

**WORK STUDY MEETING
DECEMBER 10, 2020-MINUTES**

**HEMPSTEAD PUBLIC SCHOOLS
BOARD OF EDUCATION
WORK STUDY MEETING
DECEMBER 10, 2020
MINUTES**

The work study meeting of the Hempstead Public Schools Board of Education was held via Zoom I D # 940 0823 9941. The meeting was called to order at 7:02 P.M. moved, by Trustee Pratt and seconded by Trustee McNeill. All of the Board Members were present. The Interim Superintendent offered brief remarks. There was a presentation from ESG, on the energy performance contract project. All questions and concerns were addressed. The Board proceeded to review the agenda for the meeting scheduled for December 17, 2020.

BOARD MEMBERS PRESENT:

LaMont Johnson	President
Patricia Spleen	Vice President
Carmen Ayala	Trustee
Patricia McNeill	Trustee
Victor Pratt	Trustee

SED MONITOR:

William Johnson	SED Monitor.
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STAFF MEMBERS PRESENT:

Regina Armstrong	Interim Superintendent
Jamal Scott	Assistant Superintendent for Business & Operations
Rodney Gilmore	Associate Superintendent for Human Resources
Djuana Wilson	Assistant Superintendent for Special Education
Ahunna Akoma	Assistant Superintendent for Technology
Janet Lovett	Coordinator Bilingual/ENL/LOTE
Gary Gentles	District Treasurer
Ed Cullen	Consultant Business & Operations
Nicole Epstein	Public Relations
Patricia Wright	District Clerk
John Sheahan	General Counsel
Jonathan Scher	Labor Counsel

Trustee McNeill moved, seconded by Trustee Pratt to convene to executive session at 7:47 P.M. to discuss personnel, a particular individual and advice of legal counsel.

MOTION	YES 5	MOTION CARRIED
To convene to executive session		

Trustee Spleen moved, seconded by Trustee Pratt to reconvene to open session at 9:24 P.M.

MOTION	YES 5	MOTION CARRIED
To reconvene to open session		

Trustee Johnson moved, seconded by Trustee Ayala to approve the consent calendar as amended.

WORK STUDY MEETING DECEMBER 10, 2020-MINUTES

HAND CARRY

1. **RESOLVED**, that the Board of Education approves to waive policy # 2342 agenda preparation and dissemination in order to consider the hand carry item being presented at the meeting of December 10, 2020.
2. **RESOLVED**, that the Board of Education appoints the audit committee for the 2020-2021 school year: the audit committee chairperson will be Trustee Carmen Ayala and the co-chair will be the President of the Board of Education, LaMont E. Johnson (~~former chairperson and member of the audit committee in 2010 and familiar with the procedures~~) and members being appointed are:

Earl L. Burke, Jr.
Christine Mitchell-Bush
Samantha Fountain
U Lucky Irowa
Valarie Richardson
Brandy Watson***

MOTION **YES 5**
To approve consent calendar
as amended

MOTION CARRIED

Trustee Pratt moved, seconded by Trustee Ayala to adjourn the meeting at 9:25 P. M.

MOTION YES 5
Meeting adjourned

MOTION CARRIED

Respectfully submitted:

Patricia Wright
District Clerk



Hempstead Union Free School District

Energy Performance Project UPDATE

Dec 10th, 2020

Michael J Ryan

mryan@energysystemsgroup.com



Hempstead Public Schools Energy Performance Contract



What is it?

Energy Performance Contracting (EPC) is a turnkey service to design/build a comprehensive set of energy efficient, renewable energy and capital improvement measures. This service is accompanied with guaranteed utility cost savings that would be produced by a project that are equal to or greater than the full cost of the project.

