

# Ada County's Courthouse & Administration Bldg ENERGY STAR Recipient 2004



**Presented by:**

**Judy Peavey-Derr, Commissioner**

**Dave Logan, Director of Operations**





# Building Profile

- Completed construction in 2002
- 5 floors w/ 356,300 sq ft of floor space
- Courtrooms, PA and PD Offices
- Day-use detention facility in the basement
- Clerk/Auditor/Recorder, Vehicle Licensing, Assessors, Development Services, and Indigent Services
- Admin offices: HR, IT, RM, Operations, Purchasing, Treasurer, Commissioners



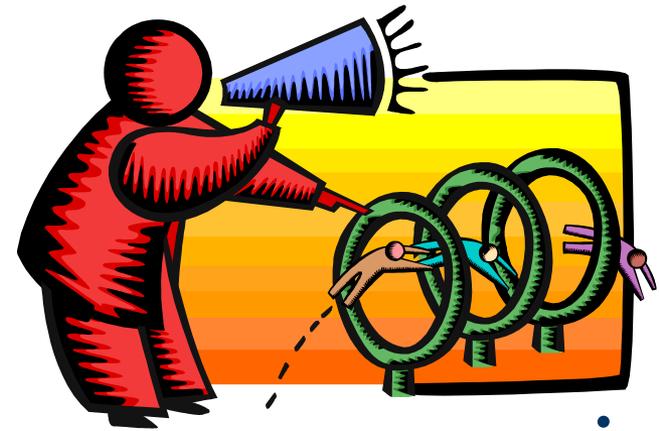
# Energy Efficient Features

- Geothermal Heating System
- Multi-staged Chillers
- Variable Drive Pumps and Motors
- Fresh Air Economizers
- Direct Digital Controls
- Low-E Glass and Window Tinting
- T-8 Light Fixtures w/ Electronic Ballasts



# Energy Performance Factors

- Geothermal - kGals
- Electricity - kWh
- Natural Gas - Therms
- Bldg Occupants - 850
- Number of PCs - 500
- Operating Hours - 65/week
- Square Footage - 356,300



Score  
= 76



# 2004 Label

**Ada County Commissioners:**  
Fred Tilman, Rick Yzaguirre,  
and Judy Peavey-Derr



Jim Werntz, EPA  
Selena O'Neal, Ada County  
Dave Logan, Ada County  
Kristen Bertram, NACo



# Benefits of ENERGY STAR

- Ranked in the top 25% of government buildings in the US
- Uses 40% less energy than average building – Costs 40% less than average to heat/cool/light
- Saves approximately \$175,000 in annual energy costs = more than \$14,500 a month in savings for our taxpayers



# Energy Awareness Posters

We're doing our part

By running our facilities more efficiently and investing in energy efficient equipment, we deliver real results for the environment.



As a partner with the U.S. Environmental Protection Agency's ENERGY STAR® program, we're committed to protecting the environment through energy efficiency. This year, ENERGY STAR partners and consumers will prevent the greenhouse gas emissions equivalent to 18 million automobiles by using less energy. [www.energystar.gov](http://www.energystar.gov)



CHANGE FOR THE  
BETTER WITH  
ENERGY STAR



# Leadership in Energy & Environmental Design



*Leading-edge system for designing,  
constructing, and certifying  
the world's greenest buildings.*



# What is LEED “Green” Design?

- **Sustainable Sites**
- **Energy & Atmosphere**
- **Water Efficiency**
- **Materials & Resources**
- **Indoor Environmental Quality**
- **Innovation and Design Process**



# Sustainable Sites

- Site Selection
- Urban Redevelopment
- Public Transportation
- Bicycle Friendly
- Carpool Parking





# Sustainable Sites

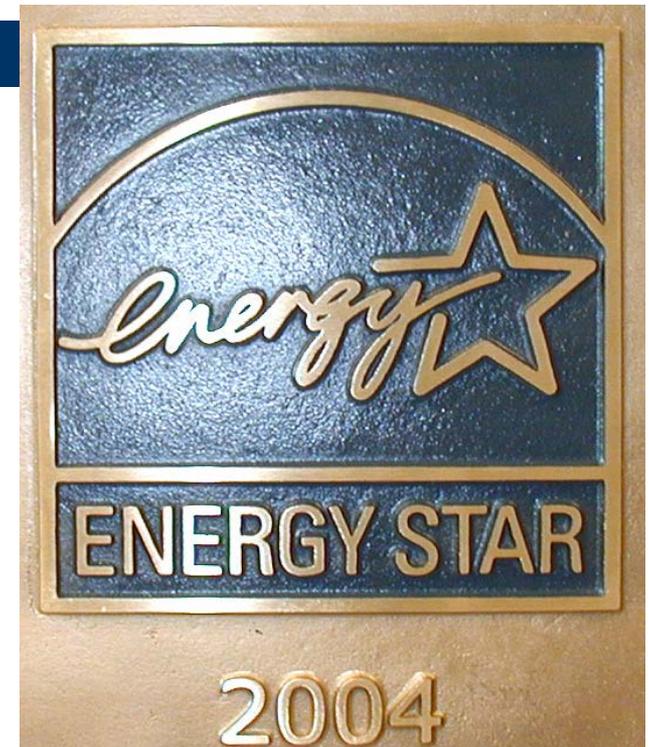
- Stormwater Management
- Light Pollution
- Exterior Maint





## Energy & Atmosphere

- Commissioning
- Ozone Protection
- Energy Performance
- Renewable Energy
- Maintenance Program





# Water Efficiency

- Maximize water efficiency
- Reduce burden on municipal water supply and on wastewater systems
  - Plumbing fixtures meet Energy Policy Act of 1992
  - All water closets use 1.6 gallons per flush
  - All urinals use 1.0 gallon per flush



# Materials & Resources

- Low-Mercury Lamps
- Occupant Recycling
  - Divert/Recycle over 40% of the total Waste Stream





# Materials & Resources

- Resource Reuse
- Local/Regional Materials
- Construction Waste Mgmt





# Indoor Environmental Quality

- Minimum IAQ Performance
  - Air exchange rates of 10-15 cfm per person
- Tobacco Smoke Control
- Green Housekeeping
  - Mats in Entryway Systems
  - Designated Chemical Mixing Areas
  - Low-Impact Cleaning and Housekeeping
  - Low-Impact Enviro Pest Mgmt



# Innovation & Design Process

- LEED Accredited Professional
- Education Program
  - Case Studies
  - Building Tours
  - Rebuild Ada County





# Rebuild Ada County's Vision

- To incorporate "energy efficiency" into the day-to-day operations of Ada County by proactively identifying and implementing methods for conserving natural resources, controlling utility costs, and maintaining building efficiency.



# Rebuild Ada County Partners

## Ada County

- County Commissioners
- Operations Dept
- Western Idaho Fair
- Solid Waste Dept
- Parks and Waterways
- Purchasing Dept
- Development Services

## Others

- State Energy Office
- Local Utilities
- Boise City Public Works
- Architects, Engineers, and Consultants
- Local Grass Roots Groups

**Thank you for coming!**

