



# *Energy Efficiency at Idaho Power*

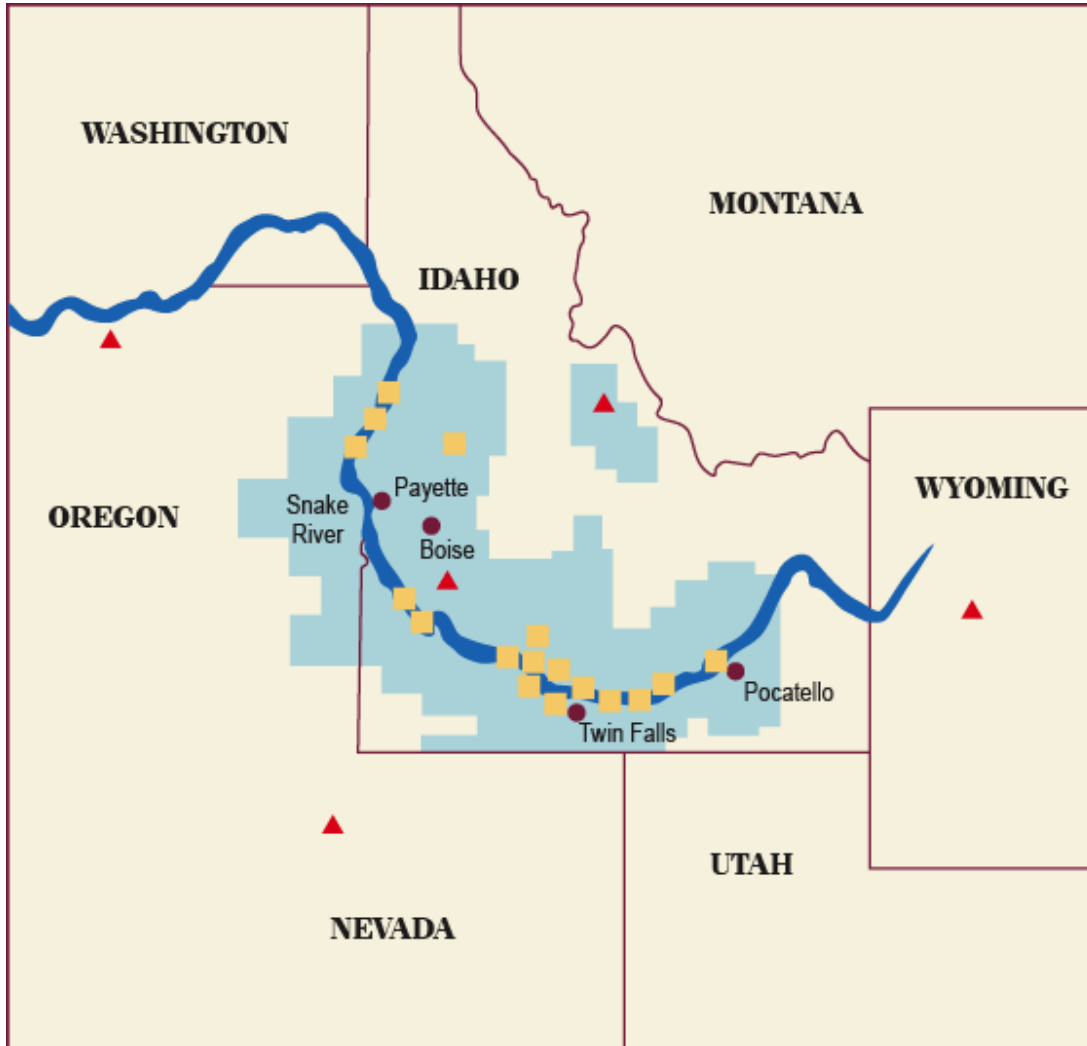
**Warren Kline**

**Theresa Drake**

**October 28, 2008**



# Idaho Power Company Service Territory



## Hydroelectric Facilities and Nameplate Capacities

■ 17 Facilities with 1709 Mw Capacity

## Thermal Facilities and Nameplate Capacities

▲ 7 Facilities with 1386 Mw Capacity

