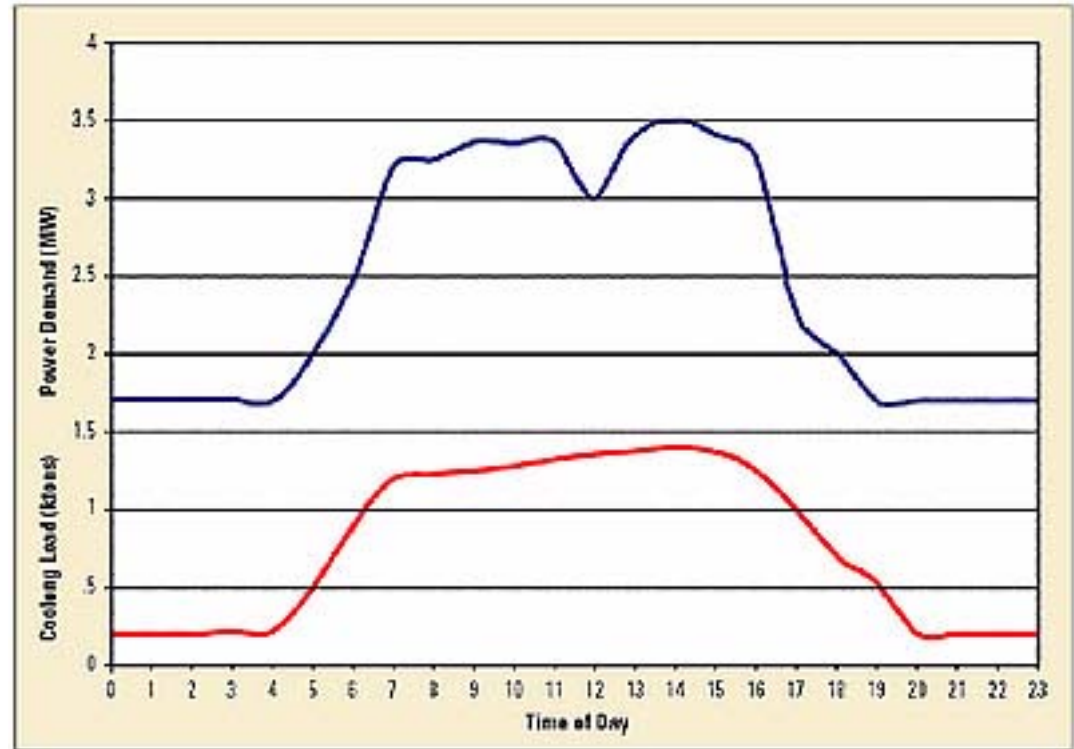
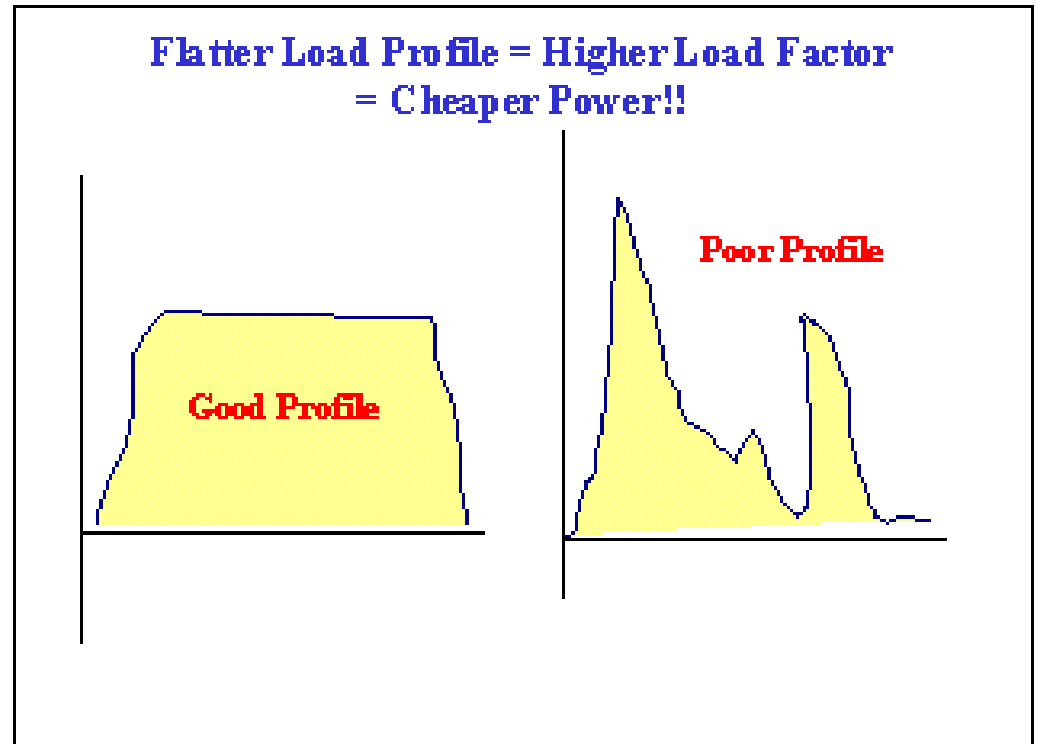


