

Sustainable Design Initiatives **Overview**

SDI – 06 Native Wood

In partnership with City of Cincinnati and Hamilton County departments, CPS will recycle harvested timber from Cincinnati community parks for millwork, casework, and cabinetry for schools throughout our district. This donated natural material will also be used in the district's career-development programs for curricula relating to carpentry and woodworking.

SDI – 07 Renewable Energy

Renewable energy sources include wind and solar power that can directly generate electrical power to offset the energy needs of a school. The quickly evolving technologies naturally lend itself to educational opportunities, and the harvesting of renewable energy will certainly vary across the district.

SDI – 08 Water Efficiency

Reducing the water usage of our buildings will benefit the community. This initiative considers initiatives for storm water reuse and policies for water reduction. This includes equipment for kitchens and rest rooms that reduce processed water consumption.

SDI – 09 Daylight

Applying sustainable design concepts in daylight improves academic performance and reduces electrical power demands for light. Fewer light fixtures reduces power consumption and heat generated from lighting fixtures, therefore offering additional energy savings for Cincinnati Public Schools.

SDI – 10 Zero Waste Schools

This initiative expands the existing programs in place for recycling and waste reduction to achieve zero waste status. Even though absolute zero waste may not be attainable, the ultimate goal of this program is to assist our students, faculty, and staff in their efforts to maximize reducing, reusing, recycling and composting waste; and eventually eliminate unnecessary waste.

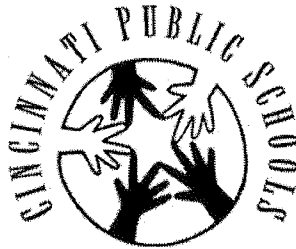
For more information, or to be part of these initiatives, please contact:

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GBBN Architects, the Authorized Representative for Cincinnati Public Schools, leads the research and application of sustainable design initiatives for CPS facilities. Interested parties are encouraged to participate.

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SDI – 01 Storm Water

This initiative will reduce the impact storm water quantity and improve water run-off quality with permeable hard-surfaces, vegetative green roofs, and earth treatments and incorporate these assets into math, science, and natural sciences curriculum.

SDI – 02 High Performance Gyms

Using daylight, electronic controls and sensors, heat-reducing roofing and high-volume / low-speed ceiling fans, electrical loads can be reduced in standard gymnasium designs. These components combine to save energy and improve performance where it matters - at the playing surface.

SDI – 03 Geothermal Energy

Heating and cooling costs for our schools can be reduced if the earth's thermal properties are used to generate a portion of the desired temperature. With this initiative, we study where and how to apply this technology to manage our life cycle costs more effectively.

SDI – 04 Indoor Air Quality

Indoor air quality contributes to the comfort and well being of the occupants. Also, it is clear that both attendance and performance scores can be improved with better IAQ. CPS will be the leader in IAQ for Ohio K-12 Public Schools by the year 2011 and will achieve this by incorporating guidelines from USEPA and USGBC for educational facilities throughout the district.

SDI – 05 Transportation

Cincinnati Public Schools expends considerable energy and costs for the transportation needs of students, faculty, administration and maintenance. This sustainable design initiative will reduce the impact on our city's environment as we provide transportation for the delivery of education and the operation of the school district.

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