## Company Information

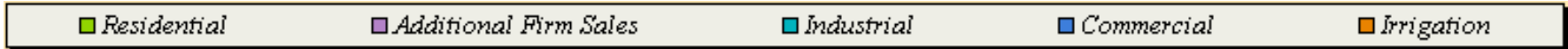
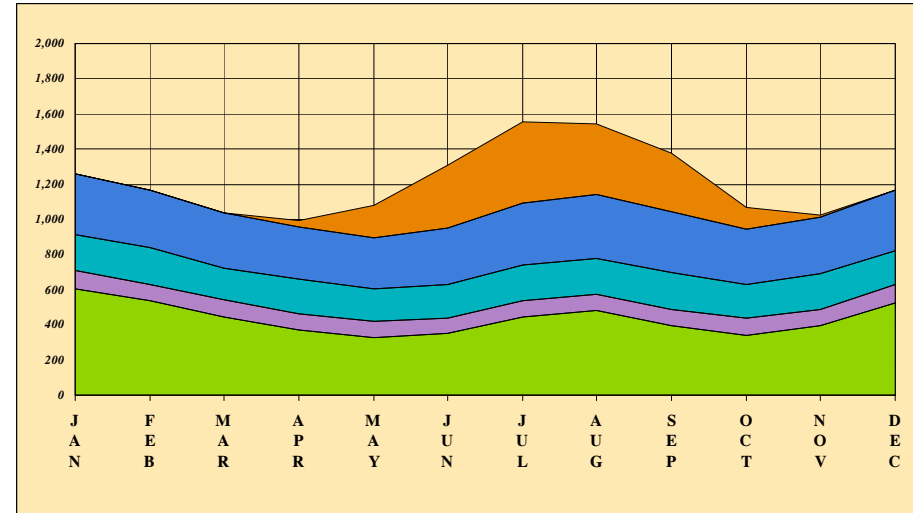
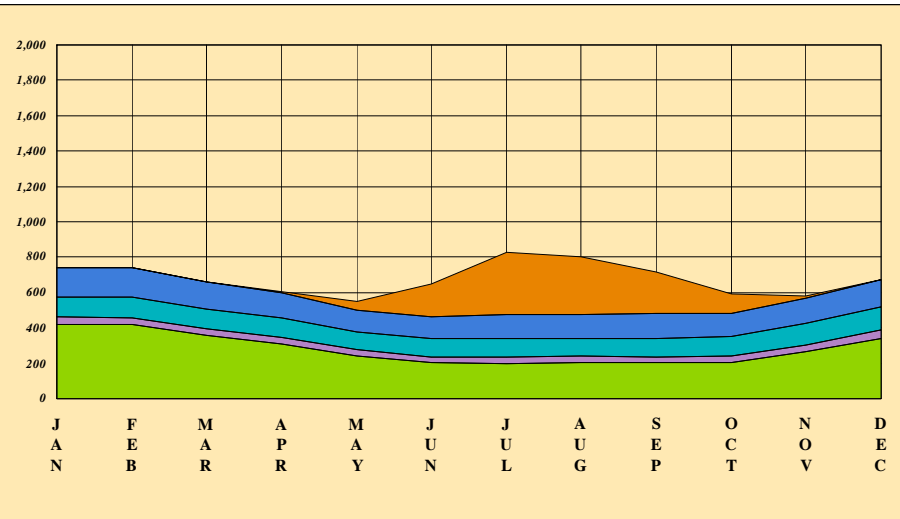
- 24,000 Square Mile Service Territory
- 485,757 General Business Customers  
– 64% in The Boise area
- 4,747 Miles of Transmission Lines
- 26,394 Miles of Distribution Lines
- 2,084 Employees

# Peak Forecast

Historical Monthly Seasonality  
1984 vs 2007 (MWh 000's)