Figure 2. Daily cooling load and electrical power demand profiles.

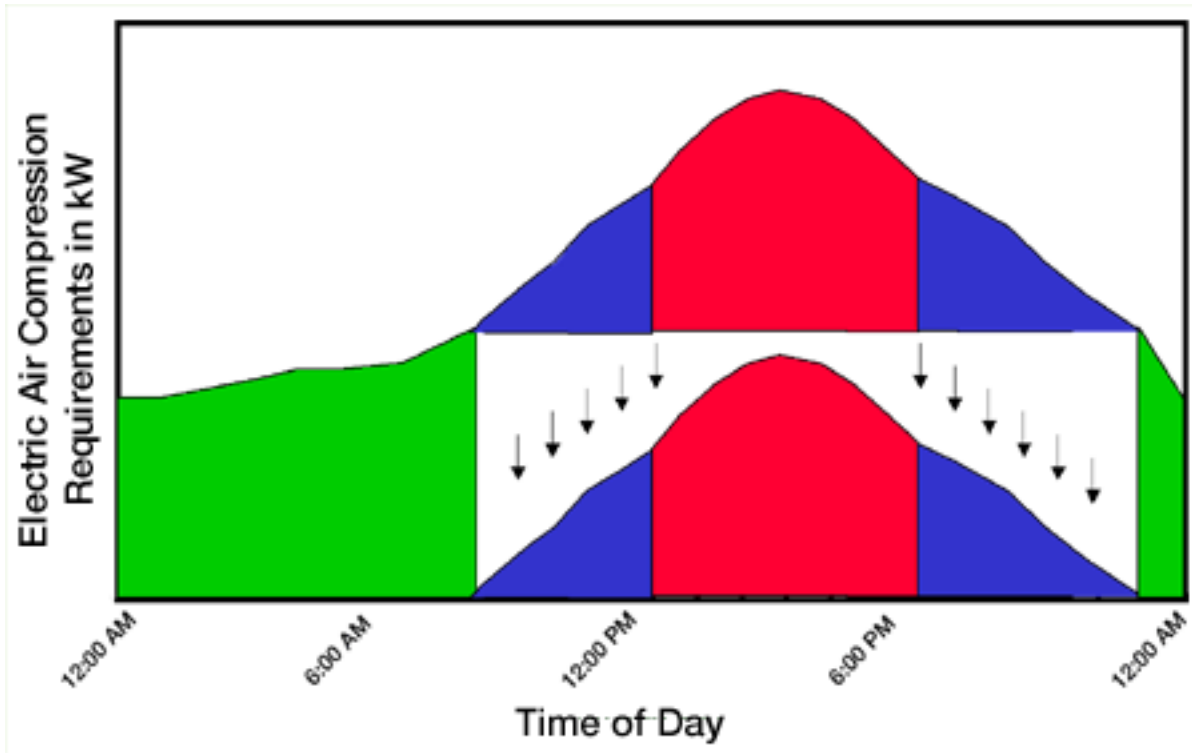
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# Energy Efficiency

