



West Virginia Sustainable Schools Application

Before working on this application, please email Rachel Eades at reades@k12.wv.us for technical assistance in the application process may be provided.

This application is for a single school only. If you are applying as a county, please contact Vicki Fenwick-Judy at vfenwick@experience-learning.org.

If you have questions about topics or how to answer questions in Pillar 3, please contact Mark Swiger, Green Building Alliance Education Consultant, at swiger.mark@gmail.com.

Official School Name:

State School Code Number:

School type: Public Charter Title I Magnet Private Independent Rural

Official School Name Mailing Address:

(If the address is P.O. Box, also include street address.)

School phone:

School fax:

School Web site/URL:

County:

Grade levels:

Principal's name:

(Specify: Ms., Miss, Mrs., Dr., Mr., etc.) (As it should appear in the official records)

Principal's email:

If the lead contact is not the principal, complete this section.

Lead contact's name:

Lead contact's email:

Lead contact's phone:

Does your school have at least 40 percent of your students receiving free or reduced meals?

Yes No

Total enrollment:

Graduation rate:

Attendance rate:

Awards for Sustainability and Action

Has your school, staff or student body received any awards for environmental or sustainability stewardship/action?

Yes No

If yes, please list the awards you have received and the years you received them.



Has your county completed the Environmental Literacy Indicator Tool?

Yes No

If yes, when was the Environmental Literacy Indicator Tool completed?

***The school selected for the highest WVSS award will receive \$5,000 and second place school will receive \$1,000 to improve, continue, or extend a part of their WV Sustainable Schools program. Please explain how the funds would be used if your school / county received this award. (1200 characters)

PILLAR 1 – ENVIRONMENTAL AND SUSTAINABILITY EDUCATION

Pillar 1 has three main elements:

- *Interdisciplinary learning about the key relationships between dynamic environmental, energy, and human systems;*
- *Authentic use of the environment and sustainability to develop STEM content knowledge and skills to prepare graduates for the 21st century technology-driven economy; and*
- *Development of students' awareness, knowledge, skills, and attitudes so they may address sustainability and environmental issues in the communities.*

Element 1A: *Interdisciplinary learning about the key relationships between dynamic environmental, energy and human systems.*

Question 1. Which practices does your school employ to help ensure effective environmental and sustainability education? Provide specific examples of actions taken for practice listed below, highlighting innovative or unique practices and partnerships.

a. Are environmental and sustainability concepts integrated throughout the curriculum. If yes, please describe how the Environmental and Sustainability Standards and concepts are taught and indicate in which subjects they are integrated. (1200 characters max)

b. Describe students' meaningful outdoor learning experiences at every grade level. (1200 characters max)

c. Professional development (PD) opportunities in environmental and sustainability education are provided for all teachers through the WVDE, WVDNR, The Mountain Institute, NASA IV& V, WV Science Teachers Association, WV Environmental Education Association, Project WET, and many others. Please describe professional development opportunities addressing environmental and sustainability standards in which your teachers have participated. Include the name and date of the PD, organization offering the PD, and the teachers who participated in these opportunities over the past 2 years. Also describe how the PD was implemented into

the classroom. (1200 characters max)

d. Are environmental and sustainability concepts integrated into assessments? If yes, please describe assessments and level of proficiency in the assessments. (1200 characters max)

e. Does your school serve grades 9 - 12?

Yes No

If yes, please provide the following information:

- Percentage of students taking an Environmental Science elective (course code 6312)
- Percentage of last year's eligible graduates who completed the AP Environmental Science course during their high school career (course code 6221)
- Percentage of these students who scored a 3 or higher on the AP Environmental Science exam

f. Does your school have an environmental or sustainability literacy requirement? If yes, please describe your school's environmental or sustainability literacy graduation requirement. (1200 characters max)

Element 1B: *Use of the environment and sustainability to develop Science, Technology, Engineering, Arts, and Math (STEAM) content knowledge and thinking skills to prepare graduates for the 21st century technology-driven economy.*

Question 2. How does your school utilize the pedagogy of environment-based education? This pedagogy emphasizes scientific practices, such as asking questions, developing and using models, planning and carrying out investigations, analyzing and interpreting data, using mathematics and computational thinking, constructing explanations, and engaging in argument from evidence. (1200 characters max)

Question 3. How does your school use sustainability and the environment as a context for learning green technologies and career pathways? Please describe the college and career connections. (1200 characters max)

Question 4. Do your students graduate with robust general science education that includes a deep understanding of life, physical, and earth sciences? Please describe and give specific

examples. (1200 characters max)

Element 1C: *Development of civic engagement knowledge and skills, and students' application of these to address sustainability and environmental issues in their community.*

Question 5. Please share how outdoor learning is used to teach an array of subjects in contexts, engage the broader community, and develop civic skills. (1200 characters max)

Question 6. Describe students' civic/community engagement projects integrating environment and sustainability topics. (1200 characters max)

Question 7. Please describe your partnerships with local academic, business, government, nonprofit and informal science institutions to help advance your school, other schools (especially schools with fewer resources) and the greater community toward the 3 Pillars. Include both the scope and impact of these partnerships. (1200 characters max)

Question 8. Describe any other ways that your school integrates core environment, sustainability, STEM, green technology and civics into curricula to provide effective environmental and sustainability education, highlighting on innovative or unique practices and partnerships. (1200 characters max)

PILLAR 2: HEALTHY SCHOOL ENVIRONMENTS

Pillar 2 includes two main elements.

