

Budget

Mohawk Local (050740) - Wyandot County - 2014 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (29)

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	1,388,000.00	0.00	0.00	0.00	1,388,000.00
Transportation		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.00	0.00	1,388,000.00	0.00	0.00	0.00	1,388,000.00
Adjusted Allocation								0.00
Remaining								-1,388,000.00

Application

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

A) APPLICANT INFORMATION - General Information, Experience and Capacity

1. Project Title: The Green Way to Straight A's

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

Mohawk Local School District consists of Mohawk High School (7-12) and Mohawk Elementary (K-6) each housed under a single K-12 building. This single proposal includes both IRN's. The ultimate goal of our project is to achieve straight A's on each of the measures of the Local District Report Card by redirecting resources to the classroom through improved energy efficiency. In the latest release of the local district report card Mohawk received, one A, Three B's, one D, and four F's. Three of the F's and one D were all in value-added measures, or student academic growth measures. Improving these measures is the focus of our initiative and will result in improved performance across all measured areas. Improved energy efficiency is our mechanism for freeing up resources to redirect into innovative instructional initiatives aimed at improving teaching and learning. Our efficiency goal is to become one of the most energy efficient districts in the state. Our annual electric utility bill is \$375,000. Conservatively, we project a 38% savings as a result of improvements in our geothermal HVAC system. That translates into \$142,500 in savings. The annual positive cash flow generated in this project will allow for maintenance of the energy saving component along with the initiation and expansion of the student achievement component over the next five years. Ultimately we will impact all 925 of our students as we expand opportunities for students to learn through access to the latest technology. The proposal will also impact all of our core content area teachers, as they will be provided innovative instructional materials and professional development aligned to the common cores state standards.

925 3. Total Students Impacted:

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

First Name, last Name of contact for lead applicant: Kenneth Ratliff

Organizational name of lead applicant: Mohawk Local School District

Unique Identifier (IRN/Fed Tax ID): 050740

Address of lead applicant: 605 State Highway 231, Sycamore, OH 44882

Phone Number of lead applicant: 419-927-2414

Email Address of lead applicant: ken.ratliff@mohawklocal.org

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

First Name, last Name of contact for secondary applicant: N/A

Organizational name of secondary applicant: N/A

Unique Identifier (IRN/Fed Tax ID): N/A

Address of secondary applicant: N/A

Phone number of secondary applicant: N/A

Email address of secondary applicant: N/A

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

N/A

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

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

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

[UploadGrantApplicationAttachment.aspx](#)

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

On the energy savings side of the project: Ken Ratliff, Superintendent, Mohawk Local School District has a thorough understanding of the HVAC systems used in modern OFCC projects. He was involved in an OSFC project with Fairland Local School District and also familiar with the HVAC system at Mohawk Local. He has worked first hand with the control system and understands the theoretical basis for operation of these systems. Tim Davidson, Maintenance Supervisor, Mohawk Local School District has worked with the present HVAC system here at Mohawk for 8 years. He understands the operations and controls of the system and has overseen all contracted maintenance and repair issues since the initial installation. Garry Montgomery, Engineer, Dynamix Energy Services; Brian Gregory, Energy Solutions Analyst, Dynamix Energy Services, Dynamix has performed energy improvement projects for OSFC schools that have decreased energy usage up to 59% and placed Ohio schools into national top performing categories. Dynamix has conducted a thorough review of our systems and has verified/documented the projected savings. On the instructional technology component: Ken Ratliff, Superintendent. Jake Molyet, Technology Director. Nelle Nutter, Elementary Principal. Brett Graham, High School Principal. Gina Wyman, Title I Reading Teacher. Becky Price, 4th Grade Reading/Social Studies Teacher. Krista Jacoby, 5th Grade Reading/Social Studies Teacher. Chip Dietrich 7th/8th Grade Reading/Social Studies Teacher. Sunshine Cleveland, High School English Teacher. Joyce Shoup, High School Mathematics Teacher. Amy Kozel, High School Mathematics Teacher. All of these grant team members have strong technology integration backgrounds and will be the building level leaders for the student achievement component of this project.

