

Ada County Courthouse & Administration Building



Idaho's First LEED-Certified Building!

Presented by Selena O'Neal, CEM, 2005

County Overview

- 1,060 square miles
- Population @ 350,000
- 24% of Idaho's population
- 55% live in Boise, the County seat





Courthouse Building Profile

- Completed construction in 2002
- 356,000 sq ft of floor space
- Courtrooms, PA and PD Offices
- Day-use detention facility in the basement
- County Services: Clerk/Auditor/Recorder, Vehicle Licenses, Property Tax Assessors, Building Permits, 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



Leadership in Energy & Environmental Design



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



LEED-EB Pilot Program (2003)

- **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

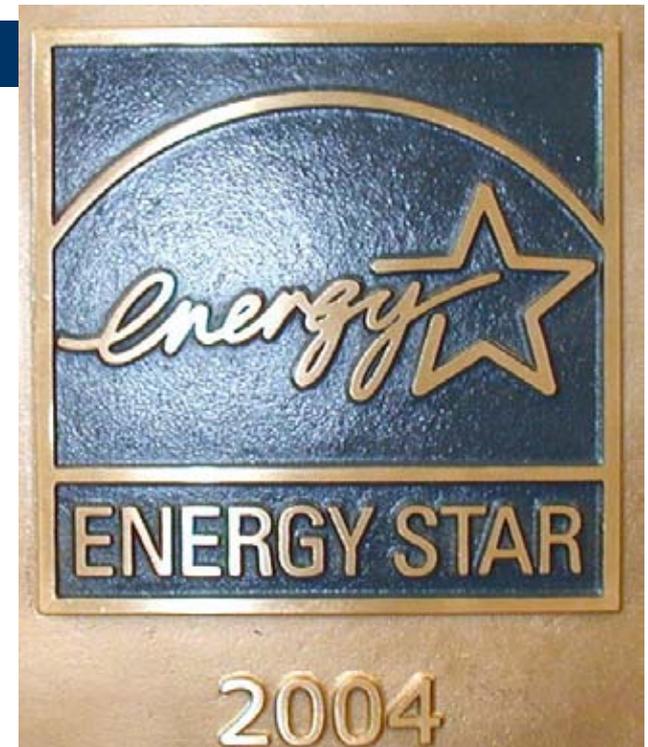
- Stormwater Management
- Light Pollution
- Exterior Maint





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





LEED-CI, Development Services





LEED-NC, Barber Park





Weed, Pest, & Mosquito Abatement





EMS Response Station





Energy Use Intensity

