

Budget

Western Brown Local (046060) - Brown County - 2015 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (38)

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

Purpose Code	Object Code	Salaries 100	Retirement Fringe Benefits 200	Purchased Services 400	Supplies 500	Capital Outlay 600	Other 800	Total
Instruction		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Support Services		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Governance/Admin		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prof Development		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Family/Community		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Safety		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Facilities		0.00	0.00	0.00	0.00	810,425.00	0.00	810,425.00
Transportation		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.00	0.00	0.00	0.00	810,425.00	0.00	810,425.00
Adjusted Allocation								0.00
Remaining								-810,425.00

Application

Western Brown Local (046060) - Brown County - 2015 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (38)

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

A) APPLICANT INFORMATION - General Information

1. Project Title:
Making Student Technology a Priority through Facility Modernization and Energy Conservation

2. Executive summary: Please limit your responses to no more than three sentences.

The Western Brown Local School District (WB) is dedicated to increasing instructional technology to better meet our digital learners' needs and provide teachers more opportunities to integrate 21st century technology into their teaching. WB has embedded many cost saving initiatives across the district in order to protect the quality of education, for example; a reduction in energy consumption through a behavioral program by 26.61% over the past three years amounting to \$536,970. This proposed grant project would allow the district to expand this energy program, reducing its energy consumption even further with modern and more efficient facilities. The installation of an Encelium Lighting Control System, interior light bulb retrofit and exterior LED lighting retrofit will result in substantially lower electric and maintenance bills and positively impact the five-year forecast allowing the district to create and permanently fund a technology budget that will give students and teachers access to the resources they must have to achieve and be college or career ready.

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.

3067 3. Total Students Impacted:

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:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Pre-K Special Education | <input checked="" type="checkbox"/> Kindergarten |
| <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 |
| <input checked="" type="checkbox"/> 3 | <input checked="" type="checkbox"/> 4 |
| <input checked="" type="checkbox"/> 5 | <input checked="" type="checkbox"/> 6 |
| <input checked="" type="checkbox"/> 7 | <input checked="" type="checkbox"/> 8 |
| <input checked="" type="checkbox"/> 9 | <input checked="" type="checkbox"/> 10 |
| <input checked="" type="checkbox"/> 11 | <input checked="" type="checkbox"/> 12 |

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

First Name, last Name of contact for lead applicant
Roger, Taylor

Organizational name of lead applicant
Director of Operations and Transportation

Address of lead applicant
524 West Main, Mt. Orab, Ohio 45154

Phone Number of lead applicant
937-444-2044

Email Address of lead applicant
roger.taylor@wb.k12.oh.us

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

Yes

No

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

Western Brown Local Schools has faced several budgetary challenges the past several years. The district has drastically reduced staff, cut transportation to several families and endured the failure of an operating levy. The district serves the Mt. Orab and Hamersville communities. As a district, 50% of students receive free lunch while 7% receive reduced price lunches. Our budget cannot address the technology needs of our students and staff nor does it provide a way for us to modernize our facilities in order to be efficient and consume less energy. Each year WB's Board of Education discusses how we can address this issue. We have proven that we can successfully implement a energy behavioral program that helps in cost avoidance, but without modernizing some of our facilities, we cannot move forward in our endeavors to get technology integrated into classrooms and into students' hands.