- Improves overall efficiency of system
- May or may not reduce peak demand, depending on measure
- Must consider naturally occurring conservation
- Typically there are direct benefits to customers
- Ex: weatherization, industrial efficiency

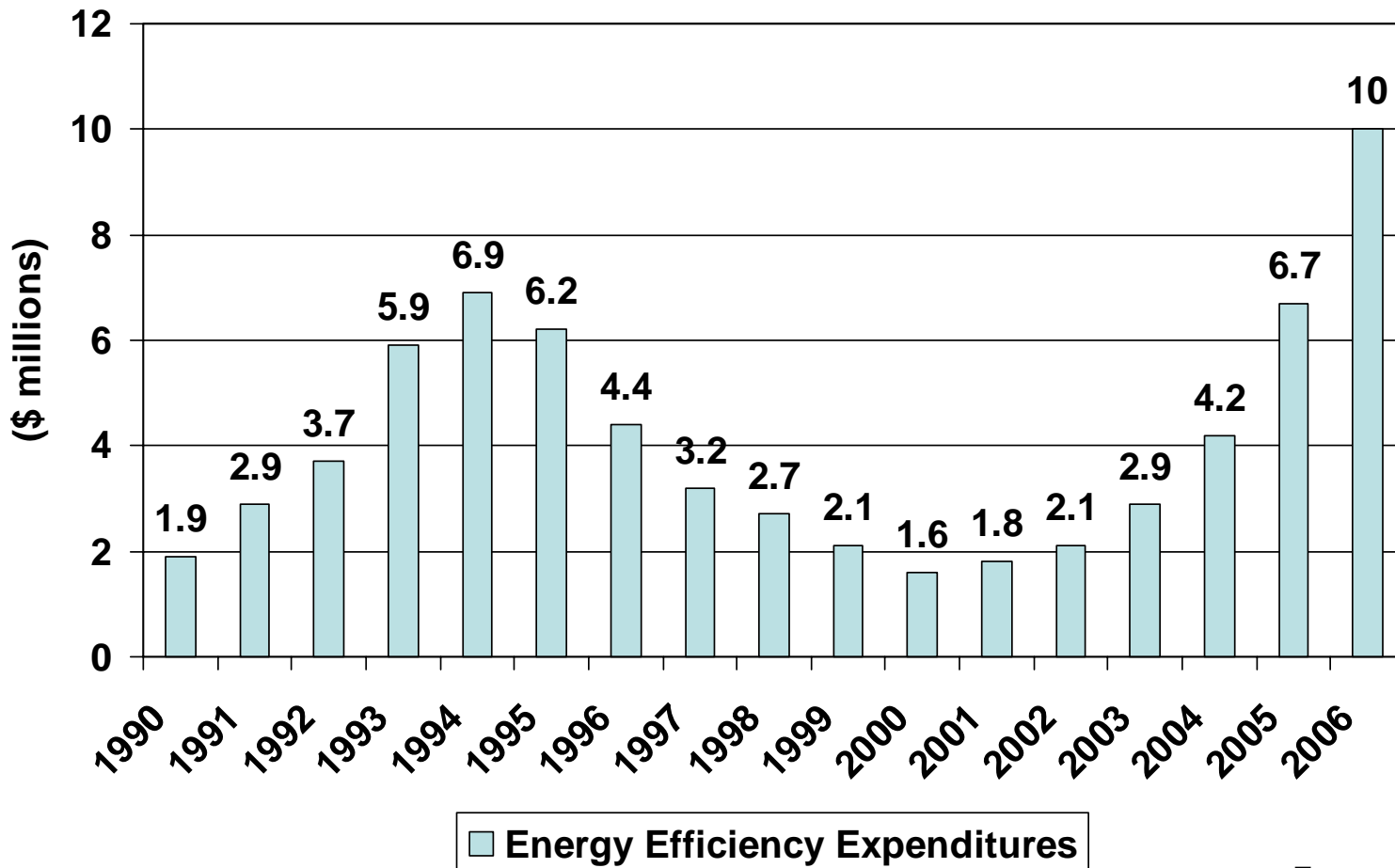


# Rate Mechanisms

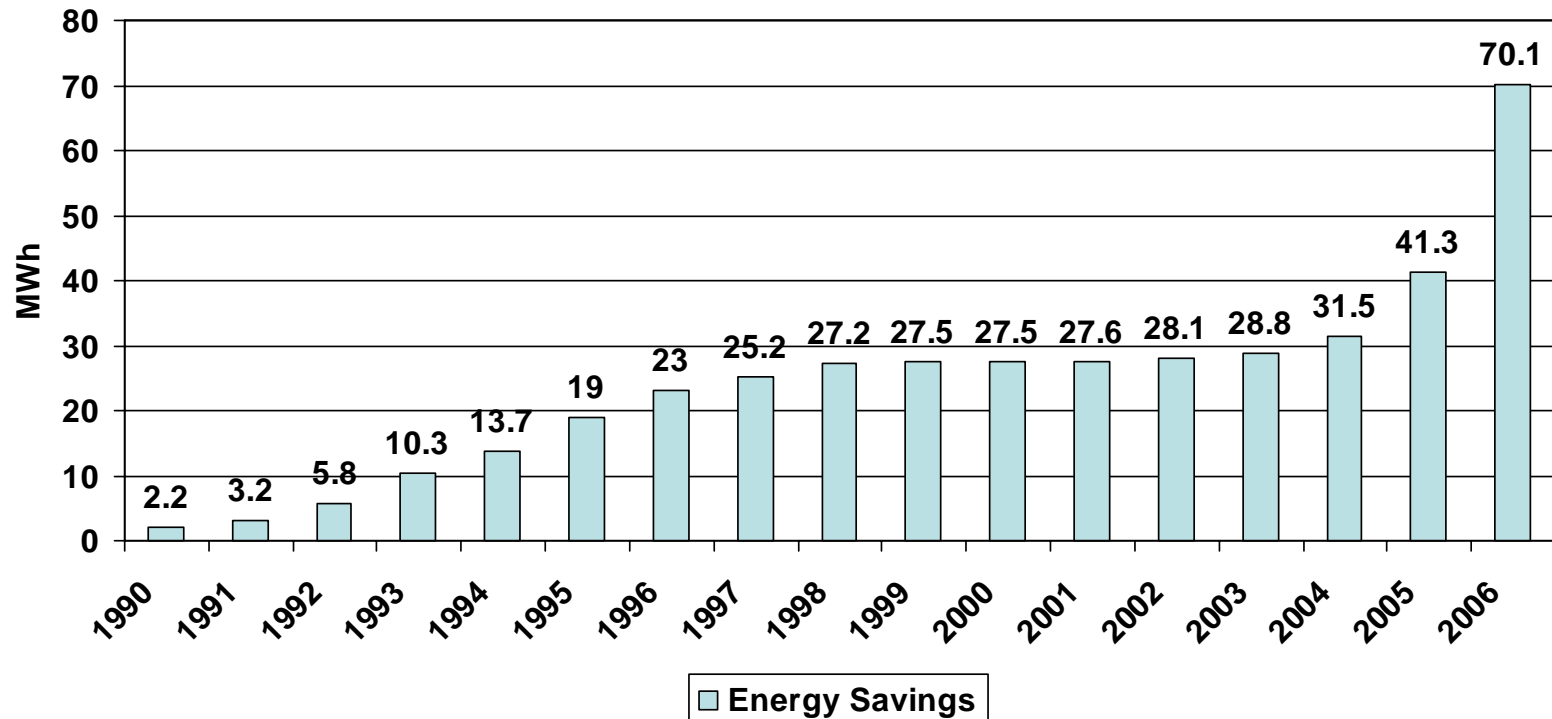


- Seasonal Rates
- Time of Day
- Critical Peak Pricing

# Brief History of Energy Efficiency at Idaho Power



# Brief History of Energy Efficiency at Idaho Power



# Integrated Resource Plan

- Also known as the Energy Plan, updated every two years
- Currently working on programs called for in 2004 and 2006
- The 2004 Energy Plan
  - 54 MW of peak reduction and
  - 41 average MW of energy savings by 2014.
- 2006 Energy Plan
  - an additional 187 MW of peak reduction
  - 90 average MW of energy savings is projected by 2024.

