## Budget

Lakota Local (046110) - Butler County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (235)

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<th>Purpose Code</th>
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Applicants shall respond to the prompts or questions in the areas listed below in a narrative form.

A) APPLICANT INFORMATION - General Information, Experience and Capacity

1. Project Title: Energy Conservation

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.

This project is designed to enhance the knowledge of renewable energy among students, staff, and the community. This project will assist students in the lifelong learning process as well as forming collaborative relationships with businesses and communities. This proposal will encompass all three goals raising achievement, reducing costs while enabling our district to direct those resources saved back to our students.

3. Total Students Impacted:

4. Lead applicant primary contact: - Provide the following information:
   First Name, last Name of contact for lead applicant: Jenni L. Logan
   Organizational name of lead applicant: Lakota Local School District
   Unique Identifier (IRN/Fed Tax ID): n/a
   Address of lead applicant: 5572 Princeton Rd., Liberty Township, OH 45011
   Phone Number of lead applicant: (513)644-1180
   Email Address of lead applicant: jenni.logan@lakotaonline.com

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 (IRN/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 (IRN/Fed Tax ID), Address, Phone Number, Email Address of Contact for All Secondary Applicants in the box below.

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.
   * If a partnership or consortium will be established, please include the signed Straight A Description of Nature of Partnership or Description of Nature of Consortium Agreement.

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.

9. 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

10. 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. Describe the innovative project.

   The District will engage in an energy conservation project which includes: install variable speed control package on kitchen exhaust hoods at 22 schools, implement demand limiting control and Trane Energy Manager at all schools, perform building envelope insulation at 25 sites, install ground mounted solar PV system at 2 locations (two high schools), lighting retrofit at 6 schools, install boiler burner trim controls at 2 schools, install well for cooling tower water makeup at one school. In addition to the energy conservation project we will provide classroom teachers with standards-based energy materials and professional development in grades K - 8 that develop student understanding of and dispositions toward Alternative Energy that aligns with Ohio’s new learning standards for Science. The energy materials are inquiry-based and highly engaging to students that develop understanding of the science of energy as well as the sources of energy. This project will provide the district with the means to build a foundation in 14 elementary and 4 junior schools (over 11,000 students) for a plan for additional programming on alternative energy ensuring students receive a comprehensive energy education. The district intends to submit a round 2 application for Straight A Funds for the Alternative Energy pathway at the high school level.

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.

   For the student achievement component, this project would provide (K-8) classroom teachers with standards-based energy materials and professional development that develop student understanding and dispositions toward alternative energy that develop with Ohio’s new learning standards for science. The energy materials are inquiry-based and highly engaging to students that develop understanding of the science of energy as well as the sources of energy. This project will provide the district with the means to build a foundation in 14 elementary and 4 junior schools (over 11,000 students) for additional programming on alternative energy ensuring students receive a comprehensive energy education. The district plans to submit a round 2 application for Straight A Funds for the Alternative Energy pathway at the high school level. The district will achieve the second goal by reducing energy consumption by implementing the project specifics. This is estimated to reduce costs associated with the five year forecast by $425,000 annually. The third component will be achieved through utilizing the savings in energy consumption and redirecting the funds to classroom support resources which will have a causation of higher student achievement.

B) PROJECT DESCRIPTION - Overall description of project and alignment with Outcomes

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

    - [ ] New - never before implemented
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C) SUSTAINABILITY - Planning for ongoing funding of the project, cost breakdown

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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.

14. What is the total cost for implementing the innovative project?
   5,000,000.00 * Total project cost

* 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/recurrent costs, please explain why.

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

16. Are there expected savings that may result from the implementation of the innovative project?
   425,000.00 * 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.)

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/recurrent costs detailed above. If there are no new/recurrent costs, explain in detail how this project will sustain itself beyond the life of the grant.

The cost reductions in utility costs due to the lower energy consumption will result in a savings of $425,000 annually. There are no additional costs projected beyond the initial grant period. The only change in the financial status will be a reduction in expenditures.

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 such 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): 01/01/2014-2/28/2014

   * Narrative explanation

   Work with energy conservation vendor to finalize schedule, formally approve all necessary items by Board of Education and work with our community finance committee to engage and educate our community on the project. In addition, the District will finalize the identification of the Alternative Energy curriculum materials to be ordered. Training will be scheduled for teachers on the purpose of the project and on the instructional use of the alternative energy materials. Student field trips will be scheduled to visit the solar panel locations for on-site learning which will be integrated into the curriculum. We will also be highlighting this project through our website, newsletters, businesses, and social media.