1984

2007



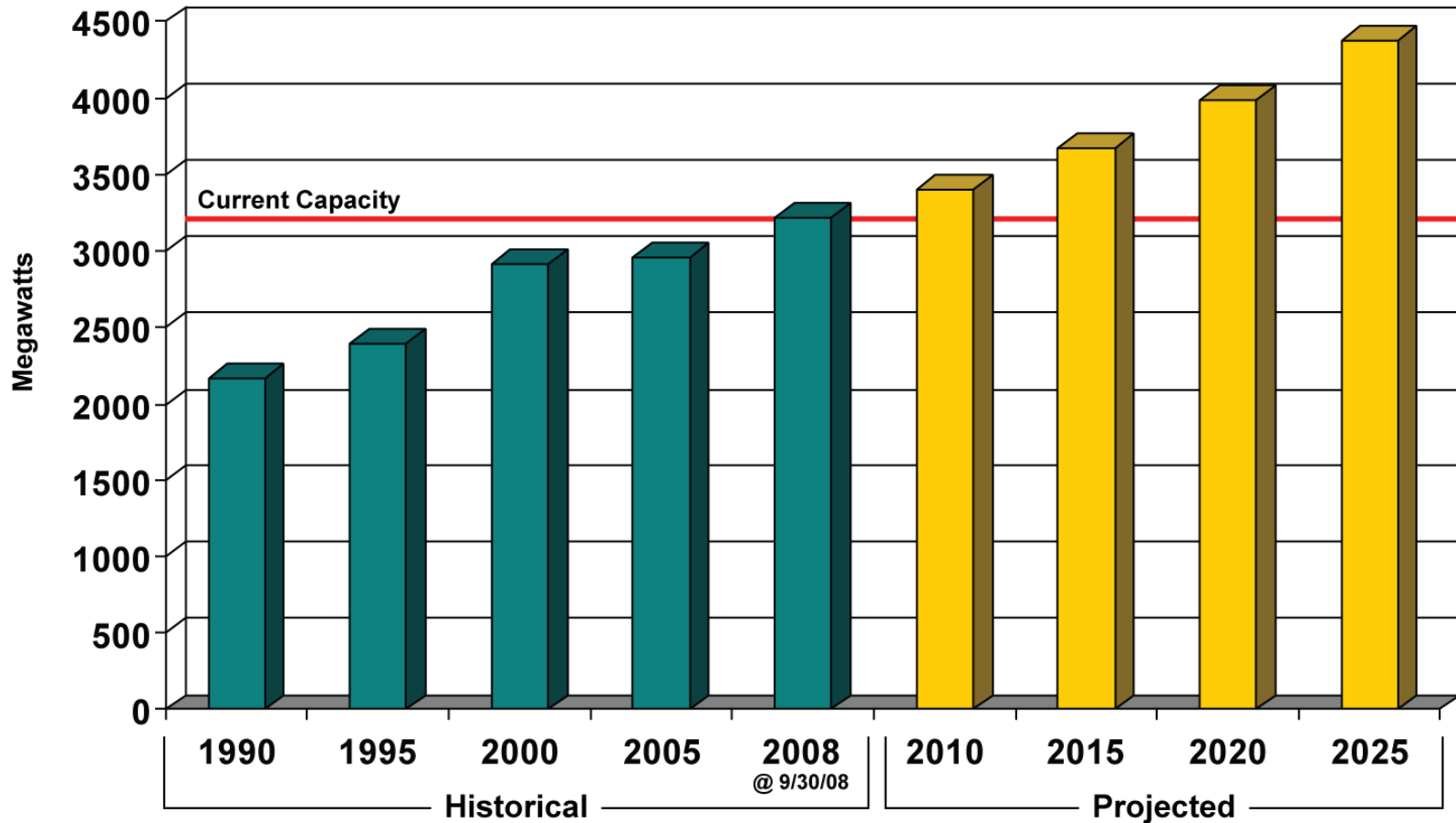
# Peak Loads

- All Time Summer Peak
  - June 30, 2008 = 3,214 MW
- All Time Winter Peak
  - January 24, 2008 = 2,464 MW

