

JUNE 7, 2023

WATERLOO REGION DISTRICT SCHOOL BOARD

NOTICE AND AGENDA

A **Special Budget meeting** of the Waterloo Region District School Board will be held in the Boardroom, Building 2, 51 Ardelt Avenue, Kitchener, Ontario, on **Wednesday, June 7, 2023, at 7:00 p.m.**

AGENDA

Call to Order

O Canada

Approval of Agenda

Declarations of Pecuniary Interest

Delegations

Reports

01	Energy and Greenhouse Gas Emissions Update	C. Gingrich Regehr / L. Lima
19	2023-2024 Pupil Accommodation Grant – School Renewal Allocation	N. Landry / R. Dallan
30	2023-2024 School Condition Improvement Grant	N. Landry / R. Dallan
33	Major Capital Projects Quarterly Update	N. Landry / R. Dallan
	2023-2024 GSN Overview	N. Landry

Adjournment

Questions relating to this agenda should be directed to
Stephanie Reidel, Manager of Corporate Services
519-570-0003, ext. 4336, or Stephanie_Reidel@wrdsb.ca



Report to Committee of the Whole

June 7, 2023

Subject: Energy and Greenhouse Gas Emissions Update

Recommendation

This report is for the information of the board.

2021/22 Energy Use Intensity

Since 2008 the Waterloo Region District School Board (Board) has monitored energy consumption at our schools, outdoor centres and administration and supporting facilities, using weather-normalized Energy Use Intensity (EUI) to monitor performance year to year and identify facilities in greater need of attention. Figure 1 reports the change in total EUI for all Board-owned sites over the last 14 years. The Board has experienced a weather-normalized **16.1 percent reduction in our overall Energy Use Intensity** between 2008 and 2021/22. Electricity intensity was reduced by 19.8 percent, with a reduction in natural gas intensity of 14.5 percent. Figure 2 reports the average EUI by the panel. **The EUI in all three panels increased in 2021/22 due to the enhanced ventilation measures undertaken in response to COVID-19**, as mandated by the [Ministry of Education](#) for the 2021/22 school year. This increase was not offset by system shutdowns in 2021/22, as it was in 2020/21. These measures, including HEPA air filtration units and maximizing ventilation, increased energy consumption by up to 1 percent and 10 percent respectively. The EUI for each school is presented in Appendices A and B. The technical background for these terms and methodology is given in Appendix G.

Figure 1: Total Energy Use Intensity Combined, 2008 to Fiscal Year 2021/22

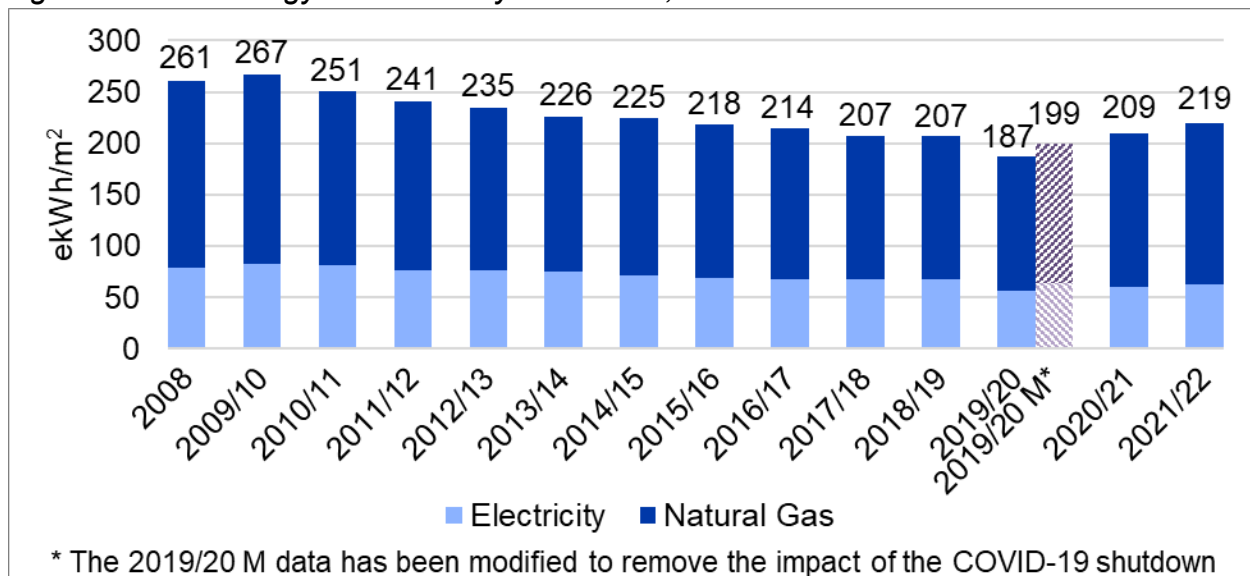
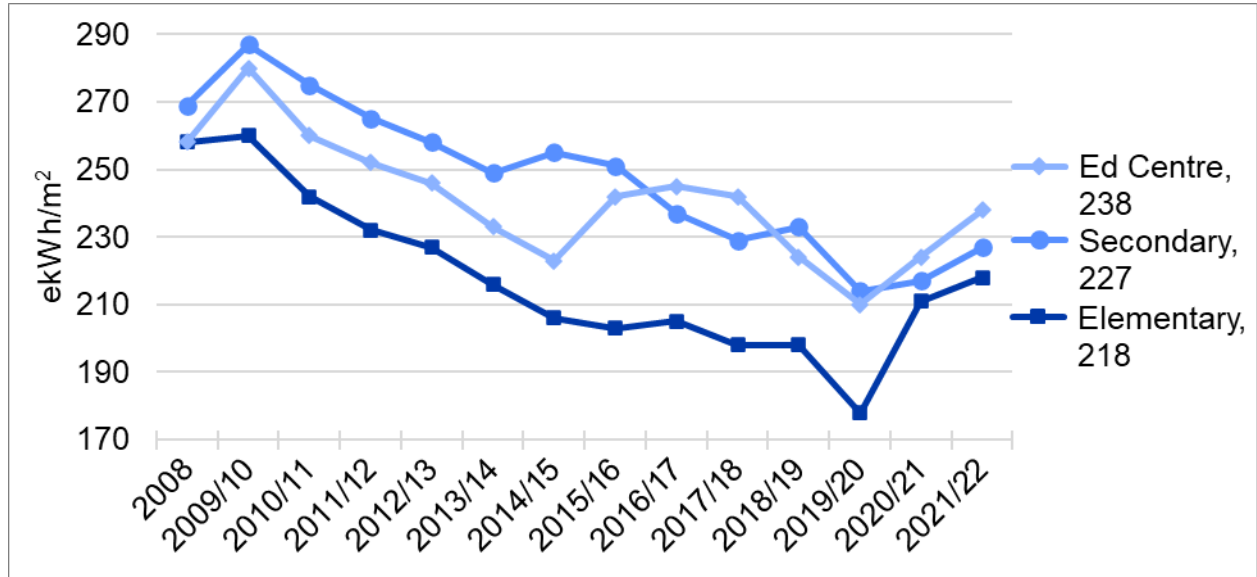