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

This project will help solve three problems that Western Brown Local Schools is currently facing. The first problem being the substantial cost of providing students with the modern technology needed for digital learners and 21st century college and career readiness. The second problem being the rising cost of electricity and the negative impact it has on the district utility budget and five-year forecast. The third second problem being the cost of lamp/ballast changes of the existing parking lot lighting and the associated safety/security issues of unlit or improperly illuminated exterior lighting. The third problem being the substantial cost of providing students with the modern technology they must have to achieve and compete globally. The necessity for new technology is even more pressing with next generation assessments. The Western Brown Local School District has reduced its energy consumption through a behavioral program by 26.61% over the past three years amounting to nearly \$536,970. This proposed project would allow the district to expand the program and reduce its energy consumption even further with modern and more efficient facilities. The installation of an Encelium Lighting Control System, interior light bulb retrofit and exterior LED retrofit will result in substantially lower electric bills and positively impact the five-year forecast allowing the district to create and permanently fund a technology budget. The district will continue with our behavioral program which reduces energy consumption and with this grant, modernize our facilities for efficiency. WB will also track the energy savings using a program called EnergyCAP. The district has used the software for three years and it has proven to be accurate in its ability to track and monitor electric, gas, water and sewage savings. Every utility bill is entered and the program adjusts for weather. The impact of this grant on the district would be substantial as the lighting retrofit would take place in every school building-impacting every employee and student on campus. The cost avoidance from the lighting retrofit would be sustainable and snowball years into the future. Both local newspapers will be notified and the relationship the district has with both newspapers will certainly make known to the surrounding area that the capital set aside for the Straight A Fund is being used to benefit local students. The savings will be devoted directly to instructional technology that would be put into the hands of Western Brown students and teachers. Through professional development and collaborative sessions, teaching and learning will be better aligned to 21st century needs. Classrooms will become blended learning environments in which students and teachers are not limited to four walls or to traditional barriers.

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, content areas as appropriate) in the box below.)

The hope for the impact of the grant is to use instructional technology as a catalyst for teaching and learning 21st Century learning skills in classrooms. The district will revise its existing technology plan and budget to better meet teacher and student needs, and address priority areas determined through a district wide technology survey. In order to enable all students, it is imperative that we, as educators improve our instruction. Learning begins with good teaching so teachers must have the skills and knowledge needed to move to a blended approach to instruction. In a 2009 tech survey administered to students, 82.5% said that they learn more when technology is used in their classroom. Our goals for integrating technology into classroom instruction are: students will become self-actualized learners, all students have equal access to technology, learn in student centered environments, and to provide an inquiry based learning environment where students explore the world around them for answers using higher level thinking and learning. Student achievement will be determined through four specific measurements. State assessments, Vender assessments in reading, math, and possibly science and social studies, and teacher created assessments used in the SLO process. Our annual student survey will also be used to measure student perspectives and satisfaction.

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.)

If funding is made available, IES will immediately begin the project. As a result of the \$810,425 project, it is expected that the district will save \$111,230 annually. The \$111,230 will provide relief to the five-year forecast and be directly devoted to the creation of an annual student technology budget. A technology committee (IT dept., principals, teachers, district office personnel and students) will be established to maintain and oversee expenditures. The district will save energy in all three phases of the upgrade. Implementing the lighting retrofit will reduce overall consumption 12.5% which results in a savings of \$100,230, along with \$11,000 in maintenance savings, totaling \$111,230. The Encelium Lighting Control system will allow for a reduction of time lights are left on by 25% based upon occupancy sensing and time of day control. The lighting control system also provides verification of system operation and energy savings analytics through the Polaris3D software package. From a single website the district can monitor and adjust settings to maximize lighting controls. The current exterior lighting system is utilizing 422.013 kWh of power each year. Retrofitting this to LED will result in a system that utilizes 80% less energy while improving overall lighting quality which correlates to an annual savings of 339,143 kWh and a savings of \$33,914 per year. In addition the lighting system will move from lamps with 16,000 hour life to a system with 100,000+ hours of life. Based upon operation of 3,000 hours per year, that means 18% of the current luminaires have maintenance completed on them per year. At an average cost of \$85 to change a lamp that results in a savings of \$4,500 per year. Combining all of these energy and maintenance saving mandates results in a yearly costs savings of \$111,230 per year which will be immediately available for use in the technology fund.

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.)