   * Narrative explanation

   Work with the energy conservation and curriculum vendors to assure successful timing of benchmarks necessary to complete project. January, 2014, would begin the construction phase of the project and would have a completion date of June, 2014. Curriculum items will be delivered to teachers in March of 2014. Training will be held for teachers on the purpose of the project and on the instructional use of the alternative energy materials May through August, 2014. The new curriculum will begin in August, 2014 and be delivered to students. A pretest would also be administered to students during this time to access student understanding of alternative energy. We will continue to highlight this project through our website, newsletters, businesses, and social media.

   Summative evaluation (MM/DD/YYYY): 05/01/2015 - 6/30/2015

   * Narrative explanation

   We will work with our energy conservation vendor to perform an analysis of cost savings projected vs. realized as well as our energy consumption overall in June, 2015. In May, 2015, we would conduct post tests on student understanding to determine the degree to which students increased in their understanding of Alternative Energy.

19. Describe the expected changes to the instructional and/or organizational practices in your institution.

This project would provide the district with the curriculum foundation of renewable energy in 14 elementary schools and 4 junior schools. This will enable the district to plan for additional programming on alternative energy ensuring students receive a comprehensive energy education. By implementing this phase of energy conservation we will engage our staff and community in the importance of renewable energy. At the same time we will lead by example in reminding those responsible for the utility costs in their buildings and departments that reducing consumption is vital and will have an impact on student learning by re-directing much needed financial resources to the classroom.

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

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 District has implemented phase I & II of energy conservation projects in this district and have saved over $3 million in accumulated savings which is more than anticipated. This fourth project would include solar and provide an opportunity for student learning and achievement related to renewable energy. We are working with industry professionals who have experience in successfully implementing the projects included in this application. The selected energy curriculum materials from the National Energy Education Development Project (NEED) were developed from the most current research information from the U.S. Energy Information Administration. The highly engaging energy materials not only provide students with a deeper understanding of the science of energy, but also an understanding of the sources of energy used today - their formation, exploration, production, distribution, consumption, and economic and environmental trade-offs. Improved 21st Century Skills such as critical thinking, leadership skills and creativity are key benefits of the NEED program. NEED curriculum materials encompass a comprehensive energy curriculum that is supported by the National Teacher Advisory Board, dedicated to developing and promoting a standards-based energy education for students. All materials are correlated to the National Science Education Content Standards, the Common Core State Standards, and Ohio's New Learning Standards in Science.

21. Is this project able to be replicated in other districts in Ohio?
   * Yes
   * No

22. If so, how?
This project through the assistance of energy conservation vendors, school district personnel, finance committee members and curriculum consultants could work with others interested developing a
The impact of the student achievement component of this project would be to fortify the district’s curriculum with highly engaging energy resources and training that results in students having a deeper understanding and competency about energy. While also providing a foundation for the district to plan for additional programming on alternative energy ensuring students receive a comprehensive energy education.

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

An increase the student learning from the pre-test to post-test. Annual savings in energy costs of $425,000. The energy savings which will be realized to enable us to re-direct resources to the classroom in future years. We will also utilize $40,000 of this savings to plan for a secondary curriculum to be implemented in the 2015-16 school year.

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.

1. An increase the student learning from the pre-test to post-test. 2. Annual savings in energy costs of $425,000. 3. The energy savings which will be realized to enable us to re-direct resources to the classroom in future years. We will also utilize $40,000 of this savings to plan for a secondary curriculum to be implemented in the 2015-16 school year.

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

* Include the method by which progress toward short- and long-term objectives will be measured. (This section should include the types of data to be collected, the formative outputs and outcomes and the systems in place to track the program’s progress).

* 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.

An energy consumption and cost analysis will be conducted and reviewed each year. Students in grades K-8 will increase their understanding of and disposition toward Alternative Energy. The impact of the student achievement component of this project will be evaluated and measured with a pretest-posttest to assess student understanding and dispositions toward energy, with a concentration on alternative energy.

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 evaluation of the plan and request 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

Jenni L. Logan, Treasurer, Lakota Local School District 10/24/2013