Figure 2: Average Energy Use Intensity by Panel, 2008 to Fiscal Year 2021/22



2021/22 Greenhouse Gas Emissions

Total greenhouse gas (GHG) emissions per square meter (GHG emission intensity) for all Board-owned sites is shown in Figure 3. Figure 4 reports the average GHG emission intensity by the panel. Note that this data is not weather normalized. The GHG emission intensity increased in 2021/22 due to COVID-19 ventilation requirements and other factors. GHG emissions intensities for each school are presented in Appendix C and D.

Total GHG Emission Intensity has reduced by 31 percent since 2008. The Board’s GHG emissions are significantly influenced by GHG emissions from electricity generation in Ontario. The **emissions from electricity generation have fallen by 75 percent in Ontario** in the last decade. They were lowest in 2017/18, but they have begun to increase slightly as the province relies more heavily on natural gas generation.

Figure 3: Total GHG Emission Intensity Combined, 2008 to Fiscal Year 2021/22

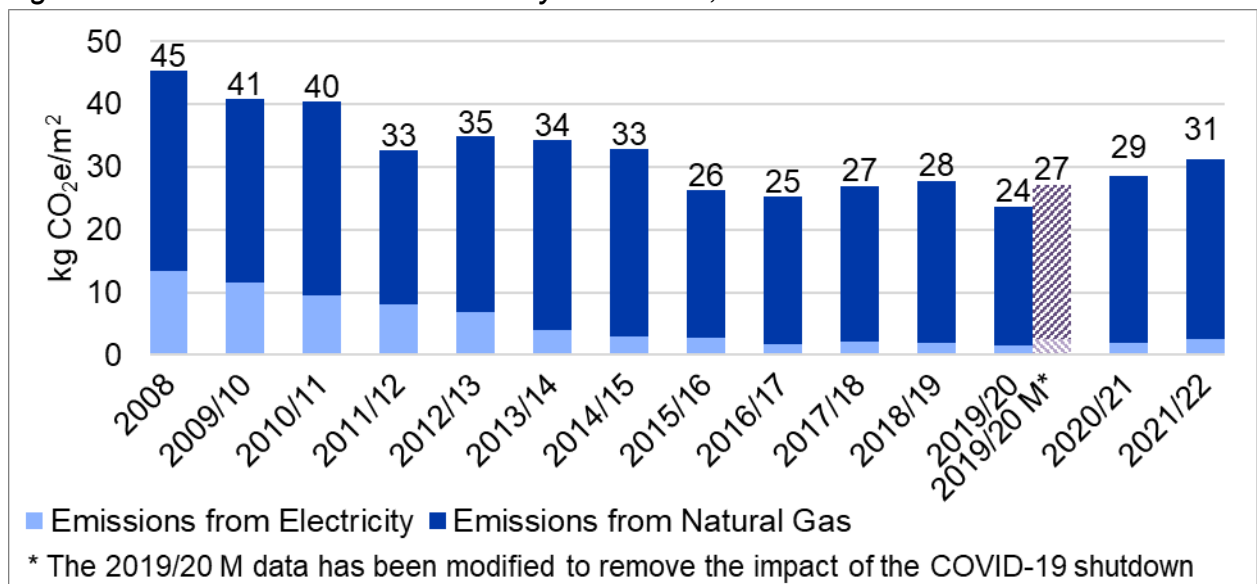
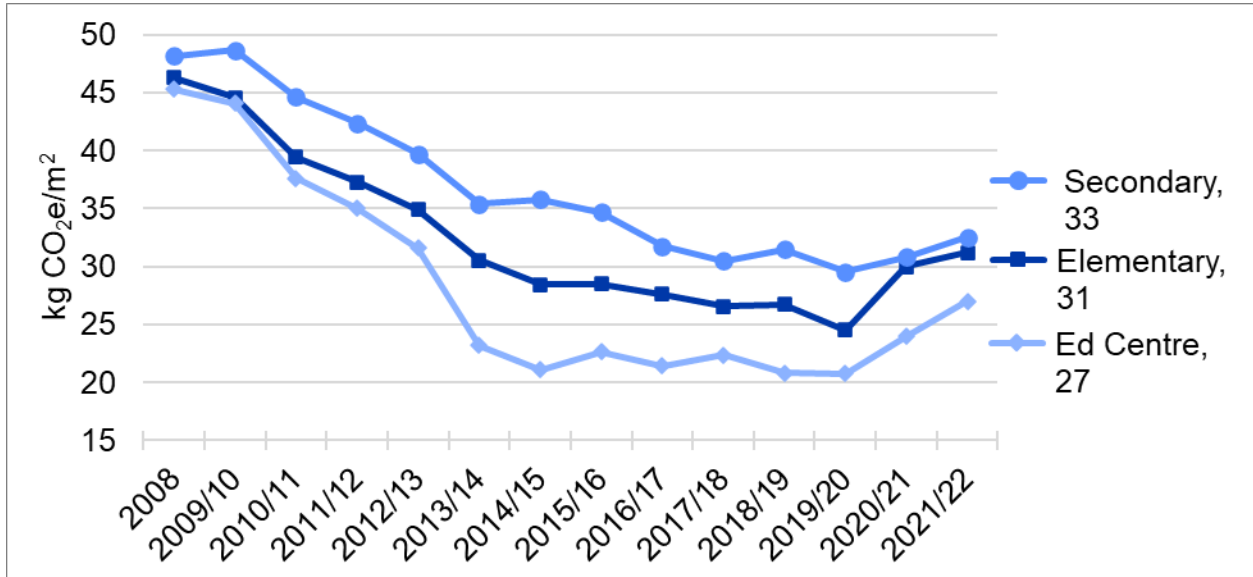


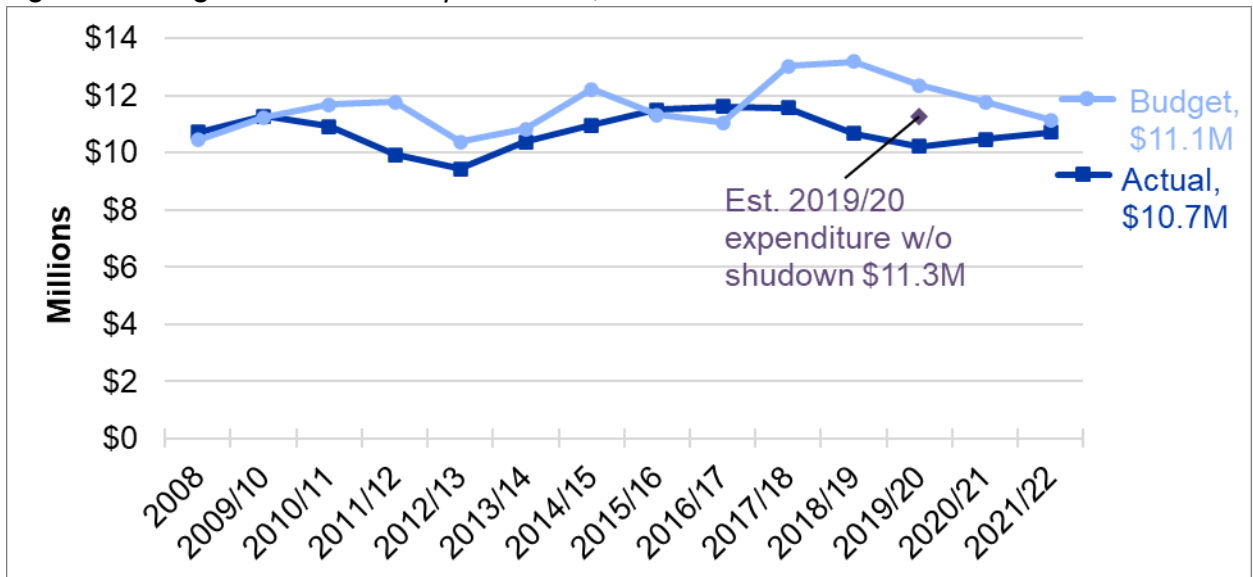
Figure 4: Average GHG Emission Intensity by Panel, 2008 to Fiscal Year 2021/22



Energy Budget and Expenditure

A fourteen-year history of the Board budgets and expenditures for electricity and natural gas is presented in Figure 5 and Appendix E. The Board's natural gas and electricity budget for 2021/22 was \$11.1M and expenditures were \$10.7M.

