

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE REGULAR MEETING Public Session

AGENDA June 6, 2019

Nancy Crawford, Chair
Trustee Ward 12

Norman Di Pasquale, Vice Chair
Trustee Ward 9

Frank D'Amico
Trustee Ward 6

Markus de Domenico
Trustee Ward 2

Michael Del Grande
Trustee Ward 7

Daniel Di Giorgio
Trustee Ward 10

Taylor Dallin
Student Trustee

Angela Kennedy
Trustee Ward 11

Ida Li Preti
Trustee Ward 3

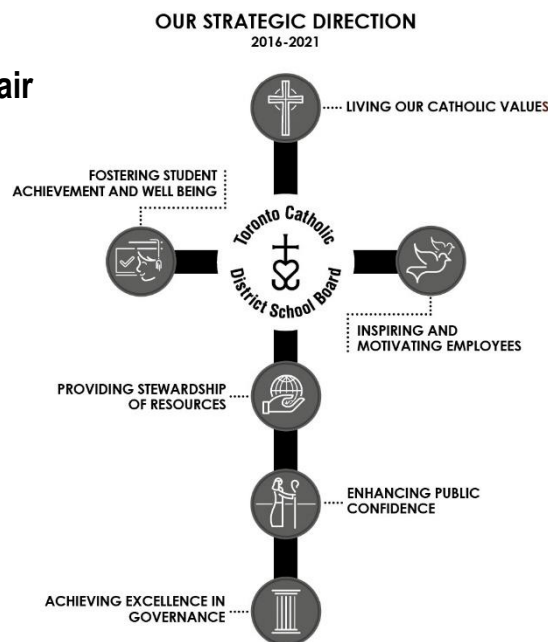
Teresa Lubinski
Trustee Ward 4

Joseph Martino
Trustee Ward 1

Maria Rizzo
Trustee Ward 5

Garry Tanuan
Trustee Ward 8

Joel Ndongmi
Student Trustee



MISSION

*The Toronto Catholic District School Board is an inclusive learning community uniting home, parish and school and rooted in the love of Christ.
We educate students to grow in grace and knowledge to lead lives of faith, hope and charity.*

VISION

At Toronto Catholic we transform the world through witness, faith, innovation and action.

Recording Secretary: Sophia Harris, 416-222-8282 Ext. 2293
Assistant Recording Secretary: Sonia Tomaz, 416-222-8282 Ext. 2298

Rory McGuckin
Director of Education

Maria Rizzo
Chair of the Board

TERMS OF REFERENCE FOR CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

The Corporate Services, Strategic Planning and Property Committee shall have responsibility for considering matters pertaining to:

- (a) Business services including procurement, pupil transportation risk management/insurance and quarterly financial reporting
- (b) Facilities (buildings and other), including capital planning, construction, custodial services, design, maintenance, naming of schools, enrolment projections and use permits
- (c) Information Technology including, computer and management information services
- (d) Financial matters within the areas of responsibility of the Corporate Services, Strategic Planning and Property Committee including budget development
- (e) Policy development and revision in the areas of responsibility of the Corporate Services, Strategic Planning and Property Committee
- (f) Policies relating to the effective stewardship of board resources in the specific areas of real estate and property planning, facilities renewal and development, financial planning and information technology
- (g) The annual operational and capital budgets along with the financial goals and objectives are aligned with the Board's multi-year strategic plan
- (h) Any matter referred to the Corporate Services, Strategic Planning and Property Committee by the Board
- (i) Intergovernmental affairs and relations with other outside organizations
- (j) Advocacy and political action
- (k) Partnership development and community relations
- (l) Annual strategic planning review and design

OUR MISSION

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AGENDA THE REGULAR MEETING OF THE CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

PUBLIC SESSION

Nancy Crawford, Chair

Norman Di Pasquale, Vice-Chair

Thursday, June 6, 2019

7:00 P.M.

Pages

1. Call to Order
2. Opening Prayer (Chair or Designate)
3. Singing of O Canada
4. Roll Call and Apologies
5. Approval of the Agenda
6. Report from Private Session
7. Declarations of Interest
8. Approval & Signing of the Minutes of the Meeting held May 9, 2019 for Public Session. 1 - 24
9. Delegations
- 9.a Jennifer Di Francesco, Chair of the Catholic School Parent Council (CSPC) at St. Eugene Catholic School, regarding St. Eugene Traffic Safety 25

9.b	Benjamin Stein, representative for Greenwood Yards East Toronto Residents Organization, regarding Noise and Light Pollution at 49 Felstead Avenue	26 - 27
10.	Presentation	
10.a	Energy Conservation and Demand Management Plan - Enerlife Consulting Inc. (Refer Item 15e)	
11.	Notices of Motion	
12.	Consent and Review	
13.	Unfinished Business	
14.	Matters referred or deferred	
15.	Staff Reports	
15.a	Liquor Waiver for Cardinal Carter Academy for the Arts Event on June 8, 2019 (Recommendation)	28 - 29
15.b	Liquor Waiver for St. Pius X Catholic School Event on June 15, 2019 (Recommendation)	30 - 31
15.c	Liquor Waiver for Loretto College School Event on June 21, 2019 (Recommendation)	32 - 33
15.d	Liquor Waiver for Mary Ward Catholic Secondary School Event on June 24, 2019 (Recommendation)	34 - 35
15.e	2019-2023 Toronto Catholic District School Board Energy Conservation and Demand Management Plan (All Wards) (Refer Item 10a) (Recommendation)	36 - 94
15.f	Blessed Cardinal Newman Catholic Secondary School Capital Project Architect Award and Project Budget Approval (Ward 12) (Recommendation)	95 - 100
15.g	St. Augustine Catholic School Capital Project Budget Increase (Ward 3) (Recommendation)	101 - 104

15.h	St. John The Evangelist Catholic School Capital Project Budget Increase (Ward 10) (Recommendation)	105 - 108
15.i	Delegating of Authority for Approval of Summer Contract Awards 2019 (All Wards) (Recommendation)	109 - 112
15.j	2019-20 Budget Estimates – Overall and Instructional Volumes 1,2,3,4 (Recommendation)	113 - 129
15.k	2019-20 Budget Estimates – Non Instructional Volumes 5,6 (Recommendation)	130 - 139
16.	Listing of Communications	
17.	Inquiries and Miscellaneous	
18.	Updating of the Pending Lists	
18.a	Annual Calendar of Reports and Policy Metrics	140 - 141
18.b	Monthly Pending List	142
19.	Resolve into FULL BOARD to Rise and Report	
20.	Closing Prayer	
21.	Adjournment	

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MINUTES OF THE REGULAR MEETING OF THE CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE PUBLIC SESSION

HELD MAY 9, 2019

Trustees:

- N. Crawford, Chair
- N. Di Pasquale, Vice Chair
- F. D'Amico
- M. de Domenico
- M. Del Grande
- D. Di Giorgio
- I. Li Preti
- T. Lubinski
- J. Martino
- M. Rizzo
- G. Tanuan

Staff:

- R. McGuckin
- D. Koenig
- L. Noronha
- A. Della Mora
- S. Camacho
- P. De Cock
- D. Friesen
- M. Loberto
- S. Vlahos

S. Harris, Recording Secretary
S. Tomaz, Assistant Recording Secretary

External Guest: A. Robertson, Parliamentarian

4. Roll Call and Apologies

An apology was received from Trustee Kennedy.

5. Approval of the Agenda

MOVED by Trustee Di Pasquale, seconded by Trustee Del Grande, that the Agenda, as amended to include the Addendum and to add Item 17a) Inquiry from Trustee Rizzo regarding Playground Forms, be approved.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

6. Report from Private Session

MOVED by Trustee Di Pasquale, seconded by Trustee Martino, that the matters discussed in PRIVATE Session, regarding the approval of Minutes of April 11, 2019 meeting, verbal updates from external Legal Counsel and the Director of Education concerning litigation and labour relations matters respectively, be approved:

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

7. Declarations of Interest

Trustees Del Grande and Kennedy declared an interest in PRIVATE Session regarding a labour and budget matter.

There were none in DOUBLE PRIVATE Session.

Trustee Del Grande declared an interest in Items 15d) 2019-20 Budget Impacts and Grants for Student Needs Announcement – Overall and Instructional Related, and 15e) 2019-20 Budget Impacts and Grants for Student Needs Announcement – Non-Instructional Related as he has a family member who is an employee of this Board. Trustee Del Grande indicated that he would neither vote nor participate in the discussions regarding the Items.

8. Approval and Signing of the Minutes of the Meeting

MOVED by Trustee Di Pasquale, seconded by Trustee Tanuan, that the Minutes of the Regular Meeting held April 11, 2019 for PUBLIC Session be approved.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

Trustee de Domenico joined the horseshoe at 7:24 pm.

9. Delegations

MOVED by Trustee Tanuan, seconded by Trustee Lubinski, that Item 9a) be adopted as follows:

- 9a) **Heather Farragher regarding the Necessity of Continued Funding for Library Learning Commons and Teacher-Librarians** received.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
de Domenico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee Di Pasquale, seconded by Trustee Lubinski, that Item 9b) be adopted as follows:

- 9b) Sophia Barcellona regarding Future Success of Students from 5th Block** received and referred to staff.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
de Domenico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee Rizzo, seconded by Trustee Lubinski, that Item 9c) be adopted as follows:

- 9c) Domenico Paglia, representative for CUPE Local 3155 International Language, regarding 2019-20 Budget Impacts and Grants for Student Needs** received and referred to staff.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
de Domenico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

Trustee de Domenico left the horseshoe at 7:45 pm.

MOVED by Trustee Del Grande, seconded by Trustee Di Pasquale, that Item 9d) be adopted as follows:

- 9d) Tizziana Bruni regarding 5th Block at St. Nicholas Catholic School** received and referred to staff.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee D'Amico, seconded by Trustee Di Pasquale, that Item 9e) be adopted as follows:

- 9e) Veronica Furtado, Co-Chair of the CSPC for St. Paul VI Catholic School, regarding Support of Funding for 5th Block Program** received and referred to staff.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale

Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee D'Amico, seconded by Trustee Tanuan, that Item 9f) be adopted as follows:

- 9f) **Helena Olviedo regarding Save the 5th Block program** received and referred to staff.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

Trustee de Domenico returned to the horseshoe at 7:56 pm.

Trustee D'Amico left the horseshoe at 7:56 pm and returned at 7:57 pm.

Trustee Del Grande left the horseshoe at 7:58 pm.

12. Consent and Review

The Chair reviewed the Order Paper and the following Items were held:

- 15a) Trustee Rizzo;
- 15b) Trustee Rizzo;
- 15c) Trustee Li Preti;
- 15d) Trustee Di Giorgio;
- 15e) Trustee Di Pasquale; and
- 17a) Trustee Rizzo

MOVED by Trustee D'Amico, seconded by Trustee Lubinski, that the Items not held be received.

Trustee Del Grande returned to the horseshoe at 8:01 pm.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
de Domenico
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

ITEMS AS CAPTURED IN THE ABOVE MOTION

- 18a) Annual Calendar of Reports and Policy Metrics; and
- 18b) Monthly Pending List

15. Staff Reports

MOVED by Trustee Di Pasquale, seconded by Trustee D'Amico, that Item 15a) be adopted as follows:

- 15a) Liquor Waiver for St. John Paul II Catholic Secondary School Event on May 31, 2019** that Regulation 6 of Appendix A of the Permits Policy B.R. 05 be waived and that permission be granted to serve alcohol at St. John Paul II Catholic Secondary School on May 31, 2019 for the alumni event.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Del Grande
de Domenico
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee Rizzo, seconded by Trustee Del Grande, that Item 15b) be adopted as follows:

- 15b) A.18 – Development Proposals, Amendments of Official Plan and By-Laws Annual Reporting Requirement received.**

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford

D'Amico
Del Grande
de Domenico
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Martino
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee Li Preti, seconded by Trustee D'Amico, that Item 15c) be adopted as follows:

15c) Cooling Strategy Status Update (All Wards) received.

Trustee Crawford relinquished the Chair to Trustee Di Pasquale, and left the horseshoe at 8:26 pm. and returned at 8:31 pm.

Trustee Di Giorgio left the left the horseshoe at 8:41 pm. and returned at 8:43 pm.

Time for business expired and was extended by 15 minutes by majority consent, as per Article 12.6, as follows to complete debate on the Item:

Results of the Vote taken, as follows:

In favour

Opposed

Trustees	Crawford	Martino
	D'Amico	
	Del Grande	
	de Domenico	
	Di Giorgio	
	Di Pasquale	
	Li Preti	
	Lubinski	
	Rizzo	
	Tanuan	

Time for business expired and was extended by an additional 15 minutes by majority consent, as per Article 12.6, as follows to complete debate on the Item:

Results of the Vote taken, as follows:

In favour

Opposed

Trustees	D'Amico	Crawford
	Del Grande	de Domenico
	Di Giorgio	Martino
	Di Pasquale	
	Li Preti	
	Lubinski	
	Rizzo	
	Tanuan	

MOVED by Trustee Martino, seconded by Trustee Di Giorgio, that the Question be called.

Results of the Vote taken, as follows:

<u>In favour</u>	<u>Opposed</u>
Trustees Crawford	Di Pasquale
D'Amico	Li Preti
Del Grande	Rizzo
de Domenico	
Di Giorgio	
Lubinski	
Martino	
Tanuan	

The Motion was declared

CARRIED

Results of the Vote taken on the Motion of Receipt, as follows:

<u>In favour</u>	<u>Opposed</u>
Trustees Crawford	Li Preti
D'Amico	Rizzo
Del Grande	
de Domenico	
Di Giorgio	
Di Pasquale	
Lubinski	
Martino	
Tanuan	

The Motion of Receipt was declared

CARRIED

Trustee Crawford reassumed the Chair at 9:11 pm.

Trustee Del Grande left the horseshoe at 9:13 pm, due to a Declaration of Interest in Item 15d), as earlier indicated.

MOVED by Trustee Tanuan, seconded by Trustee Di Pasquale, that Item 15d) be adopted as follows:

15d) 2019-20 Budget Impacts and Grants for Student Needs Announcement – Overall and Instructional Related received.

Trustee D’Amico left the horseshoe at 9:13 pm.

Trustee Rizzo left the horseshoe at 9:15 pm.

Trustees D’Amico and Rizzo returned to the horseshoe at 9:20 pm.

Trustee Lubinski left the horseshoe at 9:30 pm and returned at 9:34 pm.

MOVED in AMENDMENT by Trustee Tanuan, seconded by Trustee Lubinski, that staff consider that the Catholic Teachers Centre (CTC) Central Resource Teachers be maintained and adjust the reduction of Central Religious Materials Allocation for the great Nurturing our Catholic Community (NCC) programs to continue and keep our Living our Catholic values alive.

MOVED by Trustee Rizzo, seconded by Trustee Di Pasquale, that the Amendment be deferred until the Technical Papers from the Ministry are received.

The ruling of the Chair to allow the Associate Director of Business and Community Development and Chief Financial Officer to speak on the deferral of the Amendment was challenged by Trustee Martino.

Results of the Vote taken on the Ruling of the Chair, as follows:

In favour

Trustees Crawford
Lubinski
Tanuan

Opposed

D'Amico
de Domenico
Di Giorgio
Di Pasquale
Li Preti
Martino
Rizzo

The Ruling of the Chair was not withheld.

Results of the Vote taken on the Deferral of the Amendment, as follows:

In favour

Trustees Crawford
D'Amico
de Domenico
Di Giorgio
Di Pasquale
Li Preti

Opposed

Lubinski
Tanuan

Martino
Rizzo

The Motion to Defer the Amendment was declared

CARRIED

Time for business expired and was extended by 15 minutes by majority consent, as per Article 12.6, as follows to complete debate on the Item:

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Di Giorgio
Di Pasquale
Li Preti
Martino
Rizzo
Tanuan

de Domenico
Lubinski

MOVED in AMENDMENT by Trustee Di Giorgio, seconded by Trustee Tanuan, that the survey responses received prior to the survey being amended be presented alongside the responses received following the survey being amended, ensuring all stakeholders who have completed the survey be included in the presentation of results.

Results of the Vote taken on the Amendment, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
De Domenico
Di Giorgio
Di Pasquale
Li Preti
Martino
Tanuan

Lubinski
Rizzo

The Amendment was declared

CARRIED

Time for business expired and the vote to extend the debate by an additional 15 minutes, as per Article 12.6, was lost on a tie, as follows:

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
Di Giorgio
Di Pasquale
Tanuan

de Domenico
Li Preti
Lubinski
Martino
Rizzo

Results of the Vote taken on the Motion, as amended, as follows:

In favour

Opposed

Trustees Crawford
D'Amico
De Domenico
Di Giorgio
Di Pasquale
Li Preti
Martino
Rizzo
Tanuan

Lubinski

The Motion, as amended, was declared

CARRIED

Trustee Del Grande returned to the horseshoe at 10:40 pm.

MOVED by Trustee Rizzo, seconded by Trustee Di Pasquale, that Item 15e) be adopted as follows:

- 15e) 2019-20 Budget Impacts and Grants for Student Needs Announcement – Non-Instructional Related** received.

Trustees D'Amico and Tanuan left the horseshoe at 10:41 pm.

Trustee Del Grande declared an interest in the Item and left the horseshoe at 10:45 pm.

Trustee de Domenico left the meeting at 10:45 pm.

Trustee Tanuan returned to the horseshoe at 10:48 pm.

MOVED in AMENDMENT by Trustee Rizzo, seconded by Trustee Di Pasquale, that staff consider introducing paid parking for the public as locations at the Catholic Education Centre (CEC) and for areas that are deficient in parking, speaking with the Toronto Parking Authority to make sure there are some issues that we can sort out and that this be included as part of the revenue generation in the budget.

Trustee Martino left the meeting at 10:53 pm.

Results of the Vote taken on the Amendment, as follows:

In favour

Opposed

Trustees Crawford
 Di Giorgio
 Di Pasquale
 Li Preti
 Lubinski
 Rizzo
 Tanuan

The Amendment was declared

CARRIED

Results of the Vote taken on the Motion, as amended, as follows:

In favour

Opposed

Trustees Crawford
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Rizzo
Tanuan

The Motion, as amended, was declared

CARRIED

17. Inquiries and Miscellaneous

MOVED by Trustee Rizzo, seconded by Trustee Lubinski, that Item 17a) be adopted as follows:

- 17a) From Trustee Rizzo regarding Playground Forms** received and referred to staff for a report at the June 6, 2019 Corporate Services, Strategic Planning and Property Committee meeting.

Results of the Vote taken, as follows:

In Favour

Opposed

Trustees Crawford
Di Giorgio
Di Pasquale
Li Preti

Lubinski
Rizzo
Tanuan

The Motion was declared

CARRIED

19. Resolve into FULL BOARD to Rise and Report

MOVED by Trustee Di Pasquale, seconded by Trustee Tanuan, that the meeting resolve into FULL BOARD to Rise and Report.

Results of the Vote taken, as follows:

In favour

Opposed

Trustees Crawford
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Rizzo
Tanuan

The Motion was declared

CARRIED

MOVED by Trustee Rizzo, seconded by Trustee Di Pasquale that the meeting resolve into DOUBLE PRIVATE Session.

Results of the Vote taken, as follows:

In favour

Opposed

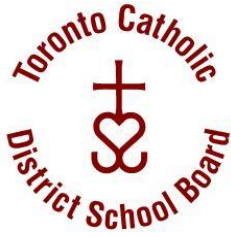
Trustees Crawford
Di Giorgio
Di Pasquale
Li Preti
Lubinski
Rizzo
Tanuan

The Motion was declared

CARRIED

SECRETARY

CHAIR



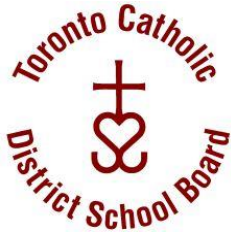
TORONTO CATHOLIC DISTRICT SCHOOL BOARD

DELEGATION REGISTRATION FORM FOR STANDING OR OTHER COMMITTEES

**PLEASE BE ADVISED THAT ALL STANDING
COMMITTEE MEETINGS ARE BEING RECORDED**

<u>For Board Use Only</u>
Delegation No. _____
<input type="checkbox"/> Public Session <input type="checkbox"/> Private Session <input type="checkbox"/> Three (3) Minutes

Name	Jennifer Di Francesco
Committee	Corporate Affairs Strategic Planning and Property
Date of Presentation	06/06/2019
Topic of Presentation	St. Eugene Traffic Safety
Topic or Issue	Speaking to the increased traffic congestion and parking compliance issues at St. Eugene.
Details	Speaking to the increased traffic congestion and parking compliance issues at St. Eugene. And the implementation of phase 3 from the traffic study that was done by Paradigm project # 180161.
Action Requested	St. Eugene wants a car loop built, possibly a bus bay and a traffic bar for the staff parking lot but not limited to these items.
I am here as a delegate to speak only on my own behalf	{) I am here as a delegation to speak only on my own behalf }
I am an official representative of the Catholic School Parent Committee (CSPC)	Yes St Eugene Chair
I am an official representative of student government	
I am here as a spokesperson for another group or organization	
I have read, understand and agree to comply with the rules for Delegations as per the TCDSB Delegations Policy T.14.	I Agree



TORONTO CATHOLIC DISTRICT SCHOOL BOARD

DELEGATION REGISTRATION FORM FOR STANDING OR OTHER COMMITTEES

**PLEASE BE ADVISED THAT ALL STANDING
COMMITTEE MEETINGS ARE BEING RECORDED**

For Board Use
Only

Delegation No. _____

☐ Public Session
☐ Private Session
☐ Three (3)
 Minutes

Name	Benjamin Stein
Committee	Corporate Affairs Strategic Planning and Property
Date of Presentation	6/6/2019
Topic of Presentation	Noise and light pollution at 49 Felstead Avenue
Topic or Issue	Late night and early morning commercial rental of St Patrick's School field
Details	Stadium lighting shining into residential backyards until 11pm Whistle, yelling, balls kicked into chain link fence as early as 8am and late as 11pm, seven days a week. After hours drinking in school parking lot trespassing property damage parking congestion
Action Requested	Curtailment of commercial rental of field outside school hours Curtailment of number of games taking place at any one time Phone Liaison for late night and early morning noise complaints Establishment of liaison committee with TCDSB and area residents Longer term sound mitigation
I am here as a delegate to speak only on my own behalf	{ 1) I am here as a delegation to speak only on my own behalf }
I am an official representative of the Catholic School Parent Committee (CSPC)	
I am an official representative of student government	
I am here as a spokesperson for another group or organization	Yes Greenwood Yards East Toronto Residents Organization

I have read, understand and agree to comply with the rules for Delegations as per the TCDSB Delegations Policy T.14.

I Agree

Submittal Date 5/24/2019



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

LIQUOR WAIVER FOR CARDINAL CARTER ACADEMY FOR THE ARTS

Ephesians 5:18 - And be not drunk with wine, wherein is excess; but be filled with the Spirit;

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Click or tap to enter a date.

Choose an item.

First Tabling

June 6, 2019

Review

Click here to enter a review date

RECOMMENDATION REPORT

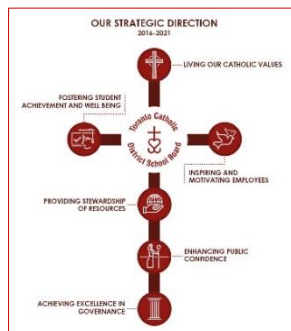
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R. McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and Chief
Financial Officer

A. EXECUTIVE SUMMARY

Notification was received from Trustee Maria Rizzo that Staff Arts is planning a closing night party for cast and crew at Cardinal Carter Academy of the Arts on Saturday, June 8, 2019

B. PURPOSE

A request was received from Staff arts to serve alcohol at their closing night party, from 11 p.m. to 2 a.m. on June 8, 2019.

C. BACKGROUND

Notification was received from Trustee Maria Rizzo to waive Regulation 6, of Appendix A of the Permits Policy B.R. 05, in order to be able to serve alcohol at Cardinal Carter Academy for the Arts on June 8, 2019 Staff Arts closing night party.

D. STAFF RECOMMENDATION

Staff recommends that this report be presented for the action of the Board.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

LIQUOR WAIVER FOR ST. PIUS X CATHOLIC SCHOOL

Ephesians 5:18 - And be not drunk with wine, wherein is excess; but be filled with the Spirit;

Created, Draft

Click or tap to enter a date.

Choose an item.

First Tabling

June 6, 2019

Review

Click here to enter a review date

RECOMMENDATION REPORT

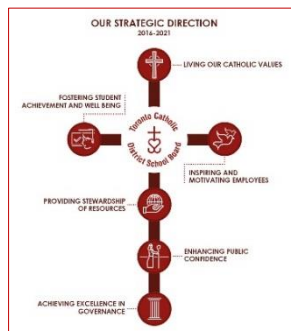
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Mission:

The Toronto Catholic District School Board is an inclusive learning community uniting home, parish and school and rooted in the love of Christ.

We educate students to grow in grace and knowledge to lead lives of faith, hope and charity.



R. McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and Chief
Financial Officer

A. EXECUTIVE SUMMARY

Notification was received from Trustee Teresa Lubinski that the St. Pius X CSPC is planning a family fun day event at St. Pius X Catholic School on Saturday, June 15, 2019

B. PURPOSE

A request was received from St. Pius X Catholic School to serve alcohol at their alumni event, from 11 a.m. to 4 p.m. on June 15, 2019.

C. BACKGROUND

Notification was received from Trustee Teresa Lubinski to waive Regulation 6, of Appendix A of the Permits Policy B.R. 05, in order to be able to serve alcohol at St. Pius X Catholic School on June 15, 2019 for the family fun day event.

D. STAFF RECOMMENDATION

Staff recommends that this report be presented for the action of the Board.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

LIQUOR WAIVER FOR LORETTO COLLEGE SCHOOL

Ephesians 5:18 - And be not drunk with wine, wherein is excess; but be filled with the Spirit;

Created, Draft

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Choose an item.

First Tabling

June 6, 2019

Review

Click here to enter a review date

RECOMMENDATION REPORT

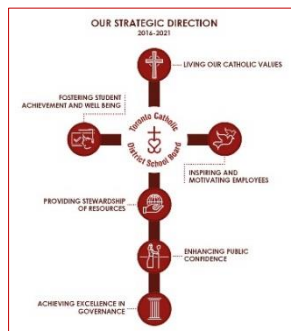
Vision:

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Financial Officer

A. EXECUTIVE SUMMARY

Notification was received from Trustee Frank D'Amico that Loretto College School staff are planning staff retirement party at Loretto College School on Friday, June 21, 2019

B. PURPOSE

A request was received from Loretto College School to serve alcohol at their staff retirement party, from 6:30 p.m. to 10:30 p.m. on June 21, 2019.

C. BACKGROUND

Notification was received from Trustee Frank D'Amico to waive Regulation 6, of Appendix A of the Permits Policy B.R. 05, in order to be able to serve alcohol at Loretto College School on June 21, 2019 for the staff retirement party.

D. STAFF RECOMMENDATION

Staff recommends that this report be presented for the action of the Board.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

LIQUOR WAIVER FOR MARY WARD CATHOLIC SECONDARY SCHOOL

Ephesians 5:18 - And be not drunk with wine, wherein is excess; but be filled with the Spirit;

Created, Draft	First Tabling	Review
Click or tap to enter a date.	June 6, 2019	Click here to enter a review date

Choose an item.

RECOMMENDATION REPORT

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Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and Chief
Financial Officer

A. EXECUTIVE SUMMARY

Notification was received from Trustee Michael Del Grande that Mary Ward Catholic Secondary School staff are planning staff retirement party at Mary Ward Catholic Secondary School on Monday, June 24, 2019

B. PURPOSE

A request was received from Mary Ward Catholic Secondary School to serve alcohol at their alumni event, from 4 p.m. to 8 p.m. on June 24, 2019.