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

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

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

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

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

11. Describe the innovative project.

"The Green Way to Straight A's" project has two components. An energy saving component and a student achievement component. "The Green Way" represents a significant reduction in electrical energy consumption in our district facilities. Our goal is to become one of the most energy efficient districts in the state of Ohio and a nationally ranked energy star school. In planning for this project we examined energy saving proposals from Brewer-Garrett, Johnson Controls, H.E.A.T, and Dynamix Energy Services. We choose Dynamix Energy Services because they projected the most energy savings, they were the most familiar with our system, and they customized a proposal ideally suited for our needs. Dynamix Energy Services is an Ohio company that has undertaken several school district energy projects in Ohio and has exceeded their energy saving projections in those projects. Through retro-commissioning, control system replacement, chiller system replacement, and remote monitoring the district will reduce electric energy consumption by 38%. This translates to \$142,500 savings annually. The "Straight A" component of this project is aimed at student achievement. On the latest release of the local district report card Mohawk received, one A, Three B's, one D, and four F's. The three F's and one D were all in student academic growth measures. Improving these measures is the focus of our initiative and will result in improved performance across all measured areas. Our district has shown below expected student growth in reading at the 4th, 6th, 7th, 8th, and 10th Grades. We are in the second year of

implementing the English Language Arts Common Core Standards district wide. Our grant team has determined that our biggest deficiency lies in the reading level of the selections being chosen for instruction at each grade level. The common core state standards include a recommended reading list for each grade level. Our first priority is to roll out a technology initiative that puts the proper materials into the hands of teachers and students. The first phase of the student achievement component includes to elements; technology infrastructure and portable student devices. The infrastructure element will involve establishing a district wide wireless network in our building. The cabling is already in place so we only need to purchase the controller and access points our technology director will perform the installation. Next we will be purchasing iPad carts. We opted to go with iPads because they will also meet the online testing requirements of upcoming state PARCC assessments and the MAP assessments that we currently use. We will use the eReader capability of the iPad to deliver the proper content to students by providing electronic versions of the recommended texts. Teachers will be required to create lessons and assessments around these required readings. We believe that more than any other strategy teaching the "right stuff" in the "right way" will result in unprecedented gains. The iPads also have text to speech conversion that will help meet accommodations required for some special needs students. The second phase of the student achievement component will initiate online course development and "flipping the classroom". In the core areas of the high school curriculum, teachers will record and upload video of their lectures, as well as, supporting documents for each unit they teach. Student's struggling with the pacing of the traditional delivery, such as special education students, will have the opportunity to take the course online at their own pace. Students could extend the course into the summer, or for a third semester when necessary. Gifted students could take the course at an accelerated pace. Students could revisit lectures or notes as they work on homework or are making up work due to an absence. All students will have access to support through an onsite, highly qualified teacher.

12. Describe how it will meet the goal(s) selected above. - If school/district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan.
Improved student achievement - The use of technology will get students excited about reading. We will teach students and teachers alike how to download purchased eBooks or borrow eBooks from the library using the iPad and our local wireless network. We will seek out eBooks from the recommended reading list for the common core state standards. Not only will students be excited about reading on the iPad, we will be putting the proper books, poems, and founding documents in their hands. Reading and writing about these works is the first step in mastering the Common Core for English Language Arts and Social Studies. These texts are the entry point. The iPad also has the ability to highlight and annotate in the text. That's right, with the iPad we are going to encourage kids to "write in their books" as part of reading for "deep meaning and understanding" a cornerstone of the common core. The text to speech function on the iPad will also help with fluency of readers as well as meeting the needs of special education students while keeping them involved in grade level appropriate material along with their typical peers. The iPad will provide a solution for "what we teach" and will present an exciting change for "how we teach and assess." We anticipate unprecedented gains in student academic growth in reading with this implementation. The spending reductions in the five-year forecast - Improved hardware and operational efficiency will produce \$142,500 annual savings by reducing electricity consumption. The energy savings are guaranteed and will be self-sustaining. Beginning in 2016, we will utilize part of the savings (\$25,000) to establish a technical services contract for energy auditing and management of our control system in order to maintain the system in an optimized state so that the energy savings is sustained at the maximum level. The energy saving component is a big project, it involves retro-commissioning, replacing the control system, replacing a currently failed chiller system, and remote monitoring to establish operational protocols that realize reduced energy consumption while maintaining all comfort and air quality parameters. Utilization of a greater share of resources to the classroom - The savings generated from the energy saving components will be redirected to the classroom through innovative technology integrated projects aimed at improving student achievement. This aspect of the project represents a significant shift in our curriculum. Increasing literacy through increased rigor of our curriculum is the goal, iPad technology will be the too. The primary goal of this tool will be to put the proper content materials into the hands of the teachers. We will seek out electronic versions of books, poems, and founding documents and provide access to these materials to students and teachers by utilizing the eReader and internet access capability of the iPads.