# Customers

- 485,757 **Customers**
  - 83% are **residential** using 36% annual MWH
  - 13% are **commercial** using 27% annual MWH
  - 4% are **irrigation** using 13% annual MWH
  - <1% are **industrial** using 24% annual MWH

# Idaho Power Service Area Demand Going Up



# Resource Cornerstones

- Preserve the base
- Energy efficiency
- Wind and other alternative resources
- Conventional resources

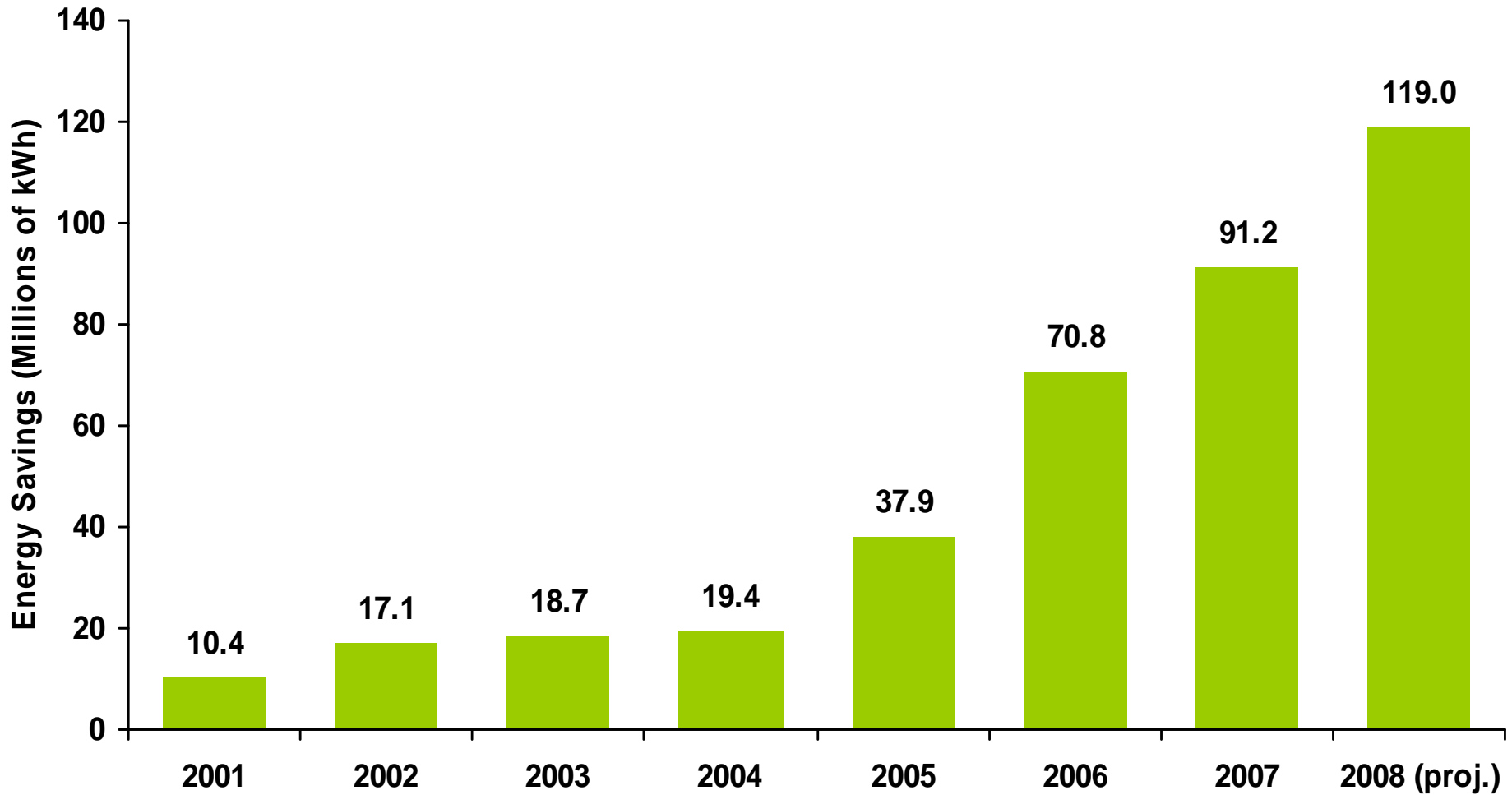


# Energy Efficiency Objectives

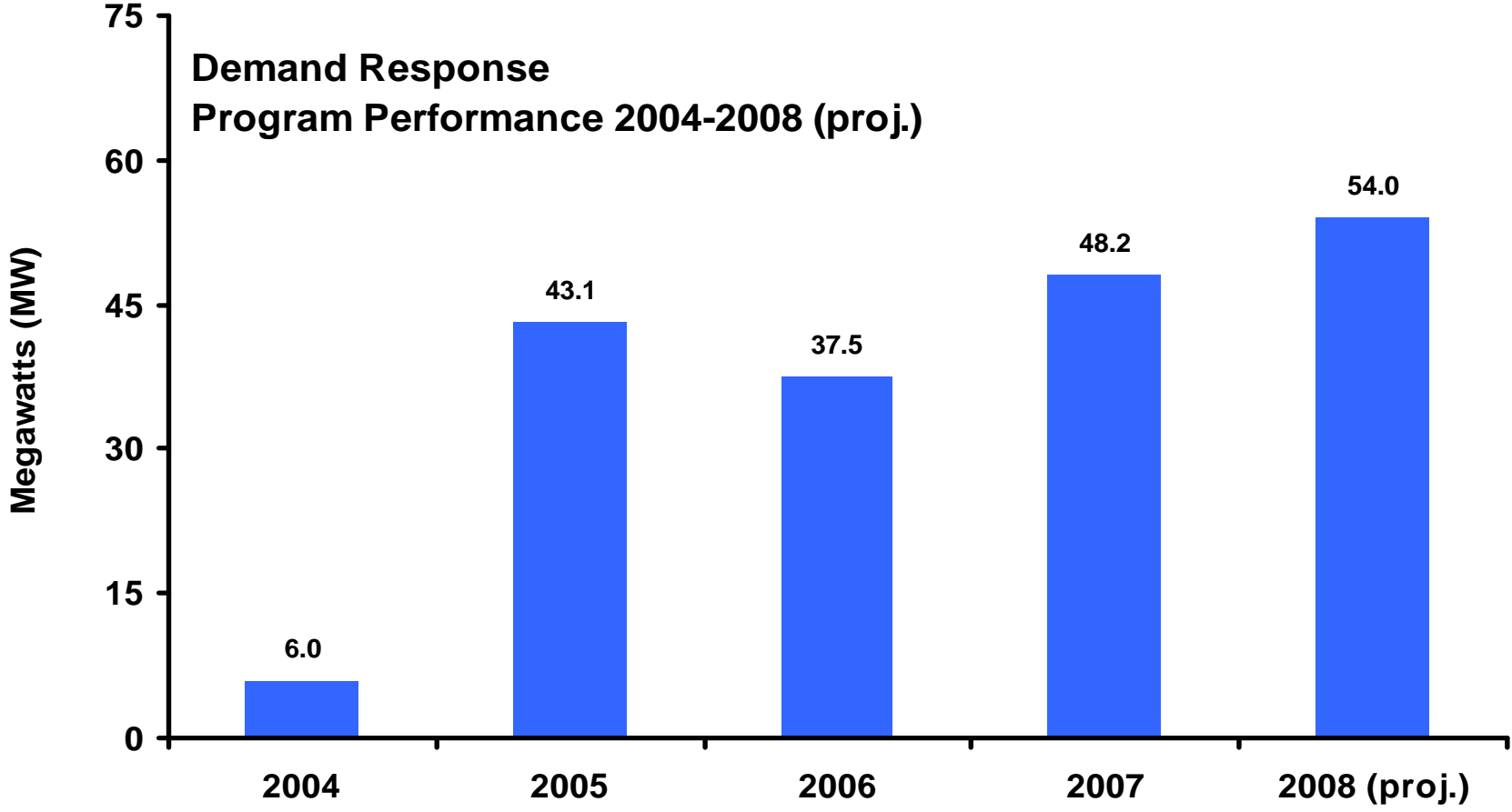
- Secure all cost-effective energy efficiency
- Provide customers with programs and information to help them manage energy and demand usage