C. BACKGROUND

Notification was received from Trustee Michael Del Grande to waive Regulation 6, of Appendix A of the Permits Policy B.R. 05, in order to be able to serve alcohol at Mary Ward Catholic Secondary School on June 24, 2019 for the staff retirement party.

D. STAFF RECOMMENDATION

Staff recommends that this report be presented for the action of the Board.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

2019-2023 TCDSB ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN (ALL WARDS)

*"I can do all things through Him who strengthens me."
Philippians 4:13 (NRSVCE)*

Created, Draft	First Tabling	Review
April 30, 2019	June 6, 2019	
K. Elgharbawy, Senior Coordinator, Maintenance and Energy Management F. Cifelli, D. Yack, J. Shanahan, J. Wujek, K. Malcolm, M. Caccamo, P. Aguiar, S. Campbell Superintendents of Learning, Student Achievement and Well-Being D. Friesen, (Acting) Executive Superintendent of Facilities Services		

RECOMMENDATION REPORT

Vision:

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Rory McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and
Chief Financial Officer

A. EXECUTIVE SUMMARY

This report recommends that the Board approve the 2019-2023 Energy Conservation and Demand Management (ECDM) Plan, included as Appendix A, as required by Ontario Regulation 507/18 under the Electricity Act.

The ECDM Plan recommends the following measures to achieve an 11% reduction in energy use over five years in all Board facilities with respect to the baseline year of 2017-2018:

- Targeted investment into the Board's highest savings potential schools to implement energy retrofits;
- Enhanced energy performance monitoring and reporting system;
- Enforcement of established board-wide operating standards such as temperature set points and ventilation operating times;
- Implementation of board-wide energy-efficient design and commissioning standards;
- Staff and stakeholder engagement – education, communication and recognition.

With an investment of \$9.46M in energy retrofits over five years, plus an annual expenditure of approximately \$300,000 for analytic, coordination and engagement resources, the ECDM Plan predicts a savings in energy costs of \$23.9M after ten years. Potential utility company incentives of \$1.5M would result in total savings after ten years of \$25.4M, netting a surplus of \$12.9M.

This report further recommends approval of the implementation of a five-year facility energy retrofit program as recommended by the 2019-2023 ECDM Plan, with an allocation of \$2M per year in the School Renewal Plan, subject to availability of funding, in order to achieve the energy cost savings outlined in the Plan.

The cumulative staff time required to prepare this report was 26 hours.

B. PURPOSE

1. As per *Ontario Regulation 507/18* under the *Electricity Act, 1998*, on July 1, 2019, and every five years thereafter, every public agency is required to

prepare and publish on its website and intranet site an energy conservation and demand management plan.

2. An energy conservation and demand management plan is composed of two parts as follows:
 - i. *A summary of the public agency's annual energy consumption and greenhouse gas emissions for its operations.*
 - ii. *A description of previous, current and proposed measures for conserving and otherwise reducing the amount of energy consumed by the public agency's operations and for managing the public agency's demand for energy, including a forecast of the expected results of current and proposed measures.*

C. BACKGROUND

1. ***School Boards in Ontario are required to report annually on energy consumption and to prepare and publish an energy conservation and demand management plan every five years.*** This requirement came into place under the *Green Energy Act, 2009*, with the first energy management plans required by 2014. The Board approved TCDSB's initial Energy Conservation and Demand Management (ECDM) Plan on June 5, 2014.
2. ***TCDSB's new ECDM Plan for 2019-2023 must be submitted and published on the Board website by July 1, 2019.*** The *Green Energy Act, 2009*, was repealed on January 1, 2019, however the requirements for broader public sector energy planning and reporting by Ontario agencies were carried over into the new *Ontario Regulation 507/18* enacted January 1, 2019, under the *Electricity Act, 1998*.
3. ***In addition to annual reporting, Board Energy Management staff have implemented the 2013-2018 ECDM Plan by:***
 - Setting energy targets;
 - Closely monitoring the Board's electricity, natural gas, and water consumption independently by using monthly utility bill data by facility;
 - Investigating any unexpected increase or decrease against historical data and to verify billing accuracy;
 - Prioritizing energy upgrades and retrofits in Renewal work;

- Managing the installation of solar photovoltaic panels under incentive programs;
 - Aligning Capital design standards with the ECDM Plan;
 - Creating a framework to support energy use reduction propositions;
 - Conducting periodic review of utility budgets and year to date costs,
 - Monitoring natural gas price signals to identify if there is a need to hedge.
4. ***An energy management specialist was retained to prepare the Board's new five-year ECDM Plan.*** Enerlife Consulting Inc. was retained in July 2018 through a competitive Request for Proposal process. Working with Board Energy Management staff, Enerlife carried out analyses of the results of the Boards 2013-2018 ECDM Plan, current energy use data, the energy use reduction potential of all Board facilities, the cost of the highest potential energy use reduction measures, potential savings over a ten-year period, the payback period and internal rate of return.

D. EVIDENCE/RESEARCH/ANALYSIS

1. ***TCDSB achieved an energy use reduction of 2% from 2013 to 2018.*** While over \$40M was invested into replacement of chillers, boilers, other HVAC equipment and lighting, priority was given to systems reaching the end of their life, where energy savings were not a primary consideration. This also reduced funds available for implementation of other planned energy conservation measures. Energy savings have not yet been fully realized from conservation measures that were carried out towards the end of the five-year period.
2. ***Adjusting indoor temperatures outside of Board-approved set points has played a role in limiting the energy savings realized over the past five years.*** The Board has an approved indoor temperature set point policy of 22°C in the heating season and 25°C in the cooling season. This indoor temperature policy has often been overridden in response to occupant comfort concerns. Centralized control of temperature is not possible where heating and cooling equipment is not connected to a Building Automation System (BAS).
3. ***Lessons learned from the results of the previous Plan have informed the development of the new ECDM Plan which has a goal to reduce energy use by 11%.*** Targeted investment into the Board's highest savings potential schools is recommended to achieve a reduction of 11% in energy use over five

years with the best return on investment. Planned improvements prioritize operational efficiencies and management systems for long-term maintenance of savings. All of the Board's capital renewal projects need to include energy efficiency as a priority consideration and all new school construction projects must establish high-performance energy efficiency standards.

4. ***40 Board facilities have been selected for energy efficiency project implementation, based on their overall energy savings potential.*** Projects will include LED lighting conversions, ventilation system testing and refurbishment, new and upgraded BAS and building envelope sealing (caulking and weatherstripping). These measures are anticipated to result in savings of \$2.2M per year in utility costs at today's rates.
5. ***An investment of \$12.5M over ten years is anticipated to result in accumulated savings after ten years of \$23.9M.*** Project costs are estimated at \$9.46M for energy retrofits over five years. Ongoing expenditures of approximately \$300,000 per year are required for analytic, coordination and engagement resources. With potential utility company incentives of \$1.5M and predicted utility cost increases, the total anticipated savings is \$25.4M after ten years, fully repaying all costs incurred and yielding a net balance of \$12.9M.
6. ***Staff and stakeholder engagement and energy use monitoring are essential components of the ECDM Plan.*** The Plan recommends:
 - Implementation of a BAS Control Centre and Energy Monitoring and Tracking Data Centre;
 - Implementation of board-wide commissioning standards;
 - Enforcement of established board-wide operating standards such as temperature set points and ventilation operating times; and
 - Promotion of energy awareness and environmental stewardship amongst all stakeholders.

E. METRICS AND ACCOUNTABILITY

1. ***An energy performance reporting system will be developed to monitor the results of the ECDM Plan.*** This will include:
 - Monthly and weekly (interval meter) reporting of actual savings for the selected buildings throughout the implementation period;

- Quarterly reporting of savings and increases for all buildings and Board-wide net energy, utility cost and greenhouse gas emissions reductions;
 - Annual reporting to senior management of overall progress compared to baseline and targets.
2. ***The energy consumption of all Board facilities is reported to the Ministry annually and published on the Board website.*** In accordance with *Ontario Regulation 507/18* under the *Electricity Act, 1998*, the Board's Energy Management Supervisor tracks the electricity and gas consumption and greenhouse gas emissions of all facilities daily and compiles the required annual report. This information for the 2017-2018 school year is included as 'Appendix A' of the appended ECDM Plan (Appendix A).
 3. ***TCDSB's Maintenance and Energy Management department is in the process of installing a real-time electricity use monitoring system.*** This system will provide the necessary energy consumption data in real time to generate an energy alarm to indicate any school above the normal baseline. Notifications of unusual consumption spikes will be sent to alert staff so that appropriate action can be taken. The provision of screens with electricity use "dashboards" within schools for staff and students to view will be explored once the system is fully implemented. The system also has the capacity to be expanded to include gas and water usage monitoring.

F. IMPLEMENTATION, STRATEGIC COMMUNICATIONS AND STAKEHOLDER ENGAGEMENT PLAN

1. ***The 2019-2023 TCDSB ECDM Plan is required to be signed by an executive officer of the Board and published on the Board's website and intranet site by July 1, 2019.*** The Plan is included as Appendix A of this report.
2. ***The ECDM Plan involves multiple projects requiring extensive analytics, coordination and engagement.*** The first step will be to decide on the project timelines and create the resourcing plan to support it. Recommended projects will first be cross referenced with the Ministry Building Condition Database and the School Renewal Plan to determine which projects are already planned. It will likely be necessary to retain a Project Manager to develop a scope of work from the general recommendations for the 40 schools listed in the Plan and to manage the implementation.

3. ***Funds must be committed to the ECDM Plan for energy savings to be realized, with an estimated payback period of 4.8 years.*** A minimum funding commitment of \$2M per year from the School Renewal Grant and/or School Condition Improvement Grant over five years, for a total of \$10M, is recommended. A review of internal staff resources and equipment required will be part of the annual budget process.
4. ***The ECDM Plan is a step towards the Board's stated goal of Net Zero Energy.*** In March 2016, the Corporate Services, Strategic Planning and Property Committee approved a resolution to become a Net Zero Energy school board. In December, 2017, The Research in Architecture Studio was retained to conduct a study to develop a "road map" towards Net Zero, including:
 - which design or procedural strategies have the greatest potential to deliver value;
 - whether it is technically feasible to offset all energy used in schools with renewable energy; and
 - how to prepare specific projects to take advantage of external funding support, should it materialize.A report and presentation anticipated for the September 2019 Corporate Services, Strategic Planning and Property Committee will outline the findings from this study.
5. ***Promotion of energy awareness and environmental stewardship amongst all stakeholders is key to the success of the ECDM Plan.*** The Board's Environment Committee along with the Communication Department will be engaged to develop an education and engagement program that includes trustees, senior staff, students, school staff and parents. Progress reporting to custodial and maintenance staff, team training in energy metrics and building specific opportunities and recognition of success will be implemented to engage staff.
6. ***Implementation of board-wide energy-efficient design and commissioning standards is needed.*** TCDSB's Energy Management staff will continue to work with Renewal and Capital departments to review designs and construction documents to ensure that all projects comply with the Board's energy conservation standards and look for opportunities to incorporate technology upgrades such as BAS and energy monitoring. For new schools, an opportunity for additional funding above Ministry benchmark for energy-efficient design has been provided by the latest update to the Toronto Green

Standard requiring building envelope insulation and air-tightness that exceeds the Building Code.

G. STAFF RECOMMENDATION

1. That the Board approve the 2019-2023 Energy Conservation and Demand Management (ECDM) Plan (Appendix A) as required by *Ontario Regulation 507/18* under the *Electricity Act, 1998*.
2. That a facility energy retrofit program be implemented as recommended in the 2019-2023 ECDM Plan, with an allocation of \$2M per year in the School Renewal Plan over five years, subject to availability of funding.



2019- 2023

TCDSB: Energy Conservation and Demand Management Plan



Energy Management Team:

Khaled Elgharbawy

Sr Coordinator of Maintenance and Energy

Herat Bandara

Energy Supervisor

Enerlife Consulting Inc.

Jun 2019

Ontario's broader public sector organizations, including school boards, are required to develop and publish an Energy Conservation and Demand Management (ECDM) plan every five years, beginning in 2014. Technical advice and analysis for this document were provided by [Enerlife Consulting Inc.](#)

For additional information regarding this document, please contact:

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Senior Coordinator, Maintenance and Energy
Toronto Catholic District School Board
Khaled.Elgharbawy@tcdsb.org

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EXECUTIVE SUMMARY

In accordance with provincial requirements, the Toronto Catholic District School Board (the Board) has prepared a board-wide Energy Conservation and Demand Management (ECDM) plan that will increase energy efficiency in existing and new Board facilities, thereby reducing energy consumption and greenhouse gas (GHG) emissions. This ECDM plan presents energy savings results achieved and lessons learned since the previous plan, and lays out the goals, strategy and business case for the Board's energy efficiency investments over the next 5 years.

In the previous plan, approved in June 2014 and covering 2013-2018, the Board set a target of 11% overall energy savings to be achieved over the plan's 5-year term. However, there was no dedicated funding available for energy efficiency measures until FY 2017-2018 when Greenhouse Gas Reduction Funding allocations were made from the Ministry to all Ontario boards. Despite the lack of dedicated funding and significant changes to the use of schools described in this report, the board managed to achieve almost 2% board-wide energy savings through energy conscious implementation of infrastructure renewal projects and good operating practices. Lessons learned have informed the development of this ECDM plan.

For the next 5 years (2019-2020 to 2023-2024) the Board has set a target of 11% reduction in total energy intensity measured against the actual 2017-2018 baseline. Targeted investment into the Board's highest savings potential schools will be implemented to achieve this reduction with the best return on investment. The planned improvements prioritize operational efficiencies and management systems for long-term maintenance of savings. All of the Board's capital renewal projects are to include energy efficiency as a priority consideration and all new school construction and expansion projects will establish and achieve high-performance energy efficiency targets. Additionally, while high-savings potential buildings must be prioritized for achieving deep savings, a robust management and operations plan will be put in place for all buildings so that the savings achieved are not offset by general increases elsewhere. Figure 1 summarizes this four-pronged strategy.

Figure 1 Four-part energy efficiency approach

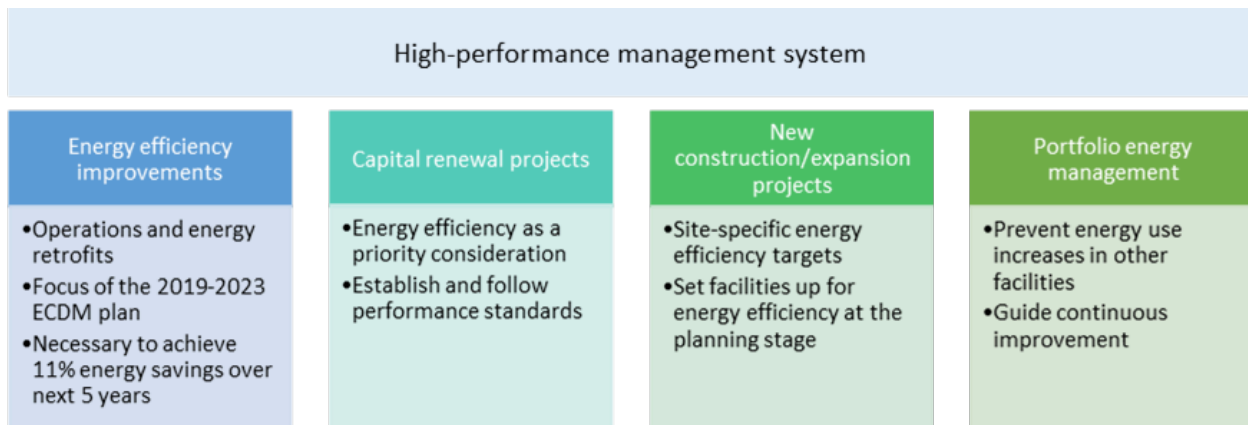


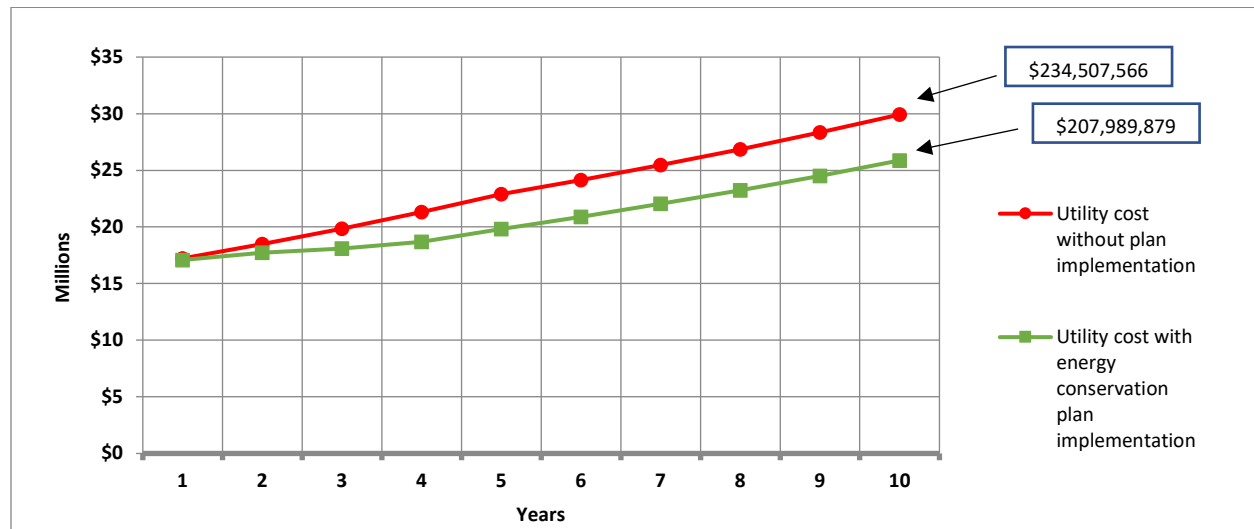
Table 1 summarizes the business case for investment in the high-return energy efficiency improvements included in the scope of this plan. A total investment of \$12.4 million is offset by the projected \$1.46 million of utility company incentives and yields electricity and natural gas savings worth over \$2.3 million per year. Over a ten-year period, total savings and incentives amount to almost \$28 million, fully repaying all costs incurred and yielding a net cash balance of over \$15.5 million after 10 years. The overall simple payback is 4.5 years and the imputed IRR is 32%. The detailed cash flow model is included in Section 4.6.

Table 1 Energy efficiency improvements business case

Payback period	4.5	Program cost	\$2,982,573	Electricity savings (kWh/yr)	11,582,136
Internal Rate of Return	32%	Project cost	\$9,455,368	Electricity savings (\$)	\$1,900,628
		Total with inflation	\$12,437,941	Gas savings (m3/yr)	1,499,297
		Incentives	\$1,458,073	Gas savings (\$)	\$422,802
		Total savings over 10 years (electricity + gas)	\$26,517,687	Total energy savings (\$)	\$2,323,430
		Total savings over 10 years + Incentives	\$27,975,760	Total energy savings (%)	11.7%
				Total cost savings (%)	11.3%
				GHG emissions reduction (tonnes CO2e)	3,104

Importantly, the foundation of the plan is recognition that the proposed investment is going to be spent anyway. The Board's choice is what to spend it on. If no action is taken, the 2017-2018 utility costs of \$17.2 million are projected to grow to \$29.9 million in 10 years, for a total spend of \$234.5 million over that ten-year period¹. The planned investment in energy efficiency will lower this expenditure by over \$26.5 million over the 10-year period, effectively diverting payments away from inefficient energy use and associated greenhouse gas emissions while helping insulate the Board from future rate increases and environmental regulations. Instead, the plan redirects those funds to productive upgrading of schools, avoidance of pollution associated with energy consumption and long-term utility cost savings.

Figure 2 TCDSB's utility costs with and without energy conservation plan implementation



¹ Utility rate escalation assumptions: electricity 6.5% annually; gas 10% annually for first 5 years and 2.5% annually thereafter.

Key high-performance operational and management considerations for successful implementation of the plan are as follows:

- Energy performance reporting system – keeping all stakeholders, including caretakers, occupants and senior management, aware of and engaged in actual savings being achieved so that successes are built upon and setbacks corrected;
- Staff engagement – training, communications and recognition;
- Enforcement of established board-wide operating standards such as temperature set points and ventilation operating times;
- Establishment and implementation of board-wide design and commissioning standards so that all renewal, expansion and new-build capital projects achieve high levels of energy and environmental performance;
- Energy and building system monitoring – expansion of building automation technology to more schools and implementation of the BAS Control Centre and the Energy Monitoring and Tracking Data Centre; and
- Stakeholder engagement - promotion of energy awareness and environmental stewardship amongst all stakeholders.

The additional resources required to support the full implementation of the plan are included in the Program cost budget and the business case presented above.

1 INTRODUCTION

All Ontario public agencies are required by regulation to prepare and post online an Energy Conservation and Demand Management (ECDM) plan every five years. The first plans were produced in 2014 based on energy consumption for the 2012-2013 school year. This is the Toronto Catholic District School Board's (the Board's) second ECDM plan and is to be posted on or before July 1st, 2019. This report documents energy efficiency measures and energy savings since the Board's 2014 plan and presents the updated plan for the next 5 years. As per provincial requirements, the ECDM plan will be reviewed and updated again at the end of the five years. Energy consumption data for 2017-2018 are used as the baseline for the next five years.

ECDM plans are required to contain two parts:

- a. A description of implemented measures and energy savings achieved over the past 5 years (since the 2014 plan).
- b. A listing of the energy consumption and greenhouse gas emissions for the most recent year for each of the public agency's facilities along with a description of measures, costs and forecast savings for the next 5 years. The listing for the 2017-2018 school year is provided in Appendix A.

From the government perspective, the benefits of improved energy efficiency are primarily lower greenhouse gas emissions which contribute to provincial and national targets, reduced electrical demand to mitigate projected system capacity shortfalls, and upgrading of buildings' infrastructure. For the Board, implementation of the plan will reduce operating costs, take a big step towards the goal of net-zero emissions and upgrade building systems leading to improved occupant comfort and reduced maintenance costs.

The public is also increasingly aware of energy efficiency and climate change mitigation. In the most recent Sustainable Schools Top Energy Performing School Boards report TCDSB ranked 63rd out of 72 Ontario school boards for energy efficiency. Successful implementation of the plan would raise that ranking by up to 30 places and be a source of real pride for staff, students and trustees.

1.1 About the Toronto Catholic District School Board

The Toronto Catholic District School Board owns and operates 205 elementary and secondary schools (as of 2017), with a total number of 89,675 students. Appendix A includes an alphabetical list of all TCDSB facilities. The Board has an accumulated deferred maintenance backlog of \$559 million and a multi-million dollar annual building renewal plan to reduce this deferred liability over time, and the demands on board resources to implement these essential projects are an important consideration in the development of the Plan.

1.2 Broader Conservation Framework

Prior to 2013, and throughout the time period of the previous plan, the Board introduced a range of initiatives to promote environmental stewardship and energy conservation at both the local school level and through Board-wide facility management strategies. The Board has also set an objective to become net-zero energy. This ECDM plan aims to set the stage over the next 5 years for achieving the highest practical level of Board-wide energy efficiency as the first essential step towards net-zero.

2 EDUCATION SECTOR BACKGROUND

2.1 Funding and Energy Management Planning

All school boards receive 100% of their funding from the Ministry of Education. The Ministry announces each Board's funding allocation in March for the next school board Fiscal Year, which runs from September 1st to August 31st. The Ministry does not provide boards with multi-year funding allocations. As a result, while a board may have a five-year energy management strategy, the board's ability to implement their strategy is dependent on the funding that's received for each of the five years covered by their plan.

2.2 Asset Portfolios and Energy Management Planning

The education sector is unique in that a board's asset portfolio can experience significant changes that significantly impact a board's energy consumption over a five-year period. Some of the most common variables and metrics that change in the education sector include major additions and renovations, sites sold/closed/demolished/leased, addition and removal of portables, changes in equipment, and changes in use of space such as addition of child care spaces, before/after school programs, summer school, community use of schools, and occupancy.

3 A REVIEW OF PROGRESS AND ACHIEVEMENTS IN THE PAST 5 YEARS

3.1 TCDSB's Asset Portfolio

The following table lists the energy-related variables/metrics in TCDSB's asset portfolio that changed from the baseline year (FY 2012-2013) to the end of the five-year reporting period (FY 2017-2018).

Table 2 TCDSB's asset portfolio

	FY 2012-2013 (Baseline)	FY 2017-2018	Variance
Total Number of Buildings	227	228	1
Total Number of Portables/Portapaks	439	478	39
Total Floor Area (sf)	10,873,142	10,909,553	36,411
Average Operating Hours	41	41	0
Average Daily Enrolment	83,737	83,831	94
Other Relevant Changes in the Operation of Assets: Total number of kindergarten spaces	7,080 (2013-14)	10,530 (2018-19)	3,450

3.2 Energy Consumption Data for the Board

The table below lists the "metered"² consumption values of TCDSB for the baseline year (2012-2013) and for the 2017-2018 time period.

Table 3 TCDSB's energy consumption data

Utility	Fiscal Year 2012-2013 (Baseline)	Fiscal Year 2017-2018 (Current)
Total Electricity (kWh)	80,809,856	79,812,308
Total Natural Gas (m3)	12,355,470	14,639,346
Total Energy (ekWh)	211,036,510	232,061,509
Greenhouse gas emissions (tonnes CO ₂ e)	34,886	31,071

3.3 Weather-Normalized Energy Consumption Values

In Ontario, 25-35% of energy consumption for a facility is impacted by weather. Weather-normalizing energy consumption values takes into consideration the impact of weather on energy performance and allows for a more accurate comparison from one year to another. To put the impact of weather in context, the following table shows the Weighted Average Heating Degree Days (HDD)³ and Cooling Degree Days (CDD)⁴ for the six most common Environment Canada weather stations in the Ontario education sector.

² Metered consumption is the quantity of energy used and does not include a loss adjustment value (the quantity of energy lost in transmission).

³ Heating Degree Day (HDD) is a measure used to quantify the impact of cold weather on energy use. In the data above, HDD are the number of degrees that a day's average temperature is below 18C (the balance point), the temperature at which most buildings need to be heated.

⁴ Cooling Degree Day (CDD) is a measure used to quantify the impact of hot weather on energy use. In the data above, CDD are the number of degrees that a day's average temperature is above 18C, the temperature at which most buildings need to be cooled. It should be noted that not all buildings have air conditioning and some building have partial air conditioning.

Table 4 Ontario Degree Days from 2012-2013 to 2017-18

	Fiscal Year					
	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
Heating Degree Days (HDD)	3698	4285	4091	3355	3583	3989
Cooling Degree Days (CDD)	289	217	271	462	303	432

TCDSB's energy use values presented in this ECDM plan have been weather-normalized using HDD and CDD information for the Toronto International Airport weather station.

Table 5 below shows TCDSB's weather-normalized energy consumption in the baseline year and FY 2017-2018. These values take into consideration the impact of weather on energy performance and allow for a more accurate comparison of consumption across multiple years. A straight comparison of Total Energy Consumed between one or more years does not take into consideration changes in a board's asset portfolio, such as changes in buildings' attributes and newly implemented programs, which will significantly impact energy consumption. As a result, weather-normalized Energy Intensity, the quantity of total energy consumed divided by the total floor area, is the most accurate measurement that allows the evaluation of a board's energy consumption from one year to another as it negates any change in floor areas. The unit of measurement used in this ECDM plan is equivalent kilowatt hours per square foot (ekWh/sf).