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

13. Financial Documentation - All applicants must enter or upload the following supporting information. Responses should refer to specific information in the financial documents when applicable:
a. Enter a project budget
b. Upload the Straight A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortia or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review.
c. If subsection (b) is not applicable, please explain why, in addition to how the project will demonstrate sustainability and impact.
N/A

14. What is the total cost for implementing the innovative project?
1,388,000.00 * Total project cost
* Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RttT money, local funding, foundation support, etc.), and provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc).
The cost for project is \$1,388,000. This will be a design build project through Dynamix Energy Services. \$908,000 of the cost goes toward the installation setup and 1 year monitoring of the HVAC control system. This control system called Tridium. \$480,000 goes toward the replacement of a failed chiller system with a technologically more advanced and efficient unit. Our facility has two massive chiller units with two 75 ton compressors each. This new chiller unit will provide increased energy efficiency and reduced total cost of ownership through improved reliability and ease of maintenance. The project cost is a single line item amount of \$1,388,000 for facilities under purchased services. Without this grant we will incur a \$100,000 expenditure for replacement of a failed compressor on this unit with no return in efficiency. Furthermore the three other compressors will fail over the next three years resulting in another \$200,000 - \$300,000 in repair costs again with no return in efficiency or energy savings. But for this grant, monies will be directed away from the classroom to cover these inevitable repairs to our HVAC system. In November of 2012, in anticipation of these needed repairs our district turned to the voters and asked for a 1.5 mill permanent improvement levy so that when these failures occurred we wouldn't have to take money away from instruction to keep our HVAC system functioning. This levy request failed in every precinct by a 2 to 1 margin. I cannot stress enough the necessity of this grant. Not only would this grant eliminate the necessity of having to take money away from instruction to cover these repairs, but it will actually free up funds to bring our district to the forefront with innovative ideas for teaching and learning. The student achievement component of this project is made possible through the energy efficiency portion which will create an ongoing savings of \$142,500. It is "The green way to straight A's".

15. What new/recurring costs of your innovative project will continue once the grant has expired? If there are no new/recurring costs, please explain why.
142,500.00 * Specific amount of new/recurring cost (annual cost after project is implemented)
* Narrative explanation/rationale: Provide details on the cost of items included in the budget (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.). If there are no new/recurring costs, please explain why.
The green portion of the project will save 38% on our energy usage. This translates to \$142,500 annually in energy savings. From this amount we will pay a technical services contract with Dynamix Energy solutions to monitor system operations and controls to insure ongoing energy savings. The first year of monitoring the control system is included in the initial contract for FY15. Beginning in 2016 this technical services contract will cost \$25000 annually and will also include a student education component on energy efficiency. This student education component will engage student in strategies for further reducing our energy consumption. It will incorporate classroom competitions, monitoring of usage, relevant mathematical and scientific calculations all geared to the appropriate student developmental level. Thus one can see that even the energy component includes an ongoing curricular component that not only improves student achievement but also contributes to sustainability and savings beyond the initial projections. The \$142,500 for FY15 and \$117,500 for FY16 and beyond will be invested into innovative instructional technology projects. For FY15 priority one is to establish building wide Wi-Fi access. The cabling is in place and our technology director has the skill set to install and configure the hardware. The cost estimate for this is \$39,130. Also for FY15 we will purchase 4 iPad Carts, with 30 each iPads. The cost estimate for this is \$17,169.95 each or \$68,679.80. The remaining \$34,690.20 will be utilized to purchase eBooks when available and books from the common core suggested reading list K-12. We'll continue to utilize our existing \$50,000 technology budget to keep our classroom and lab computers updated. For FY16 and beyond \$117,500 is available. We are going to "flip the classrooms" in our core subject areas of English and Mathematics. This will mean purchasing Blackboard licensing for the district. This is the software platform on which teachers will develop their online courses. A current estimate for that software licensing is \$10,000 annually. Obviously we will need to maintain current hardware, purchase A/V equipment, and provide professional development for teachers as we move into this phase. Again all of this will be funded through the energy savings obtained through this project. Blackboard is commonly used in universities across the nation and will provide students invaluable experience as they transition to higher education. Maintenance and expansion of these hardware, software, and innovative initiatives will continue with a constant evaluation of their effectiveness and where our needs are. These funds will continue to be used toward improving teaching and learning through modern innovative strategies.