# Annual Energy Savings



# Annual Demand Response Reduction



# Program Highlights 2006 – 2007

- Residential
  - 10% increase in energy savings
  - 74% peak demand savings
- Irrigation
  - 18% increase in peak reduction
- Commercial and Industrial
  - 88% increase in energy savings

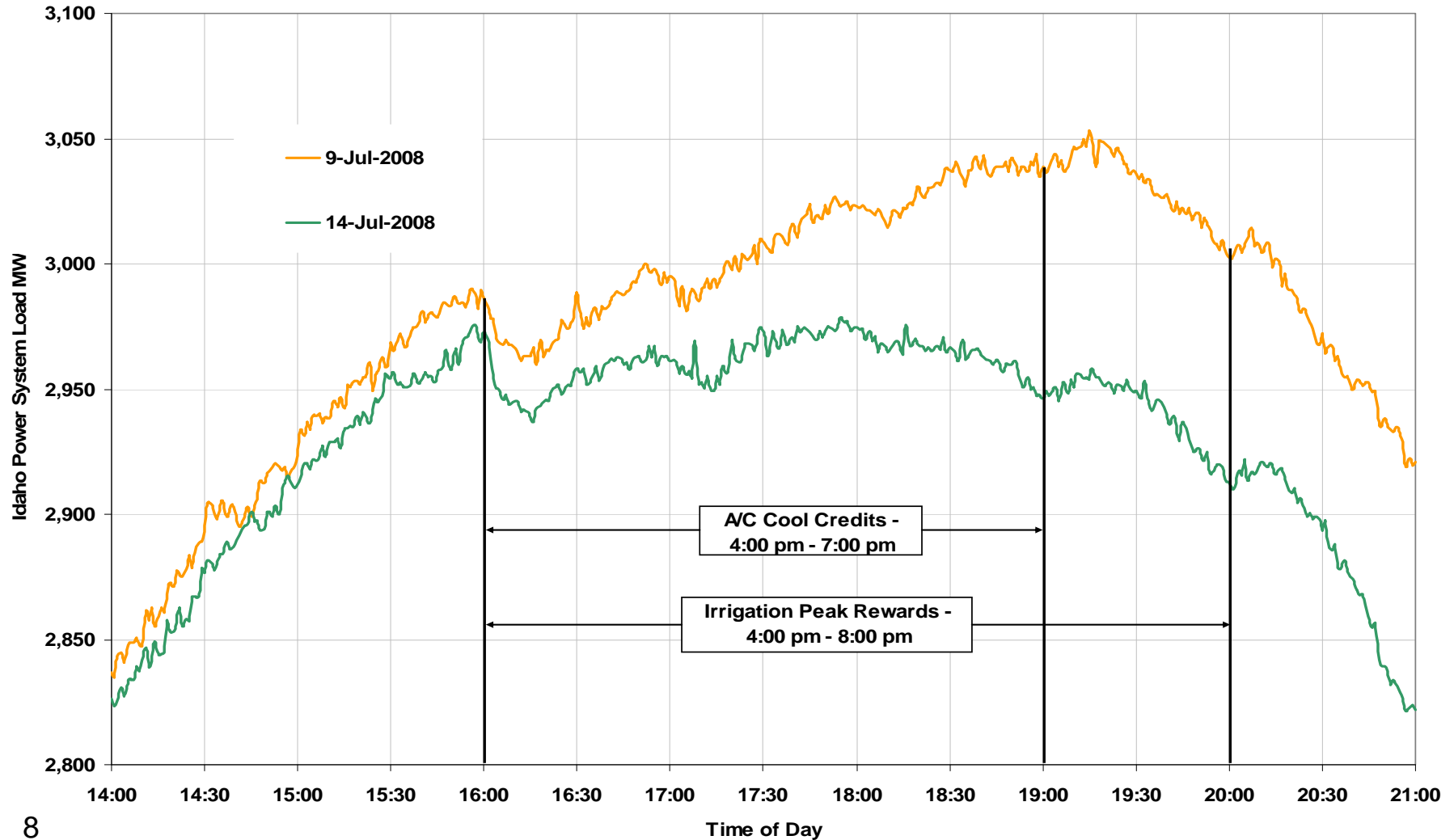
# Programs Offered

<b>Irrigation Programs</b>
Irrigation Peak Rewards (Demand Response)
Irrigation Efficiency Rewards
<b>Commercial/Industrial Programs</b>
Custom Efficiency
Easy Upgrades
Building Efficiency
Commercial Education Initiative

# Programs Offered

<b>Residential Programs</b>
A/C Cool Credit (Demand Response)
Energy House Calls
ENERGY STAR® Homes Northwest
Rebate Advantage
ENERGY STAR® Home Products
Heating & Cooling Efficiency
Weatherization Assistance for Qualified Customers
Oregon Weatherization
Residential Education Initiative

