Bethpage Union Free School District
Smart Schools Bond Act Investment Plan

Overview:

The Smart Schools Bond Act (SSBA) of 2014 was passed during the general election ballot on November 4, 2014. The SSBA authorized the issuance of up to $2 billion of general obligation bonds to finance improved educational technology and infrastructure to address 21st Century learning and opportunity and to ensure that our students graduate with the skills that they need to thrive in the economy of today and tomorrow. Projects undertaken with the SSBA are fully state funded and there is no required local financial contribution from the school district. Bethpage Union Free School District's (Bethpage UFSD) allocation is $1,128,764, which was calculated based on our percentage of formula school aid in 2013-14. This is a one-time allocation, not an annual amount, that will not expire and any unused portion of the allocation may be carried over to future years.

Preconditions:

(1) Instructional Technology Plan Survey

All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department (NYSED) in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan (SSIP) must have a submitted and approved Instructional Technology Plan survey on file with NYSED. Bethpage UFSD's Instructional Technology Plan Survey was submitted and approved by NYSED on September 11, 2015.

(2) Adequate Technology Infrastructure

To ensure that districts maximize the return on their investment in education technology and devices, SSBA funds used for technology infrastructure investments must increase the number of school buildings that meet or exceed the Federal Communications Commission (FCC) minimum speed standard of 100 Mbps per 1,000 students. Bethpage UFSD is a member of the Nassau BOCES Bo-TIE network, which provides member school districts with Internet Access through Lightower. As of December 2015, Bethpage UFSD's subscriber bandwidth is 150 Mbps with 1 Gb connection between school buildings. The Bo-TIE network also has burstability built in, which allows member school districts to request additional bandwidth as necessary. Our current bandwidth has adequately supported the 800+ computers and 2,500+ mobile devices that depend on our network to access the Internet and other network resources. We do acknowledge the FCC's broadband goal of 100 Mbps per 1,000 students and as such will take the necessary steps to increase our bandwidth to meet this speed standard. For the 2016-17 school year, we have planned and budgeted to increase our bandwidth to 200 Mbps, another step towards meeting the FCC's broadband speed standard. We plan to ultimately meet this speed standard within twelve months.

(3) Stakeholder Engagement

Pursuant to the requirements of the SSBA, the planning process must include consultation with parents, teachers, students, community members, other stakeholders, and nonpublic schools located in the district (the latter is non-applicable to Bethpage UFSD). Site-based meetings at each of our schools that included the aforementioned stakeholder groups have taken place. The Bethpage UFSD School Board will conduct a public hearing on our Smart Schools Investment Plan. The dates of the site-based meetings and public hearing are as follows:

- Charles Campagne Elementary School Site-Based Meeting: January 6, 2016
- Kramer Lane Elementary School Site-Based Meeting: January 13, 2016
- John F. Kennedy Middle School Site-Based Meeting: January 28, 2016
- Central Boulevard Elementary School Site-Based Meeting: February 3, 2016
- Bethpage High School Site-Based Meeting: February 9, 2016
- Public Hearing on Bethpage UFSD Smart Schools Investment Plan: February 23, 2016

Budgeting:

Working with our district's stakeholders and aligned with our district's Instructional Technology Plan Survey, the Bethpage UFSD SSIP has been drafted to focus our allocation on the allowable SSBA expenditures that include projects under the **School Connectivity** and **Classroom Learning Technology** categories and are summarized in the table below.

Category	Description	Qty	Unit Cost	Total
School Connectivity	Catalyst 3560X 48 Port PoE IP Base	28	$6,552.00	$183,456.00
School Connectivity	Catalyst 3K-X 10G Network Module	28	$1,827.00	$51,156.00
School Connectivity	1000 Base-SX SFP Transceiver Module	28	$315.00	$8,820.00
Category Total:				**$243,432.00**
Classroom Learning Technology	Dell Optiplex 3020 Small Form Factor Computer	100	$791.00	$79,100.00
Classroom Learning Technology	Samsung Chromebook 2 11.6 4 GB/16 GB Intel	300	$274.98	$82,494.00
Classroom Learning Technology	Bump Armor GTX 30002-N Protective Bag 12" Black	250	$28.04	$7,011.00
Category Total:				**$168,605.00**
			Grand Total of ALL Categories:	**$412,037.00**