Table 5 TCDSB's weather-normalized energy consumption and weather-normalized energy intensity

Weather-Normalized Values*	Fiscal Year 2012-13	Fiscal Year 2017-18
	(Baseline Year)	(most recent available data)
Total Energy Consumed (ekWh)	219,644,385	215,344,763
Energy Intensity (ekWh/sf)	21.94	21.51

Energy intensity (board-wide weighted average)*

	2012-2013	2017-2018 (unadjusted)	2017-2018 (adjusted to 2012-2013 weather conditions)	% change	
Electricity (kWh/sf)	7.77	7.67	7.67	-1.25%	(not weather-sensitive)
Gas (ekWh/sf)	14.18	14.50	13.84	-2.35%	
Total energy (ekWh/sf)	21.94	22.16	21.51	-1.96%	
Heating degree-days (Toronto Int'l Airport)	2,849.5	2,997.1		5.2%	
Cooling degree-days (Toronto Int'l Airport)	1,432.6	1,722.0		20.2%	

*Excluding schools that are closed or that have significant data issues

3.4 Review of Previous Energy Conservation Goals and Achievements

In 2014, the Board set annual energy conservation goals for the next five fiscal years. The following table compares energy conservation goals based on the 2014 ECDM plan with actual results for each year.

Table 6 Previous energy conservation goals and actual energy savings

Fiscal Year	Conservation Goal		Energy Savings Achieved*	
	ekWh/sf reduction	%	ekWh/sf reduction	%
2013-2014	0.8	3	0.0	0.0
2014-2015	0.3	2	0.0	0.0
2015-2016	0.3	2	0.04	0.20
2016-2017	0.4	2	0.13	0.59
2017-2018	0.3	2	0.26	1.18

*Excluding schools that are closed or that have significant data issues

The table below compares the 2014 forecasted cumulative energy intensity and energy savings goals with actual energy intensity achieved and actual energy savings.

Table 7 TCDSB's cumulative energy conservation goals

	Cumulative Conservation Goal	Energy Savings Achieved (Weather-normalized)*	Variance
Energy use intensity reduction, %	11%	1.96%	-9.04%
Energy use intensity reduction, ekWh/sf	2.2	0.43	-1.7

*Excluding schools that are closed or that have significant data issues

The Board also set the following additional goals in its 2013-2018 plan:

- To achieve 100% school participation in Ontario EcoSchools Program by 2018;
- To implement a central Energy Monitoring and Data Tracking Centre, linked to a new Building Automation System (BAS) control centre, to improve diagnostics and operation of all HVAC systems;
- To promote and increase energy awareness and environmental stewardship amongst all building occupants, including trustees, senior staff, students, school staff and parents.

TCDSB's conservation goals were forecasted in Spring 2014. Since then a number of factors, which impact energy consumption, have been introduced to the education sector that may either increase or limit a board's ability to achieve the forecasted Conservation Goals. Some of these factors are described below. Additionally, due to a lack of dedicated funding, the majority of investment in energy efficiency measures was made in 2017-2018, towards the end of the plan's 5-year period. The savings from these projects have not yet fully materialized. On the operational side, the Board-approved indoor temperature policy of 22°C in the heating season and 25°C in the cooling season was not followed in order to satisfy occupant comfort concerns.

3.4.1 Factors impacting energy use in the education sector

Full Day Kindergarten (FDK)

The introduction of FDK resulted in many new spaces being created through new additions or extensive renovations of existing facilities which resulted in more floor area and in some cases more energy-

intensive designs due to factors such as higher ventilation requirements, the implementation of air conditioning etc. which increase the energy intensity of a building. Under FDK, spaces for more than 470,000 new students were added to the education sector. **In TCDSB, a total of 3,450 spaces were added between 2013-2014 and 2018-2019, an increase of almost 50%.**

Before and After School Programs

These programs were implemented to support the introduction of FDK spaces. However, Before and After School Programs require a facility's HVAC system to operate for an extended period of time on a daily basis, which increases overall energy intensity.

Community Use of Schools

The Ministry of Education introduced funding to all school boards so they can make school space more affordable for use after hours. Both indoor and outdoor school space is available to not-for-profit community groups at reduced rates, outside of regular school hours. As a result of this funding, the use of spaces in schools, typically gymnasiums and libraries, increased to maximum utilization. The use of these spaces during non-school hours requires a facility's HVAC system to operate for an extended period of time on a daily basis, which increases overall energy intensity.

Community Hubs

In 2016, the Ministry of Education introduced funding for boards to implement Community Hubs within their asset portfolios. As a result, many schools now offer a wider range of events (cultural), programs (arts, recreation, childcare) and services (health, family resource centres). The dramatic increase in community use means that many schools now operate from 6:00 a.m. until 11:00 p.m. during weekdays and are open for large quantities of time on weekends. As a result, a facility's HVAC system must operate for significantly longer to support community hubs and overall energy consumption/intensity is increased.

Air Conditioning

Historically schools have not had air conditioning, or it has been a minimal space within the facility. However, with changing weather patterns, "shoulder seasons" such as May, June and September are experiencing higher than normal temperatures and parents are demanding that schools have air conditioning. Air conditioning significantly increases a facility's energy consumption.

Compliance with current Ontario Building Code (OBC)

When renovations or an addition is built onto an existing school, in-place equipment such as HVAC systems, lighting etc., may be required to meet current OBC standards which may result in increased energy consumption. For example, under the OBC buildings constructed today have increased ventilation requirements meaning more outside air is brought into a facility. As a result, HVAC systems need to work longer to either heat or cool the outdoor air to bring it to the same temperature as the standardized indoor temperature for the building.

3.5 Measures Implemented from FY 2012-2013 to FY 2017-2018

3.5.1 Design/construction/retrofit

Since 2012-2013, TCDSB undertook numerous school upgrades as per the board's capital renewal plan, investing into a range of capital projects including boiler replacements and retrofits, envelope upgrades, LED lighting conversions (interior and exterior), and addition of Building Automation Systems (BAS). These were infrastructure renewal projects replacing end-of-life plant and equipment where energy savings were not the primary consideration.

TCDSB received dedicated funding to implement energy efficiency measures when the Greenhouse Gas Reduction Funding was announced in FY 2017-2018. With this funding, the board implemented a number

of energy conservation measures which required significant capital investment. A detailed list of these measures, together with select capital projects which improved the schools' energy efficiency, is included in Appendix B. Savings were recorded in a majority of buildings.

NOTE TO READERS:

It takes a minimum of one full year after an energy management strategy has been implemented before an evaluation can determine the associated actual energy savings achieved.

3.5.2 Operations and maintenance and occupant behaviour

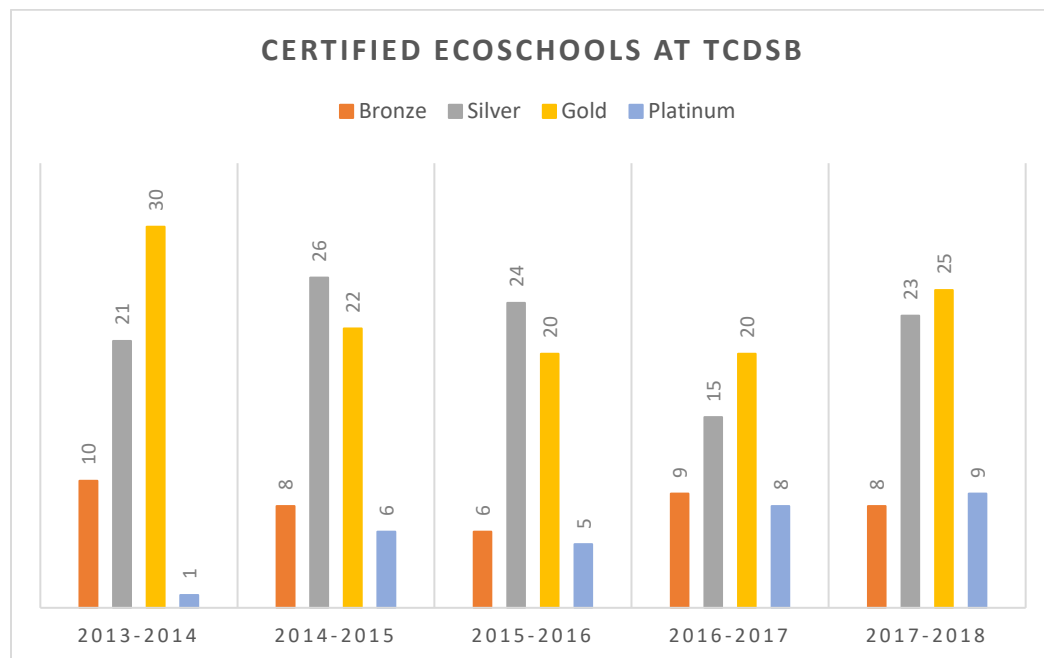
A detailed description of activities to optimize operations and maintenance, and the progress since the last ECDM plan, is included in Appendix C. The board also has numerous activities underway to increase staff and student awareness.

Operational changes initiated since the 2014 plan include:

- Bill verification, monitoring and analysis of electricity, gas and water use for all board facilities
- Full-time staff energy supervisor to monitor energy use and implement efficiency programs
- Implementation of RETscreen Expert Portfolio energy tracking
- Building Automation Systems' (BAS) training for the Board's BAS technicians and custodial staff
- Central BAS monitoring and response centre
- Procurement policies to purchase Energy Star rated appliances and equipment
- Energy efficiency performance standards for new and replacement HVAC equipment including fans, motors, pumps and chillers
- Individual school energy audits undertaken by the Board's energy supervisor
- Interval meter installations

As of the 2017-2018 school year, 65 of the Board's schools are certified EcoSchools.

Figure 3 TCDSB's certified EcoSchools



3.6 Lessons Learned

The 2014 plan was ahead of its time in anticipating the importance of management systems, organizational alignment and engagement of staff and students for achieving and sustaining high levels of energy efficiency. Even with dedicated funding, which TCDSB received only towards the end of the 2014 plan's time period, managing energy use across a large portfolio of more than 200 buildings of different ages and building condition, and with a wide range of building systems and technologies, is a task of significant magnitude and complexity. The experience and results of the past 5 years serve to inform the recommendations in this ECDM plan.

The primary lessons learned are as follows:

- Substantial savings can be achieved through prioritizing high-savings potential buildings. It is not possible to meet energy reduction targets without committing funding and resources to high-potential buildings. Specific funding allocations are needed for energy efficiency improvements in these buildings.
- The investment in utility data management has improved data quality and reporting which provide the platform for scaling up energy conservation effort and results.
- Closer tracking, reporting and verification of energy savings and correction of increases can substantially improve overall results.
- The addition of the energy supervisor has proved to have been a good investment and necessary to achieve the results so far. Scaling up the savings will require additional effort and resources which are budgeted for in this plan.

4 ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN FOR FY 2019-2020 TO FY 2023-2024

This section outlines TCDSB's plan to reduce energy consumption and manage demand through renewable energy and energy management strategies, including design/construction/retrofit, operations and maintenance, and occupant behaviour.

4.1 Goals and Objectives

TCDSB has set out the following energy intensity reduction conservation goals for the next five fiscal years.

Table 8 TCDSB's annual energy intensity conservation goals

Annual Energy Intensity Conservation Goal	Fiscal Year				
	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
ekWh/sf reduction	0.08	0.40	0.79	0.81	0.42
% decrease	0.4%	1.9%	3.7%	3.8%	2.0%

The following table indicates the board's Cumulative Energy Intensity Conservation Goal for the next five fiscal years. The board aims to reduce board-wide Energy Intensity from 21.27 to 18.78 ekWh/sf.

Table 9 TCDSB's cumulative conservation goal

Cumulative Energy Intensity Conservation Goal	FY 2019-2020 to 2023-2024
ekWh/sf reduction	2.49
% decrease	11.7%

In addition, the Board has set out the following objectives for the next five fiscal years:

- Build towards 100% school participation in Ontario EcoSchools program by 2023;
- Implement a centrally-based Energy Monitoring and Tracking Data Centre;
- Extend Building Automation Systems (BAS) to more high-savings potential buildings and establish the control centre to improve diagnostics and operation of all HVAC systems; and
- Further promote and increase energy awareness and environmental stewardship amongst all stakeholders including trustees, senior staff, students, school staff and parents.

NOTE TO READERS:

There are numerous factors that influence a board's ability to meet energy conservation goals. A list of some of these factors include, but are not limited to:

Changes in programming

Example: Introduction of Before and After School programs to schools meant that the number of hours that a facility's HVAC system operates on a daily basis was expanded by four or more hours per weekday to reflect the longer occupancy hours

Changes to Ontario's Building Code

Example: Regular changes/updates to Ontario's Building Code can impact energy consumption. For example, an increase in levels of ventilation in newly constructed buildings or other requirements. As a result, more fresh air is brought into a school to meet the ventilation requirements throughout the day requires heating/cooling of the air (dependent on the season) to meet standard classroom temperatures

Changes to school board funding models

Forecasted Conservation Goals are based on current funding models being in place throughout the next five years. Boards' funding is determined on an annual basis. Any changes to the funding model will impact forecasted values.

Changes in technology

Forecasted Conservation Goals are based on current technologies and associated energy savings. If new technologies become available, anticipated energy savings may increase.

4.2 Energy Management Strategies

Energy management strategies fall into three key categories: design/construction/retrofit, operations and maintenance, and occupant behaviour. The strategies defined below are all incorporated in the proposed plan. See Section 4.5.1 for a description of proposed operations and maintenance and staff and student engagement strategies.

Design/construction/retrofit: Encompasses the original and ongoing intent of how a building and its systems are to perform as a whole through the integration of disciplines such as architecture and engineering.

Operations and maintenance: Includes the strategies the Board uses to ensure that the existing buildings and equipment perform at peak efficiency.

Occupant Behaviour: Strategies that the Board uses to educate occupants, including staff, students and community users, with an emphasis in changing specific behaviours to reduce energy consumption.

4.3 2019 ECDM Plan Development

4.3.1 Site visits

In September 2018, the board's consultant visited ten representative buildings as selected by the Board to collect data which would help validate the Board-wide energy targets and conservation potential and confirm the measures necessary to achieve the savings. The ten facilities are listed in the table below.

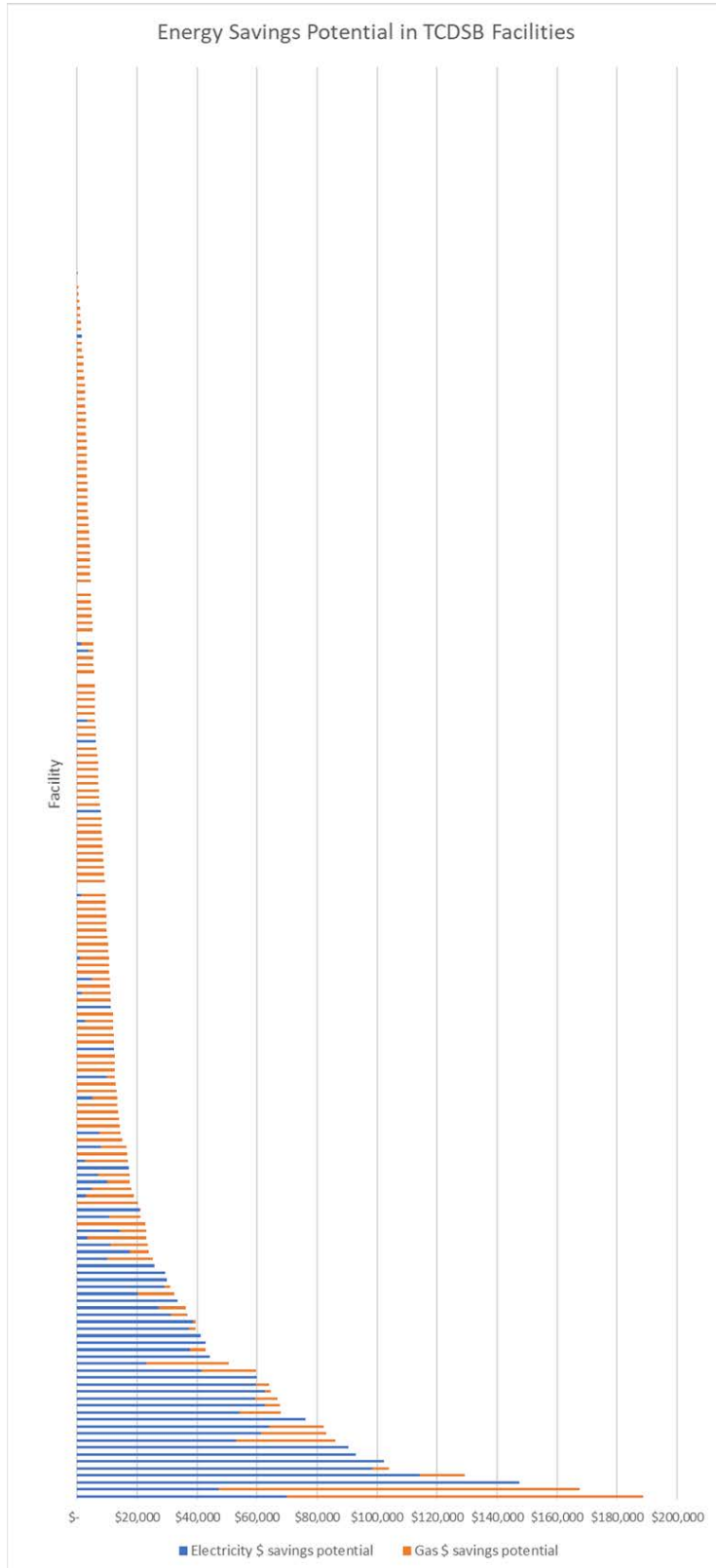
Table 10 TCDSB facilities visited in September 2018

Facility name	Total 2016-2017 energy use (ekWh)	Area (sf)	Year built	Portables	Total energy intensity (2016-2017, ekWh/sf)	Electricity kWh/sf	Gas ekWh/sf
Catholic Education Centre	4,149,979	135,625	1982	0	30.60	21.87	8.73
Michael Power - St Joseph	3,878,128	224,252	1976	6	17.29	10.04	7.26
St Gregory	1,811,805	72,237	1999	0	25.08	7.58	17.50
Senator O'Connor College	3,231,398	135,493	2005	6	23.85	14.46	9.39

Facility name	Total 2016-2017 energy use (ekWh)	Area (sf)	Year built	Portables	Total energy intensity (2016-2017, ekWh/sf)	Electricity kWh/sf	Gas ekWh/sf
St Cyril	542,275	29,051	1958	3	18.67	4.15	14.51
Father Henry Carr	2,615,713	120,319	1965	0	21.74	9.21	12.53
St Basil the Great College	3,974,803	171,835	1998	0	23.13	11.38	11.75
St Matthew	1,209,400	42,882	1926	2	28.20	6.18	22.02
St Andre	505,476	50,321	2015	0	10.05	5.52	4.52
St Charles Garnier	990,292	43,656	1975	0	22.68	5.00	17.68

4.3.2 Board-wide energy targets and conservation potential

Figure 4 Annual cost savings potential – all TCDSB facilities



2017-2018 electricity and natural gas consumption data for a total of 205 schools and administration buildings were compared against good practice energy targets from the province-wide Sustainable Schools reporting. The target for each building is adjusted for material variables including weather, building type, heating system type and number of portables. The difference between actual consumption and the target quantifies the savings potential for each individual building.

Some buildings have far greater savings potential than others due to varying combinations of design, construction, maintenance and operational inefficiencies. Results are presented in Figure 4 in terms of annual cost savings potential. The highest potential buildings are at the bottom of the chart, with several in excess of \$100,000/year. The buildings at the top of the chart are those with little or no savings potential.

4.3.3 Facilities selected for the energy efficiency project

From the list of all board facilities, the following 40 were selected for energy efficiency project implementation, based on their overall energy savings potential and other considerations. This list may be adjusted, if necessary, as the scope of work is further developed. Together, these 40 buildings make up the overall board-wide 11% energy reduction goal for this plan, worth over \$2.3 million per year in utility cost savings as detailed in Section 4.6.

Table 11 Annual cost savings potential – selected TCDSB facilities

Facility	Electricity savings potential, %	Electricity \$ savings potential	Gas savings potential, %	Gas \$ savings potential	Total \$ savings potential
Senator O'Connor	58.80%	\$191,748	1.83%	\$654	\$192,402
Bishop Marrocco/Thomas Merton	31.93%	\$136,171	29.95%	\$35,029	\$171,199
Michael Power/St Joseph	38.15%	\$142,657	0.00%	0	\$142,657
O L of Lourdes	67.99%	\$122,965	0.00%	\$0	\$122,965
St Mother Teresa	39.78%	\$103,768	21.13%	\$10,240	\$114,008
Fr Henry Carr	38.76%	\$72,980	48.41%	\$24,553	\$97,533
Francis Libermann	51.16%	\$84,323	38.05%	\$12,713	\$97,037
O L of Sorrows	57.83%	\$70,631	54.12%	\$16,775	\$87,406
St Jane Frances	62.00%	\$77,763	40.10%	\$8,347	\$86,110
O L of Fatima	58.48%	\$77,399	35.55%	\$8,382	\$85,781
Mary Ward	30.60%	\$79,726	4.30%	\$2,053	\$81,779
St Nicholas of Bari	64.68%	\$76,333	30.16%	\$4,654	\$80,987
St Oscar Romero	24.44%	\$56,276	35.10%	\$21,581	\$77,857
Marshall McLuhan	30.67%	\$68,858	0.00%	\$0	\$68,858
St Maria Goretti	46.26%	\$61,391	1.67%	\$252	\$61,643
O L of Victory	50.86%	\$58,659	14.51%	\$2,662	\$61,321
St Timothy	47.96%	\$53,879	25.46%	\$4,615	\$58,495
St Dorothy	54.00%	\$48,852	46.96%	\$7,441	\$56,293
St Anthony	54.46%	\$50,691	31.28%	\$5,299	\$55,990
Loretto College	33.86%	\$44,223	22.61%	\$6,135	\$50,358
St Albert	50.97%	\$27,299	70.57%	\$13,086	\$40,384
St Dominic Savio	36.99%	\$24,427	56.04%	\$10,713	\$35,140
St Gregory	21.45%	\$19,419	47.50%	\$13,376	\$32,795
St Ignatius of Loyola	38.32%	\$18,961	68.08%	\$13,532	\$32,493
St Bonaventure	25.93%	\$11,077	75.57%	\$20,335	\$31,412
Josyf Cardinal Slipyj	27.43%	\$17,277	58.97%	\$12,591	\$29,868
O L of the Assumption	53.61%	\$22,535	65.08%	\$7,092	\$29,627
St Gerald	23.93%	\$11,499	69.43%	\$17,256	\$28,755
St Brendan	25.21%	\$16,341	46.57%	\$8,782	\$25,123
St Eugene	30.66%	\$10,256	75.14%	\$13,825	\$24,080
St Agatha	42.56%	\$15,406	66.05%	\$8,409	\$23,815
St Matthew	0.00%	\$0	71.76%	\$21,510	\$21,510
Immaculate Conception	31.67%	\$20,948	0.00%	\$0	\$20,948
St Augustine	0.00%	\$0	70.62%	\$18,018	\$18,018
St Marcellus	11.00%	\$5,454	57.12%	\$10,581	\$16,035

Facility	Electricity savings potential, %	Electricity \$ savings potential	Gas savings potential, %	Gas \$ savings potential	Total \$ savings potential
St Barnabas	1.14%	\$440	63.58%	\$13,874	\$14,314
St Charles Garnier	0.00%	0	64.74%	\$14,091	\$14,091
St Vincent de Paul	0.00%	\$0	56.05%	\$13,006	\$13,006
St Rita	0.00%	0	55.49%	\$10,675	\$10,675
St Stephen	0.00%	0	56.10%	\$10,663	\$10,663

4.3.4 Energy efficiency project measures and costs

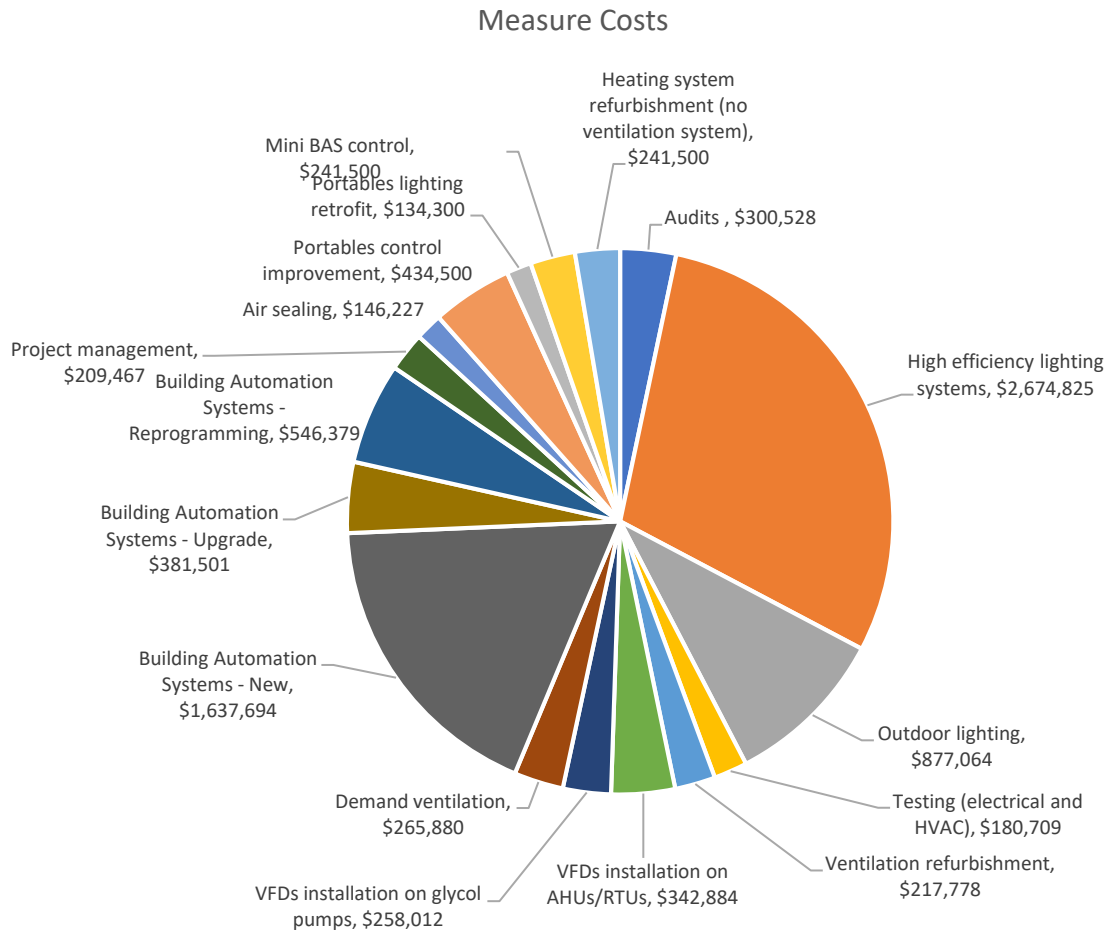
The overall scope of work necessary to achieve the targeted savings in the 40 selected buildings is described in the table below and will be tailored to the individual buildings according to their particular inefficiencies and needs. Buildings may be added to or removed from the plan as necessary.

Table 12 Measures recommended for selected buildings

ID#	Measure	Description
General		
Audit	Audits and analysis	Data collection and analysis, incentive applications
Lighting		
Lighting1	High efficiency lighting systems	Convert to LED by re-lamping and re-ballasting. Reduce number of fixtures and lamps in over-lit areas.
Lighting2	Outdoor lighting	Replace with LED fixtures
HVAC		
HVAC1	Testing (electrical and HVAC)	Test HVAC systems for motor loads, flow rates, pressure losses and faulty equipment
HVAC2	Ventilation refurbishment	Repair and replace equipment, re-balance flows, add zone dampers
HVAC3	VFDs installation on AHUs/RTUs	Install VFDs on supply and return fans
HVAC4	VFDs installation on glycol pumps	Install VFDs on glycol pumps
HVAC16	Demand ventilation	Install CO2 and motion sensors, re-program controls
Control		
CTRL1	Building Automation Systems - New	Install full BAS to Board specification
CTRL3	Building Automation Systems - Upgrade	Expand and re-program BAS for system control optimization
Building Envelope		
ENVLP7	Air sealing	Caulking and weather-stripping, targeted thermography
Schools without Mechanical Ventilation		
NOVNT1	Mini BAS Control	Equip with Wi-Fi controller for heating system and exhaust fans
NOVNT2	Heating system refurbishment	Test and refurbish pumps and control valves
Portables		
PORT1	Portables HVAC control improvement	Equip with Wi-Fi controller with motion, temperature and CO2 sensors, inspect and refurbish OA damper

The budgeted project costs for this work in the selected buildings totals \$9.46 million, broken down as shown in Figure 5. The biggest planned investments are in lighting and building automation.