Figure 5: Budget and Actual Expenditures, Fiscal Years 2008/09 to 2021/22



Budget and actual expenses cannot be compared directly year over year as a metric for operational efficiencies, as there are too many variables beyond the control of Facility Services, and the Board as a whole. Consumption and prices are the two drivers of energy expenditures. While consumption can be influenced in the long term with energy conservation strategies, there are several factors beyond the Board's control:

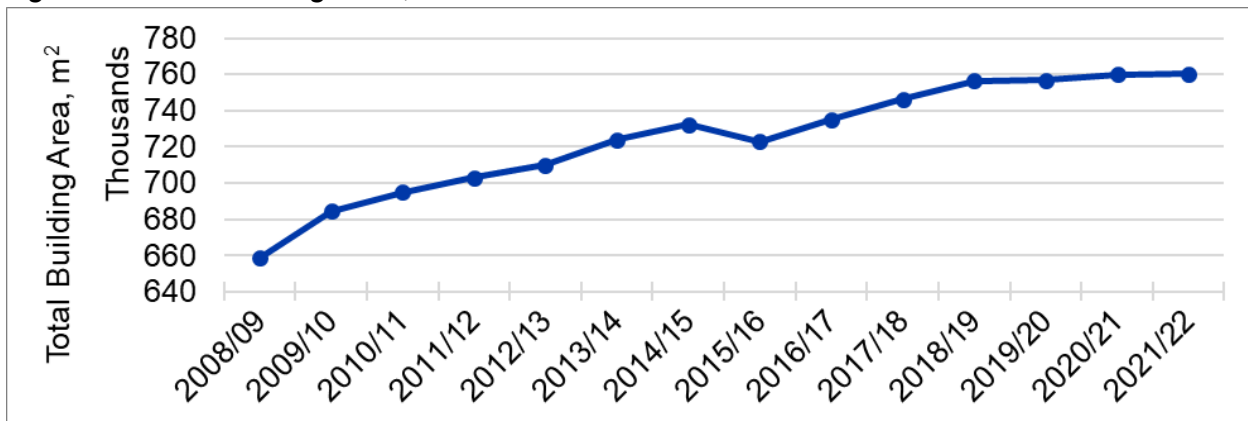
- Weather (i.e. warmer summer and shoulder season drives cooling demand)
- Hours of operation (i.e. extended use initiatives such as Community Use)
- School closures (i.e. disposal of surplus sites, port-a-packs, and portables)

- Expansion of facilities and square footage (i.e. new schools or school additions)
- User behaviour (influenced through conservation strategy but not controlled)

Energy prices are also outside the Board's control and fluctuate from year to year. The best prediction of all relevant variables is made when the budget is created but forecasting weather a year and more away does not allow for a great degree of precision.

It is a significant achievement that the utility budget has only increased 7 percent since 2008/09, and expenditures have remained flat. Since 2008/09, the total building area operated by the WRDSB has increased 15 percent (Figure 6), and the combined energy price the Board pays has increased 3 percent (Figure 7). Operating hours have also increased significantly due to increased community use of schools. **Efficiency gains continue to be the primary reason for flat energy expenditures since 2008/09.**

Figure 6: Total Building Area, Fiscal Years 2008/09 to 2021/22



In 2021/22, **natural gas cost 3.28 cents per ekWh** and **electricity cost 14.2 cents per kWh** with a combined cost of 6.43 cents per ekWh. The full history of energy costs is given in Figure 7. Natural gas costs have begun to increase as the price of the commodity has gone up, and the Federal carbon tax program is phased-in. Electricity prices continue to fall as the Ontario Government shifts costs from the Global Adjustment to the tax base.

Consumption by commodity drives expenditures. **Natural gas continues to be at a comparatively low cost to electricity**, although the carbon tax is narrowing this gap. A greater reliance on natural gas as a resource for heating continues to be **beneficial for our operational budget but generates greater GHG emissions** than utilizing electricity as a source of heat. The composition of energy consumption and expenditures for each commodity in 2021/22 is presented in Figure 8.

