## Budget

**U.S.A.S. Fund #:**

*Plus/Minus Sheet (opens new window)*

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**Please respond to the prompts or questions in the areas listed below in a narrative form.**

**A) APPLICANT INFORMATION - General Information**

1. Project Title:
   Lighting the Way for STEM

2. Executive summary: Please limit your responses to no more than three sentences.
   Midview Schools will direct a greater share of resources to the classroom through a LED lighting upgrade that will generate a permanent cost savings to the general fund of $1.5 million over fifteen years. This savings will be utilized to expand the district's current Project Lead the Way (STEMM) program for grades K-12 by increasing high school course offerings in the Biomedical sciences and enhancing the elementary and middle school science, math and technology curriculum through hands-on lessons. These curricular changes will help Midview to reach its overarching goals of improving student achievement in math and science and increasing the number of students who pursue careers and college pathways in the STEM subjects.

   *This is an ultra-concise description of the overall project. It should not include anything other than a brief description of the project and the goals it hopes to achieve.*

3. Total Students Impacted:
   3046

   *This is the number of students that will be directly impacted by implementation of the project. This does not include students that may be impacted if the project is replicated or scaled up in the future.*

4. Please indicate which of the following grade levels will be impacted:

   - Pre-K Special Education
   - Kindergarten
   - 1
   - 2
   - 3
   - 4
   - 5
   - 6
   - 7
   - 8
   - 9
   - 10
   - 11
   - 12

5. Lead applicant primary contact: - Provide the following information:
   First Name, last Name of contact for lead applicant
   Dan White
   Organizational name of lead applicant
   Midview Local School District
   Address of lead applicant
   13050 Durkee Road Grafton, OH 44044
   Phone Number of lead applicant
   440-748-5306
   Email Address of lead applicant
   dwhite@midviewk12.org

6. Are you submitting your application as a consortium? - Select one checkbox below
   - Yes
   - No

   If you are applying as consortium, please list all consortium members by name on the "Consortium Member" page by clicking on the link below. If an educational service center is applying as the lead applicant for a consortium, the first consortium member entered must be a client district of the educational service center.

   Add Consortium Members

7. Are you partnering with anyone to plan, implement, or evaluate your project? - Select one checkbox below
If you are partnering with anyone, please list all partners by name on the "Partnering Member" page by clicking on the link below.

Add Partnering Members

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

8. Describe the innovative project: - Provide the following information

The response should provide a clear and concise description of the project and its major components. Later questions will address specific outcomes and the measures of success.

The current state or problem to be solved; and

Prior to February 2013 Midview had not passed a levy for additional operating dollars in over 19 years. As a result reduced force by cutting administrators, teachers, and support staff. High school busing was eliminated and paper copying was limited. Midview significantly increased student and pay to play fees. In 2003 the BOE voted to not renew a permanent improvement levy. The result was no money for over a decade to purchase supplies and materials. Thus the district’s course offerings and programs have been limited, and there has not been additional funding to enhance programming that will lead to greater student achievement, as well as prepare students for college and careers. Job opportunities in the STEM fields are growing rapidly. A study released April 13, 2014 by the Team NEO organization reported that in the past 12 years Cleveland's biomedical industry grew 60% creating thousands of jobs. By 2050 jobs in professional, scientific, and technical services are expected to grow by 29% across the country, computer system design by 47% and technical consulting by 58%. Employers in the health care fields report a lack of basic STEM competencies among job applicants (Change the Equation, 2010; ACT, 2012). Nevertheless, too few of Midview's students are prepared academically to seize these opportunities. ACT test scores indicate students are ill-prepared for college in the areas of math and science. The five-year trend report from ACT indicates that only 57% of students meet college readiness benchmarks in math and only 32% in science. While the district has been able to offer three high school STEMM (Science, Technology, Engineering, Mathematics, Medicine) courses through Project Lead the Way, only 26 students are currently enrolled in these classes. Furthermore, the current math and science curriculum lacks real and relevant hands-on experiences and sufficient partners with colleges and businesses.

The proposed innovation and how it relates to solving the problem or improving on the current state.

In order to redirect additional financial resources necessary to bolstering student achievement, Midview will complete a LED lighting retrofit which will generate an annual permanent cost savings of $103,200. The lighting upgrade will replace existing external and internal lights in 6 buildings with energy efficient LED light bulbs. This will reduce the electrical costs by 60% and virtually eliminate maintenance of bulb and ballast replacement. The annual savings generated by the LED lighting will be utilized to expand the district's current Project Lead the Way (STEM) program to grades K-12 while adding Biomedical Engineering at the high school and enhancing the elementary and middle school science, math and technology curriculum through hands-on lessons. In 2008 Midview Schools began offering an engineering curriculum titled Project Lead the Way (PLTW). Endorsed by the Ohio Department of Education, the PLTW curriculum consists of a series of engineering courses organized around authentic, problem-centered projects that require students to apply mathematics, science and technical knowledge and skills. The high school program is a four-year sequence of courses which, when combined with traditional mathematics and science courses, introduces students to the scope, rigor and discipline of engineering prior to entering post-secondary education. The PLTW Pathway to Engineering has four required courses: Introduction to Engineering Design, Principles of Engineering, Digital Electronics and one elective course. Midview High School currently offers the first three and will add Aerospace Engineering in 2015/2016. In order to increase course offerings, Midview’s high school science department will add four Biomedical Engineering classes that are a part of PLTW: Principles of Biomedical Science, Human Body Systems, Medical interventions and Biomedical Innovation. In these courses students will learn the concepts of human medicine, physiology, genetics, microbiology and public health to prepare them for careers in the biological sciences, emergency services, healthcare or medicine. These courses will be added to the curriculum one course per year over four years, starting with the principles of Biomedical Science. As part of this project, Midview will partner with Lorain County Community College to create an articulation agreement so that four of these courses are dual enrollment; i.e., students receive both high school and college credit. In order to encourage more students to take PLTW courses in high school, Midview will implement PLTW's Gateway to Technology program to its middle school curriculum. Gateway consists of several 9 week modules that expose middle school students to learning and careers in the STEM subjects so they are motivated to pursue high school and college coursework in these fields. In these modules students learn about robotics, flight and space, as well as DNA and crime scene analysis. Students are challenged to solve real-world problems while gaining skills in communication, collaboration, critical-thinking, and creativity. Starting with the 2015-16 school year, Midview will add two modules to its existing middle school technology class. All 7th grade students will receive the Design and Modeling unit and all 8th graders will receive the Automation & Robotics unit. Additional modules will be added over the next five years to include units such as Energy & the Environment and Medical Detectives. At the elementary level, Midview will integrate the PLTW Launch program into its elementary curriculum. Launch is a series of 24 modules aligned to the Common Core State Standards in math, science, and English Language Arts for grades K-6. Each module last ten hours and teaches problem solving skills by exposing students to the engineering design process. Using a train-the trainer model, all Midview elementary teachers will receive training on integrating Launch lessons into their core curriculum.