16. Are there expected savings that may result from the implementation of the innovative project?
142,500.00 * Specific amount of expected savings (annual)
* Narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)
The green portion of the project will save 38% on our energy usage. We have not included anticipated repair savings on the current HVAC system but we anticipate that being in the neighborhood of \$300,00 - \$500,000. Our annual electrical energy charges average \$375,000. 38% savings translates to \$142,500 annually in energy savings. This savings will be redirected to technology based initiatives to improve student achievement with the goal of attaining Straight A's on our district report card by 2019.

17. Provide a brief explanation of how the project is self-sustaining. If there are ongoing costs associated with the project after the term of the grant, this explanation should provide details on the cost reductions that will be made that are at least equal to the amount of new/recurring costs detailed above. If there are no new/recurring costs, explain in detail how this project will sustain itself beyond the life of the grant.
With the initial funding request, and subsequent work by Dynamix Energy Services, our district will become one of the most energy efficient school districts in Ohio. We conservatively estimate a 38% cost savings on electric energy costs, which translates to \$142,500 saved annually. Those funds will be redirected into innovative classroom initiatives to improve teaching and learning for our students. In order to sustain the emphasis on innovative improvements to teaching and learning we need to maintain the funding stream. That means we need to maintain the energy savings. We will reinvest \$25,000 of our savings annually, beginning in FY2016, in a technical services contract to maintain our HVAC system in an optimized state functionally and operationally. This contract includes a building use scheduling system and a system for reporting maintenance and technology support issues. Also included in the annual service contract is access to the engineer at Dynamix Energy Service for a student instructional component of this project. This component will engage students in the energy saving initiative. Engaging the students through intra-classroom competitions for energy savings will push the electrical energy savings beyond the current projections. Dynamix will provide lessons and guest speakers that will engage students in the science and mathematics of energy consumption and conservation. These lessons are developed and customized with input from the classroom teachers to insure developmental appropriateness and alignment with state standards. We also have a .5 mill school facilities maintenance levy to make any necessary repairs moving forward. We will utilize the expertise of the engineers in the technical services contract to continue to look for ways to save additional energy and dollars. These are the mechanisms put in place to insure the savings are ongoing. We will continue to redirect these funds toward student achievement with a focus on innovation and continuous academic improvement.

D) IMPLEMENTATION - Timeline, communication and contingency planning

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

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

* Proposal Timeline Dates

Plan (MM/DD/YYYY): 08/01/2013

* Narrative explanation

The planning is complete. We have been planning this project since August 2013. Upon receipt of our grant letter Dynamix Energy services is prepared to commence. We will notify parents and the community of the receipt of the grant and how these funds will be utilized in our effort to become one of the most energy efficient school district in the state. We will also communicate how the dollars saved through the energy efficiency will be redirected to improve teaching and learning in our district through modern innovative instructional technology strategies. Parents will be an integral stakeholder in realizing our vision of achieving straight A status on our district report card by 2019.

Implement (MM/DD/YYYY): 12/17/2014

* Narrative explanation

Immediately upon notification that the grant has been awarded we will sign contracts for work to commence. Bricker and Eckler, the attorneys representing Mohawk on this matter, are prepared to initiate contracts based upon the unique solution offered by Dynamix Energy Solutions. The Board of Education has been thoroughly educated and informed about every aspect of the project and are in full support of all components of the initiative. Dynamix is prepared to commence with the project immediately upon execution of the contract. Chiller and control replacement will be implemented in such a way to insure a seamless transition to the new control system. In other words, our student and staff occupants won't notice any difference. Comfort and building air quality will be maintained throughout the installation. The building can maintain heat through an existing secondary chiller unit and an existing electric boiler system throughout the work. Any work that would be disruptive to the educational process will be performed in the evenings or on the weekends. The work will be completed by April 30, 2014. From that point we will begin closely monitoring our energy consumption and operational parameters to maximize our energy efficiency. The electric energy cost reduction of 38% is a conservative estimate and we anticipate realizing that level of savings in the first month of operation under the new chiller and control system.

