Poudre School District-Fort Collins, CO
Lessons Learned (so far)

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February 16, 2012
PSD Lessons Learned

• New Construction Lessons Learned 2000-2008
• Existing Schools and Major Infrastructure Replacements
• Goals and Strategies
• How Building Envelope Studies Impact Design
• BECx Implementation
Kinard MS
Architect: RBB Architects
Photographer: Fred Fuhrmeister
3” Sprayed-On Polyurethane Insulation
Lesson Learned With IR Testing
PSD Energy Performance to Date

HIGH PERFORMANCE SCHOOL ENERGY USE INFORMATION

- Operations Bldg.
- Kinard JH
- Bethke Elementary
- Fossil Ridge High School
- Rice Elementary
- Zach Elementary
- Bacon Elementary

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Setting Energy Goals

50%
PSD 2010 Bond Energy Goals

- 2020 Goal: 53.8 kBtu/SF/Yr
- 2050 Goal: 13.4 kBtu/SF/Yr

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Goal 2050
Building Envelope Studies

Poudre School District 2011 Testing

PSD 2011 Air Leakage Testing Results
RCx and Life Cycle Cost Analysis

Retro-Commissioning Study Report
Poudre School District
Poudre High School
September 8, 2011
Design Tools and Goals

- Impact of Providing the Right Tools to Challenge Conventional Design
- Building Envelope Studies and Impact on Energy Modeling
- Design Team Confidence to “Right Size” Mechanical Systems
- Reinforcing Goals Throughout the Design Process
- Final Design Energy Modeling
- Rebates and Incentives for High Performance Design
- We’ll Keep You Posted 😊
“Got to Be Blue to Be Green”
Eating your energy efficiency vegetables before enjoying your renewable energy dessert”

Thank you 😊

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