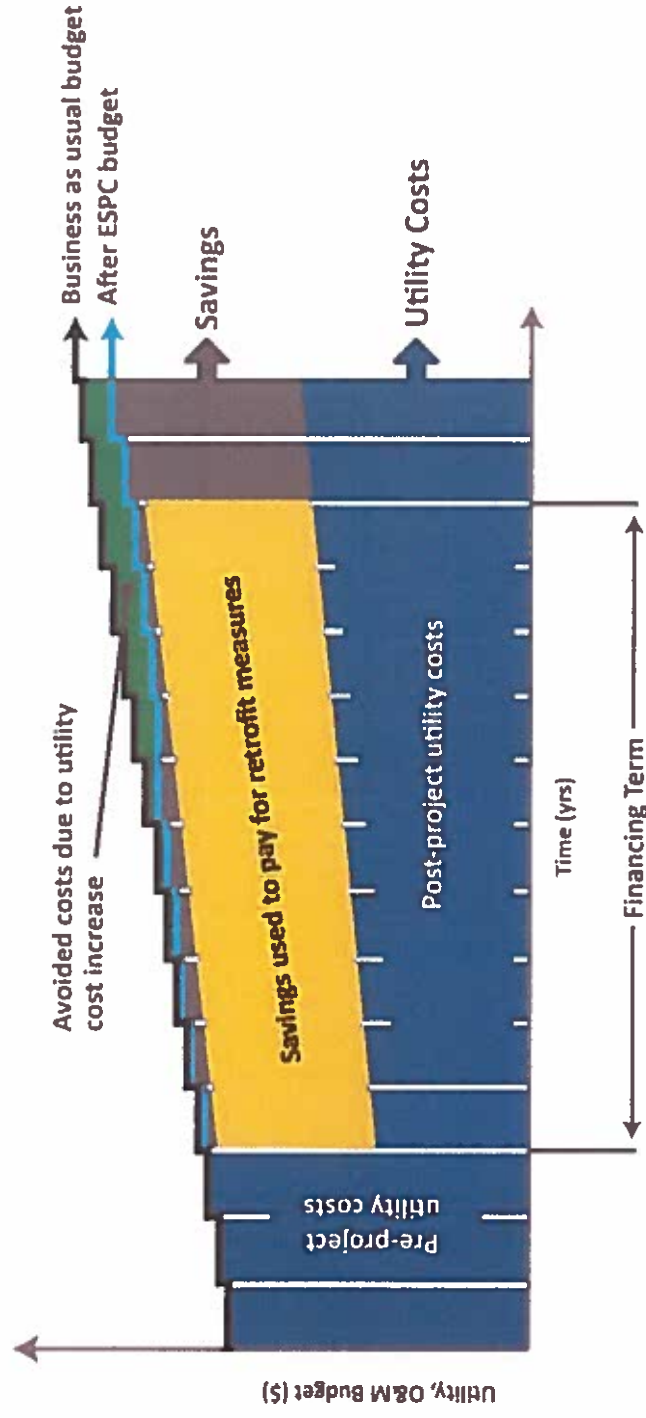


THINK. ACT. SAVE.
WE ALL HAVE THE POWER!

Hempstead Public Schools Energy Performance Contract



What is it?





Hempstead School District

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]

RFP Project Value Yearly Guaranteed Savings
\$11.5 Million \$500K

Self Funding Project Paid From Energy Savings

39% Reduction in Energy Use

Net Positive by \$11 million over the life of the project

18 Year Simple Payback

Total Savings over Term Rebates & Incentives
\$13 Million \$600k

Hempstead Public Schools



Project Goals

- Provide needed improvements with no out lay of funds. These improvements will reduce the list of needed improvements of the capital plan (5 year plan)
- The project will be funded by guaranteed energy savings. No budget impact or additional cost to the district
- Improve buildings comfort, environment and safety
- Improve building systems reliability and predictability
- Reduce energy cost and lower carbon footprint
- Provide positive attention and media coverage
- Community involvement and engagement
- Utilize the project for education

Process and Efforts To Date

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]

RFP Process

- Compete, bid and select an energy savings company partner

■ Comprehensive Energy Audit (Detailed Engineering)

- Collect and process energy, utility and maintenance data
- Survey all buildings, collect all building systems and equipment data
- Engineer an energy savings plan
- Engineer proposed improvements