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

* Narrative explanation

Monitoring of our energy consumption will commence with the completion of the retro-commissioning and control system installation (March 30, 2014). The chiller unit replacement will take an additional month (April 30, 2014). Reports will be received by the superintendent and treasurer monthly beginning in May of 2014. In an ongoing process thereafter, we will look for ways to improve upon this savings and increase resources aimed at improving teaching and learning. We also will look for any unintended consequences. Did we have any issues with the comfort level of our building which could have a negative impact on teaching and learning? The 2015 Local Report Card will be released in late August of 2015. We will expect to see improved student growth in reading at grade 3, 4, 5, 6, 7, 8, and 10. This will be a result of our improved alignment with the common core suggested reading list and making those materials available in electronic form on the iPads. We will continue to monitor the success of our implementations with our goal being steady increase in student academic growth toward a straight A rating in 2019.

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

The additional resources will improve our students' access to appropriate curriculum materials required for the common core in English Language Arts and Social Studies. Some materials will be found online for free, pieces such as classical poems and founding documents in United States and world history. Many titles will be available for purchase in electronic form and made available for download across our Wi-Fi network. The technology integrated approach motivates students to do the required reading and become actively engaged in their own learning. We anticipate unprecedented improvement in reading growth data across all grade levels with this implementation. In the second phase of this project we are going to really transform the nature of how we do business. Our staff members will use a "flipping the classroom" strategy to develop online courses in the core curriculum areas of Mathematics, English Language Arts, and Social Studies. They will create online courses in Blackboard an online course development and delivery tool. They will develop their course by uploading course lectures on video, notes, resource documents, links, and assignments. Test assessments will be proctored onsite and graded by the teacher at the various test points used during the course. Learning is a function of time. Expanding the amount of time available for some students, particularly special education students, opens up an opportunity for increased rigor. Students can proceed through the course at their own pace and still have the support of a highly qualified and certified staff member when they need it. This platform will also provide the opportunity for gifted students to work through the course curriculum at an accelerated pace. The ongoing savings will allow us to maintain the hardware, software, and professional development necessary to sustain this initiative indefinitely. The alternative content delivery method and scheduling flexibility attained through this initiative will also promote students to remain at Mohawk since it wouldn't be necessary to enroll in a chartered digital academy to have access to a non-traditional classroom approach which may be better suited for them individually.

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

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

Dynamix has worked with several Ohio school districts recently that achieved better than projected energy saving through similar project implementations. This provides confidence that the projected energy savings for this project will be realized. The funds generated from the energy savings will be redirected into the classroom to increase student achievement. Our grant team feels that the biggest impact in improving our reading student growth scores will come from teaching the proper rigorous grade level content. The iPad gives us access to public domain sources available on the internet. Founding documents such as the Declaration of Independence and the Constitution of the United States are available on the internet along with classic poems and short stories. These are works that are specified by grade level in the suggested reading list for the common core curriculum for English Language Arts and Social Studies. Other works can be checked out as eBooks from the library or purchased as eBooks. Our primary emphasis is not the technology. Technology is the tool by which we are delivering the content. Putting grade level content that pushes the sophistication and critical thinking skills of students is what will precipitate unprecedented improvement in student achievement. The technology component increases student motivation to get engaged in the material. The technology opens up avenues for deeper understanding by creating a mechanism by which one can highlight and annotate key points while reading. Evaluation of the effectiveness of this initiative will be based upon examination of student growth data generated from locally administered MAP Testing (K-6) and state assessments in grades 3-10. In 2014 the state will begin implementing the PARCC assessments and end of course exams which will be online. The mobile technology provided through this initiative will better position us to administer these tests. Putting the right content, along with the right tools, in the hands of students is not a difficult process to replicate. We are entering into the age of hand held devices giving students access to information 24/7. We are changing delivery method to meet student demands in the modern world. As we advance to subsequent years of the project our push becomes finding ways to utilize technology to individualize instruction based on student need. Creating online courses through BlackBoard removes the time constraints set forth in the traditional classroom delivery system. Students can work through the curriculum at their own pace. They can spend more time every day if they need it. They can watch lectures multiple times. For some students the time could be accelerated and they will finish at a faster pace and move on to bigger and better things such as a post-secondary enrollment or dual credit options. Best of all, our hybrid approach has students doing the work here at school with built-in support structures from highly qualified teachers, on a one-on-one and as-needed basis.