- *An integrated school environmental health program based on an operations and facility-wide environmental management system that considers student, visitor, and staff health and safety in all practices related to design, construction, renovation, operations, and maintenance of schools and grounds; and*
- *High standards of nutrition, fitness, and quantity of quality outdoor time for both students and staff.*

Element 2A: *An integrated school environmental health program based on an operations and facility-wide environmental management system that considers student, visitor, and staff health and safety in all practices related to design, construction, renovation, operations, and maintenance of schools and grounds.*

Question 1. The WV Code requires all schools in WV to develop and implement an Integrated Pest Management plan and follow the best practices outlined by the WV Department of Agriculture, found at <http://www.wvagriculture.org/images/Regulatory/Forms-Regs-Info/PRP-61-12J.pdf>. Please describe exceptional components of your school's plan. (600 characters max)

Question 2. Please mark (*click on the box*) the following practices does your school employ to minimize exposure to hazardous contaminants?

- Our school enforces the prohibition of tobacco products on campus, in public school buses, and at school-sponsored events in compliance with WVDE Policy 4373.
- Our school has identified and properly removed sources of elemental mercury and prohibits its purchase and use in the school, as stated in policy 6200.
- Our school uses fuel-burning appliances and has taken steps to protect occupants from carbon monoxide (CO) with use of CO alarms that meet the requirements of the National Fire Protection Association.
- Our school does not have any fuel burning combustion appliances.
- Our school has annually tested all frequently occupied rooms at or below ground level for radon gas and has fixed and retested all rooms with levels that tested at or above 4 pCi/L OR our school was built with radon resistant construction features and tested to confirm levels below 4 pCi/L.
- Our school has identified any wood playground or other structures that contain chromate copper arsenate and has taken steps to eliminate exposure.

Provide specific examples of actions taken for each practice checked above. (600 characters remaining)

Question 3. Describe how your school controls and manages chemicals routinely used in the school to minimize student and staff exposure. (600 characters max)

Question 4. Describe actions your school takes to prevent exposure to asthma triggers in and around the school. (i.e. following the EPA's IAQ Tools for Schools or National Asthma Education and Prevention Program's (NAEPP) Asthma Friendly Schools guidelines) (600 characters max)

Question 5. Describe actions your school takes to control moisture from leaks, condensation, and excess humidity and promptly cleanup mold or remove moldy materials when it is found (i.e. following the EPA's IAQ Tools for Schools and WV Policy 6200, 1110.09). (600 characters max)

Question 6. Our school has installed local exhaust systems for major airborne contaminant sources.

- Yes No

Question 7. Describe your school's practices for inspecting and maintaining the building's

ventilation system and all unit ventilators to ensure they are clean and operating properly. (i.e. a documented preventative maintenance program) (600 characters max)

Question 8. Describe actions your school takes to ensure that all classrooms and other spaces are adequately ventilated with outside air, consistent with state or local codes, or national ventilation standards. (i.e. adherence to ASHRAE 62.2 and verification method) (600 characters max)

Question 9. Describe other steps your school takes to protect indoor environmental quality such as implementing EPA IAQ Tools for Schools and/or conducting other periodic, comprehensive inspections of the school facility to identify environmental health and safety issues and take corrective action. (1200 characters max)

Element 2B: *High standards of nutrition, fitness, and quantity of quality outdoor time for both students and staff.*

Question 10. Please mark (*click on the box*) practices your school employs to promote nutrition, physical activity and overall school health? Provide specific examples of actions taken for each checked practice, focusing on innovative or unique practices and partnerships.

- Our school has an on-site food garden.
- Our students spent the minimum hours per week in school supervised physical education, according to the requirements of WV Policy 2510.
- At least 50% of our students' annual physical education takes place outdoors.
- Our school participates in the USDA's Healthier School Challenge (list level and year below).
- Health measures are integrated into assessments i.e. FITNESSGRAM, HEAP.
- Our school purchases food that is labeled organic, fair trade, rainforest alliance, etc. (list percentage of total food purchases).