# Current Programs

- Residential
  - A/C Cool Credit
  - Weatherization Assistance
  - Rebate Advantage
  - ENERGY STAR® Homes
  - ENERGY STAR® Lighting
  - Energy House Calls
- Commercial/Industrial/Irrigation
  - Irrigation Peak Rewards
  - Irrigation Efficiency
  - Building Efficiency
  - Easy Upgrades
  - Custom Efficiency

[www.idahopower.com/energycenter](http://www.idahopower.com/energycenter)

# 2006 Savings

	kWh Savings	% of total Customers	% of total Savings
Residential	10,700,000	83.7%	22%
Commercial	1,422,000	13%	2%
Irrigation	16,986,000	3%	36%
Industrial	19,211,000	.03%	40%

# ENERGY STAR® Homes

## Testimonials

*“I never would have guessed that it would make such a huge difference in my energy bill.”* —Chris Haun

*“I’m amazed how loud the airplanes are because you just don’t hear them inside the house.”* —Pamela Kennedy

*“I don’t think that I’d ever build another house that wasn’t an ENERGY STAR® house.”* —Terry Durnil

# Energy House Calls Customer Letter

Dear Idaho Power Co,

...I am sorry it has taken me so long to show my appreciation for the Energy House Calls done several months ago for me. It was surprising to me the efficiency of the men who came. They found things I could not even imagine in my home, which would help conserve power and allow me to live in my own home.

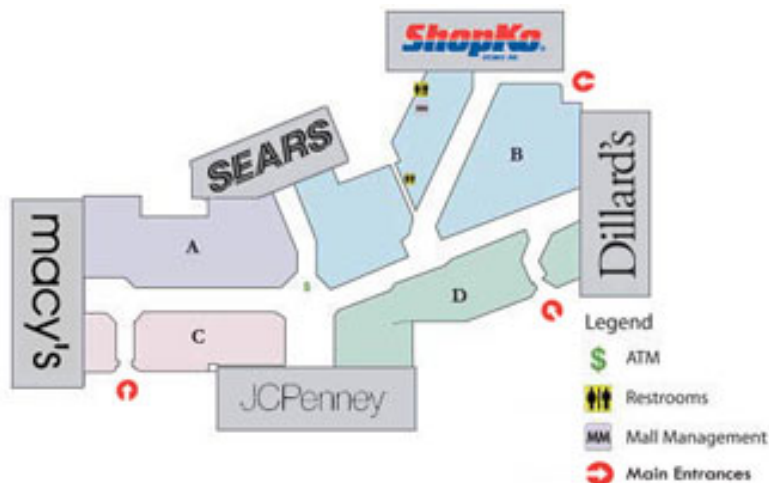
Each of them were so professional and helpful and checked each project. I'm sure I'll be able to save power. With the real, real cold weather we are having I'm just more than grateful for all their work. I am 87-yr-old lady and I really appreciate Idaho Power for this program. Sincerely yours...

# Building Efficiency Program Satisfaction

## One Example of a Satisfied Customer:

*“It’s a great incentive program!! We definitely wouldn’t have done as much replacement/upgrading were it not for the program! You can count on me telling everyone about this program that I feel could benefit from it.”*

**Tommy Kofoed  
Pine Ridge Mall  
Pocatello**



# The future of Demand Side Management at Idaho Power

- Energy Efficiency and Demand Response are one of the “Four Cornerstones” of Idaho Power resources
- Funding is provided through the Customer Conservation Charge of 1.5% to 2.4% of revenues
- Fixed Cost adjustment alleviates the disincentive for energy conservation that previously existed
- DSM cannot be accomplished by Idaho Power alone—the customer must participate for all of us to be successful

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