■ Project Design and NYS SED submission for approval

■ Construction and Implementation

■ Measurement and Verification of Energy Savings

■ Ongoing Services



Energy Conservation Measures (ECMs)



LED Lighting Upgrades – Interior and Exterior

New Boilers and Boiler Plant Upgrades

New Chillers at Hempstead High School

Temperature Control Upgrades

HVAC Upgrades

Building Envelope

Solar Energy

Pipe Insulation

Steam Trap Replacements

Pool Filtration Upgrades



Energy Conservation Measures (ECMs) By Building



ECM	ABCS Middle School	Barack Obama Elementary School	David Paterson Elementary School	Franklin Elementary School	Hempstead HS	Jackson Annex Elementary School	Jackson Main Elementary School	Marshall Elementary School
ECM #01 - Replace Interior Lighting	✓	✓	✓	✓	✓	✓	✓	✓
ECM #02 - Replace Exterior Lighting	✓	✓	✓	✓	✓	✓	✓	✓
ECM #03 - Install VFD on Chilled Water Pumps					✓			
ECM #04 - Install VFD on Hot Water Pumps		✓	✓					
ECM #05 - Install VFD on Pool Filter Pump					✓			
ECM #06 - Replace Chillers					✓			
ECM #07 - Boiler Controls						✓	✓	✓
ECM #08 - Boiler Isolation Valve					✓			
ECM #09 - Replace 1 Boiler - with 2 Condensing Boilers		✓						
ECM #09 - Replace Boiler - 1 Boiler with 3 Condensing Boilers			✓					
ECM #09 - Replace Steam Boiler with New Steam Boiler	✓							
ECM #10 - Seal Boiler Stack	✓							
ECM #11 - HVAC Control Upgrades	✓				✓			
ECM #12 - Building Envelope Upgrades	✓	✓	✓	✓	✓			✓
ECM #13 - Replace Steam Traps	✓							
ECM #14 - Install Solar PV	✓							
ECM #15 - Install Plug Load Controls	✓	✓	✓	✓	✓		✓	
ECM #16 - Replace DHW Heater					✓			
ECM #17 - Piping Insulation	✓	✓	✓	✓	✓	✓	✓	✓
ECM #18 - Install Pool Cover					✓			
ECM #19 - Water Conservation - Thermal Savings	✓	✓	✓	✓	✓	✓	✓	✓



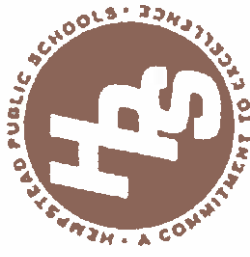
Existing Cooling Plant at Hempstead HS

COLLABORATION | TEAMWORK | PARTNERSHIP

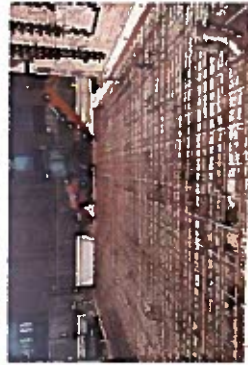


- Existing Cooling Plant is past its useful life
- There were major equipment failures

New Cooling Plant at Hempstead HS



[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



- State of the Art Cooling plant
- Reliable
- Long Life Span
- Energy efficient

LED Lighting Upgrades

| COLLABORATION | TEAMWORK | PARTNERSHIP

Before



COMPLETE LED LIGHTING UPGRADES

- Upgrade of interior lighting fixtures and lighting controls
- Upgrade of exterior lighting fixtures



