

# Durham Catholic District School Board

## LED Lighting Retrofit Program



### Introduction

At the Durham Catholic District School Board, we have 45 elementary and secondary schools in Pickering, Ajax, Whitby, Oshawa, Scugog, Uxbridge and Brock. We serve over 23,000 students, in addition to thousands of adult and continuing education learners through our three continuing education centres.

We are committed to environmental sustainability, and as part of this commitment, we have made energy management a priority. This year, we will be completing the largest phase of our multi-year LED lighting retrofit project.

By the end of 2024, we will have retrofitted 40 schools with LED lighting. This will reduce our electricity consumption by over 2 million kWh per year, which is enough electricity to power 200 homes.

### Project Highlights

- Lighting contributes to a significant amount of electricity consumption in our schools.
- DCDSB identified LED lighting technology as an opportunity to reduce energy consumption.
- The largest phase of our retrofits started in 2016 and are expected to be complete by the end of 2024.
- 37 Schools have been retrofitted with LED lighting technology and the remaining 3 will be retrofitted by the end of 2024.

### Yearly Energy Savings



### Before and After - 2016 vs 2024

- This project has reduced our electricity consumption by 2,351,328 kWh per year.
- Reduction of 980 Metric Tons of Carbon Dioxide (CO2) yearly.

### Project Benefits

#### Energy Savings

- LED bulbs consume approximately 60% less electricity than fluorescent bulbs.
- Reduction in greenhouse gas emissions  
Lower electricity bills.

#### Reduced Maintenance Costs

- LED bulbs have a longer lifespan.
- Replacement of all lighting components, including bulbs, fixtures and ballast have resulted in lower maintenance costs.

#### Improved Lighting Conditions

- Enhanced learning and working environments for students and staff.