WB will strive to meet the needs of students and teachers through providing equal access to instructional technology, increasing learning opportunities to further development in utilizing technology, and provide extra support for all levels of learners, including staff and students. All teachers will be given their choice for instructional technologies (ipad, surface, etc) used in their teaching and provided professional development on best practices using their technology. PK - 12 collaborative teams, (WB's TDTs Teacher Data Teams) will be utilized for peer support and discussions which helps in the change process. WB TechTeach grants (district grants provided in past when funding available) will also be available for teachers that are interested in receiving more specific technologies for their classrooms and students, (examples; student responder systems, interactive whiteboards, document cameras, smart tables, etc.) WB will add lab techs that not only provide classes for students but also support teachers in their learning. All building have recently been equipped with updated stationary labs but mobile labs would benefit student learning in classrooms. WB would also like to implement a one to one practice for Juniors and Seniors in high school so devices can be taken home and used for learning and accessing content resources. One strategy that would greatly effect all students from PK 12 is providing technology courses that all students would take throughout school such as: basic keyboarding, Microsoft office practicum, computer basics, etc. Staff would be needed to teach the courses in each building and support technology activities across the district.

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.)

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)

[Enter Budget](#)

* If applicable, upload the Consortium Budget Worksheet (by clicking the link below)

* Upload the Financial Impact Table (by clicking the link below)

* Upload the Supplemental Financial Reporting Metrics (by clicking the link below)

[Upload Documents](#)

For applicants without an ODE Report Card for 2012-2013, provide a brief narrative explanation of the impact of your grant project on per pupil expenditures or why this metric does not apply to your grant project instead of uploading the Supplemental Financial Reporting Metric.

The project budget is entered directly in CCIP. For consortia, this project budget must reflect the information provided by the applicant in the Consortium Budget Worksheet. Directions for the Financial Impact Table are located on the first tab. Applicants must submit one Financial Impact Table with each application. For consortium applications, each consortium member must add an additional tab on the Financial Impact Tables. Partners are not required to submit a Financial Impact Table.

Applicants with an "Ohio School Report Card" for the 2012-2013 school year must upload the Supplemental Financial Reporting Metrics to provide additional information about cost savings and sustainability. Directions for the Supplemental Financial Reporting Metrics are located on the first tab of the document. If your organization does not have an "Ohio School Report Card" for the 2012-2013 school year, please provide an explanation in the text box about how your grant project will impact expenditures per pupil or why expenditure per pupil data does not apply to your grant project.

Educational service center, county boards of developmental disabilities, and institutions of higher education seeking to achieve positive performance on other approved fiscal measures should submit the budget information approved by an executive board or its equivalent on the appropriate tabs of the Financial Impact Table. Educational service centers should use the "ESC" tab and county boards of developmental disabilities and institutions of higher education should use the "non-traditional" tab.

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.

810,425.00 State the total project cost.

* Provide a brief narrative explanation of the overall budget.

The overall budget for this project will be a single contract awarded to Innovative Energy Solutions in the amount of \$810,425 for all material, labor and commissioning costs. This funding will come from the Straight A Fund program. The interior lighting retrofit includes the cost of retrofit kits with long life 28W T8 lamps, labor to remove existing lamps, environmentally safe disposal of old lamps and the labor to install the new retrofit kit. The cost to retrofit all applicable luminaires is \$333,625. The Encelium Lighting Control system includes the cost of material including infrastructure components, occupancy sensors, distributed relays and low voltage switches. This also includes the labor for installation of system, startup programming and training. Innovative Energy Solutions will also provide six and twelve month continuing service to adjust settings and verify energy saving results. This portion will cost \$268,300. The exterior lighting LED retrofit includes the cost of removing the existing luminaire and replacing them with a new energy saving LED luminaire of comparable style. There are currently 107 wall mounted lights, 111 pole mounted lights and 75 recessed downlights that will be replaced. The total cost of material and labor for this will be \$208,500.

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.

Yes - If yes, provide a narrative explanation of your sustainability costs as detailed in the Financial Impact Table in the box below.

No - If no, please explain why (i.e. maintenance plan included in purchase price of equipment) in the box below.