LED Lighting Upgrades

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



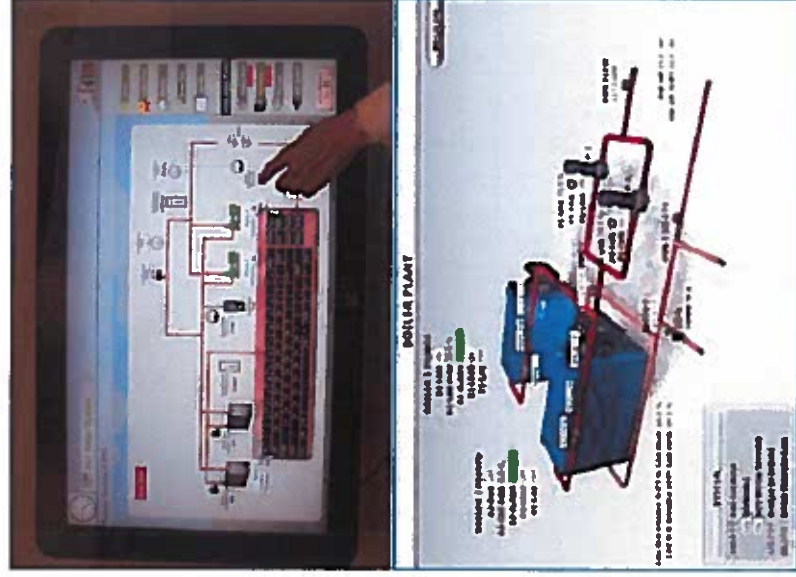
COMPLETE LED LIGHTING UPGRADES

- Upgrade of interior lighting fixtures and lighting controls
- Upgrade of exterior lighting fixtures



Building Automation Energy Management System

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



- Control of existing and new systems
- Refurbish Unit Ventilators and Controls
- Exhaust Fan Controls
- Replacement of pneumatic controllers with new DDC controls
- Accessible from any internet based device
- Scheduling and alarms

Boiler Plant Upgrades

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



New Gas Fired Condensing Boilers

McNeil, Obama , ABGS MS

- New High Efficiency Boilers
- New Zone Valves
- Boiler Controls



PV Solar Power

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



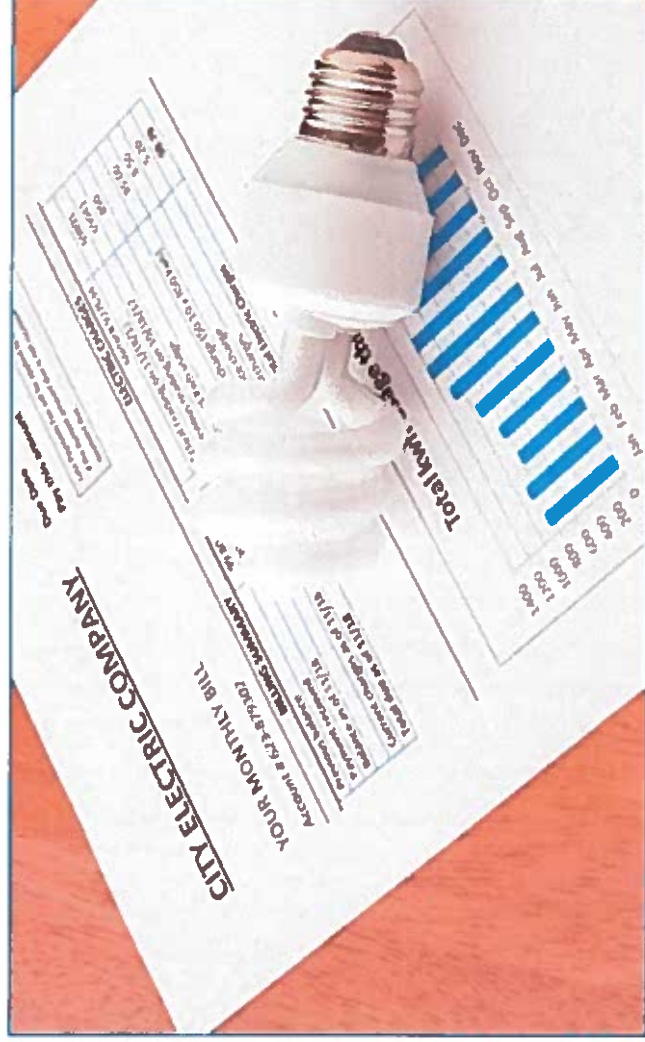
Hempstead High School
525 KW



ABGS Middle School
476 KW

Measurement and Verification

COLLABORATION | TEAMWORK | PARTNERSHIP



Utility bill analysis.