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

Applicants should select any and all goals the proposal aims to achieve. The description of how the goals will be met should provide the reader with a clear understanding of what the project will look like when implemented, with a clear connection between the components of the project and the stated goals of the fund. If partnerships/consortia are part of the project, this section should describe briefly how the various entities will work together in the project. More detailed descriptions of the roles and activities will be addressed in Question 16.

Student achievement (Describe the specific changes in student achievement you anticipate as a result of this innovation (include grade levels,
Though Midview has historically met most of Ohio’s State Indicators in math and science in grades 3-8 and on the Ohio Graduation Test, our students ACT test scores indicate students are ill-prepared for college in the areas of math and science. The five-year trend report from ACT indicates that only 57% of students meet college readiness benchmarks in math and only 32% in science. While the district has been able to offer three high school STEM courses through Project Lead the Way, only 26 students are currently enrolled in these classes. We want to see these numbers increase by at least 50% of students in each graduating class have participated in a PLTW engineering course. Goals for high school passage rate for math and science standardized tests for college and career readiness and participation in STEM courses: 2016 2017 2018 2019 Math 67% 77% 85% 90% Science 42% 55% 65% 80% Students in PLTW 36 50 65 80 We will use the Naviance to track how many students are choosing STEM majors at the college level. Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. Naviance provides schools with the information to track student’s college and career readiness goals and whether or not students are achieving them. We will use Naviance to collect quantitative data on student performance and outcomes in their college level STEM classes. Naviance provides a career interest inventory that allows students to create a plan for their futures by helping them discover their strengths and learning styles and explore college and career options based on their results. Our goal is by the spring of 2019 90% of all Midview students in grades 3-8 will be college and career ready based on PARCC and Ohio’s Next Generation of Assessments. 2016 2017 2018 2019 3rd Grade Math 80% 84% 87% 90% 4th Grade Math 80% 84% 87% 90% 5th Grade Math 80% 84% 87% 90% 6th Grade Math 80% 84% 87% 90% 7th Grade Math 80% 84% 87% 90% 8th Grade Math 80% 84% 87% 90% 5th Grade Science 75% 80% 85% 90% 9th Grade Science 75% 80% 85% 90%

Spending reductions in the five-year fiscal forecast or positive performance on other approved fiscal measures (Describe the specific reductions you anticipate in terms of dollars and spending categories over a five-year period in the box below or the positive performance you will achieve on other approved fiscal measures. Other approved fiscal measures include a reduction in spending over a five-year period in the operating budget approved by your organization’s executive board or its equivalent.)

On average Midview Local School District pays $39,100 per month for electricity. With the implementation of the LED lighting we will see that average monthly cost decrease to about $30,500 per month giving Midview a savings of $8,600 per month. This monthly savings will result in an annual savings of $103,200. That annual savings will result in a five year savings of $516,000 from the time the lights are installed. Forms describing the LED lights and how they will save Midview Local School District $103,200 annually have been uploaded to the Sustainability section of the Straight A Fund CCIP.

Utilization of a greater share of resources in the classroom (Describe specific resources (Personnel, Time, Course offerings, etc.) that will be enhanced in the classroom as a result of this innovation in the box below.)

This project will allow us to funnel greater resources directly into our classrooms and the hands of our students. The annual $103,000 saved from our electric bill will be spent on building our Project Lead the Way program in grades K-12. Teachers implementing Project Lead the Way, which will be 100% of our teachers in grades K-4, will receive professional development on the project-based learning to be implemented in their curriculum. Hands-on engaging technology, materials, and tools will be used in the classroom by our students. These engaging resources include tools such as: laptop and desktop computers, ROBOTC programming software for VEX Equipment, Autodesk software, Digital camera, Laserjet printers for 3D design, Bar Clamps, Spring Clamps, Drill Press, Staple Gun, Hammers, and Band Saws to list just a small portion of the hands-on equipment in the Gateway To Technology middle school Project Lead the Way program. Launch will bring tools to our elementary classrooms such as: Ipads, eBooks, VEX IQ Robotics Equipment, and multiple construction kits for hands-on projects. At the high school level resources reallocated to our classroom in our Pathway to Engineering program include tools similar to the CTT program and: Estes Model Rocket materials, modeling clay, polyethylene sheets, microscopes, hotplates, beakers, Incubators, Capacitors and Resistors Kits, and Digital MiniSystems. The Biomedical Science program of Project Lead the Way reallocates resources to the classroom that are similar to Pathway to Engineering but also include: DNA discovery Kit, Human Sickle Cell Anemia Prepared Slides, Tripod Beaker Stands, human body models, to list just a few of the multitude of hands-on engaging tools students will use. Midview Local School District will also work with the Lorain County Community College to offer our high school Biomedical Science courses to our students for PSEO, Post Secondary Enrollment Options or Dual Enrollment program which will enable our students to earn both college and high school credit from their PLTW courses.

