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Adjusted Allocation: 0.00
Remaining: -1,705,673.00
11. Describe the innovative project.

We will realize an impact on our Student Achievement and we will experience spending reductions in the five-year fiscal forecast. In our being able to control the climate of the classroom, the students and staff will be able to perform at higher levels, as they are more comfortable, breathe easier, and are able to increase their focus. Installing a wind turbine and a chiller cooling system will improve our efficiency to the point where we are being paid for the electricity we generate, as opposed to our paying for electricity from a vendor.

300 Total Students Impacted:

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

First Name, last Name of contact for lead applicant: Kenneth Schmiesing
Organizational name of lead applicant: Independence Education Center
Unique Identifier (RN/Fed Tax ID): IRN 124297
Address of lead applicant: 06950 Independence Road, Defiance, Ohio 43512
Phone Number of lead applicant: 567-444-4825 ext. 4677
Email Address of lead applicant: kschmiesing@woecs.org

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:

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

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 services.

Josh glyc, Aeronautica Windpower, LLC, 11 Resnik Road, Plymouth, MA 02360-4892 800/360.0132 x207 283/283 206 928 8694 josh.glynn@aeronauticawind.com www.aeronauticawind.com Dan Gust, Account Manager, TRANE, Toledo Commercial Sales Office, 1001 Hamilton Drive, Holland, Ohio 43528 USA Office (419) 491-2251 Mobile (419) 795-3775 FAX (419) 491-2279 Toll Free (866) 506-8016 daniel.gust@trane.com Llc Oho 44557 Charlie Lero, Maintenance Supervisor, Independence Education Center, 06950 Independence Road, Defiance, Ohio 43512 Office (567) 444-4825 ext. 4702 FAX (567) 444-4826 Jerry Wiemken, Northwest Custom Mechanical LLC, Heating, Ventilation, and Air Conditioning, 648 N St. Rt. 66, Defiance, Ohio 43512 (419) 782-5044 Keni Gearhart, Superintendent, 205 Nolan Parkway, Archbold, Ohio 43502 567-444-4800 ext. 4846 kegearhart@woecs.org Dorothy Pietrykowski, Chief Financial Officer, 205 Nolan Parkway, Archbold, Ohio 43502 567-444-4800 ext. 4867 dpietrykowski@woecs.org Mr. Glynn of Aeronautica Windpower has worked on projects for schools across the United States including Ohio. They have installed a wind turbine ten miles from us at one of our feeder schools. They have completed a wind study which shows the feasibility for us having a turbine. Aeronautica's Certified US Made wind turbines have a presence in Ohio education, and their new control system allows integration into realtime display kiosks and Ipad/Android apps, with information regarding wind conditions, mechanical parameters, and output. This provides an educational component, as well as demonstrating sustainable energy production to our students. Access to controls is available remotely by school personnel and Aeronautica's service personnel at all times. With 93% domestic content, your purchase is supporting domestic manufacturing AND drastically reducing shipping rates. This same machine (originally the Danwin 27 & Norwin 29) has won awards for availability from the California Public Utility Commission, demonstrating robust & reliable gearbox design. Mr. Gust of TRANE has worked with several schools in Northwest Ohio area with the installation of a chiller device for the air handling components of our project. With the new equipment we will be able to take advantage of using power during the off-peak hours, and supplying power to our electric vendor during the peak hours. Installation of a Variable Frequency Drive will lower the cost of our electric as the electric demand will be lowered due to the motor not running at full capacity at all times when running. He is well versed at using the Ohio State Term Schedule for pricing the TRANE equipment we will be installing.

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

- Enhancing/Scale Up
- New - never before implemented

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

- 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

- A) APPLICANT INFORMATION - General Information, Experience and Capacity

- 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.

- We will realize an impact on our Student Achievement and we will experience spending reductions in the five-year fiscal forecast. In our being able to control the climate of the classroom, the students and staff will be able to perform at higher levels, as they are more comfortable, breathe easier, and are able to increase their focus. Installing a wind turbine and a chiller cooling system will improve our efficiency to the point where we are being paid for the electricity we generate, as opposed to our paying for electricity from a vendor.

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

- Kirry Lero has a vast amount of knowledge and experience in all the mechanical workings in our facility. He has been able to work cooperatively with our vendors to ensure proper installation and work completion as designated. Chuck has been with the school building since 2001. Jerry Wiemken, with Northwest Custom Mechanical, has over 40 years’ experience. He is well versed at using the Ohio State Term Schedule for pricing the TRANE equipment we will be installing.

- We are planning to use this grant to fund a wind turbine and a chiller air conditioning system at the Independence Education Center, located at 06950 Independence Road, Defiance, Ohio 43512. This project will allow us to learn and work in a climate controlled environment which will be financed through the generation of electricity from the wind turbine. Defiance County does not have any current wind turbines, but the wind studies of the area have shown that we should expect a positive balance sheet in terms of our electric production versus our electric use. Along with the turbine, our choosing a chiller for the air handling component of our project. With the new equipment we will be able to learn and work in a climate controlled environment which will be financed through the generation of electricity from the wind turbine.
The building will take place during off-peak electric use time. System will be installed outside of Rooms 2 & 3. Protective fencing will be install around equipment. The Classroom, Cafeteria, and Gym Air handlers will be retrofitted to accept new chilled water costs and all required controls and valves. Retrofit Existing Main Building AHU Hot Deck burner from a single stage burner to a full modulating burner. The existing AHUs will be retrofitted for heat recovery. The Teacher’s Lounge will be retrofitted with a new Ductless Mini Split system. The bus loading exit hallway will be retrofitted with a Fan Coil heater. Provide upgraded web based control system for all air handlers, chiller plant, and existing building operations. Provide upgraded building main power service. Provide all installation, engineering, system commissioning, and owner training.