Provide specific examples or other information for each practice checked above. (1200 characters max)

Question 11. Describe the type of outdoor education, exercise and recreation available. (1200 characters max)

Question 12. Describe any other efforts to improve nutrition, fitness, and overall wellness highlighting innovative or unique practices and partnerships. Examples may include an active Local Wellness Committee that is comprehensively addressing the following: PE, health services, nutrition services, mental health, school environment, health promotion and family/community involvement or similar initiative to address overall school health; or participation in the "Let's Move! WV" Initiative. (1200 characters max)

PILLAR 3: ENVIRONMENTAL IMPACT AND ENERGY EFFICIENCY

Pillar 3 includes four main elements:

- A. Reduced energy use and/or greenhouse gas emissions using an energy audit or emissions inventory and reduction plan, cost-effective energy efficiency improvements, and on-site renewable energy and/or purchase of green power;*
- B. Improved water quality, efficiency, and conservation;*
- C. Reduced solid waste production through increased recycling, reduced consumption, and improved management, reduction, or elimination of hazardous waste stream; and*
- D. Expanded use of alternative transportation to, during and from school, through active promotion of locally available options and implementation of enabling projects and policies.*

Element 3A. *Reduced energy use and/or greenhouse gas emissions using an energy audit or emissions inventory and reduction plan, cost-effective energy efficiency improvements, and on-site renewable energy and/or purchase of green power*

Question 1. Does your school use any database or benchmarking tools, such as EPA's Portfolio Manager or SchoolDude's energy management module, to track your school's utility consumption? (Please list which tool.)

Yes No

If yes, the name of tool:

Question 2. Has your school reduced its total non-transportation energy use from an initial baseline?

Yes No

If yes, how did you calculate and document the reduction? (Include the data collection period.)

Question 3. Has your school received EPA ENERGY STAR certification, or does it meet the requirements for ENERGY STAR certification?

Yes No

If yes, what is your score, and year received?

Question 4. Does your school produce or purchase fuel from any renewable sources and/or programs?

Yes No

If yes, please describe.

Question 5. Has any part of your school facility been newly constructed or undergone any renovations in the past five years that meets the standards of ASHRAE's Advance Energy Design Guide, Leadership in Energy and Environmental Design (LEED), Collaborative for High Performance Schools (CHPS), Green Globes, or other green building standards?

Yes No

If yes, please describe.

Element 3B: *Improved water quality, efficiency, and conservation.*

Question 6. Can you demonstrate a reduction in your school's total water consumption from an initial baseline?

Yes No

If yes, how did you calculate and document the reduction? (Include the data collection period.)

Question 7. Describe your school's landscaping practices, including the amount of your school grounds devoted to ecologically beneficial uses. Best practices can be found at

<http://www.epa.gov/greenkit/landscap.htm> and
<http://www.epa.gov/epawaste/consERVE/tools/greenscapes/index.htm>

Yes No

If yes, please describe.

Question 8. Describe any efforts or programs you have in place to

- reduce stormwater runoff and/or reduce impermeable surfaces,
- protect water source from potential contaminants, and/or
- control lead in the drinking water. (1200 characters max)

Element 3C: *Reduced solid waste production through increased recycling, reduced consumption, and improved management, reduction, or elimination of hazardous waste streams.*

Question 9. What percentage of solid waste is diverted from landfilling or incinerating due to



reduction, recycling and/or composting? Please describe how you have determined this reduction, including calculations if possible. (1200 characters max)

Question 10. What percentage of your school's total office/classroom paper content is post-consumer material, fiber from forests certified as responsibly managed and/or chlorine-free?

Question 11. Describe measures taken to reduce solid waste and eliminate hazardous waste (i.e. flammables, mercury, etc.). (1200 characters max)

Question 12. Does your school use third-party certified green cleaning products as part of their custodial program?

Yes No

If yes, please describe, including the percentage of total cleaning products.

Element 3D: Expanded use of alternative transportation to, during and from school, through active promotion of locally available options and implementation of enabling projects and policies.

Question 13. What percentage of your students walk, bike, bus, or carpool (2 + student in the car) to/from school? (Note if your school does not use school buses.)

How is this data calculated?

Question 14. Please mark (*click on the box*) the following practices or policies your school employs.

- Designated carpool parking stalls.
- Vehicle loading/unloading areas are at least 25 feet from building air intakes, doors, and windows WV Policy 6200 minimum is 15 feet).
- Safe Pedestrian Routes to school or Safe Routes to School
- Use of biodiesel, or other alternative fuel in their county school bus fleets

Describe activities in your above in greater detail. (1200 characters max)

Question 15. How does your school enforce WV Policy 4336, Section 12, the anti-idling policy that applies to all school buses? (1200 characters max)

Question 16. Describe how your school transportation use is efficient and has reduced its environmental impact. (1200 characters max)

Question 17. Describe any other efforts toward reducing the environmental impact of your facilities and operations, focusing on innovative or unique practices and partnerships. (1200 characters max)

Additionally, you may submit up to five images or pictures and one video file with your application. Please provide original images and link to video in the email with this application.

Please provide a brief description or caption (300 characters) for each file below. (Note: please name your files according to the corresponding number below.)

Image 1:

Image 2:

Image 3:

Image 4:

Image 5:

Video 1:

*** To receive the \$5,000 award, a school must earn 70% of the points available to them on the rubric.