

Executive Summary: LED Lighting & Energy Efficiency Upgrades

We have received detailed LED lighting retrofit proposals from Windy City Lighting under the ComEd Energy Efficiency Program for both Stillman Valley High School and Meridian Junior High School. By leveraging ComEd instant incentives and accounting for work already completed in the gymnasiums, the district can significantly lower upfront capital outlays while reducing long-term energy consumption, operating costs, and maintenance requirements across both campuses.

Project & Financial Summary

The original proposal costs reflected the net out-of-pocket expenses due to Windy City Lighting after applying all ComEd instant incentives. Factoring in our deductions for work already completed in the gyms (\$2,970 at the High School and \$1,200 at the Junior High), the updated financial breakdown is as follows:

Location	Total Gross Project Cost	Total ComEd Instant Incentives	Initial Out-of-Pocket Net Cost	Estimated Annual Savings	Estimated Payback Period
Stillman Valley High School	\$79,163.05	\$33,573.05	\$45,590.00	\$6,630.06/yr	~6.9 Years
Meridian Junior High School	\$41,988.50	\$19,838.50	\$22,150.00	\$3,406.25/yr	~6.5 Years
TOTAL	\$121,151.55	\$53,411.55	\$67,740.00	\$10,036.31/yr	~6.75 Years

Key Financial & Environmental Highlights

- 44% Net Cost Covered by Incentives & Deductions: Of the total \$121,151.55 in gross improvements, \$53,411.55 is covered directly via instant ComEd incentives, and \$4,170 is deducted for pre-completed gym work.
- Rapid Payback: The junior high payback period is estimated to be 6.5 years, while the high school payback period is about 6.9 years.
- Substantial Energy Savings: The upgraded fixtures and Networked Lighting Controls (NLC) will reduce combined district energy usage by 125,454 kWh/year (~82,876 kWh reduction at SVHS and ~42,578 kWh reduction at MJHS).
- Environmental Reduction: Combined carbon footprint reduction is 42.58 metric tons of CO₂e annually (equivalent to removing over 13 passenger vehicles from the road each year).

Scope of Work (Adjusted)

1. Stillman Valley High School:
 - Complete retrofit/replacement of standard fluorescent fixtures with modern LED flat panels (2x4 and 2x2) in classrooms and hallways.
 - LED retrofits in specialty spaces including shop areas, storage spaces, and offices.
 - Networked Lighting Controls (99 units) for automated dimming and energy management.
 - Adjustment: High-bay lighting work in the Main Gym, Aux Gym, and Multipurpose room (99 fixtures at \$30/ea = \$2,970) has been completed and removed from the total cost payable.
2. Meridian Junior High School:
 - Upgrades to 2x4 and 2x2 LED flat panel fixtures throughout instructional spaces.
 - Type C LED tube retrofits and strip fixtures in restrooms, offices, library, and common areas.
 - Networked Lighting Controls (21 units).
 - Adjustment: High-bay fixture installation in the Big Gym (21 fixtures at \$30/ea + associated charges = \$1,200) has been completed and removed from the total cost payable.

Warranties & Terms

- Equipment: 5-year manufacturer warranty on LED retrofit kits/fixtures and sensors; 3-year warranty on Type C LED tube/driver retrofits.
- Labor & Materials: 1-year warranty on installation.
- Recycling: Includes full recycling and safe disposal of all old fluorescent lamps and ballasts in accordance with environmental standards.

Recommendation

I recommend the Board of Education consider the approval of both proposals from Windy City Lighting. Approving the net investment of \$67,740.00 allows the district to lock in \$53,411.55 in utility incentive funds before program allocations expire, while delivering over \$10,000 in recurring annual operational savings back to the district's budget.