

Energy Conservation Measures Could Save District \$591K Annually

Johnson Controls presented an energy performance project plan to the Levittown School District Wednesday.

Posted by [Steven Nicaastro](#) (Editor), August 29, 2013 at 05:00 AM



The scene from Wednesday night's board of education meeting.

An energy conservation project by Johnson Controls, Inc. could save the Levittown School District \$591,379 annually in pure energy savings, according to a presentation at Wednesday night's board meeting.

The project would cost the district \$11 million to complete but would come out of budgeted utility and operational costs, with no need of an increase in taxes. Construction on the project would commence in June of 2014 and would be completed the following year, according to the presentation.

"Energy performance contracting has become extremely popular among school districts because it is a tested, proven and legally recognized mechanism for school districts to make capital upgrades that save energy," said Kendra McQuilton, Director of Business Development at ECG Engineering, the district's energy consultant.

The project includes a total of 15 facility improvement measures, including changes to the schools gyms, lighting and heating systems, pipe and valve insulation and exterior upgrades.

Among the biggest energy conservation methods that would be taken is the complete overhaul of lighting and lighting controls. The project would replace 14,000 interior lighting fixtures and 316 exterior fixtures, with lighting control sensors. This step alone would save the district \$197,064 a year, according to the presentation. Other energy conservation measures include pipe and valve insulation (\$46,114 savings), boilers and domestic hot water heater controllers (\$23,054), and vending machine controllers (\$2,927).

The plan also includes the installation of solar panels for photovoltaic electric generation at Division High School.

The total annual costs for the district would be \$14,126,314, but the project would yield a total annual savings of \$18,475,897, resulting in positive cash flow of just over \$5 million, said Danny Haffel, Director of Business Development at Johnson Controls, Inc.

One of the reasons the Levittown School District chose Johnson Controls, Inc. for the project is because of their success [installing energy efficient measures](#) with the Island Trees School District, said Trustee Michael Pappas.

"We saw what they did with Island Trees and we are very impressed with that," Pappas said.

The board of education is expected to authorize the contract next month, with construction to commence in June 2014, and the project expected to be completed in November 2015.

The next Levittown Board of Education meeting will be held on Wednesday, September 11 at Levittown Memorial Education Center.



Danny Haffel, Director of Business Development at Johnson Controls, Inc., said the project would result in positive cash flow of just over \$5 million for the district.

Energy Conservation Measures - Lighting and Lighting Controls

- Interior Fixtures: 14,000+
- Exterior Fixtures: 316
- New Lighting Control Sensors to be installed: 977

Example of Islip UFSD Gymnasium

Before Lighting Retrofit After Lighting Retrofit

Johnson Controls Annual Savings: \$197,064

A before and after example from the Islip UFSD gymnasium, the project would replace 14,000 interior fixtures and 316 exterior fixtures, including Indoor control sensors.