No. Once the project is implemented and the grant has expired, the Encelium Lighting Control System, lamp retrofit and exterior LED lighting retrofit renovation will continue to save the district money with zero ongoing costs. In fact, the district will save additional dollars in maintenance costs from replacing all the interior lighting with new long life lamps and replacing the exterior lighting with long life LED. The savings will grow larger year after year as utility and maintenance costs increase with inflation that will allow the funding of the new technology budget to increase as well. This will allow the district technology oversight committee to keep up with technological advances.

14. Will there be any expected savings as a result of implementing the project?

Yes

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.

111,320.00 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

Yes, \$111,230 expected savings the first year with a continuing increase in savings based upon utility and maintenance cost inflation. If funding is made available, IES will immediately begin the project. As a result of the \$810,425 project, it is expected that the district will save \$111,230 annually. The \$111,230 will provide relief to the five-year forecast and be directly devoted to the creation of an annual student technology budget. A technology committee (IT dept., principals, teachers, district office personnel and students) will be established to maintain and oversee expenditures. The district will save energy in all three phases of the upgrade. Implementing the lighting retrofit will reduce overall consumption 12.5% which results in a savings of \$100,230, along with \$11,000 in maintenance savings, totaling \$111,230. The Encelium Lighting Control system will allow for a reduction of time lights are left on by 25% based upon occupancy sensing and time of day control. The lighting control system also provides verification of system operation and energy savings analytics through the Polaris3D software package. From a single website the district can monitor and adjust settings to maximize lighting controls. The current exterior

lighting system is utilizing 422.013 kWh of power each year. Retrofitting this to LED will result in a system that utilizes 80% less energy while improving overall lighting quality which correlates to an annual savings of 339,143 kWh and a savings of \$33,914 per year. In addition the lighting system will move from lamps with 16,000 hour life to a system with 100,000+ hours of life. Based upon operation of 3,000 hours per year, that means 18% of the current luminaires have maintenance completed on them per year. At an average cost of \$85 to change a lamp that results in a savings of \$4,500 per year. Combining all of these energy and maintenance saving mandates results in a yearly costs savings of \$111,230 per year which will be immediately available for use in the technology fund.

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.

Once the project is implemented and the grant has expired, the Encelium Lighting Control System, lamp retrofit and exterior LED retrofit will continue to save the district money with zero ongoing costs. In fact, the district will save additional dollars in maintenance costs by reducing the amount of time required to maintain the long life fluorescent lamps and exterior LED luminaires. The Encelium Lighting Control System will provide sustainability in the future as a platform for advanced lighting controls. As improvements in luminaire technology improve with both energy efficiency and dimming technology, the district has the control infrastructure in place to reduce lights levels based upon occupant need or utility demand reduction. Both of these functions will allow the district to reduce energy costs even lower or allow easy implementation for utility rebate programs that will have limited impact on student learning environment. The savings will grow incrementally based upon inflation each year and the funding of a technology budget with oversight from a district committee will be permanent.

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 time line should reflect significant and important milestones in an appropriate and reasonable time frame.

17. Planning - Activities prior to the grant implementation

* Date Range 4/16/14 - 08/01/14

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

This proposal aims to achieve three specific goals. The first is to reduce utility and maintenance expenditures to provide long-term and sustainable relief to the five-year forecast. The second is to put more technology resources into the hands of students. The third is to increase student achievement through the use of new technologies and learning opportunities. Western Brown currently has a partner services agreement with Innovative Energy Solutions (IES) for preventative maintenance of the districts HVAC systems. This partnership has been in place for more than a decade and IES has completed several large-scale projects for the district including the installation of the district Energy Management System (EMS). The EMS is used for control of HVAC and parking lot lights. If funding is made available, IES will immediately begin the installation of an Encelium Lighting Control System, bulb renovation and LED luminaire retrofit. As a result of the \$810,425 project, it is expected that the district will save \$100,230 annually off its Duke Energy electricity bills and avoid \$11,000 in annual maintenance expenditures. The \$111,230 will provide relief to the five-year forecast and be directly devoted to the creation of an \$111,230 annual student technology budget. A technology committee (IT dept., principals, teachers, district office personnel and students) will be established to maintain and oversee expenditures. Specific focus will be placed on acquiring technologies that directly impact the classroom environment, enhance student learning and prepare the district for next generation assessments. IES has agreed to begin installation once a grant reward letter is received. Installation of the interior lighting retrofit would take place in the evenings while no students are in the buildings. Exterior LED luminaire retrofit would take place during the day to minimize disruption of exterior lighting. The Encelium Lighting Control System Installation will take place