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

Yes

No

22. If so, how?

This project can easily be replicated in any other district. The mechanism for improved efficiency doesn't have to be HVAC, however, many districts with older less efficient systems than ours could realize a substantially higher percentage reduction in energy consumption than ourselves. The technology component could certainly be replicated and could even be customized for the district's individual needs. Online curriculum packages such as Plato, or Lincoln Interactive tend to lack rigor and certainly lose the teacher support component. The digital courses we develop will have identical content and expectations to traditional courses every student is required to take. Students who engage in online courses will have the same teacher, assignments, and assessments as students engaged in traditional courses. However, students who are participating in online courses will be afforded the opportunity to proceed through the content at their own pace. The walls come down, and the time constraints are eliminated. But the teacher support and interaction remain. It is absolutely the best of both worlds. Mohawk would be happy to become a model school for this delivery method and share the protocols and procedures necessary to develop and implement this initiative.

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

Mohawk is struggling financially. In 2010 we made our first excellent rating by making above expected student growth for one year. At the end of that year we had to cut \$400,000 out of our roughly \$10,000,000 budget in order to balance the budget. In 2011 we met 26 of 26 indicators and achieved our second excellent rating. At the end of that year we had to cut an additional \$300,000 in order to balance the budget. These cuts were not without impact. We are in our second year of transition of our curriculum to the common core standards. On the 2012 Report Card we had very disappointing results, we met 20 of 24 indicators but in the area of student growth we had dismal results of an F overall, a D for gifted students, an F for student with disabilities, and an F for students in the lowest 20% in achievement. Improvement in our students' academic growth is the substantial and lasting impact that we are seeking through this project. We have made cuts to the bare bones in order to keep a balanced budget. Anticipating necessary repairs for an aging HVAC system we asked the voters to support a 1.5 mill permanent improvement levy in November 2012. They overwhelmingly voted against the measure. In August of 2012 we experienced our first major component failure, a compressor failure on a chiller unit. Repairs will approach \$100,000 for the single compressor alone. A second, third, and fourth compressor failure is imminent. These repairs will divert more funds from the classroom and instruction. With this grant we have the opportunity to not only repair this failed chiller, but replace it with a more efficient unit. This will eliminate repair costs on this unit, reduce total cost of ownership and extend the life of the second existing chiller unit further reducing inevitable repair costs and total cost of ownership. Along with retro-commissioning we will replace the control system to achieve even more energy savings. With this project we will utilize our savings to not only maintain the HVAC system into the

future, but also redirect monies from the savings back into the classroom to achieve our ultimate goals of receiving straight A's by the 2019 Local Report Card. The lasting impact is ongoing high quality education for all students at Mohawk.

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

We anticipate being one of the most energy efficient school districts in the state and a nationally ranked LEED school within 1 year of project completion. We anticipate achieving a minimum of 38% reduction of energy consumption in the first year following completion and every year thereafter. Energy savings is guaranteed and will be monitored monthly. For student achievement, at the end of the first year following this project we anticipate no scores lower than C in any area of progress (value-added or student growth), which translates to meeting at least a year's worth of growth for our students. By the third year following the project we expect no student growth scores less than B on the 2017 Local Report Card. By the fifth year following the project we anticipate no scores less than A on the student academic growth portion of the 2019 Local Report Card.

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

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

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

Evaluation of energy usage and savings is ongoing. It is crucial to the project that we maintain these savings. These savings are funding the innovative instructional approaches that we are implementing. \$25,000 will be earmarked annually for a technical services contract to continue monitoring and tweaking our system for optimization. A .5 mill classroom facilities maintenance levy will support any system repairs necessary over the life of the system. Our intent is to keep the system in an optimized efficient state and not allow it to slip into functional or operational inefficiency. This technical services contract will also improve operations and building use efficiencies through an included scheduling and maintenance software component. An included education services component will engage students in the energy saving process and provide access to industry experts to provide real world lessons and applications in the science and mathematics of HVAC systems and energy consumption. Essentially the access to mechanical and electrical engineers through this contract adds a STEM element to our project and will further contribute to increased achievement for our students in science and mathematics. This will be evaluated annually by analyzing results of state required achievement tests and locally administered MAP testing. We administer MAP assessments, three times per year in grades K-6. We will add MAP testing for 7th and 8th grade for FY15 in English Language Arts and Mathematics so that we are able monitor ongoing progress toward our goal of achieving above expected growth in English Language Arts and Mathematics. Ongoing monitoring will also be facilitated by the implementation of the new PARCC testing and end of course exams. This will be particularly helpful in future years as we roll out the online core course options at our high school. We want to ensure that the students taking the online version of courses at their own pace are performing comparably to their peers taking the course in the traditional setting. Current digital academies and online content delivery packages are not achieving this level of student achievement.

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

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

I Accept Ken D. Ratliff, Superintendent Mohawk Local School District 10/16/13