



U.S. Department of Energy
Energy Efficiency and Renewable Energy

High Performance Schools Design & Technologies Seminar



Denver, CO

October 21, 2003



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Energy Efficiency and Renewable Energy

High Performance Schools Design & Technologies Seminar

- Introductions
- Purpose of Seminar / Outcome
- Overview
- Incidentals
- Rebuild America/EnergySmart Schools



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Rebuild America EnergySmart Schools

Rebuild America – National Program – US Dept of Energy

EnergySmart Schools – One of Five

A Bottom Up Not a Top Down Program

Assists through Community Partnerships

Provides Information and Assistance



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Rebuild America in Brief

**Rebuild America
partnerships improve the
quality of life in
communities by investing
in energy efficiency and
renewable energy
technologies.**





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Goals of Rebuild America's EnergySmart Schools



Improve teaching and learning environments

Reduce energy consumption and costs

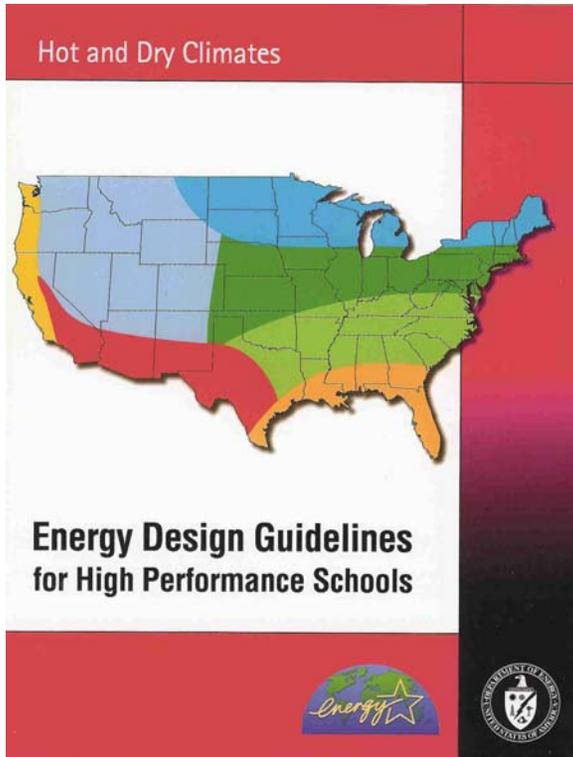
Increase use of clean energy

Help schools reinvest energy savings

Increase student, teacher, parent, and community awareness and involvement

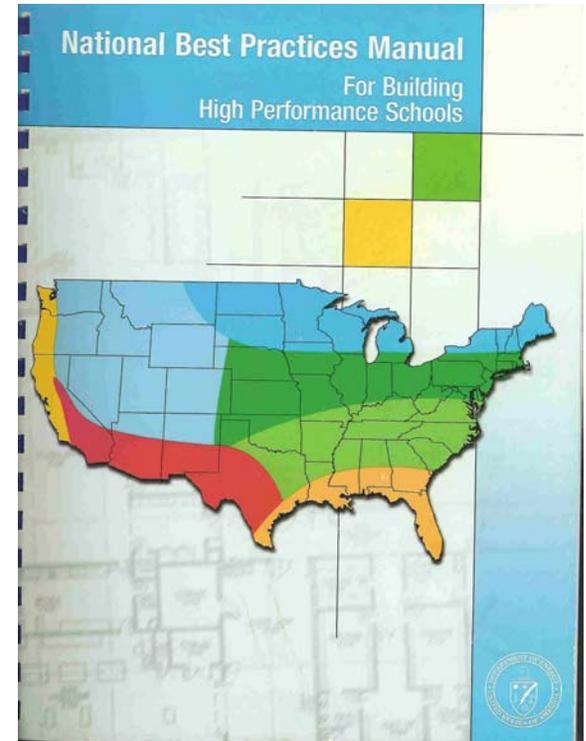


Documents



Climate Types

1. Hot/dry
2. Hot/humid
3. Temperate mixed
4. Temperate humid
5. Cool / dry
6. Cool / humid
7. Cold/ humid





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Agenda

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| 8:30 a.m. – 9:00 a.m. | Registration and Continental Breakfast |
| 9:00 a.m. – 9:15 a.m. | Introductions and Overview of Day |
| 9:15 a.m. – 10:00 a.m. | High Performance Design in Colorado |
| 10:00 a.m. – 10:30 a.m. | Lighting – Lamps and Ballasts |
| 10:30 a.m. – 10:45a.m. | Break and Viewing of Tabletop Exhibits |
| 10:45a.m. – 11:15 a.m. | Lighting Controls and Day-Lighting |
| 11:15 a.m. – 11:45 am | Ohio High Performance Schools Program |
| 11:45pm – 12:15 p.m. | Water Conservation – Outside and Inside |
| 12:15pm – 1:15 pm | Lunch and Tabletop Exhibits |
| 1:15 p.m. – 1:45 p.m. | Indoor Air Quality |
| 1:45 p.m. – 2:15 p.m. | Mechanical Systems – Geo-Exchange Options |
| 2:15 p.m. – 2:45 p.m. | Mechanical Systems – Displacement Ventilation |
| 2:45 p.m. – 3:15 p.m. | Mechanical Systems – Smart Building Controls |
| 3:15 p.m. – 3:45 p.m. | Tying It All Together |

Adjourn