# Demand Response Case Study - 2008



# Program Overview

## - Custom Efficiency

- Provides up to 70% of project cost
- Reduce payback period for projects



# Program Overview

## - A/C Cool Credit

- Pay a monthly incentive to cycle customer's A/C unit during summer months



# Customer Education Efforts

- Customer understanding
- Sustainable effort
- Engagement in programs

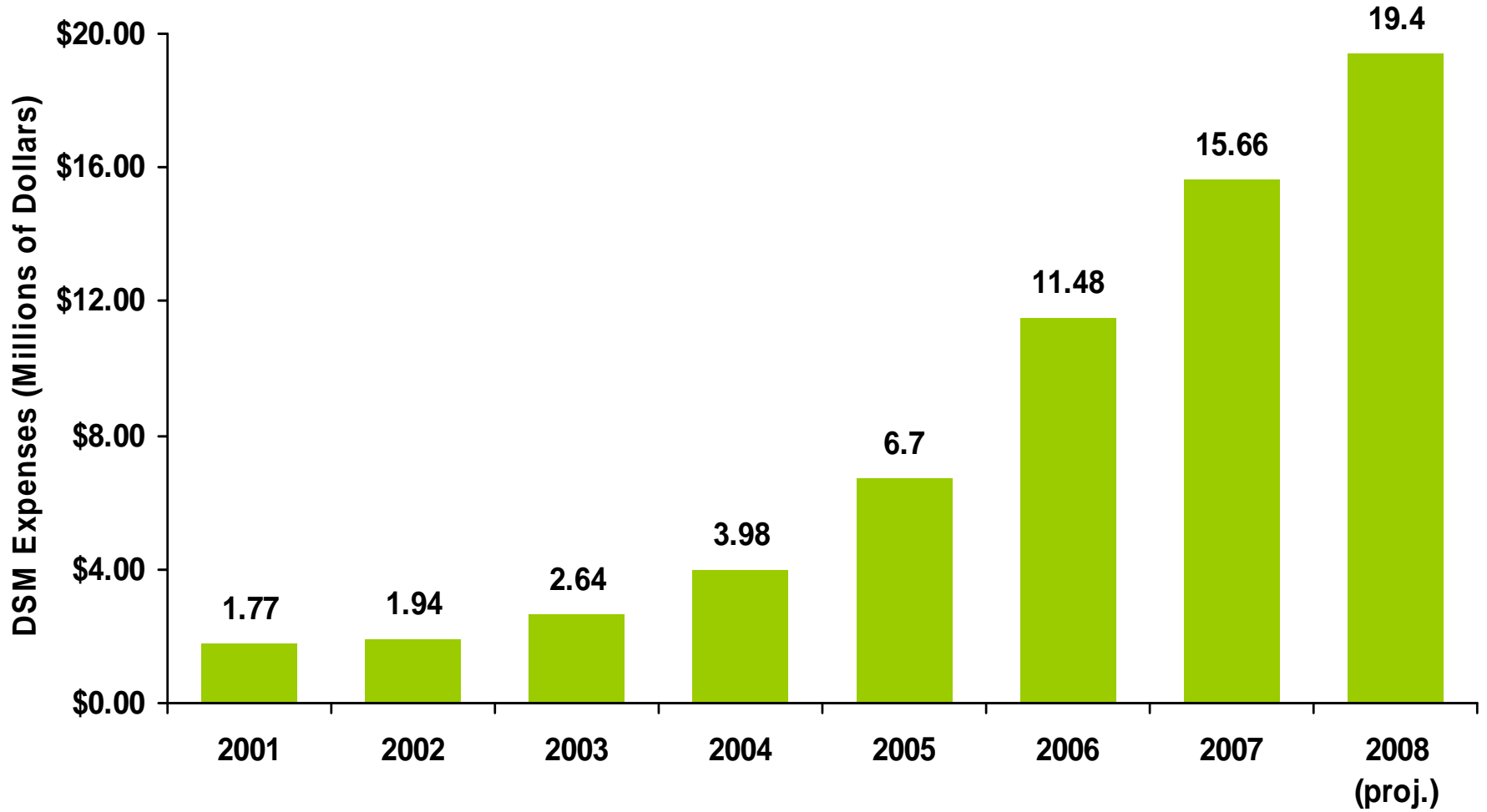
# Program Development

- Market Potential Study
- Integrated Resource Plan
- IRP Plan Targets Defined – Additional Research
- Energy Efficiency Advisory Group
- Program Evaluation

# Energy Efficiency Advisory Group

- Idaho Power – Celeste Becia (Energy Efficiency)
- Idaho Power – Tim Tatum (Pricing and Regulatory)
- Idaho Public Utilities Commission – Lynn Anderson
- Oregon Public Utility Commission – Lynn Kittilson
- Northwest Energy Coalition – Nancy Hirsh
- Northwest Power and Conservation Council – Tom Eckman
- Idaho Office of Energy Resources – Ken Eklund
- AARP – Lynn Young
- South Central Community Action Partnership – Ken Robinette
- J.R. Simplot Company – Don Sturtevant
- Idaho Irrigation Pumpers Assoc. – Dean Stevenson
- City of Boise, Public Works Dept. – Catherine Chertudi
- Healthwise – Robin Thorngren

# Annual Program Expenses



# Future Plans

- Continue prudent use of energy efficiency funds
- Appreciate impact of rate pressure and economic climate
- Focus on direct Idaho Power results
  
- Market potential study
- Active in 2009 IRP process
- Additional programs
- Expand customer education efforts

# Energy Efficiency Team

- Two leaders with background in Regulatory, Energy Efficiency, Customer Analysis and Marketing