Implementing a shared services delivery model (Describe how your shared services delivery model will demonstrate increased efficiency and effectiveness, long-term sustainability, and scalability in the box below.)

N/A

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

- New - never before implemented
- Existing: Never implemented in your community school or school district but proven successful in other educational environments
- Mixed Concept: Incorporates new and existing elements
- Established: Elevating or expanding an effective program that is already implemented in your district, school or consortia partnership

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

11. Financial Documentation: - All applicants must enter or upload the following supporting information. The information in these documents must correspond to your responses in questions 11-14.

* Enter a project budget in CCIP (by clicking the link below)
12. What is the total cost for implementing the innovative project?

Responses should provide rationale and evidence for each of the budget items and associated costs outlined in the project budget. In no case should the total projected expenses in the budget narrative exceed the total project costs in the budget grid.

<table>
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<th>490,000.00 State the total project cost.</th>
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<td>* Provide a brief narrative explanation of the overall budget.</td>
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Project cost to replace our bulbs and ballast with LED lighting is $490,000.00 ($489,645.40) All LED lighting and fixtures should be fully installed by the end of September. Midview Local School District (MLSD) will begin realizing a cost savings in October giving about 8 months of savings for the 2014-2015. We will use that savings to pay for summer teacher training and supplies for the start of 2015-2016 school year. We will continue saving over the 2015-2016 school year and will use that money to cover fees of Project Lead the Way which include summer training and supplies and materials. In addition to building and replenishing our PLTW program MLSD will also use the savings to replace or refurbish technology and instructional supplies in all classrooms. To see a detailed explanation of the overall budget for our LED lighting installation please review the attached or uploaded document titled Midview Schools Proposal Entire.

13. Will there be any costs incurred as a result of maintaining and sustaining the project after June 30th of your grant year?

Sustainability costs include any ongoing spending related to the grant project after June 30th of your grant year. Examples of sustainability costs include annual professional development, equipment maintenance, and software license agreements. To every extent possible, rationale for the specific amounts given should be outlined. The costs outlined in the narrative section should be consistent and verified by the financial documentation submitted and explained in the Financial Impact Table. If the project does not have sustainability costs, applicants should explain why.

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<th>Yes - If yes, provide a narrative explanation of your sustainability costs as detailed in the Financial Impact Table in the box below.</th>
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Sustainability costs include annual PLTW participation fees for each of the programs. Biomedical Sciences participation fee is $2000, Pathway to Engineering fee is $3,000; Gateway to Technology participation fee is $750, and Launch program participation fee is $750. Consumables per course for Gateway to Technology, Pathway to Engineering, and Biomedical Sciences are less than $300 per course. The cost for consumables for the Launch program is less than $200. Money will be set aside from the savings of the LED lighting to purchase all consumables starting with $1000 for the first year and increase each year by an additional $1,000 over the five year period. The replacement of laptops and computers will begin in spring 2019 with at least $20,000 budgeted each year for those replacements starting in 2019.

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<th>No - If no, please explain why (i.e. maintenance plan included in purchase price of equipment) in the box below.</th>
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14. Will there be any expected savings as a result of implementing the project?

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| No |

Applicants with sustainability costs in question 13 or seeking to achieve significant advancement in spending reductions in the five-year forecast must address this response. Expected savings should match the information provided by the applicant in the Financial Impact Table. All spending reductions must be verifiable, permanent, and credible. Applicants may only respond "No" if the project will not incur any increased costs as a result of maintaining and sustaining the project after June 30th of your grant year. The Governing Board will use the cost savings as a tiebreaker between
applications with similar scores during its final selection process. Cost savings will be calculated as the amount of expected cost savings less sustainability costs relative to the project budget.

103,200.00 If yes, specify the amount of annual expected savings. If no, enter 0.

If yes, provide details on the expected savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.). If no, please explain

Since Midview Local School District will be able to save $8600 per month in energy costs. We will set aside money to grow and refurbish our Project Lead the Way STEM program. With $103,200 in energy savings we will spend about $35,000 (exact amount will depend on specific pricing and inventory at the time of purchase) for training teachers and purchasing supplies and materials for PLTW courses. We will utilize the other $35,000 to refurbish and replace computers and other technology in our STEM classes and other technology related student work; such as our computer labs.

15. Provide a brief explanation of how the project is self-sustaining.

All Straight A Fund grant projects must be expenditure neutral. For applications with increased ongoing spending as documented in question 11-14, this spending must be offset by expected savings or reallocation of existing resources. These spending reductions must be verifiable, permanent, and credible. This information must match the information provided in your Financial Impact Table. Projected additional income may not be used to offset increased ongoing spending because additional income is not allowed by statute. Please consider inflationary costs like salaries and maintenance fees when considering whether increased ongoing spending has been offset for at least five years after June 30th of your grant year. For applications without increased ongoing spending as documented in questions 11-14, please demonstrate how you can sustain the project without incurring any increased ongoing costs.

For educational service centers and county boards of developmental disabilities that are members of a consortium, any increased ongoing spending at the educational service center or county board of developmental disabilities may also be offset with the verifiable, permanent, and credible spending reductions of other members of the consortium. This increased ongoing spending must be less than or equal to the sum of the spending reductions for the entire consortium.

Explain in detail how this project will sustain itself for at least five years after June 30th of your grant year.