The reduction in EUI since 2008 has resulted in significant financial savings. **Utility costs have been offset by \$2.3M in Fiscal Year 2021/22**, compared to the operational conditions in 2008. See Figure 9 for details. This figure compares the 2021/22 expenditures to the scenario where the Board operated the 2021/22 building portfolio with the EUI the Board operated at in 2008. This is an annual offset in utility costs that fluctuates based on actual consumption and market prices of energy. **Cumulatively, over the last decade, the reduction in EUI has offset utility costs by \$19.9M.**

Figure 7: Natural Gas, Electricity and Combined costs per kWh, 2008 to 2021/22

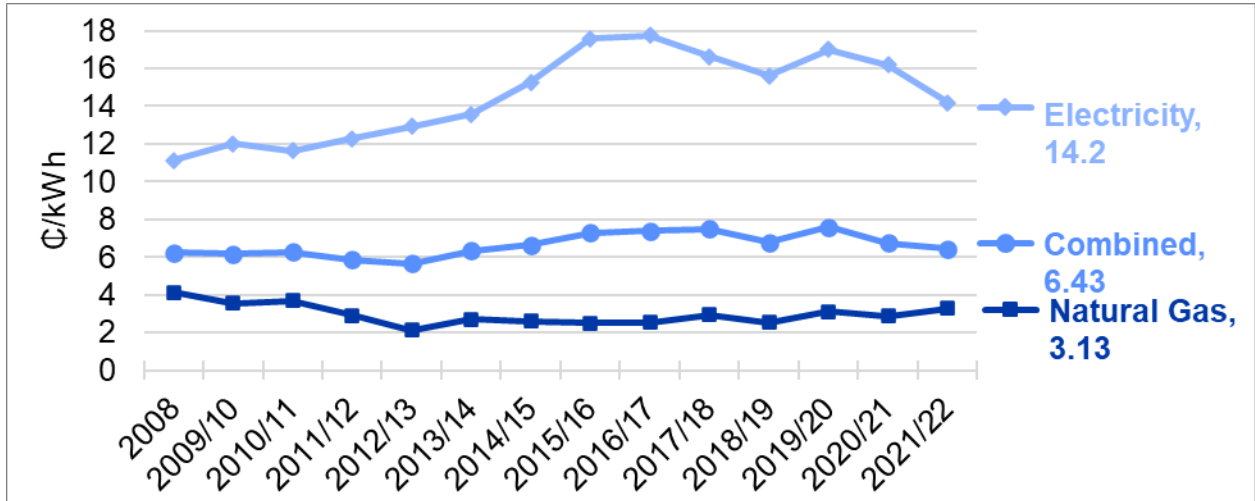


Figure 8: Energy Consumption (ekWh) and Expenditures by Commodity, 2021/22

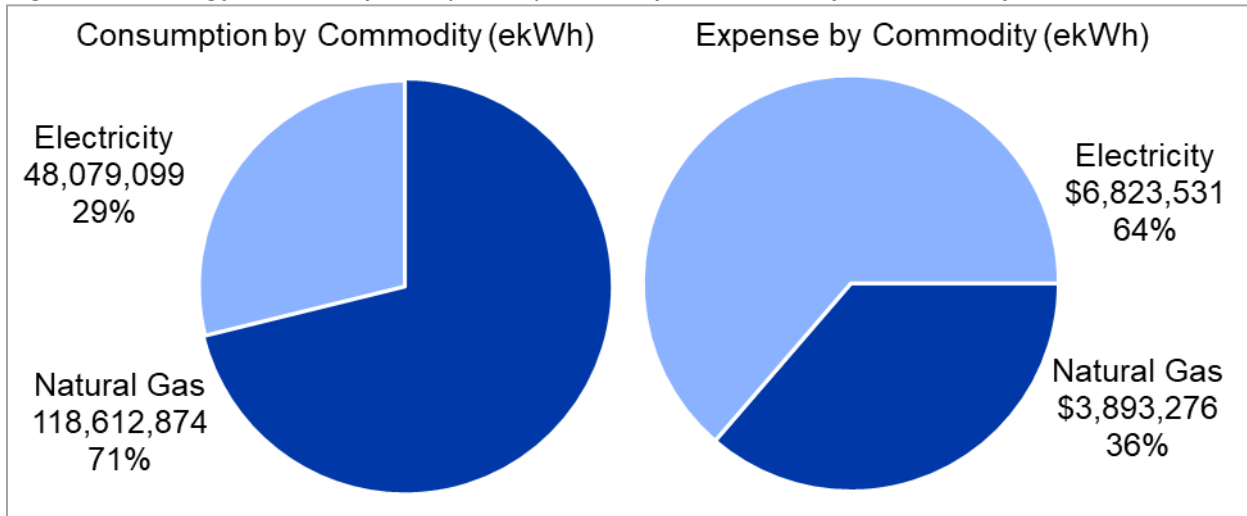
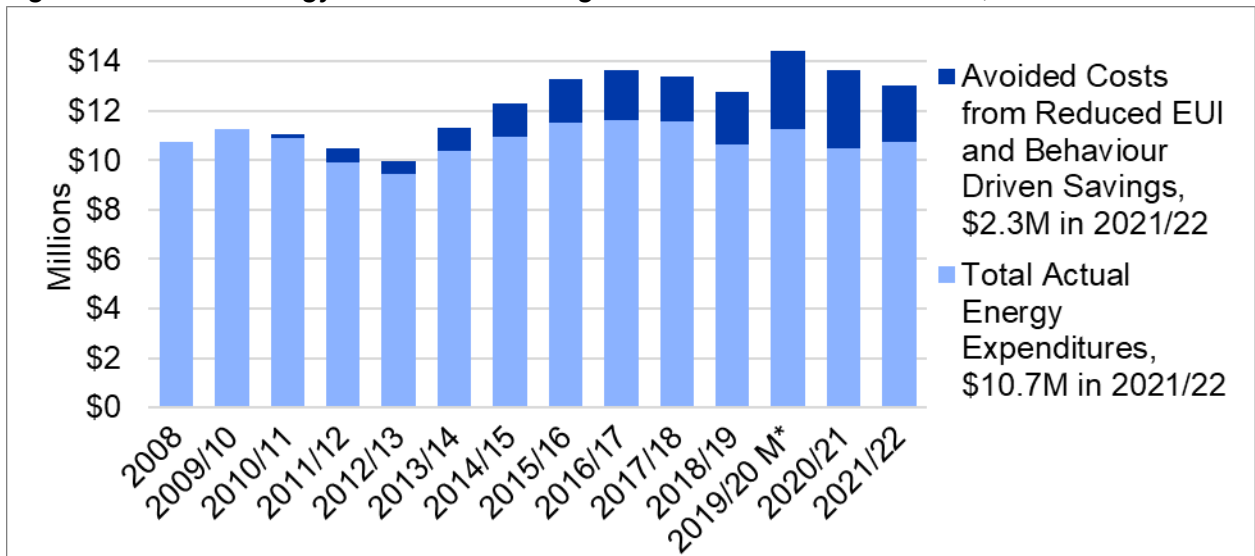


