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<th>Purchased Services 400</th>
<th>Supplies 500</th>
<th>Capital Outlay 600</th>
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<td>1,388,000.00</td>
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| Adjusted Allocation   | 0.00        |
| Remaining             | -1,388,000.00|
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. 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 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 core state standards.
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.

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 State A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortia or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review.
   c. If subsection b is not applicable, please explain why, in addition to how the project will demonstrate sustainability and impact.

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

1,388,000.00 **  Total project cost

* A 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).

* A specific amount of net/recurring cost (annual cost after project is implemented)

* A 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).

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.

14,500.00 ** Specific amount of new/recurring cost (annual cost after project is implemented)

* A 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).

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

14,500.00 ** Specific amount of expected savings (annual)

* A narrative explanation/rationale: Provide details on the anticipated savings (i.e. staff counts and salary/benefits, equipment to be purchased and cost, etc.)

17. Provide a brief explanation of how the project is self-sustaining. If there are ongoing costs associated with the project after the term of the grant, this explanation should provide details on the cost reductions that will be made through the anticipated savings from new/ongoing costs and/or existing budgets that will continue after the expiration of the project.

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 Services to save $598,000 of the cost going to the installation setup and 1 year monitoring of the HVAC control system.

The chiller replacement consists of $480,000 and the energy 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 on investment.

The $142,500 annual savings will be greater than the cost of the energy savings. Our team was able to bring this project through for $250,000 annually and will also include a student 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.

The primary goal of this tool will be to improve student achievement and reduce energy usage. We can expect at least a 1.5 permanent improvement levy so that if 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 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. Ibis "The green way to straight A's".
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 implementation 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 districts.)

<table>
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<th>* Proposal Timeline Dates</th>
<th>Plan (MM/DD/YYYY): 08/01/2013</th>
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<tbody>
<tr>
<td>Narrative explanation</td>
<td>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 2018.</td>
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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 with its terms and conditions. This process has been thoroughly examined and therefore our energy consumption is 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 ensure a seamless transition to the new system. In other words, our students 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 thirty days to install. 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 these savings and increase resources aimed at improving teaching and learning. We will also 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 on an online course development and delivery tool. They will develop their course by uploading course lectures on video, notes, resource documents, links, and assignments. Tests assessments will be procured onsite and graded by the teacher at the strategy 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 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 in Mohawk since it wouldn’t be necessary to enroll in an 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, saving 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 achieve 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 saving a student’s academic growth scores will come from teaching the proper rigorous grade level content. The iPads 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 the Ohio Department of Education for the course of study. Other works can be found on the internet and 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 the teacher to provide 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 unique in our ability to offer our students the chance to have hands on instruction in the classroom. With this grant we have the opportunity to not only repair and replace this failed chiller, but replace it with a more efficient unit. We 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 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?

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If yes, 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 ours themselves. The technology component could certainly be replicated and could even be customized for the district’s individual needs. Online curriculum content is free of charge. We are in discussion with our local school leaders on Plito, 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 will need 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 lifted. 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.

22. If so, how?

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 28 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 a 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. In 2012 our students’ academic growth has been substantial and the 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 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 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 in 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