Since Midview Local School District will be able to save $8600 per month in energy costs. We will set aside money to grow and refurbish our Project Lead the Way STEM program. With $103,000 in energy savings we will spend about $35,000 (exact amount will depend on specific pricing and inventory at the time of purchase) for training teachers and purchasing supplies and materials for PLTW courses. We will utilize the other $35,000 to refurbish and replace computers and other technology in our STEM classes and other technology related student work; such as our computer labs. With this grant, the district will retrofit the lighting early in FY2015 so we can start moving forward with the phase in of these classes. Phase 1: Fiscal Year (FY) 2015 Money Saved: $27,740 Money Spent: $49,660 for the cost of Aerospace Engineering and Introduction to Engineering in our high school; Gateway to Technology Design and Modeling and Automation and Robotics in our middle school. Phase 2: FY 2016 Money Saved: $24,210 Money Spent: $78,990 for the cost Biomedical Sciences: Principles of Biomedical Sciences and Gateway to Technology for our 6th grade. Money will cover teacher training and the costs of materials and supplies. Phase 3: FY 2017 Money Saved: $57,678 Money Spent: $45,522 for the second Biomedical Science curriculum, Human Body Systems and to begin implementing the elementary Project Lead the Way program: Launch. We will start with the 5th grade. Phase 4: FY 2018 Money Saved: $62,080 Money Spent: $41,120 to cover the costs of the third Biomedical Science program: Medical Intervention and Launch into the 4th grade. Phase 5: FY 2019 Money Saved: $63,830 Money Spent: $39,370 to cover costs and training for the fourth Biomedical Science program: Biomedical Innovations and to implement Launch into grade 3. Phase 6: FY 2020- maintain courses/programs Money Saved: $71,700 Money Spent: $31,500 to cover recurring costs like PLTW licenses and replacement of equipment purchased in the first phase of this project. After FY 2019 we will continue implementing Launch into grades Kindergarten - 2nd until all grade levels have implemented Project Lead the Way. Because the life of the light bulbs is 25 years, we will then be able to utilize our $103,200 annual savings to reinvest in our classroom instructional technology and supplies. Starting year 15 we can begin setting aside money from the savings for replacement costs of the LED lights at the end of their life.

D) IMPLEMENTATION - Timeline, scope of work and contingency planning

16. Please provide a brief description of the team or individuals responsible for the implementation of this project, including other consortium members and/or partners.

This response should include a list of qualifications for the applicant and others associated with the grant. If the application is for a consortium or a partnership, the lead should provide information on its ability to manage the grant in an effective and efficient manner. Include the partner/consortium members’ qualifications, skills and experience with innovative project implementation and projects of similar scope.

Enter Implementation Team information by clicking the link below:

Add Implementation Team

For Questions 17-19 please describe each phase of your project, including its timeline, scope of work, and anticipated barriers to success.

A complete response to these questions will demonstrate specific awareness of the context in which the project will be implemented, the major barriers that need to be overcome and the time it will take to implement the project with fidelity. A strong plan for implementing, communicating and coordinating the project should be outlined, including coordination and communication in and amongst members of the consortium or partnership (if applicable). It is recognized that specific action steps may not be included, but the outline of the major implementation steps should demonstrate a thoughtful plan for achieving the goals of the project. The timeline should reflect significant and important milestones in an appropriate and reasonable time frame.

17. Planning - Activities prior to the grant implementation

* Date Range June and July 2014
* List of scope of work (activities and/or events including project evaluation discussions, communication and coordination among entities).

Midview Local School District's Implementation Team will need to coordinate schedules and facilities with building principals, classified staff, and athletic and music departments with the Energy Harness Corporation to ensure installation of LED lights is completed by October 2014. Energy Harness Corporation has already committed to working around the schedule of our students understanding that means they may need to work nights.

* Anticipated barriers to successful completion of the planning phase

Potential barriers include scheduling installation when facilities are being used or are inaccessible to Energy Harness workers. Other potential barriers could be delays in installation due to weather or other phenomenon. If unforeseen delays due occur Midview will adjust the planned implementation of Project Lead the Way courses to fit with the new time line. Another potential barrier could be if Energy Harness is wrong in its forecast of projected savings for the district. Although this is highly unlikely, the possibility does exist in case energy costs or other such costs should change. Midview would then adjust the scale of the implementation plan for STEM to coordinate with the actual money saved.

18. Implementation - Process to achieve project goals

* Date Range July 2014 - June 2019

* List of scope of work (activities and/or events, including deliverables, project milestones, interim measurements, communication, and coordination).


* Anticipated barriers to successful completion of the implementation phase.

Potential Barriers include delay in the installation of the LED lights that would cause us to realize fewer savings over the course of the first year. Another delay would be if we saw a significantly different savings than what the engineers reported. We would then adjust how many PLTW courses are implemented each year. The Energy Harness Corporation has plenty of data to support the promised savings Midview Local School District will acquire through this project. Another potential barrier is loss of trained PLTW teachers or staff choosing to not be trained. Fortunately, we do have many teachers that believe in PLTW and are willing to be trained. We as an administration would also make it a requirement for newly hired teachers. We will also use savings to have other building teachers trained to ensure students are receiving their STEM education. Scheduling courses for PLTW can be challenging. Our high school and middle school have already worked out schedules that ensure students will be able to take PLTW. The K-5 Launch curriculum will be embedded directly into the K-5 classrooms. The challenges here will be ensuring teachers take the on-line courses to become certified in providing the PLTW Launch program. Midview Local School District has built new elementary and middle school buildings that have ample room for the Project Lead the Way courses. The high school already has a dedicated STEM room for Pathway to Engineering and has a room that will be used for the Biomedical Sciences.

19. Summative Evaluation - Plans to analyze the results of the project

* Date Range July 2016 - July 2019

* List of scope of work (activities and/or events, including quantitative and qualitative benchmarks and other project milestones).