(Bethpage UFSD Total SSBA Allocation: $1,128,764)

(represents 36.5% of Bethpage UFSD's Total SSBA Allocation)

(1) School Connectivity Rationale

Bethpage UFSD continues to provide our school community with resources that improve teaching, learning, productivity, communication, and collaboration. We continue to take advantage of the opportunities that emerging and evolving technology provides by integrating applicable tools to support teaching and learning. We understand that in order to maximize instructional time and optimal use of technology resources, our network infrastructure and "backbone" are vital prerequisites and must be able to support the technology tools available for teachers and students. We plan to replace twenty-eight (28) network switches nearing end-of-life that have been running 24/7/365 over the last ten years and limit us to running 100 Mb to our classrooms and offices (compared to 1 Gb). The Catalyst 3560X in conjunction with the necessary network and transceiver modules will allow us to leverage faster network speeds to our classrooms and offices. This will also support Bethpage UFSD's plan to expand our current 1:1 Google Chromebook initiative to Grades 11 and 12 over the 2016-17 and 2017-18 school years by ensuring the prerequisite network infrastructure and backbone can support the growing number of mobile devices and other technology tools available district-wide for teachers and students.

(2) Classroom Learning Technology Rationale

We plan to use the Dell Optiplex 3020 computer workstations to continue with our annual refresh plan to upgrade the oldest computer workstations in Bethpage UFSD; specifically, the computer workstations located in the Bethpage High School Library Media Center, John F. Kennedy Middle School Library Media Center, and kindergarten classrooms in Central Boulevard Elementary, Charles Campagne Elementary, and Kramer Lane Elementary Schools. We plan to use the Google Chromebooks to expand our 1:1 program to include Grade 11 in the 2016-17 school year and refresh any Google Chromebooks devices that are broken, obsolete, or too costly to repair. Our current program provides 2,200+ Google Chromebooks as 1:1 devices for students in Grades 3-10.

Professional Development:

Bethpage UFSD understands the importance of staff development in the area of technology integration to support teaching and learning. We also acknowledge that SSBA funds may not be used for professional development. Our Professional Development Academy and partnerships with the InterCounty Teacher Center and Nassau BOCES Model Schools Program continue to emphasize and support the ways in which instructional technology can be used to enhance a standards-based curriculum. We plan to continue our partnerships with the aforementioned and continue to develop our own in-service course offerings and make training available to staff members on a push-in basis. We utilize My Learning Plan to track professional development hours and provide our instructional staff with a catalog of professional development offerings, whether they are developed by our own staff, Nassau BOCES, or one of our other approved providers.

Technical Support:

Bethpage UFSD acknowledges that SSBA funds may not be used for technical support. We have an IT Help Desk that is staffed by two (2) network administrators and two (2) Help Desk associates. The IT Help Desk supports our teachers, administrators, students, and instructional support staff with preparing and deploying technology equipment, troubleshooting, performing regular maintenance and updates, software installations, creating how-to documentation or tutorials, vetting emerging technologies, while supporting our district's existing instructional and administrative technologies, including but not limited to computers, laptops, printers, interactive whiteboards, projectors, IP phones, servers, network equipment, camera surveillance, and proximity cards. In addition, the IT Help Desk maintains a detailed inventory of all instructional and administrative technology equipment deployed across the district.

Sustainability:

Bethpage UFSD acknowledges that SSBA funds may not be used to support the recurring costs of use. We will continue to take advantage of the opportunities that emerging and evolving technologies provides by integrating such tools to support teaching and learning. We expect to continue with our current replacement and refresh cycle of the district's instructional and administrative technologies and budget for any recurring or maintenance costs through our annual Instructional Technology budget code.

Other Links:

Bethpage UFSD Website: goo.gl/dpb5gn
Bethpage UFSD Instructional Technology Plan Survey (approved on September 11, 2015): goo.gl/GkVjVB
Nassau BOCES: Information and Resources Related to the SSBA: goo.gl/KeRswh
New York State Education Department: Smart Schools: goo.gl/8Jh3qZ