* Anticipated barriers to successful completion of the planning phase

Our planning has been completed due to our groundwork and research conducted for our past energy savings projects and this grant's requirements. Exterior LED luminaire retrofit would take place during the day to minimize disruption of exterior lighting. The Encelium Lighting Control System Installation will take place while school is out of session due to periods of time that lighting control may not be available to teachers in classrooms. A working relationship already exists between IES and Western Brown. Therefore, a great deal of the uncertainty of such a project has been eliminated as IES has completed large-scale projects for the district in the past.

18. Implementation - Process to achieve project goals

* Date Range 08/02/14-09/15/14

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

Completion of this project is expected to be aggressive and will begin immediately upon a grant award letter being received. IES has already completed a thorough survey of our existing facilities and created an implementation plan that will allow them to hit the ground running in beginning work. Based upon previous installations IES is giving a schedule that is achievable.

* Anticipated barriers to successful completion of the implementation phase.

A great deal of the installation can occur prior to the beginning of school. However, work may need to be completed in the evenings once the 2014 - 2015 school year begins.

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

* Date Range 09/16/14 - 09/16/22

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

The savings from this project will be measured using the EnergyCAP software. The financial return on investment for the project is 7.3 years ($\$810,425 / \$111,230 = 7.28$). However, the impact on student learning through the acquisition of new technology and enhanced staff professional development will be immediate.

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

The return on investment is measured using 2014 dollars. Due to inflation, the saving achieved through the project will likely be greater than \$111,230.

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:

Several significant changes will result from being awarded Straight A funding. First, the new lighting technology will result in lower electric bills. Second, the maintenance team will have more time to devote to other endeavors because they will not be replacing bulbs as frequently. Third, several of the districts short and long-term technology needs will be met through the savings. In the short-term, The district will be able to better equip student and staff with the skills and knowledge needed to utilize instructional technology. prepare itself for next generation assessments. In the long-term, technology will also become a funded priority. A district committee team will be developed and the dollars devoted to the technology fund will be monitored closely and used strategically to best prepare Western Brown students for college and career. This will be a positive change in that WB has never been able to formally address and plan for technology needs. The district has been awarded short-term technology grants in the past and has been given free declassified computers from the Department of Defense. However, the district has never been able to devote funds annually to make the impact on classroom learning the way it could with the savings realized from the Encelium Lighting Control System, interior lamp retrofit and exterior LED luminaire retrofit. In summary, the district will measure energy savings, devote the savings to technology and provide its students with a more enriched educational experience that will prepare them for college and career.

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.

Western Brown has been searching for ways of providing additional funding for technology through creative initiative programs. Based upon our successful implementation of the 21st Century ARRA Technology grant, the district and students understand the positive impact technology can be on student learning and in creating engaging classroom environments. The relationship with IES and the reputation they have in the marketplace Western Brown engaged IES them to do an energy survey of facilities to determine some best applications for energy reduction. They proposed the solutions talked about in the application: interior lighting fluorescent retrofit, the Encelium Lighting Control System and an exterior LED lighting retrofit. These solutions provided great energy savings of 40-50% of current lighting demand requirements. Applying all of these techniques would require an upfront cost that would have a simple payback period of 7-8 years. These conservative estimations were based upon other school districts such as Felicity-Franklin that IES had done work with in the past and correlated to the needs of Western Brown Local Schools. Waiting for seven to eight years to fund a technology initiative at the school was not acceptable since current students needed access to current technology today. In working with the Straight A Fund program the district wants to achieve the best of both worlds by applying the grant money today to reduce the five-year fiscal forecast by \$111,230 dollars per year and in turn provide a fund that a district technology committee can use to research and implement improvements to technology curriculum to prepare students for a digital world in college and careers.