The first two years the evaluation of our grant will be internal. Our classified staff and administration will be working with Energy Harness to evaluate the installation of the LED lights. Once the cost savings have been collected and reallocated to the classroom through the Project Lead the Way and in all classrooms needing STEM instructional materials, Midview will begin an internal evaluation of the success of our STEMM program by examining district assessments and state standardized tests such as PARCC and ODE's next generation of assessments. We will then work with the Lorain County Community College (LCCC)as an external evaluator to measure the impact of the high school Project Lead the Way courses on student's post-secondary education decisions. Midview will purchase the Naviance program to provide needed data for the evaluation. Proposed evaluation questions include: What statistical impact does taking none; one, two, three, four or more PLTW course(s) in high school have on a student's decision to go to college? What statistical impact does taking none; one, two, three, four or more PLTW course(s) in high school have on a student's intention to major in a STEMM related field in college? What statistical difference does taking a GTT course in middle school have on a student's goals for after high school? What statistical difference does taking a GTT course at the middle school level have on a student's decision to take PLTW courses at the high school level? Midview will supply to the Lorain County Community College external evaluation team the needed data for them to analyze and then answer the above questions. LCCC will then package the data in an actionable manner to help Midview improve our STEMM program and results.

* Anticipated barriers to successful completion of the summative evaluation phase.

Barriers to the successful completion of the summative evaluation phase could be a lack of sufficient data or information to help us connect the statistical impact for students taking Project Lead the Way courses and their choices for Post-secondary education. Another potential barrier is if the Lorain County Community College, LCCC, would decide to charge too much money for the partnership. However, they have stated that they will work with us as part of their community outreach for the information we seek (questions outlined in the above scope of work) Anything more in depth may costs us additional money. Another potential barrier is a change in staffing at Midview or LCCC that may not understand the project and the objectives. Midview administration will work with District, Building, and Teacher Based Teams to ensure common goals and objectives are shared amongst all stake holders.

20. Describe the expected changes to the instructional and/or organizational practices in your institution.
The response should illustrate the critical instructional and/or organizational changes that will result from implementation of the grant and the impact of these changes. These changes can include permanent changes to current district processes, new processes that will be incorporated or the removal of redundant or duplicative processes. The response may also outline the expected change in behaviors of individuals (changes to classroom practice, collaboration across district boundaries, changes to a typical work day for specific staff members, etc.). The expected changes should be realistic and significant in moving the institution forward.

Please enter your response below:

In addition to the student's regular math and science classes, all students will have access to a STEM lesson or course in all grade levels. Kindergarten through 12th grade. Project Lead the Way courses will be courses students will take as part of their regular schedule during the school year. With the Project Lead the Way Launch lessons in grades Kindergarten through Fifth grade the actual lessons will be implemented into each students math and science curriculum across the course of the year. Teachers will work together with PLTW trained teachers to coordinate and plan when to implement the PLTW lessons. With Gateway to Technology, our Sixth through Eighth graders will be taking at least two and up to five 9 week courses. Students have traditionally had a computer class while cycling through Gym, Music, Art, and Technology. The GTT courses will replace some of the current outdated Technology curriculum to implement PLTW STEM project-based learning in all students' classes. These courses will be scheduled as part of the students’ “Specials” periods during their “Technology” class. We will work with Science staff to consider moving Energy and Environment into our 7th grade Science Curriculum if it aligns to ODE Science Standards. Midview High School already has three of PLTW’s Pathway to Engineering courses. Those three are Introduction to Engineering Design, Principles of Engineering and Digital Electronics. This grant will pay to train a teacher to replace our retiring PLTW high school teacher. It will also pay to have a current PLTW teacher trained to add Aerospace Engineering which is a good fit for us with our proximity to John Glenn NASA. This will allow students to take these courses in addition to any math courses they're taking. Midview High School's science department will be adding the Biomedical Engineering courses from PLTW. The principal will adjust the schedule so that as students complete the state mandated courses they will be able to take the four courses of Biomedical Engineering. The current plan is for students to complete Biology and Environmental Science their freshman and sophomore years and then to take the 4 courses of Biomedical Engineering in a “Blocked Schedule” lay out so students are getting two periods to complete the courses in two years time.

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

The responses in this section are focused on the ability to design a method for evaluating the project’s capacity for long-term sustainable results. Therefore, the questions focus on the method of defining the problem(s) the project hopes to solve and the measures that will determine if the problem(s) have been solved.

21. 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 response should provide a concise explanation of items which provide rationale that will support the probability of successfully achieving the goals of the project. Answers may differ based on the various levels of development that are possible. If the proposal is for a new, never before implemented project, the response should provide logical, coherent explanations of the anticipated results based on some past experience or rationale. For projects that have been implemented on a smaller scale or successfully in other organizations, the response should provide the quantifiable results of the other projects. If available, relevant research in support of this particular proposal should also be included.

Please enter your response below.

During the months of July 2013 to January 2014 Midview Local School District’s average monthly electrical bill was about $39,000. With the installation of LED lighting we will see about $8600 in savings per month or an average monthly electric bill of about $31,000. The life of these new bulbs is 25 years so we will see a sustained savings for at least two decades. We will use the savings to build our STEM program with Project Lead the Way. Independent research studies have proven that Project Lead the Way students outperform their peers in school, are better prepared for post-secondary studies, and are more likely to consider careers as scientists, technology experts, engineers, mathematicians, healthcare providers and researchers compared to their non-PLTW peers. A researcher from the University of Virginia, Dr. Robert Tai, and his team collected and analyzed over 30 research studies and reports on PLTW. Key insights: PLTW contributes to a strong, positive impact on mathematics and science achievement PLTW has a positive influence on student's career interest and likelihood to continue their education PLTW offers a pathway to prepare and motivate students to enter careers in science and engineering A clear strength of the PLTW program is the intensive teacher professional development program According to a survey of PLTW students at the end of their senior year, 70% indicated that they intend to study engineering, technology, computer science, or another applied science, and 93% intend to pursue at least a two-year or four-year degree after high school. A Texas State University researcher collected and analyzed six years of longitudinally-linked student data to compare thousands of PLTW students to their non-PLTW peers. He found that: PLTW enrollment in Texas has increased by over 400% over the last five years - Hispanic by over 500%; females nearly 600%; and low-income students by 650% PLTW students are more prepared for and attended Texas higher education institutions at a higher rate PLTW students scored higher on the state’s mathematics assessment Post-secondary institutions across the country are actively recruiting PLTW students and provide recognition opportunities such as preferred admissions, scholarships, and course credit. Several prestigious universities report high and increasing levels of PLTW student enrollment 60% of the 2013 incoming freshmen class at the University of South Carolina College of Engineering and Computing took PLTW in high school PLTW alumni account for over 45% of the students who were admitted in 2013 to the University of Minnesota's College of Engineering 38% of the Milwaukee School of Engineering's 2013 freshmen class previously took PLTW courses. The PLTW Gateway program was selected as one of nine Iowa STEM Scale-Up Programs by the Iowa Governor's STEM Council for 2013-2014. PLTW was one of seven programs to receive the @Scale endorsement from the Massachusetts Governor's STEM Advisory Council. Source: https://www.pltw.org/about-us/our-impact