Figure 5 Recommended measure costs (selected buildings)



4.4 Projected Savings (selected buildings)

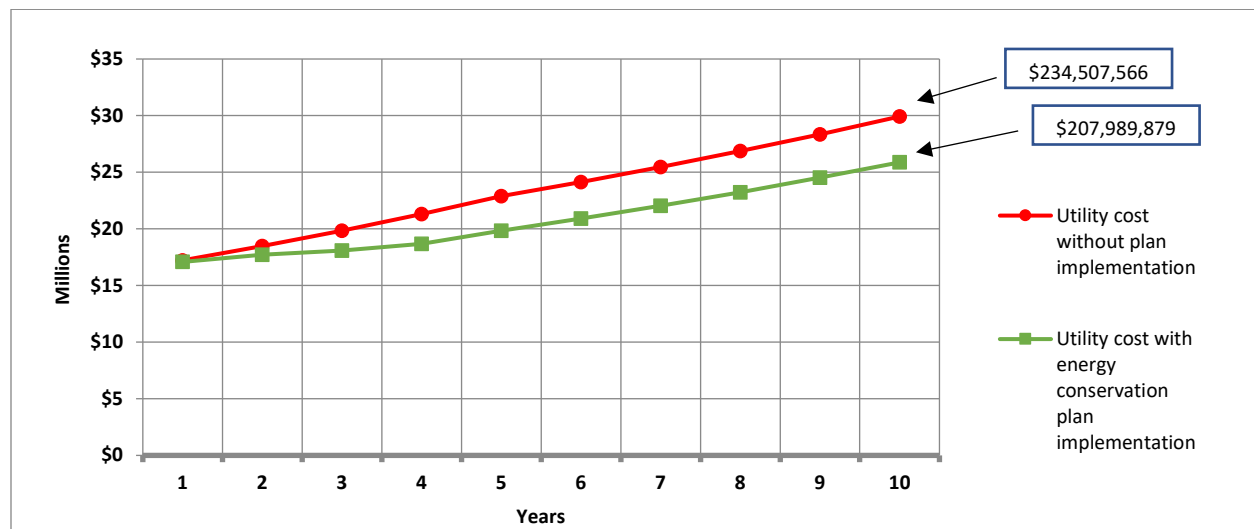
The targeted utility cost savings at 2017-2018 rates total over \$2.3 million per year and are presented in detail in Table 13. The numbers may vary somewhat depending on which buildings are finally selected, and the model will be updated accordingly.

Table 13 TCDSB energy savings potential (selected high-potential buildings)

Electricity savings (kWh/yr)	11,582,136
Electricity savings (\$)	\$1,900,628
Gas savings (m3/yr)	1,499,297
Gas savings (\$)	\$422,802
Total energy savings (\$)	\$2,323,430
Total energy savings (%)	11.7%
Total cost savings (%)	11.3%
GHG emissions reduction (tonnes CO2e)	3,104

This magnitude of savings will lower the Board's utilities' expenditure by 11% over the 10-year period. Figure 6 shows the ten-year value of the accumulated savings (over \$26.5 million).

Figure 6 TCDSB's utility costs with and without energy conservation plan implementation



4.5 Implementation and Program Costs

Implementing a program of this scale and complexity requires management systems, organizational engagement and resources. The Board has made a positive start to putting those capabilities in place. This plan builds on lessons learned to support successful execution and achievement of savings.

4.5.1 Organizational alignment

Key elements included in this plan are:

- Energy performance reporting system
 - Monthly and weekly (interval meter) reporting of actual savings for the selected buildings throughout the implementation period
 - Quarterly reporting of savings and increases for all buildings and Board-wide net energy, utility cost and GHG emissions reductions
 - Annual reporting to senior management of overall progress compared to baseline and targets
- Staff engagement
 - Progress reporting to caretakers and maintenance staff
 - Team training in energy metrics and building specific opportunities
 - Recognition of success
- Energy and building system monitoring
 - Implementation and resourcing of the Energy Monitoring and Tracking Data Centre
 - Implementation and resourcing of the BAS Control Centre with targeted fault detection and response
- Stakeholder engagement
 - Promote and increase energy awareness and environmental stewardship amongst all stakeholders, including trustees, senior staff, students, school staff and parents

4.5.2 Resources

The plan involves multiple projects requiring a great deal of analytics, coordination and engagement. Projects can be spread over the 5-year period, but the sooner the work is implemented the better the likelihood that utility company incentives will still be available and the greater the net positive cash flow. An early next step will be to decide on the project timelines and create the resourcing plan to support it. A preliminary allowance of \$325,000/year has been built into the financial model to pay for required additional resources.

4.5.3 Cash Flow and Return on Investment

Table 14 summarizes the target savings and the budget project and program costs over a ten-year term. The ECDM plan implementation yields a simple payback of 4.5 years, an internal rate of return of 32%, and net positive cash flow in the 4th year. Figure 7 shows the net cash balance, after payment of all project and program costs, totaling over \$15.5 million after 10 years. Table 15 provides the details of the 10-year cash flow model.

Table 14 Energy efficiency improvements business case

Payback period	4.5	Program cost	\$2,982,573	Electricity savings (kWh/yr)	11,582,136
Internal Rate of Return	32%	Project cost	\$9,455,368	Electricity savings (\$)	\$1,900,628
		Total with inflation	\$12,437,941	Gas savings (m3/yr)	1,499,297
		Incentives	\$1,458,073	Gas savings (\$)	\$422,802
		Total savings over 10 years (electricity + gas)	\$26,517,687	Total energy savings (\$)	\$2,323,430
		Total savings over 10 years + Incentives	\$27,975,760	Total energy savings (%)	11.7%
				Total cost savings (%)	11.3%
				GHG emissions reduction (tonnes CO2e)	3,104

Figure 7 10-year cash flow model

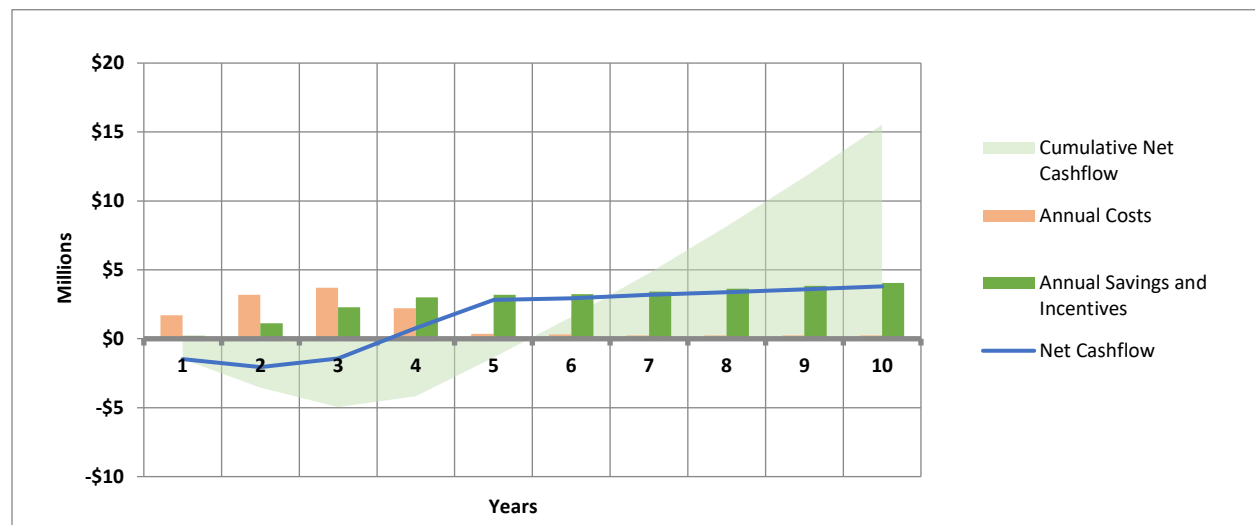


Table 15 10-year cash flow model breakdown

Cashflow Analysis												
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	TOTAL	
Program cost (with inflation)	\$ 325,000	\$ 333,125	\$ 341,453	\$ 349,989	\$ 358,739	\$ 311,137	\$ 231,939	\$ 237,737	\$ 243,681	\$ 249,773	\$	2,982,573
Project cost (with inflation)	\$ 1,379,488	\$ 2,850,591	\$ 3,359,733	\$ 1,865,557	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	9,455,368
Total cost	\$ 1,704,488	\$ 3,183,716	\$ 3,701,186	\$ 2,215,546	\$ 358,739	\$ 311,137	\$ 231,939	\$ 237,737	\$ 243,681	\$ 249,773	\$	12,437,941
Incentives	\$ 85,274	\$ 360,020	\$ 516,120	\$ 378,218	\$ 118,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$	1,458,073
Total savings (electricity + gas)	\$ 139,666	\$ 768,537	\$ 1,762,102	\$ 2,621,740	\$ 3,064,118	\$ 3,238,525	\$ 3,423,649	\$ 3,620,172	\$ 3,828,818	\$ 4,050,360	\$	26,517,687
Total incentives + savings	\$ 224,939	\$ 1,128,557	\$ 2,278,221	\$ 2,999,958	\$ 3,182,559	\$ 3,238,525	\$ 3,423,649	\$ 3,620,172	\$ 3,828,818	\$ 4,050,360	\$	27,975,760
Cumulative Net Cashflow	-\$1,479,549	-\$3,534,707	-\$4,957,672	-\$4,173,260	-\$1,349,440	\$1,577,948	\$4,769,659	\$8,152,094	\$11,737,232	\$15,537,819		
Net Cashflow	-\$1,479,549	-\$2,055,159	-\$1,422,965	\$784,412	\$2,823,820	\$2,927,388	\$3,191,711	\$3,382,435	\$3,585,138	\$3,800,588		32%

Project Cost Analysis												
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	
Implementation (for selected facilities)	\$ 1,379,488	\$ 2,781,064	\$ 3,197,842	\$ 1,732,355	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	9,090,749
Escalation rate	1.0000	1.0250	1.0506	1.0769	1.1038	1.1314	1.1597	1.1887	1.2184	1.2489		
Total project cost with inflation	\$ 1,379,488	\$ 2,850,591	\$ 3,359,733	\$ 1,865,557	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	9,455,368

Program Cost Analysis												
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	
Operations & maintenance	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$	500,000
Internal project management	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$	1,500,000
Program management	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$	700,000
Total program cost	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 275,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$	2,700,000
Escalation rate	1.0000	1.0250	1.0506	1.0769	1.1038	1.1314	1.1597	1.1887	1.2184	1.2489		
Total program cost with inflation	\$ 325,000	\$ 333,125	\$ 341,453	\$ 349,989	\$ 358,739	\$ 311,137	\$ 231,939	\$ 237,737	\$ 243,681	\$ 249,773	\$	2,982,573

Utility Cost Analysis												
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	
Electricity cost without retrofit	\$ 13,097,200	\$ 13,948,518	\$ 14,855,171	\$ 15,820,757	\$ 16,849,107	\$ 17,944,299	\$ 19,110,678	\$ 20,352,872	\$ 21,675,809	\$ 23,084,736	\$	176,739,147
Gas cost without retrofit	\$ 4,128,296	\$ 4,541,125	\$ 4,995,238	\$ 5,494,762	\$ 6,044,238	\$ 6,195,344	\$ 6,350,227	\$ 6,508,983	\$ 6,671,707	\$ 6,838,500	\$	57,768,419
Total utility cost without retrofit [A]	\$ 17,225,495	\$ 18,489,643	\$ 19,850,409	\$ 21,315,519	\$ 22,893,344	\$ 24,139,642	\$ 25,460,905	\$ 26,861,855	\$ 28,347,516	\$ 29,923,237	\$	234,507,566
Electricity cost with Plan implementation	\$ 12,958,211	\$ 13,209,398	\$ 13,265,935	\$ 13,614,135	\$ 14,404,012	\$ 15,340,273	\$ 16,337,391	\$ 17,399,321	\$ 18,530,277	\$ 19,734,745	\$	154,793,697
Gas cost with Plan implementation	\$ 4,127,619	\$ 4,511,709	\$ 4,822,372	\$ 5,079,644	\$ 5,425,214	\$ 5,560,844	\$ 5,699,865	\$ 5,842,362	\$ 5,988,421	\$ 6,138,131	\$	53,196,182
Total utility cost with Plan implementation [B]	\$ 17,085,830	\$ 17,721,106	\$ 18,088,307	\$ 18,693,779	\$ 19,829,226	\$ 20,901,117	\$ 22,037,256	\$ 23,241,683	\$ 24,518,698	\$ 25,872,876	\$	207,989,879
Yearly savings, [A] - [B]	\$ 139,666	\$ 768,537	\$ 1,762,102	\$ 2,621,740	\$ 3,064,118	\$ 3,238,525	\$ 3,423,649	\$ 3,620,172	\$ 3,828,818	\$ 4,050,360	\$	26,517,687

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Savings Analysis	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Savings projected after project completion											
Electricity (kWh)	2,823,255	4,686,438	3,429,301	643,142	0	0	0	0	0	0	11,582,136
Gas (m3)	9,599	340,927	624,336	524,435	0	0	0	0	0	0	1,499,297
Utility rates											
Elec. rate without escalation (\$/kWh)	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	
Elec. escalation	1.000	1.065	1.134	1.208	1.286	1.370	1.459	1.554	1.655	1.763	
Elec. rate with escalation (\$/kWh)	\$0.16	\$0.17	\$0.19	\$0.20	\$0.21	\$0.22	\$0.24	\$0.26	\$0.27	\$0.29	
Gas rate without escalation (\$/m3)	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	\$0.28	
Gas escalation	1.000	1.100	1.210	1.331	1.464	1.501	1.538	1.577	1.616	1.656	
Gas rate with escalation (\$/m3)	\$0.28	\$0.31	\$0.34	\$0.38	\$0.41	\$0.42	\$0.43	\$0.44	\$0.46	\$0.47	
Savings ramping up to 100% after Yr 1 of each project's completion											
Electricity (kWh)											
Year 1	846,976	1,405,931	1,028,790	192,943	0	0	0	0	0	0	
Year 2		2,823,255	4,686,438	3,429,301	643,142	0	0	0	0	0	
Year 3			2,823,255	4,686,438	3,429,301	643,142	0	0	0	0	
Year 4				2,823,255	4,686,438	3,429,301	643,142	0	0	0	
Year 5					2,823,255	4,686,438	3,429,301	643,142	0	0	
Year 6						2,823,255	4,686,438	3,429,301	643,142	0	
Year 7							2,823,255	4,686,438	3,429,301	643,142	
Year 8								2,823,255	4,686,438	3,429,301	
Year 9									2,823,255	4,686,438	
Year 10										2,823,255	
Total	846,976	4,229,186	8,538,483	11,131,936	11,582,136	11,582,136	11,582,136	11,582,136	11,582,136	11,582,136	94,239,394
Electricity (\$, with escalation)	\$ 138,989	\$ 739,120	\$ 1,589,236	\$ 2,206,623	\$ 2,445,095	\$ 2,604,026	\$ 2,773,287	\$ 2,953,551	\$ 3,145,532	\$ 3,349,991	\$ 21,945,450
Gas (m3)											
Year 1	2,400	85,232	156,084	131,109	0	0	0	0	0	0	
Year 2		9,599	340,927	624,336	524,435	0	0	0	0	0	
Year 3			9,599	340,927	624,336	524,435	0	0	0	0	
Year 4				9,599	340,927	624,336	524,435	0	0	0	
Year 5					9,599	340,927	624,336	524,435	0	0	
Year 6						9,599	340,927	624,336	524,435	0	
Year 7							9,599	340,927	624,336	524,435	
Year 8								9,599	340,927	624,336	
Year 9									9,599	340,927	
Year 10										9,599	
Total	2,400	94,831	506,610	1,105,970	1,499,297	1,499,297	1,499,297	1,499,297	1,499,297	1,499,297	10,705,591
Gas (\$, with escalation)	\$ 677	\$ 29,417	\$ 172,865	\$ 415,117	\$ 619,024	\$ 634,500	\$ 650,362	\$ 666,621	\$ 683,287	\$ 700,369	\$ 4,572,238
Total savings (\$, electricity + gas)	\$ 139,666	\$ 768,537	\$ 1,762,102	\$ 2,621,740	\$ 3,064,118	\$ 3,238,525	\$ 3,423,649	\$ 3,620,172	\$ 3,828,818	\$ 4,050,360	\$ 26,517,687

Incentive Analysis

Electricity savings on which incentive is paid (kWh)

													Total
Year 1	846,976	1,405,931	1,028,790	192,943	0	0	0	0	0	0	0	0	3,474,641
Year 2		1,976,278	3,280,506	2,400,511	450,200	0	0	0	0	0	0	0	8,107,495
Total	846,976	3,382,210	4,309,297	2,593,453	450,200	0	0	0	0	0	0	0	11,582,136
Electricity incentive (\$)	\$ 84,698	\$ 338,221	\$ 430,930	\$ 259,345	\$ 45,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,158,214

Gas savings on which incentive is paid (m3)

													Total
Year 1	2,880	102,278	187,301	157,331	0	0	0	0	0	0	0	0	449,789
Year 2		6,719	238,649	437,035	367,105	0	0	0	0	0	0	0	1,049,508
Total	2,880	108,997	425,949	594,366	367,105	0	0	0	0	0	0	0	1,499,297
Gas incentive (\$)	\$ 576	\$ 21,799	\$ 85,190	\$ 118,873	\$ 73,421	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 299,859
Total incentive (\$, electricity + gas)	\$ 85,274	\$ 360,020	\$ 516,120	\$ 378,218	\$ 118,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,458,073

Assumptions

Inflation	2.5%	Savings ramp-up	Yr 1	Yr 2
Electricity escalation rate	6.5%	Electricity	30%	100%
Gas escalation rate in Yr 2-5	10%	Gas	25%	100%
Gas escalation rate in Yr 6-10	2.5%			
Elec. rate in Yr 1 (\$/kWh)	\$ 0.1641	Incentive payments ratio	Yr 1	Yr 2
Gas rate in Yr 1 (\$/m3)	\$ 0.2820	Electricity	30%	100%
Electricity incentives (\$/kWh)	\$ 0.10	Gas	30%	100%
Gas incentives (\$/m3)	\$ 0.20			

4.6 Renewable Energy

TCDSB aims to reduce the board's energy consumption through renewable energy generation. Rooftop solar photovoltaic systems have been installed in 9 schools as listed in Table 16.

Table 16 TCDSB roof-top solar PV systems

School	Size, kW	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	Sep 2017-Nov 2018
Bishop Allen Academy	150	133,666	166,735	164,790	142,087	149,537	148,807	133,772	30,010
Bishop Marrocco/Thomas Merton	30	9,984	39,580	42,912	30,986	33,442	43,441	38,036	5,749
Blessed Cardinal Newman	100	85,478	144,731	144,750	150,516	133,257	147,179	141,929	26,973
Jean Vanier	216							236,432	44,279
Father John Redmond	180							188,160	36,096
St Basil The Great	190								2,254
Msgr Percy Johnson	142								3,540
Senator O'Connor	142								
Francis Libermann	166								
Total	1,316	229,128	351,046	352,452	323,589	316,236	339,427	738,329	148,901
Average electricity rate (\$/kWh)		0.12	0.13	0.14	0.15	0.16	0.18	0.16	0.17
Value of electricity saved due to solar PV		\$27,495	\$45,636	\$49,343	\$48,538	\$50,598	\$61,097	\$121,381	\$25,313
Schools which have approximate annual electricity bill equal to the electricity cost saved by solar PV systems		St Pius	Canadian Martyrs	St Paschal Baylon	St Andrew	St Nicholas	Cardinal Leger	Our Lady of Victory	St Bonaventure

The board does not have any facilities with ground source heat pump technology.

5 ADDITIONAL INFORMATION

5.1 Energy management resources

The Board has an energy management position.

- ☒ In-house
 - ☒ Full time
 - ☐ Part time
 - ☐ Shared job function
- ☐ Contracted third party
- ☐ None

5.2 Environmental programs

In 2018-19, schools within the Board that participated in environmental programs.

- ☒ EcoSchools
 ___66_ Number of schools that participate
- ☐ Earthcare Schools
 _____ Number of schools that participate
- ☒ Enbridge School Energy Challenge
 ___14_ Number of schools that participate
- ☒ Other
 Name of Program:___
<https://www.tcdsb.org/Board/environment/EnvironmentalTeaching/Pages/default.aspx>
 ___200_ Number of schools that participate

5.3 Energy efficiency incentives

1. The Board applies to incentive programs to support the implementation of energy efficient projects on a regular basis.

☒ Yes ☐ No

If yes,

Between Fiscal Year 2013-2014 and Fiscal Year 2017-2018, the Board has applied for **\$1,124,296** in incentive funding from various agencies to support the implementation of energy efficient projects.

2. The Board uses the services of the sector's Incentive Programs Advisor (IPA).

☒ Yes ☐ No

5.4 Energy Procurement

1. The Board participates in a consortia arrangement to purchase electricity.

☒ Yes ☐ No

If yes,

☒ OEMC's Strategic Electricity Management and Advisory Services

☐ Other

Provide Name of Consortia: _____

2. The Board participates in a consortia arrangement to purchase natural gas.

☒ Yes ☐ No

If yes,

☐ Ontario Education Collaborative Marketplace's (OECM) Natural Gas Management and Advisory Services

☒ Catholic School Board Services Association's (CSBSA) Natural Gas Management and Advisory Services

☐ Other

Provide Name of Consortia: _____

5.5 Demand Management

1. The Board uses the following method(s) to monitor electrical Demand:

☒ Invoices

☐ Real-time data

☒ Online data from the Local Distribution Company (LDC)

☐ Other

2. The Board uses the following methodologies to reduce electrical Demand:

☒ Equipment scheduling

☐ Phased/staged use of equipment

☐ Demand-limit equipment

☐ Deferred start-up of large equipment (e.g.: chiller start-up in spring)

☐ Other

6 SENIOR MANAGEMENT APPROVAL OF THIS ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN

I confirm that Toronto Catholic District School Board's senior management has reviewed and approved this Energy Conservation and Demand Management Plan.

Name: Lloyd Noronha

Date

Title: Associate Director of Facilities, Business and community Development, and Chief Financial Officer

7 APPENDIX A 2017-2018 ENERGY CONSUMPTION AND GHG EMISSIONS FOR BOARD FACILITIES

A summary of the Board's annual energy consumption and greenhouse gas emissions for its operations (schools, administrative offices and related facilities) for the period 2017-2018

2017-2018	
Total electricity use, kWh	79,812,308
Total natural gas use, m3	14,639,346
Total natural gas use, ekWh	152,249,202
Total energy use, ekWh (electricity + gas)	232,061,509
Average total energy intensity (ekWh/sf, unadjusted)	21.27
Greenhouse gas emissions (tonnes CO2e):	
Electricity	3,432
Gas	27,639
Total	31,071

Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
All Saints	59,115	591,795	25	50,159	95
Annunciation	30,559	86,287	4	49,482	93
Bishop Allen Academy	128,758	1,663,885	72	174,834	330
Bishop Marrocco/Thomas Merton	240,778	2,598,427	112	414,802	783
Blessed Cardinal Newman	148,606	1,571,319	68	571,029	1,078
Blessed Margherita	35,187	121,606	5	43,606	82
Blessed Pier Giorgio Frassati	48,599	312,522	13	34,397	65
Blessed Sacrament	44,702	161,024	7	69,519	131
Blessed Trinity	34,197	156,512	7	76,723	145
Brebeuf	146,475	1,454,309	63	145,346	274
Canadian Martyrs	33,293	241,121	10	56,767	107
Cardinal Carter Academy	61,053	673,969	29	80,128	151
Cardinal Leger	39,880	334,869	14	29,142	55
Catholic Education Centre	135,576	2,515,410	108	152,971	289
Chaminade College	86,942	522,158	22	112,856	213
Christ The King	32,141	115,021	5	46,036	87
Dante Alighieri	82,742	735,453	32	123,732	234
D'Arcy McGee	81,978	400,289	17	118,546	224
Don Bosco	132,654	708,136	30	161,626	305
East Facilities	32,098	207,855	9	62,995	119
Epiphany of Our Lord Academy	26,081	97,623	4	51,691	98
Father Serra	31,323	249,040	11	61,681	116
Fr Henry Carr	103,011	1,147,259	49	179,870	340
Fr John Redmond	130,062	905,582	39	100,354	189

Toronto Catholic District School Board 2019-2023 Energy Conservation and Demand Management Plan

Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
Francis Libermann	77,339	1,004,430	43	118,493	224
Holy Angels	42,787	366,643	16	69,009	130
Holy Cross	39,084	133,177	6	52,056	98
Holy Family	59,288	272,428	12	63,375	120
Holy Name	76,768	272,027	12	72,732	137
Holy Redeemer	23,853	44,722	2	41,734	79
Holy Rosary	35,715	70,908	3	47,877	90
Holy Spirit	34,100	183,808	8	82,043	155
Immaculate Conception	55,079	403,046	17	40,171	76
Immaculate Heart of Mary	28,718	91,525	4	31,300	59
James Cardinal McGuigan	139,446	1,124,785	48	110,636	209
James Culnan	67,985	297,262	13	74,909	141
Jean Vanier	126,390	719,549	31	105,748	200
Josyf Cardinal Slipyj	42,819	383,818	17	75,718	143
Loretto Abbey	82,042	1,178,547	51	488,875	923
Loretto College	78,447	795,817	34	96,218	182
Madonna	78,426	357,667	15	86,465	163
Marshall McLuhan	146,002	1,368,158	59	114,596	216
Mary Ward	170,522	1,587,634	68	169,139	319
Michael Power/St Joseph	219,745	2,278,771	98	158,035	298
Mother Cabrini	28,815	101,849	4	10,187	19
Msgr Fraser - Annex & Orientation	33,562	124,168	5	74,803	141
Msgr Fraser - Isabella	25,640	90,298	4	45,875	87
Msgr Fraser - Midland	32,097	542,874	23	142,817	270
Msgr Fraser - Midland North	35,747	404,873	17	-	-
Msgr Fraser - Norfinch	106,745	497,128	21	85,008	160
Msgr Fraser - O L of Mt Carmel	29,246	93,983	4	74,169	140
Msgr Fraser - St Martin	30,634	76,886	3	52,156	98
Msgr John Corrigan	32,249	294,577	13	40,606	77
Msgr Percy Johnson	140,426	1,269,433	55	129,844	245
Nativity of Our Lord	30,300	165,433	7	61,048	115
Neil McNeil	130,975	432,758	19	135,397	256
Notre Dame	68,512	212,145	9	90,647	171
O L of Fatima	65,531	806,519	35	83,605	158
O L of Grace	29,396	205,140	9	40,100	76
O L of Guadalupe	23,487	158,288	7	54,731	103
O L of Lourdes	69,104	1,102,054	47	48,923	92
O L of Peace	33,723	245,053	11	69,311	131
O L of Perpetual Help	29,988	87,681	4	60,234	114
O L of Sorrows	61,340	744,321	32	109,923	208
O L of the Assumption	18,600	256,131	11	38,645	73
O L of Victory	67,619	702,760	30	65,039	123

Toronto Catholic District School Board 2019-2023 Energy Conservation and Demand Management Plan

Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
O L of Wisdom	25,446	124,567	5	59,776	113
Pope Francis	54,196	276,525	12	48,157	91
Precious Blood	40,892	115,551	5	62,983	119
Prince of Peace	38,890	228,332	10	38,695	73
Regina Mundi	45,639	268,914	12	53,478	101
Sacred Heart	41,204	257,362	11	46,046	87
Santa Maria	27,706	135,105	6	29,414	56
Senator O'Connor	130,975	1,987,077	85	126,640	239
Senhor Santo Cristo	53,916	9,572	0	5,511	10
St Agatha	21,119	220,594	9	45,144	85
St Agnes	22,819	233,015	10	71,940	136
St Aidan	35,553	229,178	10	79,104	149
St Albert	26,673	326,393	14	65,757	124
St Alphonsus	48,674	166,342	7	80,156	151
St Ambrose	41,866	265,426	11	34,823	66
St Andre	50,213	279,024	12	24,724	47
St Andrew	54,508	373,262	16	67,473	127
St Angela	68,867	476,561	20	113,195	214
St Anselm	29,289	155,223	7	48,018	91
St Anthony	50,214	567,182	24	60,077	113
St Antoine Daniel	22,701	183,623	8	48,811	92
St Augustine	36,630	210,057	9	90,471	171
St Barbara	34,627	110,118	5	47,534	90
St Barnabas	38,847	235,766	10	77,386	146
St Bartholomew	25,801	51,881	2	33,979	64
St Basil-The-Great	167,831	1,919,108	83	191,540	362
St Bede	42,098	250,755	11	34,125	64
St Benedict	56,069	225,769	10	70,858	134
St Bernard	36,726	234,202	10	59,648	113
St Bonaventure	32,130	260,279	11	95,425	180
St Boniface	29,601	179,960	8	35,858	68
St Brendan	49,245	395,048	17	66,876	126
St Brigid	64,347	205,525	9	103,100	195
St Bruno	45,058	263,991	11	41,697	79
St Catherine	19,343	56,837	2	41,495	78
St Cecilia	69,965	139,857	6	54,953	104
St Charles	38,147	94,937	4	49,886	94
St Charles Garnier	37,501	212,238	9	77,180	146
St Clare	65,326	164,724	7	104,021	196
St Clement	27,448	227,473	10	31,490	59
St Columba	36,414	136,839	6	77,356	146
St Conrad	36,414	442,184	19	64,844	122

Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
St Cyril	26,781	123,112	5	36,829	70
St Demetrius	34,466	-	-	32,472	61
St Denis	23,993	86,176	4	25,863	49
St Dominic Savio	41,064	402,444	17	67,788	128
St Dorothy	41,064	551,289	24	56,182	106
St Dunstan	41,064	78,634	3	43,880	83
St Edmund Campion	23,853	130,923	6	42,118	80
St Edward	40,175	503,451	22	56,836	107
St Elizabeth	17,427	129,247	6	30,621	58
St Elizabeth Seton	37,512	246,075	11	33,289	63
St Eugene	22,357	203,847	9	65,246	123
St Fidelis	38,621	267,002	11	24,388	46
St Florence	29,396	193,875	8	39,780	75
St Francis Assisi	41,769	116,737	5	41,787	79
St Francis de Sales	62,915	360,625	16	53,580	101
St Francis Xavier	47,027	182,309	8	53,509	101
St Gabriel	39,460	257,518	11	65,283	123
St Gabriel Lalemant	24,843	525,952	23	-	-
St Gerald	37,125	292,825	13	88,129	166
St Gerard Majella	29,967	-	-	-	-
St Gregory	72,237	551,756	24	99,849	189
St Helen	86,337	453,529	20	71,173	134
St Henry	28,707	152,091	7	43,816	83
St Ignatius of Loyola	31,000	301,544	13	70,481	133
St Isaac Jogues	27,932	100,156	4	38,642	73
St James	27,060	99,577	4	36,280	68
St Jane Frances	53,766	764,325	33	73,808	139
St Jean De Brebeuf	23,293	429,666	18	-	-
St Jerome	38,470	134,277	6	47,771	90
St Joachim	26,651	176,789	8	41,672	79
St John (Toronto)	64,713	186,685	8	82,352	155
St John Bosco	34,488	85,478	4	49,525	94
St John Paul II	141,373	1,730,577	74	162,026	306
St John The Evangelist	26,375	2,202	0	-	-
St John Vianney	37,405	159,136	7	71,712	135
St John XXIII	41,484	200,175	9	58,963	111
St Joseph	38,050	136,551	6	61,456	116
St Joseph College	84,787	418,819	18	132,630	250
St Jude	58,373	205,582	9	64,427	122
St Kateri Tekakwitha	26,619	219,609	9	47,553	90
St Kevin	20,355	100,300	4	24,718	47
St Lawrence	35,306	136,878	6	47,605	90

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Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
St Leo	50,192	194,339	8	66,271	125
St Louis	30,236	176,230	8	39,458	74
St Malachy	24,972	138,727	6	58,838	111
St Marcellus	38,815	302,161	13	65,687	124
St Margaret	35,273	158,532	7	53,162	100
St Margaret - Beatrice Campus	121,980	1,250,815	54	293,390	554
St Marguerite Bourgeoys	27,243	72,337	3	44,169	83
St Maria Goretti	72,430	808,688	35	53,450	101
St Mark	23,810	274,821	12	32,120	61
St Martha	30,591	150,551	6	60,293	114
St Martin de Porres	30,430	158,230	7	43,757	83
St Mary	63,259	222,875	10	75,054	142
St Mary Catholic Academy	100,083	968,160	42	213,341	403
St Mary of the Angels	45,951	134,423	6	63,352	120
St Matthew	41,366	256,866	11	106,293	201
St Matthias	23,853	156,159	7	54,423	103
St Maurice	42,399	127,537	5	74,670	141
St Michael Choir (Sr)	69,859	728,488	31	63,712	120
St Monica	32,109	132,768	6	54,229	102
St Mother Teresa	142,794	1,589,674	68	171,853	324
St Nicholas	41,298	279,460	12	30,329	57
St Nicholas of Bari	46,489	719,227	31	54,730	103
St Norbert	24,163	125,978	5	34,065	64
St Oscar Romero	157,045	1,402,989	60	218,008	412
St Paschal Baylon	29,160	607,234	26	99,269	187
St Patrick Secondary	210,444	1,803,609	78	278,609	526
St Paul	41,996	113,816	5	47,159	89
St Paul VI	44,702	180,421	8	47,779	90
St Philip Neri	47,297	176,311	8	62,551	118
St Pius X	29,461	253,996	11	51,903	98
St Raphael	33,110	162,238	7	36,236	68
St Raymond	Closed facility		-		-
St Rene Goupil	31,022	230,368	10	21,153	40
St Richard	41,968	152,098	7	49,124	93
St Rita	41,846	102,703	4	68,218	129
St Robert	53,400	532,235	23	30,751	58
St Roch	43,357	195,109	8	71,553	135
St Rose Of Lima	63,033	232,992	10	43,108	81
St Simon	63,033	483,535	21	107,648	203
St Stephen	40,774	185,089	8	67,398	127
St Sylvester	40,774	197,800	9	14,770	28
St Teresa	41,732	107,245	5	57,414	108

Facility name	Area, sf	2017-2018 Electricity use, kWh	Electricity GHG emissions, tonnes CO2e	2017-2018 Gas use, m3	Gas GHG emissions, tonnes CO2e
St Theresa Shrine	41,732	176,166	8	48,529	92
St Thomas Aquinas	66,252	201,405	9	138,186	261
St Thomas More	23,810	182,908	8	54,119	102
St Timothy	58,276	684,577	29	64,283	121
St Ursula	18,314	132,224	6	27,678	52
St Victor	22,712	184,147	8	65,460	124
St Vincent de Paul	49,848	126,777	5	82,290	155
St Wilfrid	55,434	226,718	10	65,158	123
Sts Cosmas and Damian	24,606	228,686	10	47,347	89
The Divine Infant	37,512	274,839	12	68,167	129
Transfiguration	35,930	103,955	4	48,850	92
Venerable John Merlini	42,862	141,017	6	52,783	100
West facilities	15,844	49	0	2	0

8 APPENDIX B LIST OF ENERGY CONSERVATION MEASURES IMPLEMENTED IN 2014-2018

Degree-days	School year	
Toronto Intl Airport weather station	2012-2013	2017-2018
Heating degree-days (15 deg C)	2,849.5	2,997.1
Cooling degree-days (10 deg C)	1,432.6	1,722.0

Facility name	Facility status	Completed ECM 1	Completed ECM 2	Completed ECM 3	Completed ECM 4	2012-2013 Electricity intensity, kWh/sf	2017-2018 Electricity intensity, kWh/sf	Change in electricity intensity	2012-2013 Gas intensity, ekWh/sf	2017-2018 Gas intensity, ekWh/sf	Change in gas intensity	# of Portables, 2012-2013	# of Portables, 2017-2018
All Saints						8.27	10.01	21%	8.43	8.63	2%	6	6
Annunciation						4.11	2.82	-31%	14.65	17.69	21%	2	0
Bishop Allen Academy		Cooling system upgrade Nov 2014	Sealed the leak in AHU 11 chilled water coil Jun 2015	Lighting (gym Nov 2016; additional Jul 2017; 4 classrooms LED Mar 2018)	Voltage Harmonizer - 2017	9.58	12.92	35%	12.72	14.83	17%	20	24
Bishop Marrocco/Thomas Merton		Lighting (gym Jul 2016; additional Jan 2017)	Voltage Harmonizer Mar 2017	AHU 10 Cooling coil replacement Mar 2014		8.35	10.79	29%	12.69	17.28	36%	0	0
Blessed Cardinal Newman							10.57			41.93			20
Blessed Margherita						5.12	3.46	-33%	17.86	13.30	-26%	0	0
Blessed Pier Giorgio Frassati	New school - 2013					3.21	6.43		3.04	7.60		0	0
Blessed Sacrament		Roof Replacement Jun 2018				4.47	3.60	-19%	10.15	16.84	66%	0	0
Blessed Trinity	Students from St Teresa moved to Blessed Trinity in Sept 2017	Replace Boiler, Terminal Equipment, pumps update BAS Jun 2018				5.26	4.58	-13%	15.25	24.74	62%	0	0
Brebeuf						12.36	9.93	-20%	10.71	10.73	0%	0	0
Canadian Martyrs		Retrofit Boilers, add BAS, replace heat valves Mar 2014	Lighting and controls upgrades Oct 2017			9.34	7.24	-22%	38.38	18.50	-52%	0	0
Cardinal Carter Academy		Replace Boiler, Cooling tower, add BAS Jul 2015	Voltage Harmonizer Mar 2017			15.78	11.04	-30%	15.66	13.58	-13%	0	0
Cardinal Leger		Retrofit Boilers, add BAS, replace heat valves Oct 2014				12.88	8.40	-35%	13.87	7.87	-43%	0	0

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Facility name	Facility status	Completed ECM 1	Completed ECM 2	Completed ECM 3	Completed ECM 4	2012-2013 Electricity intensity, kWh/sf	2017-2018 Electricity intensity, kWh/sf	Change in electricity intensity	2012-2013 Gas intensity, ekWh/sf	2017-2018 Gas intensity, ekWh/sf	Change in gas intensity	# of Portables, 2012-2013	# of Portables, 2017-2018
Catholic Education Centre		Voltage Harmonizer Mar 2017	Replacing 250T chiller with 250T (input 146 kW) magnetic bearing chiller Daikin WMC048DD Nov 2017	Replace T8 lighting with LED Jul 2017	Replaced boilers, cooling Tower, replaced BAS, lighting control, commissioning and air balancing, replace underground parking exhaust fans May 2017	24.30	18.55	-24%	14.97	11.72	-22%	0	0
Chaminade College		Full Roof Replacement Aug 2017				5.97	6.01	1%	16.37	14.07	-14%	5	5
Christ The King						4.38	3.58	-18%	16.76	15.75	-6%	0	0
Dante Alighieri						7.83	8.89	13%	15.56	15.48	-1%	20	20
D'Arcy McGee						4.89	4.88	0%	10.13	15.37	52%	0	0
Don Bosco	CLOSED					11.48	5.34		9.75	13.96		0	0
East Facilities		LED Lighting installation Jan 2017	Boiler replacement & BAS upgrade Jan 2018			6.86	6.48	-6%	19.50	18.76	-4%		
Epiphany of Our Lord Academy		Boilers, terminal equipment and BAS Jul 2017				4.44	3.74	-16%	19.67	21.96	12%	0	0
Father Serra						9.05	7.95	-12%	38.90	21.36	-45%	0	1
Fr Henry Carr		Replaced 4 AC compressors & condenser coil Jul 2017				9.24	11.14	20%	17.94	19.03	6%	0	0
Fr John Redmond		Renewable /Solar PV 180 kW Dec 2016	Voltage Harmonizer Aug 2016	Chiller Replacement Jun 2018		8.67	6.96	-20%	10.85	8.23	-24%	0	0
Francis Libermann		Replaced Lighting Equipment and Exterior Lighting Oct 2016	Replace existing 200T McQuay chiller Aug 2018			14.13	12.99	-8%	15.76	16.36	4%	6	8
Holy Angels						5.71	8.57	50%	18.40	17.41	-5%	0	9
Holy Cross						4.57	3.41	-25%	12.57	14.41	15%	0	0

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Holy Family						5.06	4.59	-9%	10.56	11.49	9%	0	0
Holy Name						3.31	3.54	7%	7.77	10.36	33%	0	0
Holy Redeemer	CLOSED					3.49	1.87		13.26	19.39		0	0
Holy Rosary						2.09	1.99	-5%	12.63	14.22	13%	0	0
Holy Spirit		Replace Boiler, pumps and add BAS Jun 2017				6.22	5.39	-13%	19.42	22.76	17%	6	4
Immaculate Conception						8.61	7.32	-15%	7.03	7.70	10%	0	0
Immaculate Heart of Mary						2.91	3.19	10%	12.99	11.82	-9%	0	0
James Cardinal McGuigan		Cafeteria Lights Jul 2017	Voltage Harmonizer Mar 2017			11.14	8.07	-28%	11.82	8.37	-29%	0	0
James Culnan						4.61	4.37	-5%	13.76	11.60	-16%	0	0
Jean Vanier		Replace Gym Cafe lighting Oct 2016	Roof Top Solar PV System Dec 2017			7.10	5.69	-20%	13.59	8.75	-36%	3	3
Josyf Cardinal Slipyj						11.24	8.96	-20%	21.93	19.02	-13%	5	5
Loretto Abbey		Lighting replacement in staff offices and corridors on 3rd and 4th floors Dec 2015	Lighting and controls upgrades Jul 2017	Phase 1 of heating retrofit from Steam to Hydronic system - 2019		15.79	14.37	-9%	61.54	64.55	5%	0	0
Loretto College						5.70	10.14	78%	1.48	13.04	783%	0	0
Madonna		Retrofit 2 Boiler 794M BTU/hr heating upgrade Jul 2015				4.09	4.56	11%	11.58	11.65	1%	0	0
Marshall McLuhan		Voltage Harmonizer Mar 2017				12.66	9.37	-26%	13.07	8.16	-38%	0	0
Mary Ward		Boiler, controls replacement Mar 2014	Replace Cooling Coil in Library Jun 2015	Roof Replacement Apr 2018	Perimeter and Parking Lot Lighting Apr 2018	9.47	9.31	-2%	11.23	11.02	-2%	0	0
Michael Power/St Joseph		Replaced heating and cooling coils in AHU 8 Oct 2015	Lighting and controls upgrades Jan 2017	Voltage Harmonizer Mar 2017		11.90	10.37	-13%	10.52	7.65	-27%	6	6
Mother Cabrini		Replace windows and doors May 2017				4.72	3.53	-25%	10.40	4.09	-61%	2	1
Msgr Fraser - Annex & Orientation						5.58	3.70	-34%	18.29	23.69	30%	0	0
Msgr Fraser - Isabella						9.00	3.52	-61%	13.89	19.36	39%	7	0
Msgr Fraser - Midland		Full Roof Replacement Jul 2014	Lighting and controls upgrades - 2018			5.69	16.91	197%	18.79	33.67	79%	0	6
Msgr Fraser - Midland North						10.35	11.33	9%	0.00	0.00		0	0
Msgr Fraser - Norfinch						6.78	4.66	-31%	9.75	7.45	-24%	27	11

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Msgr Fraser - O L of Mt Carmel						6.59	3.21	-51%	20.13	23.04	14%	0	6
Msgr Fraser - St Martin						2.35	2.51	7%	24.79	16.37	-34%		0
Msgr John Corrigan		Replacement of 8 Unit Ventilators in Classrooms# 109, 110, 111, 112, 113, 114, 115, and 117 Jun 2017				8.29	9.13	10%	11.30	13.85	23%	0	0
Msgr Percy Johnson		Voltage Harmonizer Mar 2018	Renewable/Solar PV Oct 2018			8.47	9.04	7%	12.95	10.01	-23%	0	0
Nativity of Our Lord						6.82	5.46	-20%	12.97	20.95	62%	4	0
Neil McNeil						2.72	3.30	21%	7.81	10.04	28%	6	6
Notre Dame						3.51	3.10	-12%	12.26	14.49	18%	0	0
O L of Fatima						12.37	12.31	-1%	16.57	13.89	-16%	2	4
O L of Grace						6.34	6.98	10%	12.64	13.91	10%	2	2
O L of Guadalupe						6.85	6.74	-2%	24.06	25.02	4%	2	2
O L of Lourdes						13.69	15.95	16%	13.31	8.32	-37%	0	0
O L of Peace		Replace full roof Jun 2014				4.74	7.27	53%	9.28	22.61	144%	3	2
O L of Perpetual Help						3.23	2.92	-10%	17.01	24.55	44%	0	0
O L of Sorrows						9.96	12.13	22%	10.44	19.14	83%	6	8
O L of the Assumption						10.13	13.77	36%	17.12	21.89	28%	10	10
O L of Victory						9.12	10.39	14%	6.37	9.79	54%	0	0
O L of Wisdom						6.05	4.90	-19%	16.44	25.45	55%	7	2
Pope Francis	Senhor Santo Cristo was moved to St. Luke. New school is named Pope Francis - 2016					5.10	5.10	0%	11.10	9.54	-14%		0
Precious Blood						2.73	2.83	4%	14.43	16.98	18%	0	0
Prince of Peace						6.49	5.87	-9%	10.61	10.70	1%	1	0
Regina Mundi						6.50	5.89	-9%	11.89	12.76	7%	2	3
Sacred Heart		Replaced old boiler plant (2 boiler 1474MBH), terminal and install BAS in whole building July 2015				7.75	6.25	-19%	15.53	12.24	-21%	0	0
Santa Maria		Boilers, DHW tanks, terminal equipment and full BAS replacement Jun 2018				4.84	4.88	1%	10.97	9.07	-17%	0	0
Senator O'Connor		Upgrade York chiller refrigeration monitoring system, replace internal components, return chiller to full charge Feb 2017	Lighting and controls upgrades - 18 Jan 2017	Renewable/Solar PV - 18 Mar 2018	Voltage Harmonizer - 18 Mar 2018	13.06	15.17	16%	11.64	8.85	-24%	0	12

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Senhor Santo Cristo	CLOSED					3.18	0.18		21.50	1.69		0	0
St Agatha						11.34	10.45	-8%	23.37	23.32	0%	2	2
St Agnes		Replace Boiler, Terminal Equipment, pumps update BAS Jun 2018	Replace RTU, CI rads, DHW Tank, upgrade BAS Oct 2018			8.55	10.21	19%	25.14	35.20	40%	4	4
St Aidan		Boiler, heating pipe and rad replacement Mar 2018	Replace Boiler Mix Air units, CI rads, DHW Tank, upgrade BAS Jun 2018			5.33	6.45	21%	13.07	24.21	85%	0	0
St Albert						9.13	12.24	34%	25.53	26.20	3%	0	0
St Alphonsus		Boiler, Heat exchanger, Terminal equipment and BAS replacement Jun 2017				3.51	3.42	-3%	15.59	17.62	13%	0	0
St Ambrose	New school - 2013					4.01	6.34		15.77	8.93		0	0
St Andre	New school - 2014						5.56			5.33			0
St Andrew		Retrofit Boilers, add BAS , replace heat valves Oct 2014				6.36	6.85	8%	19.92	13.49	-32%	7	9
St Angela		Replace Boiler, Terminal Equipment, pumps update BAS Jun 2018	Replace Boiler, Exhaust fans, CI rads, DHW Tank, upgrade BAS - 18 Jun 2018			6.00	6.92	15%	21.55	17.63	-18%	0	0
St Anselm						5.47	5.30	-3%	14.50	17.84	23%	0	0
St Anthony		Upgrading and recharging refrigerant in Daikin Chiller Jul 2015				9.15	11.30	23%	13.60	12.98	-5%	0	0
St Antoine Daniel						6.16	8.09	31%	16.68	22.88	37%	8	8
St Augustine						7.74	5.73	-26%	14.78	26.75	81%	10	3
St Barbara						3.27	3.18	-3%	12.31	15.03	22%	1	1
St Barnabas						6.52	6.07	-7%	23.76	21.30	-10%	0	0
St Bartholomew		Retrofit boilers, add BAS, replace heat valves Apr 2014				1.77	2.01	14%	14.55	14.12	-3%	0	0
St Basil-The-Great		Lighting and controls upgrades Jan 2017	Renewable/Solar PV Mar 2018	Voltage Harmonizer -Mar 2018	Replace Chiller, Cooling Tower, pumps update BAS Sep 2018	9.26	11.43	23%	12.22	12.11	-1%	0	0
St Bede		Replace exterior perimeter lighting Oct 2015				7.37	5.96	-19%	6.48	8.94	38%	0	0
St Benedict		Boilers, terminal equipment, BAS Jul 2017				3.83	4.03	5%	14.32	12.09	-16%	4	4
St Bernard						6.59	6.38	-3%	15.16	17.39	15%	0	0
St Bonaventure						5.85	8.10	38%	22.41	33.81	51%	0	3

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St Boniface						6.39	6.08	-5%	11.94	13.18	10%	7	3
St Brendan						4.92	8.02	63%	11.31	14.87	32%	3	2
St Brigid		Replace boiler, terminal equipment, pumps, update BAS Jun 2018				2.82	3.19	13%	3.76	17.27	359%	0	0
St Bruno	St. Raymond students are relocated to St. Bruno					5.98	0.00		14.86	0.00		0	0
St Catherine		Heating system upgrade Jun 2018				5.09	2.94	-42%	27.33	24.22	-11%	0	0
St Cecilia						2.21	2.00	-10%	8.37	8.37	0%	0	0
St Charles						2.58	2.49	-4%	13.86	14.18	2%	0	0
St Charles Garnier						6.05	5.66	-6%	18.97	22.26	17%	0	0
St Clare		Replace boiler, terminal equipment, pumps, update BAS Jun 2018				2.67	2.52	-5%	18.55	17.46	-6%	0	0
St Clement						7.57	8.29	10%	16.04	12.32	-23%	6	0
St Columba						4.41	3.76	-15%	22.99	23.28	1%	0	0
St Conrad						11.55	12.14	5%	0.00	19.21		0	0
St Cyril		Replaced full roof (part eco roof) Jun 2017	Replace boiler, terminal equipment, pumps update BAS -20 Jun 2018	Sun control window film - 15 Aug 2015		5.05	4.60	-9%	10.17	14.84	46%	5	3
St Demetrius		Full Roof Replacement Jul 2014	Retrofit 2 Boiler 872 MBH (each) Jul 2015	Lighting Control and upgrades Oct 2018		0.00	0.00		29.43	10.09		0	0
St Denis						3.27	3.59	10%	10.19	11.52	13%	0	0
St Dominic Savio						10.21	9.80	-4%	12.92	17.21	33%	0	0
St Dorothy						12.94	13.43	4%	16.29	14.95	-8%	0	0
St Dunstan						2.32	1.91	-18%	10.68	10.13	-5%		0
St Edmund Campion						7.77	5.49	-29%	18.60	18.52	0%	5	2
St Edward	New school - 2013					2.60	12.53		0.00	15.04		4	2
St Elizabeth		Retrofit boiler and domestic hot water tank Jul 2014				15.37	7.42	-52%	19.52	16.35	-16%	4	4
St Elizabeth Seton						7.14	6.56	-8%	9.03	9.68	7%	0	0
St Eugene						6.99	9.12	30%	20.02	31.27	56%	6	0
St Fidelis						7.39	6.91	-6%	16.08	6.84	-57%	6	6
St Florence						6.96	6.60	-5%	16.00	14.97	-6%	0	0
St Francis Assisi						4.69	2.79	-40%	12.60	10.78	-14%	0	0
St Francis de Sales						5.67	5.73	1%	8.61	9.08	5%	0	0

Toronto Catholic District School Board 2019-2023 Energy Conservation and Demand Management Plan

Facility name	Facility status	Completed ECM 1	Completed ECM 2	Completed ECM 3	Completed ECM 4	2012-2013 Electricity intensity, kWh/sf	2017-2018 Electricity intensity, kWh/sf	Change in electricity intensity	2012-2013 Gas intensity, ekWh/sf	2017-2018 Gas intensity, ekWh/sf	Change in gas intensity	# of Portables, 2012-2013	# of Portables, 2017-2018
St Francis Xavier						3.46	3.88	12%	13.46	12.31	-9%	2	4
St Gabriel		Heating system upgrade Mar 2018	Boiler, rads, pump, DHW, exhaust fans	Mar 2018		3.74	6.53	74%	13.01	17.98	38%	1	1
St Gabriel Lalemant	All-electric					18.26	21.17	16%	0.00	0.00		4	3
St Gerald		Replaced exterior lights	Dec 2015			7.37	7.89	7%	15.31	26.15	71%	0	0
St Gerard Majella	CLOSED					2.99	0.00		22.21	0.00		0	0
St Gregory						6.67	7.64	15%	17.91	14.97	-16%	0	3
St Helen						0.13	5.25		8.90	8.82		0	0
St Henry						6.53	5.30	-19%	16.75	16.24	-3%	1	0
St Ignatius of Loyola						9.68	9.73	1%	21.20	23.99	13%	0	0
St Isaac Jogues						4.08	3.59	-12%	13.76	15.23	11%	1	0
St James						3.38	3.68	9%	25.33	12.47	-51%	0	0
St Jane Frances						13.48	14.22	5%	12.94	14.92	15%	5	0
St Jean De Brebeuf	All-electric					15.07	18.45	22%				3	1
St Jerome		Replace boiler, terminal equipment, pumps	update BAS	Mar 2018		3.34	3.49	5%	15.24	13.18	-14%	1	4
St Joachim						7.77	6.63	-15%	15.05	14.79	-2%	0	0
St John (Toronto)						2.90	2.88	-1%	13.18	13.87	5%	0	0
St John Bosco						2.92	2.48	-15%	12.52	15.53	24%	0	0
St John Paul II		Replace exterior lights Jan 2017	Voltage harmonizer Mar 2017	Replace the glycol heat exchanger, domestic hot water system and allied auxiliaries Jun 2018		14.73	12.24	-17%	8.86	12.73	44%	13	13
St John The Evangelist						2.01	0.08		8.79	0.00		9	0
St John Vianney						3.58	4.25	19%	14.44	20.77	44%	0	0
St John XXIII		Replacement of boilers, terminals equipment and	BAS	Jun 2017		4.34	4.83	11%	15.15	15.52	2%	0	0
St Joseph		Replace boiler, terminal equipment, pumps,	update BAS	May 2018		4.96	3.59	-28%	18.80	17.74	-6%	0	0
St Joseph College						5.46	4.94		0.00	17.25		0	0
St Jude						4.51	3.52	-22%	14.76	11.87	-20%	0	0
St Kateri Tekakwitha						6.00	8.25	37%	58.94	19.30	-67%	1	2
St Kevin						5.70	4.93	-14%	8.62	12.71	48%	3	1
St Lawrence						3.73	3.88	4%	10.95	14.53	33%	3	3
St Leo						3.44	3.87	13%	16.65	14.37	-14%	0	0

