

Case Study for:  
**New Brunswick Public Schools**  
Middlesex County, New Jersey



Case Study:  
**New Brunswick Public Schools**

Education

## Case Study: New Brunswick Public Schools

“ This innovative project will upgrade the school district’s energy systems without any impact to our taxpayers and will reduce our carbon footprint immensely. Our school community embraces change, and I congratulate the Board of Education for taking on this remarkable task.”

- New Brunswick Mayor Jim Cahill



**ENERGY SAVINGS**



**PAYBACK PERIOD**



**IMPROVED EFFICIENCY**

### LED LIGHTING TECHNOLOGY USED

- 2' 9W G3 Tubes
- 2' 9W G3 Tubes
- 4' 15W G3 Tubes
- HP 22W Bulbs
- HP 200W 5000K 120° High Bays



### PRODUCT BENEFITS

#### OPERATIONAL

- 3X greater lamp life than fluorescent, supported by industry-leading 10-year warranty
- 70,000 hour lamp life reduces long-term maintenance costs
- Instant on, no warm-up time

#### SAFETY

- No glass
- Negligible light depreciation over time
- Superior light output

#### SUSTAINABILITY

- Lack of UV or IR minimizes concerns with fading or discoloration
- Mercury-free, allowing for non-hazardous disposal
- 100% recyclable

### OPPORTUNITY

In 2013, New Brunswick Public Schools began to consider a lighting upgrade after a consultant’s study indicated a lighting upgrade would meet the “go forward” criteria defined as “medium payback” at between 5-10 years. An LED lighting retrofit provided the solution. New Brunswick chose Johnson Controls (JCI), a global diversified technology and industrial leader serving customers in more than 150 countries, as their energy contractor. They manage all aspects of sustainability projects, are experts in schools, and have implemented solid state lighting technology with prior projects. JCI chose to partner with Tri-State LED, located in Greenwich, Connecticut, a division of Revolution Lighting, to upgrade the New Brunswick school system to LED.

### SOLUTION

Tri-State LED provided detailed audits, samples, financial models, and onsite services to support Johnson Controls and their affiliates. Because JCI was involved in several sustainability projects for New Brunswick, other than the lighting upgrades, they needed a dependable contractor experienced with all electrical components, including LED lighting, so they chose Facility Solutions Group (FSG). Total energy and maintenance savings to the district is estimated at \$3.5 million over 10 years. The New Brunswick project is a wonderful example of teamwork and success.