Community and Student Involvement

Local Community Involvement

- Local and Minority Participation program

Collaborative Partnership with Hempstead Public School District

- Engage the community
- Innovative energy and infrastructure solutions
- Community relations and media

Customized Project Website

- Project progress updates
- Economic, environmental and sustainability benefits
- Promote project's success via dynamic and interactive multimedia galleries

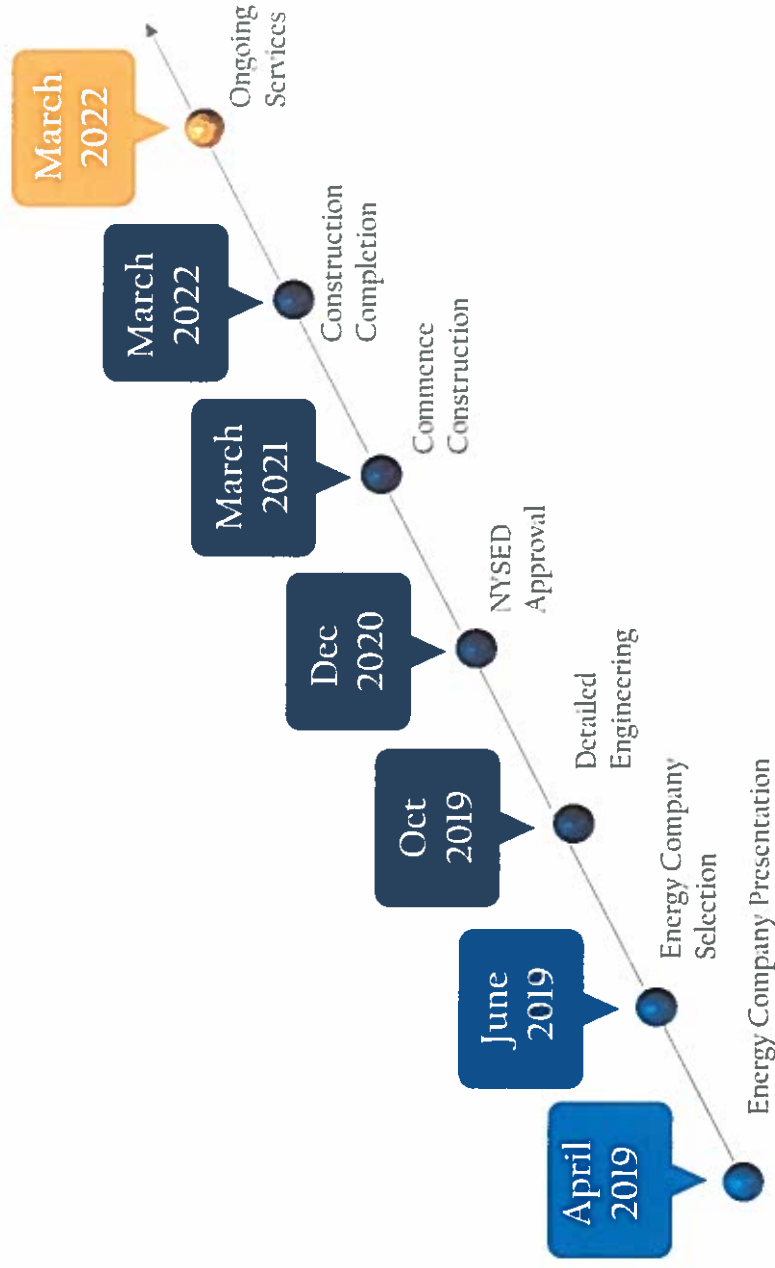
Engage Students Through Energy Awareness and Informational Materials

- Student workshops, Career Exploration and scholarships
- Assist in the startup of the robotics team



Next Steps : Projected Dates

[COLLABORATION] [TEAMWORK] [PARTNERSHIP]



Thank You

| COLLABORATION | TEAMWORK | PARTNERSHIP



COLLABORATION + PARTNERSHIP + TEAMWORK = SUCCESS