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St Louis		Retrofit Boilers, add BAS, replace heat valves Oct 2014				7.75	5.83	-25%	14.94	14.21	-5%	0	0
St Malachy						5.13	5.56	8%	18.25	25.81	41%	4	0
St Marcellus		Replaced full roof Oct 2015				8.40	7.78	-7%	16.44	18.51	13%	4	2
St Margaret		Partial roof replacement Jun 2018				11.61	4.49	-61%	13.32	16.48	24%	12	2
St Margaret - Beatrice Campus						12.26	13.11	7%	30.45	31.18	2%	0	0
St Marguerite Bourgeoys						3.10	2.66	-14%	14.32	17.66	23%	0	0
St Maria Goretti						11.48	11.17	-3%	8.32	6.90	-17%	9	7
St Mark		Lighting control and upgrades Jul 2018				13.01	11.54	-11%	16.68	14.73	-12%	0	0
St Martha						5.86	4.92	-16%	23.46	20.87	-11%	0	0
St Martin de Porres		Retrofit 2 Boilers 672MBTU/hr Heating upgrade Jul 2015				5.87	5.20	-11%	14.46	15.63	8%	3	4
St Mary		Voltage harmonizer Mar 2017	Replace boiler, cooling tower, pumps, update BAS May 2018			3.33	3.52	6%	9.53	12.71	33%	0	0
St Mary Catholic Academy						10.29	9.67	-6%	14.39	22.60	57%	0	0
St Mary of the Angels						3.15	2.93	-7%	16.59	14.86	-10%	0	0
St Matthew						4.81	6.21	29%	23.41	28.24	21%	2	2
St Matthias	Closing Holy Redeemer and consolidating students into St Matthias - 2017					3.75	6.55		22.67	24.79		0	4
St Maurice		Replacement of boilers, DHW tanks, terminal equipment and full BAS Jun 2017				3.70	3.01	-19%	18.34	19.61	7%	0	0
St Michael Choir (Sr)		GYM RTU replacement Feb 2015	Replace Boiler and pumps Oct 2016			8.51	10.43	23%	17.47	10.02	-43%	0	0
St Monica						3.14	4.13	32%	17.49	18.45	5%	0	0
St Mother Teresa		Lighting and controls upgrades Jan 2017	Voltage Harmonizer Mar 2017			12.68	11.13	-12%	11.10	11.68	5%	0	0
St Nicholas	New school - 2013					5.33	6.77		9.32	7.97		0	0
St Nicholas of Bari		Full roof replacement Jul 2017	Replace all windows and doors Jul 2018			13.57	15.47	14%	13.59	12.46	-8%	0	0
St Norbert		Lighting and controls upgrades Jan 2017				5.25	5.21	-1%	15.56	15.32	-2%	2	2
St Oscar Romero		Window remediation May 2015	Boiler retrofit Oct 2015	Roof Replacement Jul 2018		8.61	8.93	4%	15.24	15.16	-1%	0	0
St Paschal Baylon	Addition in 2018					10.73	20.82	94%	13.03	36.08	177%	16	0

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St Patrick Secondary		Voltage harmonizer Mar 2017	Lighting and controls upgrades	Jan 2017		6.64	8.57	29%	10.50	14.24	36%	0	0
St Paul		Retrofit Boilers, add BAS, replace heat valves Oct 2014				3.48	2.71	-22%	13.83	12.29	-11%	0	0
St Paul VI						4.33	4.04	-7%	10.91	11.62	7%	0	0
St Philip Neri	CLOSED					4.30	3.73		13.11	13.76		0	0
St Pius X						8.72	8.62	-1%	18.22	18.88	4%	0	0
St Raphael						6.37	4.90	-23%	12.47	11.63	-7%	8	5
St Raymond	CLOSED					2.94			12.06			0	0
St Rene Goupil						6.02	7.43	23%	7.47	7.43	-1%	0	0
St Richard						4.67	3.62	-22%	13.22	12.69	-4%	0	0
St Rita						2.72	2.45	-10%	10.62	17.86	68%	0	0
St Robert						10.16	9.97	-2%	8.36	6.21	-26%	2	3
St Roch		Controller boiler plant	Nov 2016			4.69	4.50	-4%	10.30	17.96	74%	2	1
St Rose Of Lima						3.25	3.70	14%	5.82	7.49	29%	4	4
St Simon						5.29	7.67	45%	2.11	15.11	614%	6	0
St Stephen		Replace all three interior stairwell and all exterior doors May 2017				4.31	4.54	5%	17.42	15.17	-13%	0	0
St Sylvester						4.54	4.85	7%	4.70	3.20	-32%	1	2
St Teresa	CLOSED					2.55	2.57	1%	12.90	12.71	-1%	0	0
St Theresa Shrine						3.33	4.22	27%	10.27	10.92	6%	0	0
St Thomas Aquinas		Heating system upgrade	Jun 2018			2.88	3.04	6%	15.56	19.50	25%	0	0
St Thomas More						8.62	7.68	-11%	17.27	22.66	31%	0	0
St Timothy						7.35	11.75	60%	7.06	10.21	45%	2	2
St Ursula						9.06	7.22	-20%	14.24	13.93	-2%	4	2
St Victor		Replacement of boilers, terminal equipment, BAS in original part of school Jul 2018				7.03	8.11	15%	25.97	27.00	4%	6	0
St Vincent de Paul						1.95	2.54	31%	21.81	15.20	-30%	0	0
St Wilfrid						4.81	4.09	-15%	12.32	11.21	-9%	0	1
Sts Cosmas and Damian						9.45	9.29	-2%	22.72	20.67	-9%	2	2
The Divine Infant		Windows and doors replacement Jul 2015	Replace full roof	Jul 2016		5.52	7.33	33%	10.38	17.89	72%	0	0
Transfiguration		Replace full roof Jul 2016				5.59	2.89	-48%	18.26	12.82	-30%	1	0

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Venerable John Merlini		Replacement of boilers (2 x794MBH) and controls, Installation of new roof top unit and new duct system Jul 2015				4.84	3.29	-32%	29.07	11.10	-62%	0	0
West facilities		LED lighting installation Jul 2017	Boiler replacement & BAS upgrade Jan 2018			4.14	0.00		12.83	0.00			

9 APPENDIX C ORGANIZATIONAL COMMITMENT AND OCCUPANT AWARENESS MEASURES IMPLEMENTED SINCE 2014

Measure	Description	Status/Progress since last ECDM plan				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
Active and Sustainable Transportation	https://www.tcdsb.org/ProgramsServices/BoardServices/studenttransportation/Documents/TCDSB%20Transportation%20Demand%20Management%20Plan.pdf	Board participation in Winter Walk Day, Bike to School Week, School Transportation Management Planning, School Transportation Planning through Planning Department		Board participation in Winter Walk Day, Bike to School Week, School Transportation Management Planning, School Transportation Planning through Planning Department. Installation of bicycle racks at school locations in conjunction with the City of Toronto. TCDSB creation of Active and Sustainable Transportation Charter.	Board participation in Winter Walk Day, Bike to School Week, School Transportation Management Planning, School Transportation Planning through Planning Department. Installation of bicycle racks at school locations in conjunction with the City of Toronto	
Earth Hour	The Board monitors the number of Schools participating in the Earth hour (switching lights off for one hour) through the TCDSB Earth Hour Challenge and Participation. The board created a poster for School Earth Hour challenge published on the board website. Introduced a "Lights Out" sticker to be displayed near classroom light switches.	Earth Hour – 114 TCDSB locations participated this year	Earth Hour – 117 TCDSB locations participated this year	Earth Hour – 77 TCDSB locations participated this year	Earth Hour – 104 TCDSB locations participated this year	Earth Hour – 77 TCDSB locations participated this year
Earth Month Community Clean Up				St John Paul II, St Henry and St John were on City TV in their Clean Toronto Together Segment	Clean Toronto Together – 97 TCDSB locations participated with 32,107 staff and student participants. This information has also been posted to the Board website with all the areas they have cleaned.	Clean Toronto Together - 103 TCDSB locations participated with 33,227 participants. Mayor Tory visited Blessed Sacrament and participated in the events. This information has been posted to the Board website and through social media.

Measure	Description	Status/Progress since last ECDM plan				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
EcoSchools		A total of 65 schools are certified EcoSchools at TCDSB in 2017-18, with the highest-ever number certifying at the top level, Platinum (9 schools). See chart following this table.				
Energy Month	National Sweater day, Flip The Switch, Phantom Friday, Energy Education day. Details are posted on the board website.					First year program ran at the Board
Environmental Committee	The Board 's Environmental Committee helps to maintain and promote the TCDSB as a community leader in environmental stewardship and sustainability. The committee supports and promotes increasing participation in the board's many energy conservation and environmental awareness initiatives.			Sharing Powerpoint presentation by Sharon Smith (Ontario Electronic Stewardship), sharing of utility statistics (2014/2015) by Facility, distribution of SaveONenergy guidelines on Equipment Disposal & decommissioning, water bottle initiative to reduce waste	Sharing of Powerpoint presentation on Energy Management in TCDSB, distribution of utility statistics 2015/16, launching the first Enbridge Energy Challenge program	Launching of Enbridge Energy Challenge for the second year in Nov 2018.
Environmental Teaching		Integrated into school curriculum under the Ministry of Education's Acting Today, Shaping Tomorrow initiative				
School Ground Greening		Integrated into renewal, capital projects. School-based activities are ongoing on a yearly basis				
TCDSB Tree Planting Program	Trees planted not including Capital or Renewal Projects	n/a	255	275	243	212
Waste Management		Waste Management is provided through the City of Toronto for Waste, Recycling and Organics Diversion. Various other items are recycled through vendor take back programs. Published www.tcdsb.org under Environmental Services				
Energy Procurement		Electricity and Gas purchases are done with the assistance of OEM/CSBSA advisory services using annual contracts.				
Annual energy consumption updates for all schools and TCDSB-owned facilities on the Board's website		Published annually on board website				

Measure	Description	Status/Progress since last ECDM plan				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
Real-time energy consumption monitors for schools				Toronto Hydro MV monitors 19 schools on their web portal	Toronto Hydro Powerlens monitors 19 schools on their web portal	Over fifty facilities are currently monitored by Eyedro real-time energy monitoring system. To be implemented at other sites.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

BLESSED CARDINAL NEWMAN CATHOLIC SECONDARY SCHOOL CAPITAL PROJECT ARCHITECT AWARD AND PROJECT BUDGET APPROVAL (WARD 12)

*"I can do all things through HIM who strengthens me."
Philippians 4:13 (NRSVCE)*

Created, Draft	First Tabling	Review
May 28, 2019	June 6, 2019	
S. Sederavicius, Senior Manager, Capital Development M. Farrell, Coordinator, Materials Management P. de Cock, Comptroller, Business Services S. Campbell, Superintendent of Learning, Student Achievement and Well-Being D. Friesen, (Acting) Executive Superintendent of Facilities Services		
RECOMMENDATION REPORT		

Vision:

At Toronto Catholic, we transform the world through witness, faith, innovation and action.

Mission:

The Toronto Catholic District School Board is an inclusive learning community uniting home, parish and school and rooted in the love of Christ.

We educate students to grow in grace and knowledge to lead lives of faith, hope and charity.



Rory McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and
Chief Financial Officer

A. EXECUTIVE SUMMARY

This report recommends that a contract be awarded to Montgomery Sisam Architects Inc. to provide full architectural services for construction of the new Blessed Cardinal Newman Catholic Secondary School, including a Heritage Impact Assessment and selective demolition of the Scarborough Foreign Mission, for total fees and expenses of \$2,058,279.74, including net HST.

This report also recommends approval of a project budget of \$38,192,402. Funding is available from the Ministry of Education Capital Priorities grant and Education Development Charges. Additional funding for unique site costs, estimated at \$585,983 will be requested following completion of preliminary design and costing. The total estimated project budget with the additional funding is \$38,778,385.

Following approval of the architect appointment, a school community meeting will be scheduled to introduce the architect, who will conduct a “visioning session.” This will be an opportunity for the school community to express their aspirations for the redevelopment of the campus and provide preliminary input into the design of the new school. Consultation with the community will continue throughout the design process.

The cumulative staff time required to prepare this report was 35 hours

B. PURPOSE

The Board’s Purchasing Policy requires that contracts for new schools and major additions be approved by the Board of Trustees.

C. BACKGROUND

1. *Funding was approved in 2015 for the replacement of Blessed Cardinal Newman Secondary School.* On November 9, 2015, the Ministry of Education (EDU) approved Capital Priorities funding in the amount of \$30,404,421 for the construction of a new 1110 pupil place school to replace Blessed Cardinal Newman Secondary School.
2. *The site for the new school has been expanded to include the existing Scarborough Foreign Mission, with potential heritage preservation*

considerations. EDU provided Capital Land funding of \$17,452,257 for the purchase of the Scarborough Foreign Mission property at 2685 Kingston Road. In 2017, EDU approved Capital Priorities funding in the amount of \$171,629 to retain a consultant to carry out a Heritage Impact Assessment (HIA) of the Scarborough Foreign Mission facility and prepare demolition tender documents, increasing the total EDU funding to \$30,576,050.

3. ***Consultation with Toronto Heritage Preservation Services (HPS) has led to a change in the project approach.*** Following several meetings between the Board's heritage and demolition consultant and HPS to review the consultant's heritage assessment, in February 2019 HPS staff clarified that the HIA and demolition proposal would not be accepted without the proposed design of the new secondary school. Further, it was recommended that the school design should be developed in consultation with HPS and City Planning through the Site Plan Approval process.
4. ***The heritage consultant has provided a detailed "Statement of Significance" to be included in a new Request for Proposals (RFP) for architectural services for the new school.*** Demolition of the Scarborough Foreign Mission will now be carried out under the same contract as the construction of the new school. Selective demolition and preservation of some heritage elements would be costly and impractical under a separate contract. Preparation of demolition tender documents under the heritage consultant's contract was terminated and will be included in the architectural services contract for the new school.
5. ***Eight architectural firms with extensive experience in secondary school design were previously selected through a prequalification process to be eligible to submit proposals to provide services for upcoming TCDSB secondary school projects.*** On March 28, 2019, RFP P-045-19 was issued to the eight (8) prequalified firms to provide full architectural services for the Blessed Cardinal Newman replacement school, including the HIA and selective demolition of the Scarborough Foreign Mission, and demolition of the TCDSB-owned portion of the existing Blessed Cardinal Newman building. On April 30, 2019, seven (7) compliant submissions were received.

D. EVIDENCE/RESEARCH/ANALYSIS

1. ***Four firms were shortlisted for an interview based on the scoring of their responses to the RFP.*** The proposals were evaluated by a

committee from the Board's Capital staff according to the following criteria stipulated in the RFP:

Evaluation Criteria	Points Available
A. Score from Stage 1 Prequalification prorated to 25%	25
B. Qualifications of proposed sub-consultant team	15
C. Understanding of Scope of Work - Completeness of Work Plan Deliverables Prime Consultant (Appendix C)	15
D. Suitability of Proponent Team's proposed consultant/sub-consultant services (Appendix C) and timelines as outlined in the Work Plan and Schedule	15
E. Proposed Fixed Fee (Excluding Stipulated Allowances and Separate Price) (Appendix B)	30
Total to Determine Shortlist for Interviews	100
F. Interview & Separate Price (Shortlisted Proponents)	25
Grand Total	125

2. ***Based on Criteria A-E, the following four (4) firms were interviewed:***
 - Hossack & Associates Architects
 - MC Architects
 - Moffet and Duncan Architects
 - Montgomery Sisam Architects
3. ***The highest scoring firm at the conclusion of the interviews was Montgomery Sisam Architects Inc.*** This is the recommended firm to be appointed to provide full architectural services for the project. The consulting team includes, in addition to the architect, structural, civil, mechanical and electrical engineers, landscape architect, heritage consultant and specialty consultants for various studies required to complete the project. The fee of \$2,014,760.90 includes an allowance for required studies and expenses.

E. METRICS AND ACCOUNTABILITY

1. The preliminary project budget for the Blessed Cardinal Newman replacement school, including the HIA and selective demolition of the

Scarborough Foreign Mission, and demolition of the TCDSB-owned portion of the existing Blessed Cardinal Newman building is outlined below in Table 1 below:

Blessed Cardinal Newman Replacement School - Project Budget				
	Funding Breakdown			Total Estimated Costs
	In Benchmark	Not in Benchmark		
	Capital Priorities	Site Prep/ Demolition (EDC)	TGS/ Unique Site Costs	
A. Pre-Design		\$22,271	\$71,512	\$93,783
B. Consultant Fee/Expences	\$1,650,946	\$407,334	\$0	\$2,058,280
C. Municipal Fees	\$411,700	\$161,793	\$0	\$573,493
D. TCDSB Allowances	\$813,451	\$33,681	\$3,600	\$850,732
E. Construction Budget	\$26,983,493	\$6,658,356	\$650,000	\$34,291,849
F. Contingency Allowance	\$544,831	\$332,918	\$32,500	\$910,249
TOTAL PROJECT COST	\$30,404,421	\$7,616,352	\$757,612	\$38,778,385
APPROVED FUNDING	\$30,404,421	\$7,616,352	\$171,629	\$38,192,402
Estimated Funding Deficit (Request for Unique Site Costs)			(\$585,983)	(\$585,983)

2. ***EDU has in the past provided additional funding to address unique site costs.*** A request for additional funding will be submitted to the EDU upon completion of a detailed schematic design costing by a certified Quantity Surveyor. This project is also eligible for Education Development Charges (EDC) to cover the cost of site preparation and demolition.

3. ***Approval to Proceed to tender (ATP) is require from the Ministry of Education.*** Based on a detailed pre-tender estimate by a third party cost consultant, a request for ATP, identifying all funding sources, will be submitted prior to tendering the project. Following tendering, the project budget will be revised to reflect the actual tender price and a report will be submitted for Board approval to award of the tender.

F. IMPLEMENTATION, STRATEGIC COMMUNICATIONS AND STAKEHOLDER ENGAGEMENT PLAN

1. ***Consultation with the school community and other stakeholders will continue throughout the design process.*** Following approval of the architect

appointment, a school community meeting will be scheduled to introduce the architect, who will conduct a “visioning session.” A Local Design Committee (LDC) will be struck to meet regularly with the architect and Capital staff, comprising the principal, superintendent, trustee, parish priest, teachers and parents.

2. ***The project is envisioned as three phases:***

- i. Students remain in the existing school while the new building is being built on the Foreign Mission lands, the new playing field will not be developed at this point as the existing school is located in this area;
- ii. Once the new building is complete, relocate students to the new facility.
- iii. Demolish existing school and develop the new playing field and parking area.

3. ***Regular project status update will be provided to the school community and will also be posted on the school website.*** Facilities staff will communicate directly with the Principal, caretakers, and the area facilities supervisor to coordinate construction activities, including project schedule, hours of work, site access, health and safety issues, and to provide support to the school’s principal and area superintendent for communication with school communities.

G. STAFF RECOMMENDATION

1. That a contract be awarded to Montgomery Sisam Architects Inc. to provide architectural services for the construction of a replacement school for Blessed Cardinal Newman Catholic Secondary School for a fee of \$2,014,760.90, plus net HST of \$43,518,84 for a total cost of \$2,058,279.74, including allowances and expenses.
2. That a project budget of \$38,192,402.00 for the Blessed Cardinal Newman replacement school, as detailed in Table 1, be approved.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

ST. AUGUSTINE CATHOLIC SCHOOL CAPITAL PROJECT BUDGET INCREASE (WARD 3)

*"I can do all things through Him who strengthens me."
Philippians 4:13 (NRSVCE)*

Created, Draft	First Tabling	Review
May 28, 2019	June 6, 2019	
Shirley Sederavucius, (Acting) Senior Manager, Capital Development M. Iafrate, Senior Coordinator, Renewal M. Farrell, Coordinator, Materials Management. de Cock, Comptroller, Business Services M. Caccamo, Superintendent of Learning, Student Achievement and Well-Being D. Friesen, (Acting) Executive Superintendent of Facilities Services		
RECOMMENDATION REPORT		

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Rory McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director
of Facilities, Business and
Communication, Chief Financial
Officer

A. EXECUTIVE SUMMARY

This report recommends approval of a revised project budget of \$9,171,654 for the addition and renovations to St. Augustine Catholic School. The project budget increase of \$1,206,159.00 is required to complete additional Renewal upgrades to the existing building that were identified during construction. This increase will be funded from the School Renewal Grant.

The entire project, including the child care centre, is expected to be completed by September 2019.

The cumulative staff time required to prepare this report was 29 hours.

B. BACKGROUND

1. ***A project budget of \$7,965.495.00 was approved for the addition and renovations to St. Augustine Catholic School at the start of construction.***
On November 9, 2017, the Board approved the award of a construction contract to Bondfield Construction Company Ltd. for a gym and classroom addition and a childcare retrofit, in the amount of \$6,719,063.20 (including net HST) and also approved a revised project budget, based on Ministry of Education (EDU) Approval to Proceed to tender.
2. ***Budget approval for the project included multiple funding sources.*** EDU approved Enrolment Pressures (EP) funding for the project, along with School Renewal Grant (SRG) funding for minor existing building and site renovations, and Child Care Capital funding for the childcare retrofit and replacement of displaced classrooms.
3. ***During the course of construction, additional Renewal work in the existing building was identified.*** This work was recommended to bring mechanical and electrical systems up to current Codes and ensure compatibility with new construction. While carried out in conjunction with the Capital project, this work has been classified as a separate Renewal project. SRG funding of \$1,206,159.00 is required to complete the following work:
 - a. Replacement of existing cast iron radiators with new, including asbestos abatement, new ventilation and connections to the Building Automation (BAS) system;

- b. Correction of existing Electrical Safety Authority (ESA) electrical safety violations throughout the existing school, including emergency lighting upgrades;
- c. Removal of drywall ceilings (including abatement) and replacement with new ceiling tile system;
- d. Re-grading and sodding and repaving of a portion of the existing playground;
- e. Painting of doors and frames, corridors and stairwells, in addition to previously approved painting of classrooms in the existing school for the 50-year anniversary celebrations planned for the fall of 2019.
- f. Installation of a cooling centre in the existing library – increase of \$66,368.93 required in addition to \$75,000 approved as part of the Cooling Centre Program.
- g. Increased architectural fees for Kingsland + Architects for the heating upgrade design and the cooling centre design.

C. METRICS AND ACCOUNTABILITY

1. ***The revised project budget is detailed in Appendix A.*** Funding for the project budget increase is available from the School Renewal Grant (SRG) , under the 2018-2019 School Renewal Plan contingency allowance. There are no changes to the Ministry approved EP, SRG or Child Care Capital funding.
2. ***A small contingency allowance remains in the project budget.*** As detailed in Appendix A, contingency allowances remain under all funding sources for potential change orders as the project nears completion.
3. ***The project is expected to be completed by September 2019.*** Exterior cladding is nearing completion and the interior finishes are anticipated to be substantially complete by mid-July. The child care centre is also expected to open in September 2019.

D. STAFF RECOMMENDATION

That a project budget increase of \$1,206,159.00, funded by the School Renewal Grant, be approved for upgrades to the existing building as part of the addition and renovations to St. Augustine Catholic School, for a total revised project budget of \$9,171,654.00.

APPENDIX A - ST. AUGUSTINE PROJECT BUDGET

St. Augustine Addition (Phase 2)	Project Budget and Funding Source Breakdown					29-May-19
	Total Approved EP	SRG	Child Care (B11)	Unique Site Costs	Total Cost	
Total Fees Capital Project	\$533,600		\$138,818	\$40,173	\$712,592	
Additional Fees Renewal Project		\$25,349			\$25,349	
A. Total Consulting Fees/Expenses	\$533,600	\$25,349	\$138,818	\$40,173	\$737,941	
B. Total Other Soft Costs	\$106,904	\$20,946	\$95,794	\$5,108	\$228,752	
Construction Bid Price at Tender	\$3,780,436	\$598,453	\$1,214,371	\$1,125,803	\$6,719,063	
Capital Project Change Orders	\$27,539		\$25,287	\$130,143	\$182,969	
<i>Renewal Project Change Order</i>		<i>\$1,170,594</i>			<i>\$1,170,594</i>	
C. Total Construction Cost	\$3,807,975	\$1,800,591	\$1,239,658	\$1,255,946	\$8,104,170	
Contingency Allowance	\$23,324	\$14,579	\$38,239	\$24,649	\$100,791	
TOTAL PROJECT COST	\$4,471,803	\$1,861,465	\$1,512,509	\$1,325,876	\$9,171,654	
EDU APPROVED FUNDING	\$4,471,803	\$655,306	\$1,512,509	\$1,325,877	\$7,965,495	
Renewal Project Funding Required		\$1,206,159			\$1,206,159	



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

ST. JOHN THE EVANGELIST CATHOLIC SCHOOL CAPITAL PROJECT BUDGET INCREASE (WARD 10)

*"I can do all things through HIM who strengthens me."
Philippians 4:13 (NRSVCE)*

Created, Draft	First Tabling	Review
May 28, 2019	June 6, 2019	

S. Sederavicius, (Acting) Senior Manager, Capital Development
 M. Farrell, Coordinator, Materials Management
 P. de Cock, Comptroller, Business Services
 D. Yack, Superintendent of Learning, Student Achievement and Well-Being
 D. Friesen, (Acting) Executive Superintendent of Facilities Services

RECOMMENDATION REPORT

Vision:

At Toronto Catholic we transform the world through witness, faith, innovation and action.

Mission:

The Toronto Catholic District School Board is an inclusive learning community uniting home, parish and school and rooted in the love of Christ.

We educate students to grow in grace and knowledge to lead lives of faith, hope and charity.



Rory McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and
Chief Financial Officer

A. EXECUTIVE SUMMARY

This report recommends approval of a revised project budget of \$20,197,306.00 for the construction of the new St. John the Evangelist Catholic School. The increase of \$592,611.00 is required for costs due to delays in the construction of the culvert that will allow access to the Metrolinx tunnel deck for playground space. This includes a contingency allowance of \$200,000 for potential changes that may arise during culvert installation.

All costs related to the culvert construction are funded from Education Development Charges, as well as a share paid by Metrolinx in accordance with the Tunnel Deck License Agreement.

The culvert construction is anticipated to be completed this summer and the new school is expected to open in September 2019, with some landscaping work remaining to be completed.

The cumulative staff time required to prepare this report was 22 hours.

B. PURPOSE

In accordance with Board Policy, budget increases for major Capital projects (new schools and major additions) must be approved by the Board of Trustees.

C. BACKGROUND

1. *A project budget of \$18,748,824.00 was approved for the construction of St. John the Evangelist Catholic School at the start of construction.* On May 18, 2017, the Corporate Services, Strategic Planning and Property Committee (CS) approved the award of a construction contract to Pre-Eng Construction Limited in the amount of \$15,194,256.80 (including net HST) and also approved a revised project budget, based on Ministry of Education (EDU) Approval to Proceed.
2. *A project budget increase was approved in May 2018 for additional costs related to site preparation.* CS approved an increase of \$855,870.00 on May 10, 2018, mainly for removal of contaminated soil and debris, funded from Education Development Charges (EDC).

3. ***Additional costs have been incurred due to delays in gaining access to construct a culvert on Metrolinx property.*** A project budget increase of \$392,611 above the available contingency allowance is required for known change orders to complete the culvert. An additional \$200,000 contingency allowance is recommended for further changes that may arise during culvert installation. All costs related to the culvert are eligible to be funded from EDC's. There may be unused contingency amounts from other funding sources at the end of the project.

D. METRICS AND ACCOUNTABILITY

1. ***The project budget is detailed in Appendix A.*** The revised project budget of \$20,197,306.00 is funded from multiple sources including the EDU Capital Priorities Grant, Full Day Kindergarten Grant and Unique Site Cost funding, EDC's, and City of Toronto Child Care Capital funding. Metrolinx also pays a share of the culvert cost based on a formula included in the Tunnel Deck License Agreement.
2. ***Completion of the culvert is required for occupancy of the new school.*** The school building is complete and ready for occupancy, including all life safety inspections and testing. The culvert installation is anticipated to be completed at the end of July. Site work including parking lot paving and landscaping will then commence and will continue into the fall. The new school is expected to open in September 2019, with some landscaping work remaining to be completed.
3. ***The Tunnel Deck License Agreement is expected to be executed shortly.*** This agreement is required to finalize the Site Plan Agreement for the new school. The purpose of the agreement is to allow access to the tunnel deck to provide additional play space for students.

