



King William County Public Schools

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June 12, 2019

Dear King William Staff,

As everyone is aware, King William County Public Schools has partnered with ABM on an Energy Project. This has been a yearlong process, and I am pleased to announce that Phase III: Construction, of our Energy Project will begin this summer! This letter is to inform you of the accomplishments we have made to date as well as what we can look forward to in the coming months.

Phase I: Energy Audit – Complete

The initial phase of our Energy Project began back in June of 2018. Our energy partner, ABM, conducted a preliminary survey of all four of our school buildings in order to identify potential energy conservation measures and determine if we were a viable candidate for a project. The results were positive, thus we elected to move forward with a full Energy Audit.

The Energy Audit was conducted from January through March. You might recall my email in early January notifying every one of ABM's upcoming survey dates, an example of one of the energy conservation measures (LED Lighting) and a brochure regarding the data logger devices they left throughout our schools to gather the information they needed for their analysis and calculations. Thank you again for your cooperation and understanding during Phase I.

Phase II: Energy Analysis, Project Selection and Approval – Complete

The second phase consisted of ABM analyzing all the information they collected from utility bills, site surveys, interviews with our facilities team, data loggers, design drawings, reports, etc. This analysis was used to create a list of Energy Conservation Measures (ECMs). ABM presented their full list of Energy Conservation Measures (ECMs) to the School Board as well as representatives from the County Board of Supervisors. These two groups along with collaboration from the Superintendent, our Facilities Team, Finance Department and a few generously dedicated others all worked together to prioritize the Energy Conservation Measures (ECMs). Myriad factors were considered during the prioritization process such as but not limited to quantity of energy conserved, cost of implementation, building code compliance, age of system components, condition of system components and cost of inaction.

With the preferred scope of the Energy Project agreed upon, the month of April was filled with presentations. The County Board of Supervisors provided very positive feedback and their blessing following ABM's presentation at their April meeting. The next day, our school board approved the project with a 5-0 vote at our April meeting.

Phase III: Construction – Starting Soon

The final phase, implementation, will begin later this month (June). As you can see from the above information, a great deal of time and effort from a lot of different people over the past year is the reason we are where we are today. Thank you all again! Please see below for some information related to construction.

- A. **When:** June 2019 – December 2019
 - 1) We have an optimal schedule and a critical path schedule. The above dates are the optimal schedule which will be achieved barring any unforeseen setbacks such as weather.

2) Most of the work is scheduled to be completed prior to Labor Day.

B. What: Here are a few of the Energy Conservation Measures (ECMs) that will be implemented under this Energy Project

- 1) LED Lighting Upgrades
 - i. Please Note: The optimal schedule for this Energy Conservation Measures (ECMs) is expected to be completed in October. Once school begins, the construction workers will switch to night and weekend work as to not disrupt the learning environment.
- 2) Building Automation System Upgrades
 - i. Enhanced controllability of air conditioning, heating and ventilation equipment
- 3) Water Conservation
 - i. Low Flow Fixtures
- 4) Computer Power Conservation
 - i. Software will be deployed to automatically power down computers and laptops when they are not in-use
- 5) Building Envelope Upgrades
 - i. Window Film to reduce the heat from the sun entering the building on hot days
 - ii. Seal openings where outside air is entering building (i.e. door sweeps, roof-wall intersections, window sealant, etc.)
- 6) Transformer Upgrades
 - i. More efficient at partial loads which is where these devices typically operate
- 7) Air Conditioner Replacement at Acquinton Elementary School
 - i. This large unit that sits outside in a fenced-in area is beyond its useful life
- 8) Roof Top Air Conditioner Replacement at King William High School
 - i. We will also be demolishing most of the white ductwork on the roof that you can see from the parking lot and nearby roads!
- 9) New Roof on High School
 - i. Please Note: The optimal schedule for this Energy Conservation Measures (ECMs) is expected to be completed in November however, it is not expected to disrupt the learning environment

C. Where: Everyone benefits because some of the Energy Conservation Measures (ECMs) listed above will be implemented in all four schools

D. Why: By implementing these Energy Conservation Measures (ECMs), we will be:

- 1) Improving the learning environment through:
 - i. Enhanced lighting
 - ii. Enhanced indoor air quality
- 2) Conserving energy and reducing our carbon footprint
- 3) Replacing aging infrastructure

E. How: Does this affect me?

- 1) The biggest change will be that scheduled summer school at King William High School will be relocated to Hamilton Holmes Middle School. Please stay tuned for more information on this.
- 2) Again, most of the work will be done over the summer. For the Energy Conservation Measures (ECMs) that go into September and beyond, the construction workers will shift to nights and weekends for anything that might otherwise disrupt the learning environment during school hours.

Thank you in advance for your cooperation and understanding as we enter the third and final phase of our Energy Project. We are almost at the finish line of providing a better learning environment for our students as well as teaching and work environment for all of you. Please do not hesitate to reach out to me with any questions or concerns.

Sincerely,

Tony Stone
Director of Operations