

# A Brighter School Day: Clearview Elementary School Hanover, PA

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ENVS 635: Sustainable Design  
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# Overview

- Located in Hanover, PA
- Educational facility for K – 4
- Construction complete 2002
- Opened 2003
- Specs
  - 43,600 square feet
  - 2-story building





# Finances

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- ❑ Bond
- ❑ Private Foundation Support
- ❑ Project Cost - \$6.35 million

# Gold Level – Land Use

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## Achieved

- ❑ Erosion & Sedimentation Control
- ❑ Site Selection
- ❑ Alternative Transportation, Bicycle Storage & Changing Rooms
- ❑ Alternative Transportation, Parking Capacity
- ❑ Reduced Site Disturbance, Development Footprint
- ❑ Landscape & Exterior Design to Reduce Heat Islands, Roof

## Lacked

- ❑ Urban/brownfield redevelopment
- ❑ Protect or restore open space
- ❑ Stormwater management

# Gold Level – Water Use

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## Achieved

- ❑ Water Efficient Landscaping
- ❑ Water Efficient Landscaping, No Potable Water Use or No Irrigation
- ❑ Water Use Reduction

## Lacked

- ❑ Innovative wastewater technologies



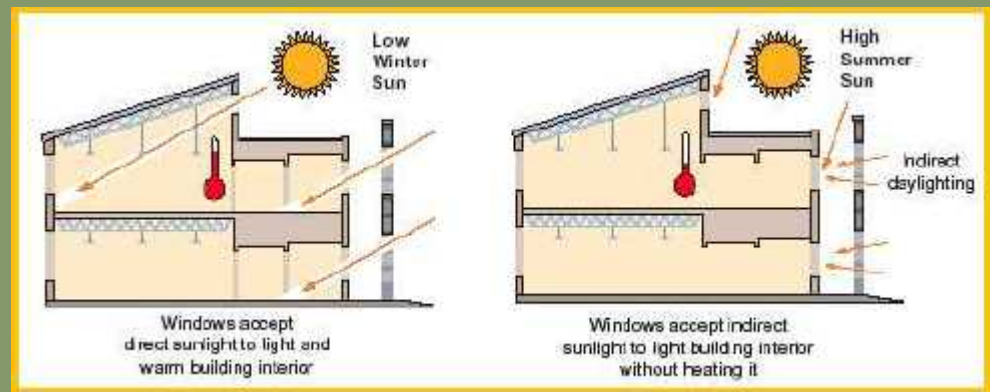
# Gold Level – Energy

## Achieved

- Fundamental Building Systems Commissioning
- Minimum Energy Performance
- CFC Reduction in HVAC&R Equipment
- Optimize Energy Performance

## Lacked

- Renewable energy
- Ozone depletion
- Green power
- Measurement and verification





## Gold Level – Materials and Resources

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### Achieved

- ❑ Storage & Collection of Recyclables
- ❑ Construction Waste Management
- ❑ Recycled Content
- ❑ Local/Regional Materials Harvested Locally
- ❑ Rapidly Renewable Materials

### Lacked

- ❑ Building re-use
- ❑ Resource re-use
- ❑ Certified wood

# Gold Level – Indoor Environmental Quality

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## Achieved

- ❑ Minimum IAQ Performance
- ❑ Environmental Tobacco Smoke (ETS) Control
- ❑ Carbon Dioxide (CO<sub>2</sub>) Monitoring
- ❑ Increase Ventilation Effectiveness
- ❑ Low-Emitting Materials
- ❑ Indoor Chemical & Pollutant Source Control
- ❑ Controllability of Systems
- ❑ Thermal Comfort
- ❑ Daylight & Views

## Lacked

- ❑ Construction IAQ Management plan



# Gold Level – Innovation and Design Process

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## Achieved

- Perfect Score



# Additional Recognition

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- ❑ LEED Certified – Gold Level total 42 points
- ❑ NESEA Green Building Awards – 1<sup>st</sup> prize for places in learning
- ❑ Slag Cement Association – Best use of slag cement for sustainable design



# Sources

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- U.S. Green Building Council. *LEED Certified Project Case Study: Clearview Elementary School*  
<http://leedcasestudies.usgbc.org/ratings.cfm?ProjectID=100>
- National Renewable Energy Laboratory. Department of Energy. *Highlighting High Performance: Clearview Elementary School.*  
<http://www.nrel.gov/docs/fy02osti/32680.pdf>
- U.S. Green Building Council. *LEED Green Building Rating System Version 2.1* November 2002.  
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