E. STAFF RECOMMENDATION

That a revised project budget of \$20,197,306.00 be approved for the construction of the new St John the Evangelist Catholic School, as detailed in Appendix A.

St. John the Evangelist Catholic School Project Budget at Tender (all amounts include net HST)	Funding Sources					Total Cost
	Capital Priorities + FDK	EDC Funding 100%	City of Toronto Children's Services	Metrolinx	Ministry Unique Site & TGS Funding	
Total Pre-design Completed (Not included in project budget)		\$448,666				\$448,666
A. Design Consulting Costs (not incl Demolition & Feasibility studies)						
A. Total Design Consulting Fees/ Expenses	\$444,479	\$522,541	\$106,420	\$0	\$39,548	\$1,112,989
Total Pre-design + Design Consulting Fees	\$444,479	\$803,170	\$106,420	\$0	\$39,548	\$1,393,617
B. Other Soft Costs						
B. Total Other Soft Costs	\$539,289	\$82,892	\$123,619	\$0	\$0	\$745,800
C. Construction Costs						
Total Original Construction Contract Bid Price	\$9,150,077	\$3,432,042	\$1,787,800	\$270,630	\$553,707	\$15,194,257
Change Order Report #1		\$1,289,437				\$1,289,437
Change Order Report #2	\$476,024	\$592,611	\$7,347			\$1,075,982
Revised Construction Contract Price	\$9,626,101	\$5,314,090	\$1,795,147	\$270,630	\$553,707	\$17,559,676
Fibre optics (data) connection		\$5,320				\$5,320
Green Roof cash in lieu					\$130,560	\$130,560
C. Total Construction Cost	\$9,626,101	\$5,319,411	\$1,795,147	\$270,630	\$684,267	\$17,695,556
D. Balance remaining in Contingency	\$23,976	\$200,000	\$343,397	\$58,423	\$27,685	\$653,481
TOTAL PROJECT COST	\$10,633,845	\$6,114,324	\$2,368,583	\$329,053	\$751,500	\$20,197,306
APPROVED PROJECT BUDGET	\$10,633,845	\$5,521,713	\$2,368,583	\$329,053	\$751,500	\$19,604,694
Surplus/(Deficit)*	(\$0)	(\$592,611)	(\$0)	\$0	(\$0)	(\$592,611)

*Project budget deficit funded from EDC's



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

DELEGATING OF AUTHORITY FOR APPROVAL OF SUMMER CONTRACT AWARDS 2019 (ALL WARDS)

*"I can do all things through Him who strengthens me."
Philippians 4:13 (NRSVCE)*

Created, Draft	First Tabling	Review
May 28, 2019	June 6, 2019	
S. Sederavicius, (Acting) Senior Manager, Capital Development M. Farrell, Coordinator, Materials Management P. de Cock, Comptroller, Business Services F. Cifelli, D. Yack, J. Shanahan, J. Wujek, K. Malcolm, M. Caccamo, P. Aguiar, S. Campbell Superintendents of Learning, Student Achievement and Well-Being D. Friesen, (Acting) Executive Superintendent of Facilities Services		

RECOMMENDATION REPORT

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Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and
Chief Financial Officer

A. EXECUTIVE SUMMARY

During the summer period when there are no scheduled Committee or Board meetings, a number of consultant contracts and tenders may require Board approval under the Board Purchasing Policy in order to initiate the design and/or construction process for projects.

This report recommends that the Board delegate authority to the Director of Education or designate, and the Chair of the Board or designate, or the Chair of the Corporate Services Committee to award contracts for the months of June, July and August 2019.

Communication by email will be sent to the local school Trustee regarding the award of the contract.

The cumulative staff time required to prepare this report was 3 hours.

B. PURPOSE

1. Board approval is required for tender awards for new school construction, major additions and other projects for which a project budget has not been approved, or the approved project budget has been exceeded. During the summer period when the Board is not scheduled to meet, the Board typically delegates approval authority to the Director of Education or designate.
2. Timely contract approvals will facilitate the scheduling and implementation of major construction projects.

C. BACKGROUND

1. *The Board Purchasing Policy F.P.01 outlines authorities for approval of contract awards.* The policy provides for delegation of authority to the Director of Education to approve the award of all contracts and expenditures where the budget, project or report has been approved by the Board with the exception of:
 - a. New school construction and major school additions;
 - b. Contracts that have exceeded the approved budget;
 - c. Significant strategic initiative.
2. *Capital projects (new schools and additions under a. above) generally require Board approval of consultant and construction contract awards.*

Projects are approved to proceed to tender on an individual case basis by the Ministry of Education based on pre-tender cost estimates, and submitted to the Board for project budget approval as well as the award of contracts. Ministry approval of additional funding is required if a Capital project is over budget.

3. ***Renewal projects generally do not require Board approval of individual tender awards.*** On December 12, 2018, the Board approved the 2018-2019 Revised School Renewal Plan with a total budget of \$51.6M. The program is currently being implemented and there may be construction contracts awarded during the summer months. Under the Board's Purchasing Policy, the Director has the authority to award Renewal contracts where the approved global budget has not been exceeded.

D. EVIDENCE/RESEARCH/ANALYSIS

1. ***The Board typically delegates approval authority to the Director of Education during the summer period from June until August.*** This avoids costly project delays when there are no scheduled Committee or Board meetings. An information report is provided to the Board in the following September.
2. ***In recent years, the delegation of authority has included one of either the Chair or Vice-Chair of the Board.*** In June 2018, the Board approved the delegation of authority to the Director of Education or designate and the Chair or Vice-Chair of the Board or the Chair of the Corporate Services Committee.

E. ACTION PLAN

1. ***Director's Council will recommend contract awards in June, July and August, 2019, prior to circulation to the Chair/Vice-Chair.*** The recommendation report to Director's Council will then be sent by email to the Chair of the Board for approval. If the Chair is not available, it will be circulated to the Vice-Chair, and if he is not available it will be circulated to the Chair of Corporate Services.
2. ***The appropriate local School Trustees will be informed by email of awards of contracts in their wards during the summer period.***

F. METRICS AND ACCOUNTABILITY

1. *A report listing all contracts awarded during the summer months will be provided to the Corporate Service Committee in September.* Capital project budgets are monitored through the Board's financial systems and audit processes and the financial status is reported to the Ministry of Education annually through Capital Asset Project Template (CAPT) system.

G. IMPLEMENTATION, STRATEGIC COMMUNICATIONS AND STAKEHOLDER ENGAGEMENT PLAN

1. *Prior to the end of the school year, Facilities staff will meet with affected school Principals to advise them of the anticipated activities over the summer.* If the construction commences during the summer, while the school is not in session, the status of the project will be communicated to the Principal by email. Staff will meet with the Principal at the end of August 2019 to coordinate the safe return of the staff and students to the site.
2. *As per the Board's Good Neighbour Policy,* a communication letter will be sent to the surrounding neighbours, Principal and local Trustee, as well as to the local City Councillor, prior to the start of major construction at a school.

H. STAFF RECOMMENDATION

That the Board delegate authority to the Director of Education or designate, and the Chair or Vice-Chair of the Board, or the Chair of the Corporate Services Committee, to award contracts for the months of June, July and August 2019.



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

2019-20 BUDGET ESTIMATES OVERALL & INSTRUCTIONAL VOLUMES 1,2,3,4

“Dear children, let us not love with words or speech but with actions and in truth”

1 John 3:18

Created, Draft	First Tabling	Review
May 20, 2019	May 28, 2019	June 6, 2019

D. De Souza, Coordinator of Grants & Ministry Reporting

G. Sequeira, Coordinator of Budget Services

P. De Cock, Comptroller of Business Services & Finance

RECOMMENDATION REPORT

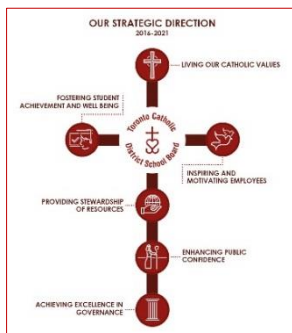
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A. EXECUTIVE SUMMARY

As per the requirements set out in the Education Act, TCDSB's proposed budget estimates are balanced. The 2019-20 budget expenditure and revenue estimates appearing in Volumes 1 to 6 of the Budget Book are balanced; based on consensus enrolment and staffing projections, calculated Grants for Student Needs (GSNs), Other Program funding projections and numerous recommended reductions to service levels.

Two budget related reports have been submitted to facilitate Trustees with conflicts of interest on instructional related funding, at their own discretion, the opportunity to participate in non-instructional and reserve funding related discussions. Volumes 1 to 4 focus on both the overall budget as well as instructional related expenditures, while Volume 5 focuses on non-instructional expenditures and Volume 6 on financial sustainability.

The first volume appearing in the 2019-20 Budget Book provides an overall contextual summary. The Volume is meant to provide trustees, parents and other stakeholders a snapshot of TCDSB's profile as a large, urban, diverse and Catholic school board. Enrolment data refers to the number of students projected to attend TCDSB schools in 2019-20, and is the key driver for revenue and expenditure calculations. Enrolment projections show an increase of 441 elementary students and a decrease of (338) Secondary students for the 2019-20 school year. The total student population is projected to be 91,962

The overall Grants for Student Needs are projected to decrease. TCDSB is projected to derive 92.5% of its operational revenues from the Provincial Grants for Student Needs (GSNs). The remaining funds are received in the form of Priorities and Partnership Funds (PPF) (formerly known as Education Programs – Other or EPOs) and other government agencies. Total funding is expected to decrease by approximately \$4.3M. 2019-20 Revenue projections are as follows:

Panel	2018-19 (\$B)	2019-20 (\$B)	Change (\$B)
GSNs	1.06	1.06	(0.03)
Other Revenues	0.09	0.09	(0.02)
Total	1.15	1.14	(0.05)

The projected enrolment and estimated GSNs provide the capacity to determine the TCDSB's instructional and support service levels. The Education Act and its regulations concerning class sizes and required instructional minutes, consequently, prescribes TCDSB's service levels. The projected expenditures in the Instructional expenditure category are estimated in the table below. It should be noted that reductions in almost all areas of budget have been made in order bring the budget into balance. These reductions are almost exactly consistent with those cited in the May 9, 2019 Corporate Services Committee report. An updated listing of these reductions is separately provided in Appendix B and is also detailed in the Budget Book appearing in Volume 3.

<i>Instructional Expenditure Categories</i>	<i>2018-19 (\$M)</i>	<i>2019-20 (\$M)</i>	<i>Change (\$M)</i>
Classroom Teachers	641.0	638.9	(2.1)
Professionals & Paraprofessionals	57.3	56.0	(1.3)
In School Administration	68.7	69.2	0.5
Textbooks & School Computers	36.0	34.2	(1.7)
Education Assistants	54.3	53.1	(1.2)
Continuing Education	23.2	22.3	(0.9)
Resource Teachers	5.6	4.2	(1.4)
Occasional Teachers	32.6	32.5	(0.2)
Early Childhood Educators	27.1	27.9	0.7
Staff Development	2.9	2.9	0.0
Other Non-Operating	41.1	38.7	(2.4)
Total	989.8	979.9	(9.9)

B. PURPOSE

This report has been prepared for the Board of Trustees to receive and deliberate on the draft 2019-20 budget in preparation for approval at an upcoming June Committee or Board meeting. Any approved and balanced changes to the draft budget will be captured in the next iteration of the budget presented for approval.

C. BACKGROUND

1. ***Based on analysis and review of the announcements to date, service levels across almost all program and service areas need to be reduced in order to develop a balanced budget.*** The Ministry of Education announcements on April 26th impacted many program and service areas, and if the impacts are not addressed, then the operating budget would enter an unbalanced (deficit) position. Consequently, the 2019-20 Budget Estimates must contain service level reductions in order to develop a balanced budget in compliance with the Education Act.
2. ***Announcements for class size changes in some areas were made on March 15, 2019 (2019:B08).*** The new class size requirements for grades 4-8 and 9-12 impacts the TCDSB budget by approximately \$12.5M for the 2019-20 school year and reduces secondary teacher positions by approximately 350 Full-Time Equivalent (FTE) positions over the course of the next four years.
3. ***Current Collective Agreement Local Priorities Funding will expire.*** The expiration of the Local Priorities funding associated with the 2 year Collective Extension Agreements will decrease GSN funding by approximately \$11.1M. It equates to 119 Full-Time Equivalent (FTE) positions that spans almost all employee groups. The provincially negotiated extension agreements expire as of August 31st 2019.
4. ***The continuance of the International Language (IL) Program has been signalled as a primary focus for this Board.*** While the value of the IL program has been confirmed by both Trustees as well as through parent surveys, based on current labour arbitration settlements as well as certain legislative prescriptions, the IL program may lose all funding for the 2019-20 school year. Staff have yet to hear from the Ministry on whether Ministerial approval and all or part of the funding for this program will be provided for the 2019-20 school year. The assumptions in this report contain the notion that the program will continue at TCDSB, but that funding from the Province will be eliminated. This will create a cost pressure of \$8.9M.
5. ***The Ministry has not provided TCDSB specific PPF data.*** While Province wide figures were provided in the April 26th memo, the details specific to TCDSB have not been released. Similarly, the Technical Paper containing specific funding data and criteria was released on May 24th 2019, subsequent to the release of this report. Staff have made assumptions about the

continuation of various funds in order to produce the Budget Book. Staff do not expect large-scale swings in funding based on the unavailable data, but minor amendments may be necessary over the following week(s) depending on any TCDSB specific data that is released by the Ministry.

D. EVIDENCE/RESEARCH/ANALYSIS

Budget Consultation Feedback

1. The 2019-2020 budget consultation launched on April 3, 2019, and included an enhanced webpage with supporting documents and tools for local school communities to initiate consultations in a number of ways. Consultation tools included website, online and paper surveys with feature for Catholic School Parent Council (CSPC) identification, budget video, Frequently Asked Questions (FAQs), social media posts, and letters to schools, parents, parishes and other stakeholders.
2. A public consultation and virtual town hall was held on May 1, 2019, and staff held several meetings with stakeholders including unions, associations, Catholic Parent Involvement Committee (CPIC), Ontario Association of Parents in Catholic Education (OAPCE), Special Education Advisory Committee (SEAC) and Catholic Student Leadership Impact Team (CSLIT).
3. This broad, multi-faceted plan was designed to reflect the compassion and care dictated by applying the Catholic lens when considering how best to support our students. Emphasizing the importance of parent and community voice in these consultations underscores the Board's commitment to maintaining public confidence to ensure feedback is considered while complying with the Ministry of Education's directive to submit a balanced budget for the 2019-2020 fiscal year.
4. A report to Regular Board on May 16, 2019 provides a detailed version of the results of the public consultation. At a high level, public consultation showed a great deal of support for special education supports in both the elementary and secondary panel, 5th Block literacy program in the elementary panel, guidance teachers in the secondary panel, literacy/numeracy/tech-enabled resource materials, STEM and specialty focused programs and air-cooling/classroom furniture/playgrounds from a facilities perspective.

5. Staff attempted to use much of the public input provided as a guide towards recommended appropriate reductions, however it should be noted that considerations towards legislative restrictions, collective agreement restrictions and funding restrictions are also all factors in making these difficult decisions.

Overall Service Level Impacts

1. *Senior staff were able to identify a preliminary list of reductions that fully offset the funding shortfall in order to balance the budget.* Staff consolidated all mandated reductions, along with any mandated increases and offsets from Local Priority Funds. They then identified several preliminary labour and non-labour related reductions or revenue increases that could potentially fully offset the estimated funding shortfall. The following analysis provides a high-level summary of those potential recommendations (FTE = Full Time Equivalent). Appendix A provides a segregated view of these reductions in a similar format provided at Corporate Services Committee on May 9, 2019. The Budget Book (Volume 3) provides a detailed analysis of the proposed service levels adjustments (Appendix B).

Description	\$M	FTE
Increase based on enrolment change	1.20	12.5
Mandated Impacts from Elementary Class Size	3.30	32.1
Mandated Reductions from Secondary Class Size	(10.20)	(94.9)
Reductions Associated with Local Priority Fund	(9.70)	(118.9)
Other Elementary Panel Reductions	(3.20)	(31.0)
Other Net Secondary Panel Reductions	(0.40)	(4.0)
Board Administration and Governance Reductions	(1.15)	(10.0)
Other Non-Labour Impacts	(12.65)	-
	(32.80)	(214.2)

2. *The overall service level impact to the TCDSB amounts to a reduction of 214.2 FTE staff positions.* Reductions would be completed by way of attrition and senior staff are confident that no layoffs would occur, however the impact on the system will certainly be felt through service level reductions to students. The following table provides a high-level analysis of the employee groups that would be affected if the potential recommendations carried through the Preliminary Budget Estimates in June.

Employee Group	FTE
Toronto Secondary Unit (TSU)	(129.4)
Canadian Union of Public Employees (CUPE)	(60.7)
Toronto Elementary Catholic Teachers (TECT)	(12.6)
Management, Administrative and Professional Association (MAPA)	(7.0)
The Education Worker's Alliance of Ontario (EWAO)	(2.0)
Principals and Vice-Principals (P&VPs)	(1.5)
Executive Staff	<u>(1.0)</u>
	(214.2)

3. *Other options are also available to balance the budget.* Senior staff have also provided a few other options that could be used to balance the budget. This list is non-exhaustive; however, it should be kept in mind that the large majority of the Board's budget is restricted in terms of being applied either to specified programs or to classroom ratios. The following is a short list of other potential strategic offsets that are flexible types of funding and related to "Instructional". Another shortlist is provide under the complementary "Non-Instructional" report (inclusive of transportation related analysis).

Description	\$M
Move IL Programs to Evenings/Weekend Format	7.30
Introduce Paid Parking for Employees	3.20
Eliminate Non-Qualifying Student Transportation	3.00
School Block Budget Reductions	1.00

4. *Over the course of the year, the Board of Trustees passed previous motions for items to be considered in the 2019-20 Budget.* Appearing in the table below is a list of budget items that require consideration and decision to be included in this year's operating budget. In summary, the budget impact amounts to another \$2.1M to the operating budget for which additional service level changes are required. Trustees also recently passed a motion to maintain Special Education funding at the same level as the previous year. This was done without the benefit of knowing the shortfall faced by the Board and the GSN announcements. As part of the annual operating budget planning process, the Board of Trustees will make budget decisions, which in effect supersede all previous funding related motions and decisions as per normal practice. None of the amounts listed below have been included in the balanced

budget thus far. Should any of these items be included then an offsetting reduction in another expense area would be required.

Description	\$M
Restoration of School Block Budget to the 2014-15 budget allocation levels	(1.70)
Maximize the funding entitlement for Lunchtime Student Supervisors	(0.30)
Establish an Integrity Commissioner	(0.10)
Maintain Special Education Budget at Previous Year's Level	(3.00)
Total Impact	(5.10)

E. STAFF RECOMMENDATION

1. That the Board of Trustees refer this report and any accompanying approved motions and/or changes, to the Special Board Meeting on June 11, 2019 for further deliberation and approval of the 2019-20 Preliminary Instructional Related Budget Estimates.

TORONTO CATHOLIC
DISTRICT SCHOOL

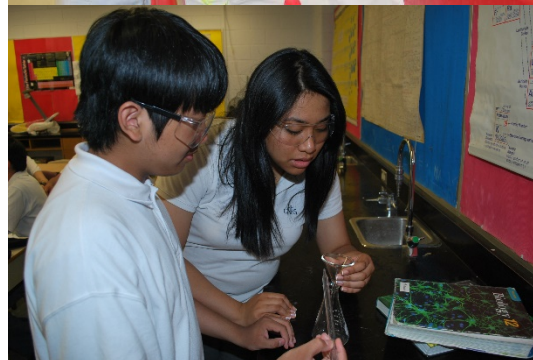
2019 - 2020 BUDGET ESTIMATES

Available at
[www.tcdsb.org/Board/
BudgetandFinance/
Documents](http://www.tcdsb.org/Board/BudgetandFinance/Documents)



Draft- until approved by Board of
Trustees

Expected on June 6, 2019



Draft 2019-2020 TCDSB Year Over Year Budget Impacts

Provincial Funding Decisions	\$M	\$M	\$M
Negative Impacts		Change	
Loss of Local Priorities Funding	(9.70)	(1.43)	(11.13)
Grades 9 to 12 Class Size Change (Year 1 Impact)	(7.70)	(0.22)	(7.92)
Grades 4 to 8 Class Size Change Impact	(4.50)	(0.04)	(4.54)
Loss of Secondary Programming Funds	(2.50)	0.04	(2.46)
Reduction in Gratuity Benefit Grant	(2.00)	-	(2.00)
Capital Debt Financing Adjustment	(1.90)	1.82	(0.08)
Decrease to Facilities Loading Factor (Class Size Changes)	(1.60)	0.63	(0.97)
Addition of International Student Recovery Amount	(1.60)	(0.17)	(1.77)
Loss of Cost Adjustment Allocation	(1.20)	0.01	(1.19)
Partial Loss of Early Childhood Educator Funding	(0.50)	(1.58)	(2.08)
Loss of Human Resource Transition Funding	(0.50)	0.04	(0.46)
Loss of TAG (Temporary Accommodation Grant)		(1.35)	(1.35)
	<u>(33.70)</u>	<u>-</u>	<u>-</u>
	(33.70) A	(2.24)	(35.94)
Positive Impacts			
Increase in Transportation Funding	7.60	(0.09)	7.51
Attrition Protection 5% Specialized Programming Exemption	1.13	0.29	1.42
Increase in Utilities Funding	0.75	-	0.75
Increase in Behavior Expertise Amount	0.50	(0.02)	0.48
Increase School Foundation Grant (P/VPs for Campuses)	0.10	0.21	0.31
Incr Adult Day Sch Supplement moved Cont Ed (Table amount)	-	1.46	1.46
Increase in Indigenous Education Allocations		0.15	0.15
	<u>10.08</u>	<u>-</u>	<u>-</u>
	10.08 B	2.01	12.09
Total Estimated Impacts from Provincial Announcements	(23.62)	=A+B	(23.85)
Net Impact of Enrolment Driven Changes			
Increase in Elementary Enrolment	2.50	(0.09)	2.41
Decrease in Secondary Enrolment	(1.30)	(0.59)	(1.89)
	<u>1.20</u>	<u>(0.68)</u>	<u>0.52</u>
	1.20 D	(0.68)	0.52
International Language Program Extended Day Elimination			
Loss of International Language Program Funding	(5.00)	-	(5.00)
Additional Teachers Due to Shortened Day	(2.30)	(0.04)	(2.34)
Transportation Impacts from Modified Day School Schedules	(1.60)	-	(1.60)
	<u>(8.90)</u>	<u>(0.04)</u>	<u>(8.94)</u>
	(8.90) E	(0.04)	(8.94)
Total Estimated Year Over Year Impacts (Funding Shortfall)	(31.32)	(0.95)	(32.27)

Draft 2019-2020 TCDSB Offsets to Balance Budget

(Positive figures denote increases in expenditure / Full Time Equivalent (FTE) where mandated)

	May 9/19		Change		May 28/19	
Combined	\$M	FTE	\$M	FTE	\$M	FTE
Increases / Reductions Based on Enrolment Changes						
Elementary Teacher Positions (Regular)	2.50	24.5	0.00	0.0	2.50	24.5
Secondary Teacher Positions (Regular)	<u>(1.30)</u>	<u>(12.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(1.30)</u>	<u>(12.0)</u>
	1.20	12.5	0.00	0.0	1.20	12.5
Mandated Impacts from Elementary Class Sizes						
Elementary Teacher Positions	3.30	32.1	0.00	0.0	3.30	32.1
Mandated Reductions Based on Secondary Class Size Changes						
Secondary Teacher Positions (Regular)	(7.70)	(72.0)	0.00	0.0	(7.70)	(72.0)
Secondary Teacher Positions (Programming)	<u>(2.50)</u>	<u>(22.9)</u>	<u>0.00</u>	<u>0.0</u>	<u>(2.50)</u>	<u>(22.9)</u>
	(10.20)	(94.9)	0.00	0.0	(10.20)	(94.9)
Draft Reductions Associated with Local Priority Funding						
Elementary Teachers - 5th Block	(2.40)	(24.0)	0.00	0.0	(2.40)	(24.0)
Education Assistants / Child and Youth Workers	(1.70)	(30.5)	0.00	0.0	(1.70)	(30.5)
Elementary Teachers - Regular Classroom	(1.40)	(14.2)	0.00	0.0	(1.40)	(14.2)
Secondary Teachers - ESL/ELL	(1.30)	(12.5)	0.00	0.0	(1.30)	(12.5)
Custodians, Trades and Maintenance Staff	(0.80)	(10.9)	0.00	0.0	(0.80)	(10.9)
Secondary Teachers - Special Education	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
School Secretaries	(0.40)	(6.7)	0.00	0.0	(0.40)	(6.7)
ESL and Nursery Instructors	(0.30)	(3.3)	0.00	0.0	(0.30)	(3.3)
Programmers, SS Supervisors, Other	(0.20)	(3.6)	0.00	0.0	(0.20)	(3.6)
Professional Student Services Personnel	(0.20)	(2.0)	0.00	0.0	(0.20)	(2.0)
Principals and Vice-Principals	(0.20)	(1.5)	0.00	0.0	(0.20)	(1.5)
Library Technicians	(0.10)	(2.2)	0.00	0.0	(0.10)	(2.2)
Board Administration, Clerical and Technical Staff	<u>(0.10)</u>	<u>(1.5)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	<u>(1.5)</u>
	(9.70)	(118.9)	0.00	0.0	(9.70)	(118.9)
Other Draft Labour Impacts to Offset Funding Shortfall						
Other Elementary Panel Reductions						
ESL Teachers	(2.50)	(24.0)	0.00	0.0	(2.50)	(24.0)
Resource Teachers	<u>(0.70)</u>	<u>(7.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.70)</u>	<u>(7.0)</u>
	(3.20)	(31.0)	0.00	0.0	(3.20)	(31.0)

Other Secondary Panel Reductions / Increases						
Secondary Teachers	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
Secondary Teacher - 5% Additional Attrition Protection	1.00	10.0	0.00	0.0	1.00	10.0
Resource Teachers	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
Workplace Accommodation Contingency	<u>(0.20)</u>	<u>(2.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.20)</u>	<u>(2.0)</u>
	(0.40)	(4.0)	0.00	0.0	(0.40)	(4.0)
Board Administration and Governance Reductions						
Non-Academic Staff Positions	(0.20)	(2.0)	0.00	0.0	(0.20)	(2.0)
Non-Academic Management Positions	(0.80)	(7.0)	0.00	0.0	(0.80)	(7.0)
Non-Academic Executive Position	<u>(0.15)</u>	<u>(1.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.15)</u>	<u>(1.0)</u>
	(1.15)	(10.0)	0.00	0.0	(1.15)	(10.0)
Total Other Draft Labour Impacts to Offset Funding Shortfall	(4.75)	(45.0)	0.00	0.0	(4.75)	(45.0)
Other Draft Non-Labour Impacts to Offset Funding Shortfall						
Adjust Non-Labour Budgets to Align with Historical Actuals	(3.05)		0.48	0.0	(3.53)	
Capital Debt Interest Expense Reduction	(1.90)		(1.82)	0.0	(0.08)	
Incr International Student Fees to Offset Recovery Plus orig	(1.85)		0.87	0.0	(2.72)	
Optimize Bell Times at International Language Schools	(1.60)		0.00	0.0	(1.60)	
Reduce Central Religious Materials Allocation	(1.50)		0.00	0.0	(1.50)	
Benefit Trust Rate Reduction	(1.10)		0.00	0.0	(1.10)	
Reduction in Non-Labour Facilities Expenditures	(0.25)		1.75	0.0	(2.00)	
Occasional Teacher Est usage due to Staff reductions	0.00		0.02	0.0	(0.02)	
Increase Permitting Fees (By 3%)	<u>(0.10)</u>		<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	
	(11.35)	0.00	1.30	0.00	(12.65)	
Total Draft Offsets to Balance Budget	(31.50)	(214.2)	1.30	0.0	(32.80)	(214.2)