22. Describe the overall plan to evaluate the impact of the concept, strategy or approaches used in the project.

This plan should include the methodology for measuring all of the project outcomes. Applicants should make sure to outline quantitative approaches to assess progress and measure the overall impact of the project proposal. The response should provide a clear outline of the methods, process, timelines and data requirements for the final analysis of the project’s progress, success or failure. The applicant should provide information on how the lessons learned from the project can and will be shared with other education providers in Ohio.
Mr. Peter Lehrer, Senior VP for Project Development with Energy Harness Corporation, 216-990-0044, will be in charge of completing the switch from our traditional lighting bulbs to the LED lighting. He will track and monitor our progress to ensure a timely completion of the project within budget. Mr. White, Director of Education for Midview Local School District, 440-748-5306, will be in charge of the internal evaluation of our STEMM program. He will use data from district assessments, state standardized tests such as PARCC and the ODE next generation assessments, and the Naviance program. Mr. White will then work with the District Leadership Team, Building Leadership Team, and Teacher Based Team members to make adjustments to our STEMM plan as needed to reach our district goals. Starting FY2016 the Lorain County Community College will partner with Midview as an external evaluator to determine the statistical impact of students taking either no, one, two, three, four or more Project Lead the Way courses on their choices for post-secondary education. Shara Davis, Dean of Research, Institutional Effectiveness, and Public Services with Lorain County Community College, will analyze Midview’s data to package it in an understandable and actionable report. Visobe Welch, Senior Research Project Manager with Lorain County Community College will be working with Mrs. Davis to ensure the completion of this project. Mrs. Davis can be reached at 440-366-7578 and Ms. Welch can be reached at 440-366-7416.

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 project’s progress).

Mrs. Nicole Spriggs, Treasurer Midview Local School District, 440-748-5353, will keep account of the cost savings from our the switching over to the LED lighting. She will monitor the money saved to ensure we’re realizing a cost savings and then reallocating funds back into the classroom and creating a savings in our 5 year forecast. Short term objectives will be measured by district created assessments, PARCC and ODE next generation assessments. We will begin collecting and measuring the data Fiscal Year 2015. But it will take a couple of years of data before we can start determining trends. Long term goals will be measured with the partnership of the Lorain County Community College. They will be given access to student data from Naviance to help us determine the statistical impact of students taking none, one, two, three, four or more Project Lead the Way courses on their decisions for post-secondary education. A researcher from the University of Virginia, Dr. Robert Tai, researched studies and reports and found that students taking PLTW courses were prepared and motivated to enter careers in science and engineering. Midview Local School District will be working to realize this same outcome for our students taking PLTW courses. If our external facilitators find that our implementation of PLTW is not having that impact then Midview will work with PLTW regional representative to make necessary changes to get the positive results. The PLTW representative is Leigh Ann McCray, Director of School Engagement, Midwest Region Ohio and West Virginia. lmccray@pltw.org PLTW has an assessment at the end of each course that all the students taking the course must take. We will use the results of that assessment to also determine the effectiveness of our PLTW program.

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

The response should provide specific quantifiable measures of the grant outcomes and how the project will lead to successful attainment of the project goals. Applicants should describe how the program or project will continue after the grant period has expired.

Please enter your response below.

Twenty-six students from the past two graduating classes participated in Midview Local School District’s Project Lead the Way courses and are now pursuing STEM education at the college level. We want to see that number grow by 10 every year over the next five years. We believe that will create a win-win scenario in which our students are earning sustainable degrees and we’re providing workers with the skills and knowledge companies and organizations in northeast Ohio need. Another lasting impact will be our students improved achievement in math and science. PLTW project-based learning courses will engage students into a deeper level of knowledge and understanding in math and science. Independent research studies have proven that Project Lead the Way students outperform their peers in school, are better prepared for post-secondary studies, and are more likely to consider careers as scientists, technology experts, engineers, mathematicians, healthcare providers and researchers compared to their non-PLTW peers. A researcher from the University of Virginia, Dr. Robert Tai, and his team collected and analyzed over 30 research studies and reports on PLTW. Key insights: PLTW contributes to a strong, positive impact on mathematics and science achievement PLTW has a positive influence on student’s career interest and likelihood to continue their education PLTW offers a pathway to prepare and motivate students to enter careers in science and engineering A clear strength of the PLTW program is the intensive teacher professional development program According to a survey of PLTW students at the end of their senior year, 70% indicated that they intend to study engineering, technology, computer science, or another applied science, and 93% intend to pursue at least a two-year or four-year degree after high school. Source: https://www.pltw.org/about-us/our-impact

24. Describe the specific benchmarks, by goal as answered in question 9, which 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.

The applicant should provide details on the quantifiable measures of short- and long-term objectives that will be tracked and the source of benchmark comparative data points. Responses should include specified measurement periods and preliminary success points that will be used to validate successful implementation of the project. If a similar project has been successfully implemented in other districts or schools, identification of these comparable benchmarks should be included.

