### Budget

Kings Local (050435) - Warren County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (429)

**U.S.A.S. Fund #:** [Plus/Minus Sheet (opens new window)]

**Kings Local (050435) - Warren County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (429)**

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**Adjusted Allocation:** 0.00

**Remaining:** -2,270,047.00
2. Executive summary: Provide an executive summary of your project proposal and which goal(s) in question 9 you seek to achieve. Please limit your responses to no more than three sentences.

The enclosed energy innovation and sustainability project seeks to achieve spending reductions in the five-year fiscal forecast for Kings Local Schools. The project includes numerous sustainable energy conservation measures as well as a solar energy program to reduce energy costs and utilize a greater share of financial resources in the classroom. The overall financial impact for the district will be to reduce costs by $191,106.00 per year. This includes utility savings of $161,106 annually and a reduction in capital outlay of $60,000 annually.

3. Total Students Impacted:

4. Lead applicant primary contact: - Provide the following information:

   First Name, Last Name of contact for lead applicant: Valerie Browning
   Organizational name of lead applicant: Kings Local Schools
   Unique Identifier (RN/Fed Tax ID): 050435
   Address of lead applicant: 1797 King Ave. Kings Mills, OH 45039
   Phone Number of lead applicant: 513.398.8050
   Email Address of lead applicant: vbrowning@kingslocal.net

5. Secondary applicant contact - Provide the following information, if applicable:

   First Name, last Name of contact for secondary applicant: N/A
   Organizational name of secondary applicant: N/A
   Unique Identifier (RN/Fed Tax ID): N/A
   Address of secondary applicant: N/A
   Phone number of secondary applicant: N/A
   Email address of secondary applicant: N/A

6. List all other participating entities by name: Provide the following information for each additional participating entity, if applicable: Mention First Name, Last Name, Organizational Name, Unique Identifier (RN/Fed Tax ID), Address, Phone Number, Email Address of Contact for All Secondary Applicants in the box below.

   N/A

7. Partnership and consortia agreements and letters of support - Click on the link below to upload necessary documents.

   * Letters of support are for districts in academic or fiscal distress only. If school or district is in academic or fiscal distress and has a commission assigned, please include a resolution from the commission in support of the project.

8. Please provide a brief description of the team or individuals responsible for the implementation of this project including relevant experience in other innovative projects. You should also include descriptions and experiences of partnering entities.

   The implementation of this program will be the joint responsibility of the board, administrators, and the support personnel. Support and cooperation will be experienced by all staff and students on all levels for the success of this program. Currently, the district maintains records and has nine years of historical data. The district will continue to maintain records of energy consumption and cost of energy on a monthly basis. Energy audits will be conducted annually at each district building and recommendations will be made for updating the energy program. Energy conservation guidelines and procedures will be updated via the District’s Sustainable Energy Plan. This document is reviewed annually by the Board of Education. The District Administration will establish annual energy management goals, annual energy education goals, and annual behavior modification goals. The primary responsibility for implementation of the Straight A Fund program and energy education goals will be undertaken by the District’s Business Manager. Information will be furnished to the State of Ohio utilizing the Straight A Fund program. The district’s Business Advisory Council is designated to assist oversight of a district-wide sustainability and energy conservation program. The utilization of the Straight A Fund program will help to meet the goals of the council. Vista Consulting Group, LLC located in Lebanon, Ohio is our consulting partner that has helped the School district evaluate, design, propose, and ultimately will manage the implementation of the project and contractors that will perform the work. Vista Consulting Group was created in 2006 to help school clients navigate programs that reduce costs, utilize as many unique sources of financial support as possible, and oversees the results. Vista has performed hundreds of conservation programs for Ohio schools and the Partners at Vista have each provided support solutions of this nature for over 20 years in their careers. The team is led by Doug Cox, President and Managing Partner of the firm. Doug is a certified Engineer in the State of Ohio, and carries certifications as a Business Manager by the Ohio Department of Education, as well as certification by the Association of Energy Engineers (AEE) in Energy Management, Energy Analysis, and Sustainable Design. Doug is accompanied by Eric Kuns, Managing Partner of Vista, and Eric is certified in Building Efficiency Design, Financial Analysis, and Grant Writing. The program manager for the project would be 30 year veteran John Fredrick, Project Manager for Vista. John oversees the implementation phase of the project and communicates activities between the school district and the contractors. Together, the school district and Vista Consulting Group will be working together to oversee the project proposed and achieve the results described herein.