- Diverse staff of 13 Program Specialists and 6 Analysts
  - Mechanical Engineers
  - LEED credentials
  - Certified Energy Managers
  - Certified Public Accountant
  - Economic Analysts
  - Marketing and Advertising

# Energy Efficiency Team

- Potential Additional Positions
  - Commercial Program Leader
  - Commercial Program Manager
  - Industrial Program Manager (Engineer)
  - Residential Technician
  - Renewable Energy Specialist
  - Research Assistant

# Recognition From Customers . . .

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

—C. Haun

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

—T. Durnil

*“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

# Recognition From Our Trade Allies . . .

*“This program also gives credibility to the contractor when we promote high efficiency equipment . . . Idaho Power training . . . and providing the necessary tools . . . has brought our company up to a much higher value to the customer. I believe any quality contractor has nothing to lose by participation in this program.”*

—Stanley Johnson, President of Heating Equipment Co.

# Recognition From Our Regulator . . .

*"I'm seeing responsibility on the part of utilities to implement programs, and enthusiasm on the part of customers for actively engaging in efficiency measures," she said. Smith called out Idaho Power's 1.5 percent DSM rate surcharge and irrigation energy-saving ventures that help reduce peak loads as "very successful" efforts."*

— Marsha Smith, Commissioner, IPUC  
*CLEARING UP, February 25, 2008*



**Thank you**