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. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine. The Net Excess Generation + laws in Ohio mean that this turbine will produce $3-5K in cash flow for the school every year, beyond the energy savings. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine. We will realize a payback of as little as two years, always less than four years. Over the anticipated life of the school of 40 years or more, we believe the total savings could be as great as $1.2 million in a typical middle school. Johnston County Schools We will realize that our five year forecast will be impacted positively as our generation of electrical power is forecasted to be at a higher level than the power which we will actually demand. Use of power during off-peak periods will allow us to purchase electricity at a reduced rate. With the new heightened peak charges coming into the picture in two years, this will have a greater impact than we had originally planned to experience. The Net Excess Generation + laws in Ohio mean that this turbine will produce $3-5K in cash flow for the school every year, beyond the energy savings. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine.

13. Financial Documentation - 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 why.

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

Total project cost:

1,705,673.00

* Specific amount of new/recurrent costs (annual cost after project is implemented)

* Narrative explanation/rationale: Provide details on the costs 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.

Recurring Maintenance cost: $11,000 annually. Note that this is the standard rate for the machine. It may be lower since we are so close to the Archbold turbine site.

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

11,000.00

* 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.) We have found project simple paybacks of as little as two years, always less than four years. Over the anticipated life of the school of 40 years or more, we believe the total savings could be as great as $1.2 million in a typical middle school.

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

23,996.00

* 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.) We have found project simple paybacks of as little as two years, always less than four years. Over the anticipated life of the school of 40 years or more, we believe the total savings could be as great as $1.2 million in a typical middle school.

17. Provide a brief explanation of how the project is sustainable. 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.

We will realize that our five year forecast will be impacted positively as our generation of electrical power is forecasted to be at a higher level than the power which we will actually demand. Use of power during off-peak periods will allow us to purchase electricity at a reduced rate. With the new heightened peak charges coming into the picture in two years, this will have a greater impact than we had originally planned to experience. The Net Excess Generation + laws in Ohio mean that this turbine will produce $3-5K in cash flow for the school every year, beyond the energy savings. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine.

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): 12/17/2013

* Narrative explanation

We will realize that our five year forecast will be impacted positively as our generation of electrical power is forecasted to be at a higher level than the power which we will actually demand. Use of power during off-peak periods will allow us to purchase electricity at a reduced rate. With the new heightened peak charges coming into the picture in two years, this will have a greater impact than we had originally planned to experience. The Net Excess Generation + laws in Ohio mean that this turbine will produce $3-5K in cash flow for the school every year, beyond the energy savings. Thanks to net metering laws in Ohio, you will likely get a check at the end of every year, and 100% of your power from the one turbine.

Materials ordered, work scheduled

Implement (MM/DD/YYYY): 05/25/2014

* Narrative explanation

May 2014 - The electrical work will begin to upgrade our current services June 2014 - Chillers and mechanical components installed June 2014 - Site prep work completed for wind turbine August
2014 - Wind turbine erected and connected 2014-2015 School Year - All components up and running at high efficiency Upon confirmation that we have been approved for the grant in December of 2013, we will proceed in ordering all the mechanical and hardware necessities. We will also set the schedule for the work to be completed. The TRANE company representative shared that they are on a six month completion schedule from the time we find we are approved for funding. The Aeronautica representative has shared that they are eight month completion schedule from the time we find we are approved for funding. Toledo Trane will be providing the following building renovations: Provide one Trane Ice Enhanced 70 Ton Air Cooled Chiller Plant. Plant is designed to operate as a Full Ice Cooling System feeding the CHPs, Cafeterias, and Gym Areas. Ice building will take place during off peak electric use time. System will be installed outside of Rooms 2 & 3. Protective fencing will be installed around equipment. The Classroom, Cafeteria, and Gym Air Handlers will be retrofitted to accept new chilled water coils and all required controls and valves. Retrofit Existing Main Building AHU Hot Deck burner from a single stage burner to a full modulating burner. The existing office unit will be reconfigured for heat pump use. The Teacher’s Lounge will be retrofitted with a new Ducxless Mini Split System. The bus loading exit hallway will be retrofitted with a Fan Coil Heater. Provide upgraded web based control system for all air handlers, chiller plant, and existing building operations. Provide upgraded building main power service. Provide all installation, engineering, system commissioning, and owner training.

Summative evaluation (MM/DD/YYYY): 01/15/2015 
* Narrative explanation

We will be able to make a determination of the improved climate in the school building through the use of surveys of the students and staff. With the equipment in place, installed and connected, we will be able to see how the first quarter of operation has progressed in a financial sense. The staff and students will be progressing on the Student Growth Measures and Student Learning Objectives. We can see the progress they have made on their individualized plans and make a data decision on the positive growth that we are experiencing.