8. Which of the stated Straight A Fund goals does the proposal aim to achieve? - (Check all that apply)

   - Student achievement
   - Spending reductions in the five-year fiscal forecast
   - Utilization of a greater share of resources in the classroom
   - N/A

9. Which of the following best describes the proposed project? - (Select one)

   - New - never before implemented
   - Existing and researched-based - never implemented in your district or community school but proven successful in other educational environments
   - Mixed Concept - incorporates new and existing elements
   - Enhancing/Scale Up - elevating or expanding an effective program that is already implemented in your district, school, or consortia partnership

11. Which of the following best describes the proposed project? - (Select one)

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   - Mixed Concept - incorporates new and existing elements
   - Enhancing/Scale Up - elevating or expanding an effective program that is already implemented in your district, school, or consortia partnership

11. Describe the innovative project.

   The project includes numerous energy and operational upgrades to the Kings Local Schools District. Currently, Kings Local Schools is experiencing ever increasing financial pressure from the electrical and natural gas suppliers. The increases associated with the districts electrical supplier’s “Electrical Security Plan” has put significant pressure on the administration to make choices between facility improvements and educational investments to help improve the learning experience for the student. These upgrades include sustainable products in the mechanical, plumbing, lighting, automation and electrical areas of the School system. The installation of these energy conservation measures and sustainable technologies will help to improve the learning environment in the high school, junior high school, and elementary schools. The students will benefit from this project with an improved learning environment as well as sustainable energy conservation measures such as solar power being utilized to help generate electricity for the district. The funding for this program will help the administration meet many of their facility improvement needs and reduce costs for the operation of the facility over the long-term. The energy and operational dollars that are saved as part of this program will be used to improve the learning experience for all students at Kings Local Schools. This will be achieved through investments in educational technology such as books, software and computers to help enhance the learning experience and environment for all students. The solar project will also provide an innovative...
12. Describe how it will meet the goal(s) selected above. - If school/district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan.

Student achievement - This project will greatly advance the student achievement goal in several ways. First, the energy education program that is supplied as part of this project includes program advancements for classroom use of educational awareness of energy structures and potential future applications, energy modeling and evaluation of natural resources, and advanced mathematics of applied energy models. This program is designed for Advanced (AP) students as well as General Science and Mathematics students. Second, the educational materials make use of the installed physical solar array used by the school district to generate electricity, and collects real time data for analysis in the classroom. The materials also coincide with existing science educational programs. Third, this program advances students to study about newly applied technologies that are becoming more available for general use. As a new and up and coming power source, Solar Power is being applied in several industry based applications and general understanding and use of this technology allows students to be better prepared for careers in the widespread electric power fields as well as the solar power industry. Lastly, this project will be of particular interest to students enrolled in our Engineering Academy. The installation of an alternative energy source will provide students with an opportunity to observe the installation of equipment as study how it works in real-life setting. Spreading reductions in the five-year fiscal forecast - This project will greatly advance the spending reductions in the 5-year fiscal forecast by reducing electricity/gas/water/sewer (utilities) costs, reducing maintenance funds needed to support diminishing infrastructure assets, and by generating new power sources which continue to reduce the district’s cost of utility services. By performing this improvement project, the savings allows the district to reduce those costs associated with supporting infrastructure services, and focuses more dollars from the general fund into the classroom for directly applied educational costs, i.e. books, lab equipment, and technology. Utilization of a greater share of resources in the classroom - This project will reduce the ancillary infrastructure support costs associated with utility expenditures and permanent improvement funds, and thus allow the district to spend more money on applied classroom resources. For every dollar consumed by the infrastructure support costs, that’s one less dollar that is applied to the actual classroom expenses which directly affects student achievement levels. By implementing this project, every dollar in support expenses, would be a dollar increased in the classroom resources provided - a goal that every school district would like to achieve, but few have the financial capabilities or resources to make happen.

c) SUSTAINABILITY - Planning for ongoing funding of the project, cost breakdown

13. Financial Documentation - All applicants must enter or upload the following supporting information. Responses should refer to specific information in the financial documents when applicable:

a. Enter a project budget

b. Upload the Straight A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortia or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review.

c. If subsection (b) is not applicable, please explain why, in addition to how the project will demonstrate sustainability and impact.

See support document "Straight A Project Summary" and "Financial Impact Table"

14. What is the total cost for implementing the innovative project?

2,270,047.00 * Total project cost

* Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RTT money, local funding, foundation support, etc.), and provide details on the cost of items included in the budget (i.e. staff costs and salary/benefits, equipment to be purchased and cost, etc).