Figure 9: Actual Energy Costs and Savings Relative to 2008 Baseline, 2008 to 2021/22



The Energy Conservation Program

This report has detailed the significant success the energy conservation program has had in the last twelve years. This program consists of the following efforts:

- Careful collection and monitoring of utility consumption data through an online dashboard and weather-normalized annual database
- Upgrading to Light Emitting Diodes (LED) lights controlled by occupancy sensors
- Building Automation Systems with free cooling, schedules and night setbacks
- Demand controlled ventilation using CO₂ sensors (pre-COVID)
- Memos to staff on use of vestibules and water conservation
- The Sustainability Working Group, where staff collaborate and share knowledge
- Implementation of a preventative maintenance program
- Requiring new schools to be 25 percent more efficient than required by code
- Architectural design briefs for roofs, windows, and vestibules
- Recommissioning of boilers and HVAC equipment
- Use of efficient equipment like condensing boilers/water heaters, compressors
- Alternative methods of cooling classrooms such as destratification fans
- Pilot studies such as new multizone units, energy audits, gas-fired heat pump systems, surfactants in boiler loops, load-shedding cooling controls for secondary schools, point-of-use utility meters, and building envelope thermography,

WRDSB staff also make good use of existing incentive programs. **Since 2009, the Board has received more than \$817k in incentives from the local utilities.** These incentives continue to be reinvested each year into the energy conservation program. Appendix F details how these incentives were used in 2021/22. The Board also operates five photovoltaic solar panel arrays, funded by the Ministry in 2010/11. These projects have generated more than \$504,880 in revenue, as detailed in Appendix F.

Commitments

WRDSB is required to submit an Energy Conservation and Demand Management (ECDM) plan every 5 years by the Electricity Act. The WRDSB submitted the required ECDM plan for the five years following 2017/2018 in 2020. In this plan, the WRDSB accessed plans for capital and operational funds and set a target of an 11.8 percent decrease in Energy Use Intensity from 2017/18 levels by 2022/23. Due to the COVID-19 pandemic and other factors, the WRDSB is not on track to meet this target.

The Electricity Act requires the WRDSB to approve and submit a new ECMD Plan by July 2024. This new ECDM plan will report on energy consumption in the years 2018/19 through 2022/23, and report on the plan for energy conservation for the years 2023/24 through 2027/28. As part of the updated ECDM plan, staff will be considering options to further improve our energy conservation.

Financial Implications

While the utility budget represents less than two percent of the overall Board budget, the active management of the utility portfolio is required to mitigate risk exposure as cost overruns or savings can have a significant impact on the operating budget. There is

no way to reduce energy expenditure in the middle of a budget year. Long-term planning and action is the only way to reduce the financial risk of rising energy prices.

Electricity prices are expected to rise as nuclear power plants are taken offline and that capacity is replaced by expensive natural gas generation during the mid to late 2020s. Natural gas prices are expected to rise especially rapidly as both the carbon tax and commodity costs increase. Commodity increases are due to increasing exports from the United States to Asia and Europe which increases local demand.

The rate of energy price increase is likely to exceed the ability of the current energy conservation program to mitigate the need for budget increases on a year-to-year basis. Without a continued focus on energy conservation and new investments in energy-efficient technologies, volatility in the board's utility budget could represent a greater financial and operational risk by 2028/29.

Communications

The Electricity Act requires that this Energy Update be presented to the Board on an annual basis, and be made available to the public. In addition, the Energy Conservation and Demand Management Plan and the Energy Consumption and Greenhouse Gas Emission annual reports are available in hard copy at the Education Centre or online for public access:

- [*Energy Conservation and Demand Management Plan*](#)
- [*Energy Conservation at the Waterloo Region District School Board*](#)

This report will be shared with the Sustainability Working Group, the Elementary Accommodation Committee (EAC), and Secondary Accommodation Committee (SAC) in an effort to build momentum for energy conservation in the schools.