* Student Achievement

Goals for high school passage rate for math and science standardized tests for college and career readiness and participation in STEM courses: 2016 2017 2018 2019 Math 67% 77% 85% 90% Science 42% 55% 65% 80% Students in PLTW 36 50 65 80 We will use the
Naviance to track how many students are choosing STEMM majors at the college level. Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. Naviance provides schools with the information to track student's college and career ready goals and whether or not students are achieving them. We will use Naviance to collect quantitative data on student performance and outcomes in their college level STEMM classes. Naviance provides a career interest inventory that allows students to create a plan for their futures by helping them discover their strengths and learning styles and explore college and career options based on their results. 

Our goal is by the spring of 2019 90% of all Midview students in grades 3-8 will be college and career ready based on PARCC and Ohio's Next Generation of Assessments. 2016 2017 2018 2019 3rd Grade Math 80% 84% 87% 90% 4th Grade Math 80% 84% 87% 90% 5th Grade Math 80% 84% 87% 90% 6th Grade Math 80% 84% 87% 90% 7th Grade Math 80% 84% 87% 90%

* Spending Reduction in the five-year forecast

The spending reduction in the five-year forecast will be as follows: FY 2016: $24,210 FY 2017: $57,678 FY 2018: $62,080 FY 2019: $63,830 FY 2020: $71,700 Giving Midview Local School District a combined savings of $279,498 over the next five years. The money saved as part of our five-year fiscal forecast comes from the money saved with our electric bill. That annual savings will be $103,200. Part of that money will be used for a greater share of resources in the classroom. The other part will be used for spending reduction in the five-year forecast. Phase 1: Fiscal Year (FY) 2016 Money Saved: $24,210 Phase 2: FY 2017 Money Saved: $57,678 Phase 3: FY 2018 Money Saved: $62,080 Phase 4: FY 2019 Money Saved: $63,830 Phase 5: FY 2020 Money Saved: $71,700

* Utilization of a greater share of resources in the classroom

The utilization of the greater share of resources back into the classroom will be as follows: Fiscal Year 2015: $49,660 Fiscal Year 2016: $78,990 Fiscal Year 2017: $45,522 Fiscal Year 2018: $41,120 Fiscal Year 2019: $39,370 The details for the what those costs will be are as follows: Phase 1: Fiscal Year (FY) 2015 Money going back into the classroom: $49,660 for the cost of Aerospace Engineering and Introduction to Engineering in our high school; Gateway to Technology Design and Modeling and Automation and Robotics in our middle school. Phase 2: FY 2016 Money going back into the classroom: $78,990 for the cost Biomedical Sciences: Principles of Biomedical Sciences and Gateway to Technology for our 6th grade. Money will cover teacher training, the costs of materials and supplies, and reoccurring cost. Phase 3: FY 2017 Money going back into the classroom: $45,552 for the second Biomedical Science curriculum, Human Body Systems and to begin implementing the elementary Project Lead the Way program: Launch. We will start with the 5th grade. This also accounts for reoccurring cost from the previous year. Phase 4: FY 2018 Money going back into the classroom: $41,120 to cover the costs of the third Biomedical Science program: Medical Intervention and Launch into the 4th grade and reoccurring cost from the previous year. Phase 5: FY 2019 Money going back into the classroom: $39,370 to cover costs (including reoccurring) and training for the fourth Biomedical Science program: Biomedical Innovations and to implement Launch into grade 3. After FY 2019 Midview Local School District will keep building the Launch program into grade K-2 to have a complete K-12 STEM program with PLTW. In 2020, money going back to the classroom: $31,500 for reoccurring costs and replacement of Phase 1 equipment.

* Implementation of a shared services delivery model

N/A

* Other Anticipated Outcomes

An anticipated outcome that may be difficult to benchmark is the students attitude toward STEMM - Science, Technology, Engineering, Mathematics and Medicine. Traditional instructional practices by math and science teachers can lead toward a negative attitude on the part of students toward math and science. With the project-based learning courses and lessons from PLTW we anticipate a growing positive attitude and enjoyment of applied math and science in our PLTW courses. Another hope that will not be easily benchmarked is the attitude of our parents and community members toward our school and district. A recent county poll showed that Midview Local School District residents already believe K-12 education is improving. We hope that with the implementation of our STEMM program to demonstrate that our district is not only improving but that we are a leader in preparing our students for the future while meeting the needs of local businesses.

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

Yes

If the applicant selects "Yes" to the first part of the question, the response should provide an explanation of the time and effort it would take to implement the project in another district, as well as any plans to share lessons learned with other districts. To every extent possible, applicants should outline how this project can become part of a model so that other districts across the state can take advantage of the learnings from the proposed innovative project. If there is a plan to increase the scale and scope of the project within the district or consortium, it should be included here.

* Explain your response

Yes. A district must find the upfront money to pay for replacing their lighting system with Energy Harness's LED lights. Once that is completed the district can use it's savings to build and replenish a STEMM program through Project Lead the Way. The time and effort to do this depends on staffing and current technology resources. For example, a district with laptops and devices that meet the requirements of PLTW would not have to allocate the money to purchase those devices. A district without those devices would have to plan on purchasing them, storage, etc. The district would have to make many local decisions about who will teach PLTW and when students will take PLTW courses. Midview Local School District will be happy to share how we started our first PLTW high school courses just five years ago. Then our plan to build on those courses and how we are implementing corresponding PLTW courses in our K-12 classrooms including adding Biomedical Engineering at our high school.

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 time frame. The Governing Board of the Straight A Fund reserves the right to conduct an evaluation of the project and request additional information in the form of data, surveys, interviews, focus groups and other related data on behalf of the General Assembly, Governor and other interested parties for an overall evaluation of the Straight A Fund.
PROGRAM ASSURANCES: I agree, on behalf of this applicant, and any or all identified consortium members or partners, that all supporting documents contain information approved by a relevant executive board or its equivalent and to abide by all assurances outlined in the Straight A Assurances (available in the document library section of the CCIP).