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.

* Include the name and contact information of the person who will be responsible for conducting the evaluation and whether this will be an internal or external evaluation.

Roger Taylor, lead applicant, will oversee and evaluate the grant project internally. Roger Taylor, Director of Operations and Transportation Western Brown Local Schools 524 West Main, Mt. Orab, Ohio 45154 937-444-2044 ext 25020 roger.taylor@wb.k12.oh.us

* 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).

The electric utility savings will be measured on a monthly basis using EnergyCAP software. The cost avoidance and savings data will be shared monthly with faculty and placed on the district website for all stakeholders to view. The district will begin to see the savings immediately and it will begin tracking the savings upon completion of the project. The district will then compile the twelve monthly reports into an annual report that will detail exactly how much is saved as a result of the project. Additionally, the director of operations & transportation will closely monitor maintenance expenditures and track savings found from not needing to replace broken bulbs on a frequent basis.

* Include the method, process and/or procedure by which the project will modify or change the project plan if measured progress is insufficient to meet project objectives.

The expected savings have been calculated conservatively through a comprehensive facility audit and the installation of an Encelium Lighting Control System, interior light bulb retrofit and exterior LED retrofit will deliver the results expected. However, the worst case scenario would be if the savings from the project did not reach the expected \$111,230 annually. If this occurs, IES will first be contacted to examine the new system and to make sure it is performing as expected. As a last resort, the \$111,230 budgeted for student technology could be modified to match the actual savings. However, the installation of an Encelium Lighting Control System, interior light bulb retrofit and exterior LED retrofit has proven to be effective in other school districts and modification is not expected to be necessary. Completion of the project will be no relatively fast and the lessons learned from the project can and will be shared with other education providers in Ohio.

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.

This project will have a lasting impact long after the grant period has expired. The substantial value of the Encelium Lighting Control System, lamp retrofit and exterior LED lighting retrofit renovation will continue to save the district money with zero ongoing costs. In fact, the district will save additional dollars in maintenance costs from replacing all the interior lighting with new long life lamps and replacing the exterior lighting with long life LED. The savings will grow larger year after year as utility and maintenance costs increase with inflation that will allow the funding of the new technology budget to increase as well. This will allow the district technology oversight committee to keep up with technological advances and . The \$111,230 set aside annually for student technology will allow the district to explore educational opportunities that are currently not available to its students. Western Brown Local Schools has faced several budgetary challenges the past several years. The district has reduced staff, cut transportation to several families and endured the failure of an operating levy. As a district, 50% of students receive free lunch while 7% receive reduced price lunches. The utility dollars saved and the technology funds that will come as a result of this project will change the lives of students that enter the doors of Western Brown Local Schools.

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

Western Brown will continue to collect and analyze student achievement data from state and local assessments. Performance measures are as follows: 1. Students in K-2 taking STAR reading will meet an average of 35 SGP on the STAR Reading with a 2 pt average gain each year

after. 2. Students in K-2 taking STAR math will meet an average of 35 SGP on the STAR Reading with a 2 pt average gain each year after. 3. Students in 3 - 8 will meet the 80% OAA reading goal with a 2 pt gain each year after. 4. Students in 3 - 8 will meet the 80% OAA math goal with a 2 pt gain each year after. 5. Students in 10th grade passing all OGTs will increase in SY15 and each year after until End of Course exams are administered.