The project budget is detailed in the attached document - "Straight A Project Summary." The project basically contains three areas of classroom and facility improvements - 1) Lighting, 2) Building Automation / HVAC and 3) Solar PV Power Production System. For this project, there would be about $2,950 dollars applied from Utility Rebate Grants from the Cynergy Corporation, but no other funds or sources of additional income that would be used to pay for the project. The three areas are all individually detailed in the attachment and are broken down by building, and by item. Additionally, each line item identifies the associated savings from utility services, grants, and from operational savings. In general, here are some details for each of the following three areas: 1) Lighting - Where opportunities exist, including classrooms, work rooms, hallways, and general use areas like libraries and gymnasiums, the lighting will be improved to the newest, high efficient lighting technology available. This will also decrease the amount of income consumption by a minimum of 12%. This improvement in lighting levels in educational environments and decreases in cost to provide it yields a double benefit. 2) Building Automation / HVAC - The computer system that operates the HVAC system for the buildings would be upgraded to allow for proper comfort in the classrooms and cut out building unoccupied times (like nights and weekends) when comfort isn't needed. This yields a savings of money that can directly be applied to classroom expenses and not to support infrastructure expenses. Moreover, this improves the comfort levels in the classroom and creates a more conducive environment for optimum learning. 3) Solar PV Power Production System - This exciting new opportunity would allow the district to build our own solar power production array on the roof of one building in the district and to use that power to partially operate the building. Though this concept is not a new technology to schools in Ohio, it is a new technology to the district. The grant would allow them to expand the system into classroom by collecting and monitoring the utility and savings associated with it. Ultimately, this option would allow for the dollars currently spent on electricity to be spent on instructional support instead.

15. What new/recurring costs of your innovative project will continue once the grant has expired? If there are no new/recurring costs, please explain why.

0.00 * Specific amount of new/recurring cost (annual cost after project is implemented)

* Narrative explanation/rationale: Provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.). If there are no new/recurring costs, please explain why.

There will be no new or recurring costs as part of this innovative project once the grant has expired. The Energy Innovation and Sustainability Project Grant will be used to fund the cost of the upgrades including all energy conservation and sustainability measures outlined in the opportunity analysis report. Once these measures have been installed and paid for, there will be no new/recurring costs involved with the installation of these energy conservation and sustainability measures.

16. Are there expected savings that may result from the implementation of the innovative project?

191,106.00 * Specific amount of expected savings (annual)

* Narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

See the attached Detailed Spreadsheet, "Straight A Project Summary," for savings figures by item, and by building. In other options identified in the list of items, detailed energy calculations were performed by the schools energy consultant - Vista Consulting Group, LLC. Based on their expertise and analysis of our systems, they have determined the specific amounts of energy that will be reduced, and operational savings derived for each item. Additional saving over the general fund savings include a reduced burden on out permanent improvement funds. This savings will be about $100,000 per year that has been allocated to make energy improvements in the district. This is not reflected in the above figure since it is not a general fund expense.

17. Provide a brief explanation of how the project is self-sustaining. If there are ongoing costs associated with the project after the term of the grant, this explanation should provide details on the cost reductions that will be made that are at least equal to the amount of new/recurring costs detailed above. If there are no new/recurring costs, explain in detail how this project will sustain itself beyond the life of the grant.

The energy innovation and sustainability project for Kings Local Schools is a self-sustaining project in which all of the energy conservation and sustainability measures will be paid for through the grant, with no additional cost once the grant has expired. The energy conservation and sustainability measures included in this application for purchase all have useful lives of 20 years or more. The energy conservation and sustainability measures included in this package have a combined savings of $191,106.00 with a simple payback of 11.88 years. The benefit of this program for Kings Local Schools is that the administration will be able to take the yearly savings of $191,106.00 and utilize these dollars on educational areas that will help to improve the learning experience for the student. In short, instead of spending these dollars, along with utility increases over the next 20 years, the district will be able to spend these monies on value added educational and learning areas in the district.

d) IMPLEMENTATION - Timeline, communication and contingency planning

18. Fill in the appropriate dates and an explanation of the timeline for the successful implementation of this project. In each explanation, be sure to briefly describe the largest barriers that could derail your concept or timeline for implementation and your plan to proactively mitigate these barriers. In addition, the narrative should list the stakeholders that will be engaged during that stage of the project and describe the communication that occurred as the application was developed.

Describe the ongoing communication plan with the stakeholders as the project is implemented. (Stakeholders can include parents, community leaders, foundation support and businesses, as well as educational personnel in the affected entities.)

* Proposal Timeline Dates

Plan (MM/DD/YYYY): 05/01/2014

* Narrative explanation

Additional saving over the general fund savings include a reduced burden on out permanent improvement funds. This savings will be around $100,000 per year that has been allocated to make energy improvements in the district. This is not reflected in the above figure since it is not a general fund expense.

Implementation (MM/DD/YYYY): 09/01/2014

* Narrative explanation

Installation of Energy and Sustainability Projects Installation of Automation Package Installation Lighting enhancements Installation Solar Power production system All work to be completed by vendors. As with any construction project there can be material and supply issues that are beyond the districts control. We hope to mitigate these issues through careful planning and working closely with our engineering firm.
19. Describe the expected changes to the instructional and/or organizational practices in your institution.

