



Energy Conservation Measures (ECMs) & Historical Energy Performance Contract Results

2009 - present

Gary McAvoy – M&V
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Energy Performance Contract Results

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PRESENTER:

Gary McAvoy, Certified Energy Manager
Measurement & Verification Professional

What is an Energy Performance Contract (EPC)?

A school district contracts with a vendor to do a study of energy consumption. The vendor then recommends replacement of energy inefficient equipment. The financing to purchase the replacement equipment (new energy efficient equipment) will come from the guaranteed energy cost savings.

A successful EPC results in cost avoidance. Cost avoidance is the avoided expense in today's dollars attributable to new energy efficient equipment. To determine if the new energy efficient equipment has yielded the expected level of cost avoidance, it is necessary to measure and verify the cost avoidance in the periods after the new energy efficient equipment has become operational. The cost avoidance resulting from the new energy efficient equipment must be compared to a year (Baseline Period) when the energy inefficient equipment was operational.

GNPS Energy Performance Contract Timeline

BASE LINE PERIOD: January 2005 - December 2005

INSTALLATION PERIOD OF NEW ENERGY EFFICIENT EQUIPMENT:

August 2007 – November 2008

GUARANTEED SAVINGS PERIOD: December 2008 – November 2026

GUARANTEED TERM: 18 Years

PRINCIPAL AMOUNT TO BE FINANCED: (to purchase New Energy Efficient Equipment): \$12,104,000

ANNUAL SUPPORT SERVICES COST: \$85,000

ANNUAL DEBT SERVICE COST: \$947,549

INTEREST RATE: 4.003%

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Energy Conservation Measures or ECM's

ECM #1- Energy Efficient Lighting

ECM #2A- Boiler Replacements

ECM #2B- Boiler Burner Controls

ECM #3- Building Management Systems/Controls

ECM #4- Heating System Enhancements

ECM #5- Building Envelope Improvements

ECM #6- New A/C Rooftop Units (South High / South Middle)

ECM #7- Solar Photovoltaic Systems

ECM#1 – Energy Efficient Lighting

John F. Kennedy School

E.M. Baker School

Lakeville School

Parkville School

Parkville School Annex

Saddle Rock School

North Middle School

North High School

South High / Middle School

GNTA Cottage

Phipps Administration Building

Clover Drive Adult Center

Cumberland Community Education

Village School

Great Neck Social Center

Athletic Field Restrooms

Inland Building

ECM#2A – Boiler Replacements

E.M. Baker School

John F. Kennedy School

Parkville School

Saddle Rock School

North Middle School

South High / Middle School

Phipps Administration Building

Great Neck Social Center

ECM#2B – Boiler Burner Controls

John F. Kennedy School

E.M. Baker School

Lakeville School

Parkville School

Saddle Rock School

North Middle School

North High School

South High / Middle School

Village School

Phipps Administration Building

ECM#3 – Building Management Systems / Controls

E.M. Baker School

John F. Kennedy School

Lakeville School

Parkville School

Saddle Rock School

North Middle School

North High School

South High / Middle School

Phipps Administration Building

Clover Drive Adult Center

Cumberland Community Education

Great Neck Social Center

Village School

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ECM#4 – Heating System Enhancements

E.M. Baker School

Lakeville School

Parkville School

Saddle Rock School

North Middle School

North High School

South High / Middle School

Cumberland Community Education

ECM#5 – Building Envelope Improvements

E.M. Baker School

John F. Kennedy School

Lakeville School

Parkville School

Saddle Rock School

Village School

North Middle School

North High School

South High / Middle School

Phipps Administration Building

Clover Drive Adult Center

Cumberland Community Education

Great Neck Social Center

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ECM#6 – New A/C Rooftop Units

1 - South High School

1 - South Middle School



ECM#7 – Solar Photovoltaic Systems

North Middle School

North High School

South High / Middle School



ECM#7 – Solar Photovoltaic Systems (cont'd)



Energy Performance Contract Results

2009 through 2016

Electric Savings Results

Includes:

ECM#1 – Energy Efficient Lighting

ECM#3 – Building Management Systems / Controls

ECM#7 – New A/C Rooftop Units

ECM#8 – Solar Photovoltaic Systems

Fuel Savings Results

Includes:

ECM#2A – Boiler Replacements

ECM#2B – Boiler Burner Controls

ECM#3 – Building Management Systems / Controls

ECM#4 – Heating System Enhancements

ECM#5 – Building Envelope Improvements

Great Neck Public Schools Cost Avoidance Results

<u>Electric Savings Results</u>
2009 through 2016 = \$1,929,811
<u>Fuel Savings Results</u>
2009 through 2016 = <u>\$3,643,941</u>
Totals: \$5,573,752
<u>Energy Performance Guarantee</u>
2009 through 2016 = <u>\$5,329,208</u>
Difference: \$244,544

Great Neck Public Schools Cost Avoidance Results

Great Neck Public Schools	
Building	Electric Savings 2009 - 2016
E.M. Baker School	\$119,079
John F Kennedy School	\$97,763
Lakeville School	\$152,867
Parkville School	\$78,859
Parkville School Annex	\$17,219
Saddle Rock School	\$115,962
North High School	\$238,676
North Middle School	\$261,302
South Complex HS/MS	\$642,489
Phipps Administration	\$11,531
Athletic Field Restrooms	\$1,865
Clover Drive Adult Center	\$81,013
Cumberland Community Education	\$34,006
Great Neck Social Center	\$42,699
GNTA Cottage	\$4,572
Inland Building	\$16,949
Village School	\$12,962
Total Savings	\$1,929,813

Electric TOTAL: \$1,929,813

Great Neck Public Schools Cost Avoidance Results

Great Neck Public Schools	
Building	Fuel Savings 2009 - 2016
E.M. Baker School	\$282,890
John F Kennedy School	\$144,988
Lakeville School	\$288,737
Parkville School	\$174,154
Saddle Rock School	\$253,940
North High School	\$467,676
North Middle School	\$461,606
South Complex HS/MS	\$1,120,595
Phipps Administration	\$55,096
Clover Drive Adult Center	\$137,798
Cumberland Community Education	\$96,276
Great Neck Social Center	\$151,837
Village School	\$8,347
Total Savings	\$3,643,940

Fuel TOTAL: \$3,643,940

Electric + Fuel TOTALS: \$5,573,753

Questions