Prepared by: Caleb Gingrich Regehr, Supervisor of Energy Conservation,
Lou Lima, Manager of Mechanical, Electrical and Environmental Services,
Ron Dallan, Manager of Capital Projects, and
Nick Landry, Superintendent Business Services and Treasurer
Graham Shantz, Associate Director,
in consultation with Leadership Council.

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL ENERGY USE INTENSITY (ekWh/m²) - ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Abraham Erb P.S.	189	146	150	134	187	178
Alpine P.S.	287	286	252	255	291	280
Avenue Road P.S.	242	173	180	173	215	241
Ayr P.S.	238	212	217	202	228	241
Baden P.S.	232	160	160	147	181	202
Blair O.E.C.	Un.	220	229	200	203	159
Blair Road P.S.	422	190	196	182	262	264
Blue Heron P.S.	260	200	173	140	205	200
Breslau P.S.	336	219	213	178	249	227
Bridgeport P.S.	246	172	176	159	197	212
Brigadoon P.S.	199	168	168	151	179	183
Cedar Creek P.S.	211	185	187	172	192	187
Cedarbrae P.S.	289	225	258	228	297	244
Centennial (Camb) P.S.	269	226	230	215	268	260
Centennial (Wloo) P.S.	389	238	232	235	204	196
Central P.S.	269	214	223	207	265	253
Chalmers Street P.S.	265	206	211	191	218	202
Chicopee Hills P.S.	N.O.	151	125	115	154	164
Clemens Mill P.S.	223	219	212	174	184	204
Conestogo P.S.	261	212	220	189	300	212
Coronation P.S.	440	343	349	336	288	315
Country Hills P.S.	190	170	175	163	196	182
Courtland Senior P.S.	246	203	210	170	227	255
Crestview P.S.	242	288	266	210	245	232
Dickson P.S.	184	Dis.	Dis.	Dis.	Dis.	Dis.
Doon P.S.	279	196	189	165	221	219
Driftwood Park P.S.	232	159	163	127	161	186
Edna Staebler P.S.	N.O.	142	145	131	179	189
Elgin Street P.S.	196	220	225	204	226	212
Elizabeth Ziegler P.S.	272	180	187	171	188	194
Empire P.S.	238	207	210	198	248	251
Floradale P.S.	209	177	189	174	225	253
Forest Glen P.S.	281	205	210	197	242	249
Forest Hill P.S.	316	227	217	219	197	214
Franklin P.S.	236	241	216	200	277	303
Glencairn P.S.	156	185	162	176	174	169
GrandView (Camb) P.S.	230	156	163	137	189	193
Grandview (NH) P.S.	197	189	204	192	244	248
Groh P.S.	N.O.	125	136	109	137	163
Hespeler P.S.	206	165	166	156	146	419

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL ENERGY USE INTENSITY (ekWh/m²) - ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Highland P.S.	326	203	210	189	263	240
Hillcrest P.S.	232	158	169	161	230	213
Hillside P.S.	212	185	199	158	163	265
Howard Robertson P.S.	407	285	282	267	313	294
J F Carmichael P.S.	217	163	176	168	236	258
J.W. Gerth P.S.	N.O.	144	139	118	173	181
Janet Metcalf P.S.	N.O.	N.O.	151	115	132	149
Jean Steckle P.S.	N.O.	127	125	102	140	151
John Darling P.S.	179	178	180	156	211	218
John Mahood P.S.	323	178	192	164	199	196
Keatsway P.S.	250	147	147	130	161	159
King Edward P.S.	594	236	211	203	220	258
Lackner Woods P.S.	192	223	212	179	219	200
Laurelwood P.S.	223	177	181	169	196	184
Laurentian P.S.	293	242	224	192	248	225
Lester B. Pearson P.S.	217	142	146	129	210	216
Lexington P.S.	307	230	231	217	236	251
Lincoln Avenue P.S.	289	Dis.	Dis.	Dis.	Dis.	Dis.
Lincoln Heights P.S.	298	213	211	206	233	234
Linwood P.S.	356	210	206	193	219	233
MacGregor Sr P.S.	201	204	222	225	219	216
MacKenzie King P.S.	294	214	208	198	225	242
Manchester P.S.	281	138	163	151	175	184
Margaret Avenue P.S.	229	238	235	232	265	283
Mary Johnston P.S.	174	155	158	145	181	197
McQuarrie Centre	539	261	250	278	227	212
Meadowlane P.S.	225	251	226	196	233	213
Millen Woods P.S.	N.O.	156	156	139	206	222
Moffat Creek P.S.	N.O.	128	99	105	101	162
N A MacEachern P.S.	326	197	151	212	293	299
New Dawn	412	146	347	348	271	301
New Dundee P.S.	188	198	195	184	208	206
Northlake Woods P.S.	311	194	209	180	182	194
Park Manor P.S.	341	353	355	234	210	232
Parkway P.S.	289	233	223	217	278	303
Pioneer Park P.S.	236	225	198	194	234	204
Preston P.S.	180	168	168	155	199	207
Prueter P.S.	169	212	204	217	249	374
Queen Elizabeth P.S.	220	241	232	221	206	221
Queensmount Sr P.S.	400	304	255	150	155	172