The Kings Local School’s energy innovation and sustainability project is a vital program that responds to the needs of improving the educational environment as well as reducing costs and energy consumption throughout our buildings. The impact that the Straight A Fund would have is vital to allowing the district to stretch administrative funds out over a longer period and to allow the district to complete the work in a quicker timeframe. If we were not able to utilize the Straight A Fund program, the district would only be able to afford the project over a period of 5-7 years, and would have to utilize general fund dollars to pay utility costs instead of making educational improvements. The Kings Local School’s energy innovation and sustainability measures will be put on hold until additional funding sources into student education. *Support the community and district’s desire to conserve costs, reduce energy, and invest in our kids’ futures.

20. Describe the rationale, research or past success that supports the innovative project and its impact on student achievement, spending reduction in the five-year fiscal forecast or utilization of a greater share of resources in the classroom.

The Kings Local School’s energy innovation and sustainability project seeks to achieve spending reductions in the five-year fiscal forecast for Kings Local Schools. The project includes numerous sustainable energy conservation measures as well as an energy education program to help reduce costs and utilize a greater share of financial resources in the classroom. The overall financial impact for the district will help reduce costs by $191,106.00 per year.

21. Is this project able to be replicated in other districts in Ohio?

E) SUBSTANTIAL IMPACT AND LASTING VALUE - Impact, evaluation and replication

22. If so, how?

The energy innovation and sustainability project is able to be replicated in other districts in Ohio. The program integrates energy conservation measures, sustainable technology, energy awareness educational programs, staff training and stem programs for integration into the district. The STEM program is designed to help the District to integrate energy education into the district curriculum and create awareness by using an energy kiosk highlighting the benefits of energy utilization and sustainability through education.

23. Describe the substantial value and lasting impact that the project hopes to achieve.

The Kings Local School’s energy innovation and sustainability project is a vital program that responds to the needs of improving the educational environment as well as reducing costs and energy consumption throughout our buildings. The impact that the Straight A Fund program would have is vital to allowing the district to stretch administrative funds out over a longer period and to allow the district to complete the work in a quicker timeframe.

24. What are the specific benchmarks related to the fund goals identified in question 9 that the project aims to achieve in five years? Include any other anticipated outcomes of the project that you hope to achieve that may not be easily benchmarked.

- **Benchmarking in this category is based solely on the measured expenses for classroom materials, supplies and supporting capital dollars. These expenses can be measured based on the spending plan and allocation of costs.**
- **Include the method, process and/or procedure by which the program will modify or change the program plan if measured progress is insufficient to meet program objectives.**
- **Include the method, process and/or procedure by which the program will modify or change the program plan if measured progress is insufficient to meet program objectives.**

25. Describe the plan to evaluate the impact of the concept, strategy or approaches used.

KINGS LOCAL SCHOOL'S ENERGY PROJECT VERIFICATION AND POST AUDITING PROCESS: When completing energy projects it is important to understand the exact impact to building operation the energy program has on the facility. To track the impact, it is Kings Local School's policy to verify energy savings from the facility in multiple ways: utility bill analysis, post facility audits / commissioning, client communications and real-time energy data. Utility bill analysis includes setting a baseline period twelve months before project start and using statistical regression analysis software (Matrix4) to map project savings by utility meter. The regression analysis considers building operation factors, like weather and occupancy, to remove variables and look at true facility consumption comparisons before and after installation. For example, if the baseline year had a long hard winter but the first year after installation had a short winter it would appear that the project savings were much better than if weather patterns were identical. Kings Local Schools still pays attention to direct savings, savings without adjustment, to ensure the variable adjustments are not too large. Post facility audits are conducted periodically and include review of physical building operation in addition to the review of building automation systems. Audits allow Kings Local Schools to ensure that changes have not been made by the client to negate expected energy savings and that the new equipment is operating as designed for the client. During and following post project audits, Kings Local School’s facility staff ensures that the energy conservation and sustainability measures are in line with the final project results. Finally, the real-time energy monitoring devices and the data retrieved by such devices will be periodically reviewed to ensure proper facility operation. These verification and auditing processes combine to ensure the energy project is receiving the expected results.

By virtue of applying for the Straight A Fund, all applicants agree to participate in the overall evaluation of the Straight A Fund for the duration of the evaluation timeframe. The Governing Board of the Straight A Fund reserves the right to conduct additional information in the form of data, surveys, interviews, focus groups, and any other related data to the legislature, governor, and other interested parties for an overall evaluation of the Straight A Fund.

PROGRAM ASSURANCES: I agree, on behalf of this applicant agency and/or all identified partners to abide by all assurances outlined in the Assurance section of the CCIP. In the box below, enter "I Accept" and indicate your name, title, agency/organization and today's date.

I accept Valerie M. Browning, Superintendent Kings Local School District 10/25/13