I accept. Mr. Scott Goggin, Superintendent of Midview Local School District. Mr. Dan White, Director of Education of Midview Local School District. Mrs. Nicole Spriggs, Treasurer Midview Local School District April 17, 2014
No consortium contacts added yet. Please add a new consortium contact using the form below.
<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Telephone Number</th>
<th>Email Address</th>
<th>Organization Name</th>
<th>IRN</th>
<th>Address</th>
<th>Delete Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shara</td>
<td>Davis</td>
<td>440-366-7578</td>
<td><a href="mailto:sdamis@lorainccc.edu">sdamis@lorainccc.edu</a></td>
<td>Lorain County Community College</td>
<td></td>
<td>1005 North Abbe Road, Elyria, OH, 44035</td>
<td></td>
</tr>
<tr>
<td>Peter</td>
<td>Lehrer</td>
<td>216-990-0044</td>
<td><a href="mailto:peter@energyharness.com">peter@energyharness.com</a></td>
<td>Energy Harness</td>
<td></td>
<td>1110 NE Pine Island Rd #18, Cape Coral, Florida, 33909</td>
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## Implementation Team

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<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Title</th>
<th>Responsibilities</th>
<th>Qualifications</th>
<th>Prior Relevant Experience</th>
<th>Delete Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan</td>
<td>White</td>
<td>Director of Education of Midview Local School District</td>
<td>Mr. White will be responsible for commitment and fidelity by the district to the grant. He will bring stakeholders together to develop evaluations of the program. Mr. White will also be responsible for making necessary changes to maintain fidelity to the grant and ensure the success of Midview's STEM program.</td>
<td>Director of Education Midview Local School District 2013 - Present ? Internal Facilitator for Ohio Improvement Process ? Ohio Teacher Evaluation System Committee Leader Director of Curriculum and Instruction Keystone Local School District &amp; Academic Supervisor Educational Service Center Lorain County 2010 - Present ? Led teams of administrators and teachers through instructional and curriculum best practices to guide district to an Excellent With Distinction state rating ? District professional development leader for Formative Instructional Processes, curriculum mapping to the Ohio's New Learning Standards, development of high quality assessments, and creating Student Learning Objectives for new teacher evaluations ? Worked with elementary team to align math curriculum to the Common Core Standards ? Teamed with high school staff to expand PSEO and AP opportunities for students ? Working with district principals to pilot new OTES using eTPES system ? Collaborate with Director of Special Education, Gifted and Talented Coordinator and principals and teachers to meet the learning needs of all our students ? Race to the Top district chairmen, author of whole grant and Application Area Monitor ? Ohio Improvement Process Internal Facilitator ? District Leadership Team Facilitator ? KES, KMS, KHS Building Leadership Team Co-Facilitator ? Title One Coordinator ? District Test Coordinator ? District Value Added Leader</td>
<td>Dan has a history with STEM. He was a 3rd, 5th, and 6th grade Science and Math Teacher for Ashland City Schools. While the Director of Curriculum and Instruction for Keystone Local School District he successfully wrote a grant to the Nord Family Foundation to bring Gateway to Technology to their middle school. He then oversaw the implementation of the program and completed all reports and documentation for the Nord Family Foundation. Teacher Ashland City Schools 1999-2008 Third Grade 1999-2003 ? Co-taught self-contained classroom with Special Needs children Fifth Grade 2006-2008 ? Science and Social Studies Inclusion Class Sixth Grade 2005-2008 ? ELA, Math, Science and Social Studies in co-taught and self-contained inclusion class ? Monitored student achievement with DIBELS, Basic Reading Inventory (BRI), Woodcock Johnson, and AIMSweb. Created and used Short Cycle and Common Assessments</td>
<td></td>
</tr>
<tr>
<td>Nicole</td>
<td>Spriggs</td>
<td>Treasurer Midview Local School District</td>
<td>Mrs. Spriggs will be responsible for budgeting and allocating funds saved from the costs of our electric bill directly into our classrooms. She will ensure funds are spent to steadily build our STEM program through Project Lead the Way while they are also used to replace or restore other classroom STEM instructional needs.</td>
<td>Master Degree of Business Administration. Baldwin Wallace College Program Emphasis - Human Resources Bachelor of Science in Business Administration. Ashland University Major - Finance Minor - Accounting Associate Degree. Lorain Business College with an area of concentration in Accounting</td>
<td>Mrs. Spriggs has been a school treasurer in three different public schools before coming to Midview. She has almost twenty years of experience. She was the treasurer for: Treasurer Monroeville Local Schools: 1997-1999 Treasurer Norwalk City Schools: 1999-2000 Assistant Treasurer for Edison Local Schools: 2000-2005 Treasurer Edison Local Schools 2005-2012. She has been the treasurer for Midview Local School District for a little over a year now.</td>
<td></td>
</tr>
<tr>
<td>Peter Lehrer</td>
<td>Senior VP for Project Development</td>
<td>Responsible for design, coordination and installation of commercial LED lighting projects</td>
<td>Responsible for design, coordination and installation of commercial LED lighting projects In last three years have completed numerous installations for: city street lighting schools gas stations convenience stores shopping plazas grocery stores parking garages self-storage facilities retail stores manufacturing facilities</td>
<td>35 years residential and commercial building contractor Designed and managed projects up to $12M</td>
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<tr>
<td>Scott Goggin</td>
<td>Superintendent</td>
<td>Ensure that the cost savings from the LED lighting project will be allocated to the STEM program / PLTW and cost saving for the five year forecast.</td>
<td>Doctoral Candidate, Educational Leadership, Ashland University Master's Degree, School Administration, Ashland University Master's Degree, Rehabilitation Counseling, Kent State University Bachelor's Degree, Special Education, Bowling Green State University</td>
<td>Superintendent, Midview Local Schools Director of Education, Midview Local Schools Middle School Principal, Midview Local Schools Assistant Principal, Midview High School Job Training Coordinator, Lakewood High School Special Education Teacher, Lakewood High School</td>
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