*** Spending Reduction in the five-year fiscal forecast**

The installation of an Encelium Lighting Control System, interior light bulb retrofit and exterior LED retrofit will result in substantially lower electric bills and positively impact the five-year forecast allowing the district to create and permanently fund a technology budget. The district will also track the energy savings using EnergyCAP. The software has been used for two years and it has proven to be accurate in its ability to track and monitor electric, gas, water and sewage savings. Every utility bill is entered and the program adjusts for weather. The impact of this grant on the district would be substantial as the lighting retrofit would take place in every school building-impacting every employee and student on campus. In summary, the cost avoidance from the lighting retrofit would be sustainable and benchmarked using the EnergyCAP software. The \$111,230 in utility savings will result in savings to the five-year fiscal forecast. The savings will then be used to fund the technology budget and provide more resources for students at the classroom level.

*** Utilization of a greater share of resources in the classroom**

Western Brown will continue administering annual stakeholder cultural and technology surveys to monitor satisfaction and perspective data. At this time the technology data is considered old (2009). The district will add technology questions to the SY14 student survey and at the beginning of next year, collect baseline data on a teacher technology survey. WB's performance measures would be based from the baseline data collected with an increase in percentages each year thereafter. Survey items such as: Teacher Survey -Beliefs in how technology affects student learning and classroom instruction -Level of comfort using types of devices and software -Usage for professional learning -Usage of technology in planning, instruction, and assessment -Usage of IIS in planning, instruction, and assessment -Usage of technology to address student academic needs -Perceived PD needs and instructional needs -An increase in number of teachers applying for WB TechTeach grants Student Survey -Satisfaction on how technology is used in classroom -Perception of amount of technology available -Perception of how technology affects their learning -Perception of their teacher's knowledge and integration of instructional technology- Perceived technology needs for future expenditures such as devices, software, course offerings

*** Implementation of a shared services delivery model**

*** Other Anticipated Outcomes**

Cultural Surveys have been administered since 2007 and each year the data is used to help our awareness of how stakeholders feel about their school. We would hope that some of these items would show improvement due to the increase in instructional technology and professional development opportunities.

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

Yes

No

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, this project can be implemented across the state by utilizing a verified energy services company to survey and provide a report on justifiable energy savings. Utilizing this report to implement the solutions and utilize the cost savings for district initiatives is easily achievable.

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).

Roger Taylor, Director of Operations and Transportation, Western Brown Local Schools

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Consortium Contacts

No consortium contacts added yet. Please add a new consortium contact using the form below.

Partnerships

Western Brown Local (046060) - Brown County - 2015 - Straight A Fund - Rev 0 - Straight A Fund

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Partnerships

First Name	Last Name	Telephone Number	Email Address	Organization Name	IRN	Address	Delete Contact
Mark	Putnam	513-509-5906	mark.putnam@ies-cin.com	Innovative Energy Solutions		3680 Symmes Rd, , Hamilton, Ohio, 45015	

Implementation Team

Western Brown Local (046060) - Brown County - 2015 - Straight A Fund - Rev 0 - Straight A Fund

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Implementation Team

First Name	Last Name	Title	Responsibilities	Qualifications	Prior Relevant Experience	Delete Contact
Roger	Taylor	Director of Operations and Transportation	Overseeing the implementation of the energy conservation and facility modernization side of grant.	The lead applicant, Roger Taylor, serves as the Director of Operations & Transportation for Western Brown Local Schools. Mr. Taylor holds a Master's degree from the University of Dayton in Educational Leadership and is licensed as a K-12 Intervention Specialist, 4-9 & 5-12 Principal and School Business Manager. As the supervisor for the maintenance and transportation departments, Mr. Taylor also is an active member of the district leadership team (DLT), is a credentialed evaluator for the Ohio Teacher Evaluation System (OTES) and previously taught as a high school intervention specialist for the district.	Mr. Taylor has experience in the areas of project planning, legal bids, coordinating facility maintenance and cleaning, negotiating and monitoring utility expenses, has implemented a district-wide energy conservation program, school transportation policies and procedures, approval of department expenditures, overseeing an internal bus garage and is the direct supervisor for more than 60 employees.	