ESL = English as a Second Language

ELL = English Language Learner

Draft 2019-2020 TCDSB Offsets to Balance Budget*(Appendix A Provides Reductions by Employee Group)***Instructional***(Positive figures denote increases in expenditure / Full Time Equivalent (FTE) where mandated)*

	May 9/19		Change		May 28/19	
	\$M	FTE	\$M	FTE	\$M	FTE
Increases / Reductions Based on Enrolment Changes						
Elementary Teacher Positions (Regular)	2.50	24.5	0.00	0.0	2.50	24.5
Secondary Teacher Positions (Regular)	<u>(1.30)</u>	<u>(12.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(1.30)</u>	<u>(12.0)</u>
	1.20	12.5	0.00	0.0	1.20	12.5
Mandated Impacts from Elementary Class Sizes						
Elementary Teacher Positions	3.30	32.1	0.00	0.0	3.30	32.1
Mandated Reductions Based on Secondary Class Size Changes						
Secondary Teacher Positions (Regular)	(7.70)	(72.0)	0.00	0.0	(7.70)	(72.0)
Secondary Teacher Positions (Programming)	<u>(2.50)</u>	<u>(22.9)</u>	<u>0.00</u>	<u>0.0</u>	<u>(2.50)</u>	<u>(22.9)</u>
	(10.20)	(94.9)	0.00	0.0	(10.20)	(94.9)
Draft Reductions Associated with Local Priority Funding						
Elementary Teachers - 5th Block	(2.40)	(24.0)	0.00	0.0	(2.40)	(24.0)
Education Assistants / Child and Youth Workers	(1.70)	(30.5)	0.00	0.0	(1.70)	(30.5)
Elementary Teachers - Regular Classroom	(1.40)	(14.2)	0.00	0.0	(1.40)	(14.2)
Secondary Teachers - ESL/ELL	(1.30)	(12.5)	0.00	0.0	(1.30)	(12.5)
Secondary Teachers - Special Education	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
School Secretaries	(0.40)	(6.7)	0.00	0.0	(0.40)	(6.7)
ESL and Nursery Instructors	(0.30)	(3.3)	0.00	0.0	(0.30)	(3.3)
Programmers, SS Supervisors, Other	(0.20)	(3.6)	0.00	0.0	(0.20)	(3.6)
Professional Student Services Personnel	(0.20)	(2.0)	0.00	0.0	(0.20)	(2.0)
Principals and Vice-Principals	(0.20)	(1.5)	0.00	0.0	(0.20)	(1.5)
Library Technicians	<u>(0.10)</u>	<u>(2.2)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	<u>(2.2)</u>
	(8.80)	(106.5)	0.00	0.0	(8.80)	(106.5)
Other Draft Labour Impacts to Offset Funding Shortfall						
Other Elementary Panel Reductions						
ESL Teachers	(2.50)	(24.0)	0.00	0.0	(2.50)	(24.0)
Resource Teachers	<u>(0.70)</u>	<u>(7.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.70)</u>	<u>(7.0)</u>
	(3.20)	(31.0)	0.00	0.0	(3.20)	(31.0)
Other Secondary Panel Reductions / Increases						
Secondary Teachers	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
Secondary Teacher - 5% Additional Attrition Protection	1.00	10.0	0.00	0.0	1.00	10.0
Resource Teachers	(0.60)	(6.0)	0.00	0.0	(0.60)	(6.0)
Workplace Accommodation Contingency	<u>(0.20)</u>	<u>(2.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.20)</u>	<u>(2.0)</u>
	(0.40)	(4.0)	0.00	0.0	(0.40)	(4.0)
Total Other Draft Labour Impacts to Offset Funding Shortfall	(3.60)	(35.0)	0.00	0.0	(3.60)	(35.0)
Other Draft Non-Labour Impacts to Offset Funding Shortfall						

English as a Second Language Revenue Increase	(2.25)		(0.15)	0.0	(2.10)
All other areas of underspend Non-Salary	(0.50)		0.00	0.0	(0.50)
Curriculum and Accountability	(0.30)		0.00	0.0	(0.30)
Incr International Student Fees to Offset Recovery Plus orig	(1.85)		0.87	0.0	(2.72)
Reduce Central Religious Materials Allocation	(1.50)		0.00	0.0	(1.50)
Benefit Trust Rate Reduction	(1.10)		0.00	0.0	(1.10)
Occasional Teacher Est usage due to Staff reductions	0.00		0.02	0.0	(0.02)
	(7.50)	0.00	0.74	0.00	(8.24)
Total Draft Offsets to Balance Budget	(25.60)	(191.8)	0.74	0.0	(26.34) (191.8)

ESL = English as a Second Language

ELL = English Language Learner

Draft 2019-2020 TCDSB Offsets to Balance Budget*(Appendix A Provides Reductions by Employee Group)***Non- Instructional***(Positive figures denote increases in expenditure / Full Time Equivalent (FTE) where mandated)*

	May 9/19		Change		May 28/19	
	\$M	FTE	\$M	FTE	\$M	FTE
Draft Reductions Associated with Local Priority Funding						
Custodians, Trades and Maintenance Staff	(0.80)	(10.9)	0.00	0.0	(0.80)	(10.9)
Board Administration, Clerical and Technical Staff	<u>(0.10)</u>	<u>(1.5)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	<u>(1.5)</u>
	(0.90)	(12.40)	0.00	0.00	(0.90)	(12.40)

Other Draft Labour Impacts to Offset Funding Shortfall

Board Administration and Governance Reductions

Non-Academic Staff Positions	(0.20)	(2.0)	0.00	0.0	(0.20)	(2.0)
Non-Academic Management Positions	(0.80)	(7.0)	0.00	0.0	(0.80)	(7.0)
Non-Academic Executive Position	<u>(0.15)</u>	<u>(1.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.15)</u>	<u>(1.0)</u>
	(1.15)	(10.00)	0.00	0.00	(1.15)	(10.00)
Total Other Draft Labour Impacts to Offset Funding Shortfall	(2.1)	(22.4)	0.0	0.0	(2.1)	(22.4)

Other Draft Non-Labour Impacts to Offset Funding Shortfall

Increase in Insurance Recoveries - Facilities	0.00		0.50	0.0	(0.50)	
Increase in Cafeteria Revenues	0.00		0.13	0.0	(0.13)	
Capital Debt Interest Expense Reduction	(1.90)		(1.82)	0.0	(0.08)	
Optimize Bell Times at International Language Schools	(1.60)		0.00	0.0	(1.60)	
Reduction in Non-Labour Facilities Expenditures	(0.25)		1.75	0.0	(2.00)	
Increase Permitting Fees (By 3%)	<u>(0.10)</u>		<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	
	(3.85)	0.00	0.56	0.00	(4.41)	
Total Draft Offsets to Balance Budget	(5.9)	(22.4)	0.6	0.0	(6.5)	(22.4)

ESL = English as a Second Language

ELL = English Language Learner

	(31.50)	(214.20)	1.30	0.00	(32.80)	(214.20)
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	(31.50)	(214.2)	1.30	0.0	32.80	(214.2)
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Draft 2019-20 Funding Shortfall Offsets Summary

			Change	Change		
	\$M	FTE	\$M	FTE	\$M	FTE
Total Estimated Year Over Year Impacts (Funding Shortfall)	(31.32)		0.95	0.00	(32.27)	
Current Total Draft Offsets to Balance Budget	<u>(31.50)</u>	(214.20)	<u>1.30</u>	<u>0.00</u>	(32.80)	(214.20)
Outstanding Offset (Amount of Further Reductions Required)	0.18		(0.35)	0.00	0.53	

Other Potential Ideas for Offsetting Funding Shortfall

Move IL Programs to Evenings/Weekend Format	(7.30)	(7.30)
Introduce Paid Parking for Employees	(3.20)	(3.20)
Eliminate "Non-Qualifying" Student Transportation	(1.00)	(1.00)
School Block Budget Reductions	<u>(1.00)</u>	<u>(1.00)</u>
	(12.50)	(12.50)

Summary of TCDSB Transportation Efficiency Opportunities

Description	# of Students Impacted	\$ Cost Savings (\$M)
Increase Transportation Boundary Increasing the transportation boundary from 1.5km to 1.6km (matching the TDSB boundary) could reduce the number of students receiving bussing services who live within the 1.5km to 1.6km boundary change. Currently, the TCDSB provides bussing services to 1,235 students within this range for Grades 1 to 8.	1,235	\$0.2
Eliminate Non-Qualifying Transportation Discontinue the practice of providing bussing services to students who live in a geographic area not qualifying on the basis of distance or hazard criteria; and such students continue to receive services on an ongoing basis year-over-year given Board approval.	6,256	\$3.0
Eliminate Courtesy Seats Discontinue the provision of courtesy seats for students who are accessing empty seats under one of the three conditions: <ol style="list-style-type: none"> 1. Empty seat (empty seat on a large capacity bus), 2. Extenuating Priority (these are mostly siblings of students with special needs so they can ride the same bus or students in fresh start programs), 3. Extenuating circumstances (when parents cannot get their child to an existing bus stop or school). 	6,068	\$0.7
Hazardous Transportation Conditions Hazard transportation is provided for students who meet the hazard criteria set out by the Board. This criteria is attached for reference. If the student encounters these hazards on their way to and from school then they are provided transportation. There is no need to apply or reapply, they are simply deemed eligible based on the transportation policy	1,261	



REPORT TO

CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY COMMITTEE

2019-20 BUDGET ESTIMATES NON INSTRUCTIONAL VOLUMES 5 & 6

"I appeal to you, brothers and sisters, in the name of our Lord Jesus Christ, that all of you agree with one another in what you say and that there be no divisions among you, but that you be perfectly united in mind and thought."

1 Corinthians 1:10

May 20, 2019

May 28, 2019

June 6, 2019

D. De Souza, Coordinator of Grant & Ministry Reporting

G. Sequeira, Coordinator of Budget Services

P. De Cock, Comptroller of Business Services & Finance

RECOMMENDATION REPORT

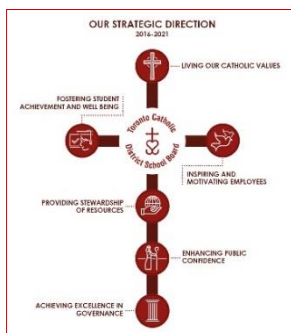
Vision:

At Toronto Catholic we transform the world through witness, faith, innovation and action.

Mission:

The Toronto Catholic District School Board is an inclusive learning community uniting home, parish and school and rooted in the love of Christ.

We educate students to grow in grace and knowledge to lead lives of faith, hope and charity.



Rory McGuckin
Director of Education

D. Koenig
Associate Director
of Academic Affairs

L. Noronha
Associate Director of Facilities,
Business and Community
Development, and
Chief Financial Officer

A. EXECUTIVE SUMMARY

As per the requirements set out in the Education Act, TCDSB's budget estimates are balanced. The 2019-20 Non-Instructional budget expenditure estimates appearing in the Budget Book's Volume 5 is balanced; based on consensus enrolment and staffing projections, and calculated Grants for Student Needs (GSN) and other funding projections. Volume 6 provides an update regarding the financial reserve strategy facilitating the means by which the TCDSB can achieve further financial sustainability.

Two budget related reports have been submitted to facilitate Trustees with conflicts of interest on instructional related funding, at their own discretion, the opportunity to participate in non-instructional and reserve funding related discussions. Volumes 1 to 4 focus on both the overall budget as well as instructional related expenditures, while Volume 5 focuses on non-instructional expenditures and Volume 6 on financial sustainability. The two reports and associated Volumes of the Budget Book are intended to be read together for a fulsome understanding of the budget, but are separated for the purposes of public debate.

The projected enrolment and estimated GSNs provide the capacity to determine the TCDSB's non-instructional support service levels. The Education Act and its regulations concerning Board Administration and Governance, for example, establish upper expenditure limits and prescribe the trustee's honoraria calculations, and consequently, defines TCDSB's service levels. The projected expenditures in the Non-Instructional expenditure category appear in the table below:

<i>Non-Instructional Expenditure Categories</i>	<i>2018-19 Revised Estimates (\$M)</i>	<i>2019-20 Estimates (\$M)</i>	<i>Change (\$M)</i>
School Operations & Maintenance	98.0	97.9	(0.1)
Administration & Governance	25.5	25.6	0.1
Transportation	37.2	36.7	(0.5)
Other-Temporary Accommodations	3.9	3.2	(0.7)
Total	164.7	163.4	(1.3)

The cumulative staff time required to prepare this report was 210 hours.

B. PURPOSE

This report has been prepared for the Board of Trustees in order to approve the 2019-20 Budget Estimates for the Non-Instructional Expenditure Categories (Volume 5) and the Reserve Strategy (Volume 6), appearing in the attached 2019-20 Budget Book.

C. BACKGROUND

1. ***Based on the analysis and review of the announcements to date, staff expect that service levels across all program and service areas will need to be reduced in order to develop a balanced budget.*** The Ministry of Education announcements on April 26th affect many program and service areas, and if the impacts are not addressed then the operating budget would enter an unbalanced (deficit) position. Consequently, the 2019-20 Budget Estimates must contain service level reductions in order to develop a balanced budget in compliance with the Education Act.
2. ***Staff have been working on analysing the impacts of previous announcements.*** The following paragraphs provide a brief recap of previous announcements on March 15th, 2019 related to non-instructional impacts.
3. ***Current Collective Agreement Local Priorities Funding will expire.*** The expiration of the Local Priorities funding associated with the 2 year Collective Extension Agreements will decrease GSN funding by approximately \$9.7M. It equates to 119 Full-Time Equivalent (FTE) positions that spans almost all employee groups. The provincially negotiated extension agreements expire August 31st 2019.
4. ***Student Transportation funding increased by \$7.6M.*** The GSNs will provide stabilization funding to school boards that run efficient transportation operations wherein the costs of student transportation exceed the funding provided for that purpose. A 4% inflationary increase will also be added to the transportation funding. TCDSB will receive \$7.6M in additional funding to help with the transportation deficit.
5. ***Funding for Facilities Maintenance and Operations will decrease overall.*** To align with the proposed changes to secondary class size, the Supplementary Area Factor for school facility operations will be adjusted. This change will be phased in over five years. The 2019-20 impact to TCDSB

is expected to be a reduction in funding of \$1.6M. An increase in funding will be provided to recognize inflation in utilities. For the TCDSB this equates to approximately \$0.75M. The net impact on Facilities Maintenance and Operations is estimated to be a decrease of \$0.85M.

6. ***Funding for Human Resource staffing has decreased.*** The Human Resource Transition Supplement, a fund within the Board Administration & Governance Grant to assist in managing the extension agreements, has been eliminated. This results in a funding decrease of \$0.5M for TCDSB.
7. ***The continuance of the International Language (IL) Program has been signalled as a primary focus for this Board.*** While the value of the IL program has been confirmed by both Trustees as well as through parent surveys, based on current labour arbitration settlements as well as certain legislative prescriptions, the IL program may lose all funding for the 2019-20 school year. Staff have yet to hear from the Ministry of Education on whether Ministerial approval and all or part of the funding for this program will be provided for the 2019-20 school year. The assumptions in this report contain the notion that the program will continue at TCDSB, but that funding from the Province will be eliminated. This will create a non-instructional cost pressure of \$1.6M related to transportation service adjustments at IL program schools.

D. EVIDENCE/RESEARCH/ANALYSIS

Budget Consultation Feedback

1. The 2019-2020 budget consultation launched on April 3, 2019, and included an enhanced webpage with supporting documents and tools for local school communities to initiate consultations in a number of ways. Consultation tools included website, online and paper surveys with feature for Catholic School Parent Council (CSPC) identification, budget video, Frequently Asked Questions (FAQs), social media posts, and letters to schools, parents, parishes and other stakeholders.
2. A public consultation and virtual town hall was held on May 1, 2019, and staff held several meetings with stakeholders including unions, associations, Catholic Parent Involvement Committee (CPIC), Ontario Association of Parents in Catholic Education (OAPCE), Special Education Advisory Committee (SEAC) and Catholic Student

Leadership Impact Team (CSLIT).

3. Comments around cost areas related to *facilities* that are most important, and should not be considered for reduction, included: air-cooling, flooring, lighting, painting, and access control and security. Some participants suggested grounds maintenance as an area that could be considered for reduction.
4. Participants were in favor of tightening up the *transportation* guidelines for non-qualifying and exceptional circumstance students. Feedback also suggested the need to increase the promotion of physical activity among their school communities.
5. When asked about *efficiencies*, participants suggested promoting community use of schools and increasing permit fees.
6. Public delegations identified playgrounds as an area for increased investment. The Ministry of Education does not provide funding for playground equipment, and consequently, school communities raise funds for equipment through fundraising efforts, grants, municipal funds and other sources of funding. The TCDSB normally funds the site preparation work for the implementation of any playground areas, which include asphalt remediation, pedestrian paving, fencing, gates and line painting. The 2018-19 approved School Renewal plan carries a budget for such initiatives totaling \$300,000. A staff member in the School Renewal Department is responsible for assisting CSPC's with playground implementation.

Non-Instructional Service Impacts

1. *Senior staff were able to identify a list of reductions that fully offset the funding shortfall in order to balance the budget.* Staff consolidated all mandated reductions, along with any mandated increases and offsets from Local Priority Funds. They then identified several labour and non-labour related reductions that could potentially fully offset the estimated funding shortfall. This would result in a reduction in expenditures of (\$2.4M) and a loss of (22.4) FTE. The Budget Book (Volume 5) provides a detailed analysis of the proposed service levels adjustments (Appendix 5).
2. *Other options are also available to balance the budget.* Senior staff

have also provided a few other options that could be used to balance the budget. This list is non-exhaustive; however, it should be kept in mind that the large majority of the Board's budget is restricted in terms of being applied either to specified programs or to classroom ratios. The following item below is another potential strategic offset within the non-instructional side.

Description	\$M
Eliminate "Non-Qualifying" Student Transportation	(3.00)

3. *Over the course of the year, the Board of Trustees passed previous motions for items to be considered in the 2019-20 Budget.* Appearing below is a budget item that requires consideration and a decision to be included in this year's operating budget. In summary, the budget impact for the non-instructional operating budget amounts to \$0.1M for which additional service level changes are required to offset.

Establish an Integrity Commissioner	(\$0.10)
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E. STAFF RECOMMENDATION

1. That the Board of Trustees refer this report and any accompanying approved motions and/or changes, to the Special Board Meeting on June 11, 2019 for further deliberation and approval of a balanced budget with a base budget decrease in the Non-Instructional Category by (\$1.3M), inclusive of a reduction 22.5 FTEs, as further detailed in Volume V of the Budget Book.

TORONTO CATHOLIC
DISTRICT SCHOOL

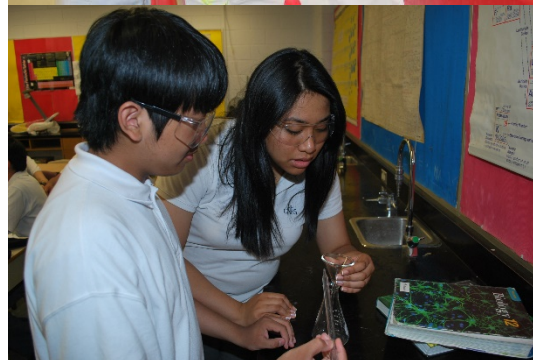
2019 - 2020 BUDGET ESTIMATES

Available at
[www.tcdsb.org/Board/
BudgetandFinance/
Documents](http://www.tcdsb.org/Board/BudgetandFinance/Documents)



Draft- until approved by Board of
Trustees

Expected on June 6, 2019



Draft 2019-2020 TCDSB Offsets to Balance Budget*(Appendix A Provides Reductions by Employee Group)**Non- Instructional**(Positive figures denote increases in expenditure / Full Time Equivalent (FTE) where mandated)*

	May 9/19		Change		May 28/19	
	\$M	FTE	\$M	FTE	\$M	FTE
Draft Reductions Associated with Local Priority Funding						
Custodians, Trades and Maintenance Staff	(0.80)	(10.9)	0.00	0.0	(0.80)	(10.9)
Board Administration, Clerical and Technical Staff	<u>(0.10)</u>	<u>(1.5)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.10)</u>	<u>(1.5)</u>
	(0.90)	(12.40)	0.00	0.00	(0.90)	(12.40)
Other Draft Labour Impacts to Offset Funding Shortfall						
Board Administration and Governance Reductions						
Non-Academic Staff Positions	(0.20)	(2.0)	0.00	0.0	(0.20)	(2.0)
Non-Academic Management Positions	(0.80)	(7.0)	0.00	0.0	(0.80)	(7.0)
Non-Academic Executive Position	<u>(0.15)</u>	<u>(1.0)</u>	<u>0.00</u>	<u>0.0</u>	<u>(0.15)</u>	<u>(1.0)</u>
	(1.15)	(10.00)	0.00	0.00	(1.15)	(10.00)
Total Other Draft Labour Impacts to Offset Funding Shortfall	(2.1)	(22.4)	0.0	0.0	(2.1)	(22.4)
Other Draft Non-Labour Impacts to Offset Funding Shortfall						
Increase in Insurance Recoveries - Facilities	0.00		0.50	0.0	(0.50)	
Increase in Cafeteria Revenues	0.00		0.13	0.0	(0.13)	
Capital Debt Interest Expense Reduction	(1.90)		(1.82)	0.0	(0.08)	
Optimize Bell Times at International Language Schools	(1.60)		0.00	0.0	(1.60)	
Reduction in Non-Labour Facilities Expenditures	(0.25)		1.75	0.0	(2.00)	
Increase Permitting Fees (By 3%)	<u>(0.10)</u>		<u>0.00</u>	0.0	<u>(0.10)</u>	
	(3.85)	0.00	0.56	0.00	(4.41)	
Total Draft Offsets to Balance Budget	(5.9)	(22.4)	0.6	0.0	(6.5)	(22.4)
	(31.50)	(214.2)	1.30	0.0	32.80	(214.2)

Draft 2019-20 Funding Shortfall Offsets Summary

Other Potential Ideas for Offsetting Funding Shortfall

Eliminate "Non-Qualifying" Student Transportation	(1.00)
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Summary of TCDSB Transportation Efficiency Opportunities

Description	# of Students Impacted	\$ Cost Savings (\$M)
Increase Transportation Boundary Increasing the transportation boundary from 1.5km to 1.6km (matching the TDSB boundary) could reduce the number of students receiving bussing services who live within the 1.5km to 1.6km boundary change. Currently, the TCDSB provides bussing services to 1,235 students within this range for Grades 1 to 8.	1,235	\$0.2
Eliminate Non-Qualifying Transportation Discontinue the practice of providing bussing services to students who live in a geographic area not qualifying on the basis of distance or hazard criteria; and such students continue to receive services on an ongoing basis year-over-year given Board approval.	6,256	\$3.0
Eliminate Courtesy Seats Discontinue the provision of courtesy seats for students who are accessing empty seats under one of the three conditions: <ol style="list-style-type: none"> 1. Empty seat (empty seat on a large capacity bus), 2. Extenuating Priority (these are mostly siblings of students with special needs so they can ride the same bus or students in fresh start programs), 3. Extenuating circumstances (when parents cannot get their child to an existing bus stop or school). 	6,068	\$0.7
Hazardous Transportation Conditions Hazard transportation is provided for students who meet the hazard criteria set out by the Board. This criteria is attached for reference. If the student encounters these hazards on their way to and from school then they are provided transportation. There is no need to apply or reapply, they are simply deemed eligible based on the transportation policy	1,261	

2019 REVISED CALENDAR OF ANNUAL REPORTS & POLICY METRICS

A = Annual Report

P = Policy Metric Report

Q = Quarter Report

#	Due Date	Committee/Board	Subject	Responsibility of
1	January (P)	Corporate Services	<u>B.R.01 Rental of Surplus School Space & Properties</u> Policy Metric	A.D. Facilities, Business, Community Development
2	February (Q)	Corporate Services	Financial Status Update Report #1	A.D. Facilities, Business, Community Development
3	March (A)	Corporate Services	Budget Series Report: Financial Planning and Consultation Review	A.D. Facilities, Business, Community Development
4	March (A)	Corporate Services	Consensus Student Enrolment Projection	A.D. Facilities, Business, Community Development
5	March (A/P)	Corporate Services	Transportation Annual Report and <u>S.T.01 Transportation</u> Policy Metric	A.D. Facilities, Business, Community Development
6	April (A)	Corporate Services	Budget Series Report: Grants for Student Needs Update	A.D. Facilities, Business, Community Development
7	May (P)	Corporate Services	<u>A.18 Development Proposals, Amendments and Official Plans and Bylaws</u> Policy Metric	A.D. Facilities, Business, Community Development
8	May (Q)	Corporate Services	Financial Status Update Report #2	A.D. Facilities, Business, Community Development
9	May (A)	Corporate Services	Budget Series Report: Preliminary Budget Estimates for the Following Fiscal Year	A.D. Facilities, Business, Community Development
10	June (A)	Corporate Services	Budget Series Report: Recommended Budget Estimates for the Following Fiscal Year	A.D. Facilities, Business, Community Development
11	June (A)	Corporate Services	Delegated Authority Report	A.D. Facilities, Business, Community Development
12	September (Q)	Corporate Services	Financial Status Update Report #3	A.D. Facilities, Business, Community Development

2019 REVISED CALENDAR OF ANNUAL REPORTS & POLICY METRICS

13	September (A)	Corporate Services	Preliminary Enrolment Report for Elementary and Secondary Schools and S.A.01 <u>Elementary Admission and Placement</u> Policy Metric	A.D. Facilities, Business, Community Development
14	September (A)	Corporate Services	Capital Program Update	A.D. Facilities, Business, Community Development
15	September (A)	Corporate Services	Delegated Authority Update Report	A.D. Facilities, Business, Community Development
16	October (A)	Corporate Services	Trustee Honorarium Report	A.D. Facilities, Business, Community Development
17	November (A)	Corporate Services	Legal Fees Report	A.D. Facilities, Business, Community Development
18	November (A/Q)	Corporate Services	Audited Financial Statement and Financial Status Update #4	A.D. Facilities, Business, Community Development
19	December (A)	Corporate Services	Budget Series Report: Revised Budget Estimates for the Current Fiscal Year	A.D. Facilities, Business, Community Development
20	December (A)	Corporate Services	Annual Investment Report	A.D. Facilities, Business, Community Development

**CORPORATE SERVICES, STRATEGIC PLANNING AND PROPERTY
PENDING LIST TO JUNE 6, 2019**

#	Date Requested & Committee/Board	Report Due Date	Destination of Report Committee/Board	Subject	Delegated To
1	Nov-18 Corporate Services	Sep-19	Corporate Services	That staff return for final approval of the project once the RFP results are finalized (Public Meeting Room Audio Visual Upgrades –Funding)	Associate Director of Facilities, Business and Community Development
2	Mar-19 Corporate Services	Sep-19	Corporate Services	Report regarding further analysis to see how priority neighbourhoods could be assisted with bank fees (March 2019 School Cash Suite Progress Report)	Associate Director of Facilities, Business & Comm. Dev & CFO
3	Apr-19 Corporate Services	TBD	Corporate Services	Report regarding meeting of staff, Trustee and key members of the O'Connor Heritage House Committee to determine what kind of partnership would be feasible going forward (Senator O'Connor College School Estate Building (Ward 11))	Associate Director of Facilities, Business & Comm. Dev & CFO
4	May-19 Corporate Services	Jun-19	Regular Board	Report regarding Playground Forms (Inquiry from Trustee Rizzo)	Associate Director of Facilities, Business & Comm. Dev & CFO