

CASE STUDY: TYNDALE UNIVERSITY COLLEGE & SEMINARY

BETTER BUILDINGS PARTNERSHIP



Project Address:
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Key Contacts:
Scott Rough
Manager Campus Operations

Project Background

Tyndale University College & Seminary is a trans-denominational, evangelical university college offering certificates and bachelor's degrees in humanities, social sciences and business; while the seminary offers master's and doctoral degrees in divinity and theology. With much of the campus comprising of older buildings built in the 1960's and 1970's, Tyndale wanted to reduce operation costs and become a more energy efficient campus.

After a lighting audit was conducted by Trace Electric, it was clear that there were opportunities for improvement. Tyndale College contacted the City of Toronto's Better Buildings Partnership to access information and resources for their lighting retrofit projects.

Project Snapshot

Project cost: \$156,628

Annual electricity savings:
213,214 kWh

Annual cost savings:
\$21,321

Annual CO₂ savings:
205,112 kg of CO₂

BBP Incentives: \$46,592



Challenges

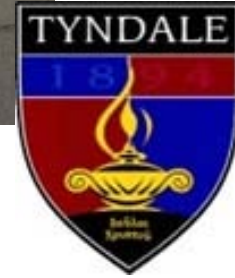
Tyndale College sought to undertake projects to reduce the carbon footprint of its buildings and minimize energy operating costs by upgrading their outdated lighting system without disrupting classes and student life.

Solution

The Better Buildings Partnership played an important role in helping Tyndale University College access energy savings incentives, enabling it to do more with its budget. The existing lighting consisted of T12 linear fluorescents, incandescent and metal halide lamps. The College's plan included switching to an energy efficient lighting system including T8 linear fluorescents lamps complete with electronic ballasts, compact fluorescents and LED exit signs. The project implemented include:

- Gymnasium lighting upgrade – light retrofit: metal halide to T8 Fluorescent High Bay Lighting
- Lighting upgrade – light retrofit: T12 Fluorescent, incandescent to T8 Fluorescent, Compact Florescent , LED Exit Signs

“The upgrades that we implemented to our lighting system are expected to deliver a savings of about 34% annually, lowering the payback period to just 5.63 years”, said Scott Rough, Manager of Campus Operations at Tyndale College.” Not to mention, we've reduced our environmental footprint by about 185,884 kg of CO2 annually – that's the equivalent of taking 41 cars off the road. These projects were made possible with the help of the Better Buildings Partnership.”



Results

The energy efficient upgrades to Tyndale University College facilities resulted in 213,214 kWh of annual electricity savings and an annual greenhouse gas savings of 205,112 kg of CO2. These reductions provide an annual cost savings of \$21,321. The payback period of 5.63 years was accomplished with the support of a \$36,592.00 incentive received from the Better Buildings Partnership.

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Scott Rough,
Manager of Campus Operations
at Tyndale College

About the City of Toronto

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For more information
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