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL ENERGY USE INTENSITY (ekWh/m²) - ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Riverside P.S.	N.O.	136	136	116	149	162
Riverside (old location)	171	91	94	91	86	88
Rockway P.S.	265	285	299	217	242	236
Rosemount P.S.	245	292	Dis.	Dis.	Dis.	Dis.
Saginaw P.S.	250	218	207	185	272	260
Sandhills P.S.	238	194	189	172	253	242
Sandowne P.S.	285	181	175	170	185	208
Sheppard P.S.	224	252	230	200	236	255
Silverheights P.S.	229	143	148	132	177	181
Sir Adam Beck P.S.	N.O.	132	132	121	152	168
Smithson P.S.	216	234	222	221	251	213
Southridge P.S.	284	292	288	242	315	258
St Andrew's P.S.	247	164	158	154	178	176
St Jacobs P.S.	236	223	223	239	281	253
Stanley Park P.S.	299	251	282	243	280	245
Stewart Avenue P.S.	270	169	170	152	194	189
Suddaby P.S.	149	150	151	135	169	178
Sunnyside P.S.	226	186	202	174	184	230
Tait Street P.S.	227	177	180	169	210	207
Three Bridges P.S.	193	Dis.	Dis.	Dis.	Dis.	Dis.
Trillium P.S.	262	227	250	231	212	229
Vista Hills P.S.	N.O.	131	129	128	126	191
W.T. Townshend P.S.	158	133	134	119	165	181
Wellesley P.S.	243	205	196	177	193	210
Westheights P.S.	309	233	210	181	233	238
Westmount P.S.	244	137	128	99	162	181
Westvale P.S.	151	132	151	127	168	183
William G. Davis P.S.	308	261	217	237	215	Un.
Williamsburg P.S.	159	145	149	133	167	204
Wilson Avenue P.S.	225	181	195	183	205	199
Winston Churchill P.S.	217	194	196	177	196	212
Woodland Park P.S.	177	127	139	130	156	162
Wrigley's Corners O.E.C.	Un.	228	255	201	190	189
Average Energy Use Intensity (ekWh/m²)	258	198	197	179	211	218

N.O. - Not Open Un. - Unavailable Dis. - Disposed

^ Markes break between 2008 and 2017/18

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL ENERGY USE INTENSITY (ekWh/m²) - SECONDARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Bluevale C.I.	274	230	228	242	235	234
Cameron Heights C.I.	385	313	305	259	189	233
Eastwood C.I.	211	205	239	191	219	268
Elmira District S.S.	278	220	239	219	234	233
Forest Heights C.I.	325	296	295	239	247	275
Galt C.I.	254	241	254	241	220	212
Glenview Park S.S.	275	201	202	190	193	196
Grand River C.I.	244	220	227	225	201	210
Huron Heights S.S.	252	226	222	210	212	205
Jacob Hespeler S.S.	219	184	196	184	224	191
Kitchener-Waterloo C.&V.S.	291	223	229	196	198	230
Laurel Heights S.S.	246	206	192	182	222	239
Preston H.S.	260	254	239	235	228	219
Southwood S.S.	275	157	160	156	154	171
Waterloo C.I.	265	240	239	194	214	245
Waterloo-Oxford District S.S.	243	248	260	255	284	268
Average Energy Use Intensity (ekWh/m²)	269	229	233	214	217	227
Education Centre (ekWh/m²)	258	242	224	210	224	238

^VMarkes break between 2008 and 2017/18

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION - FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL GREENHOUSE GAS EMISSION INTENSITY (kgCO₂e/m²)

ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Abraham Erb P.S.	34	18	18	18	27	24
Alpine P.S.	51	40	34	38	42	40
Avenue Road P.S.	44	23	24	25	31	35
Ayr P.S.	43	29	29	29	34	36
Baden P.S.	41	17	18	19	23	27
Blair O.E.C.	Un.	31	33	30	31	26
Blair Road P.S.	75	20	20	20	31	33
Blue Heron P.S.	47	22	21	19	28	27
Breslau P.S.	61	29	28	25	37	33
Bridgeport P.S.	44	22	23	22	27	31
Brigadoon P.S.	35	15	15	15	19	20
Cedar Creek P.S.	38	19	24	23	27	26
Cedarbrae P.S.	52	32	38	34	46	37
Centennial (Camb) P.S.	48	32	32	32	41	40
Centennial (Wloo) P.S.	70	31	31	34	29	28
Central P.S.	49	32	33	32	42	39
Chalmers Street P.S.	48	25	25	25	30	27
Chicopee Hills P.S.	N.O.	20	15	14	21	22
Clemens Mill P.S.	40	24	23	20	20	24
Conestogo P.S.	47	28	31	27	47	31
Coronation P.S.	80	53	53	54	46	50
Country Hills P.S.	33	18	20	21	25	23
Courtland Senior P.S.	44	30	32	26	36	41
Crestview P.S.	44	45	41	33	38	36
Dickson P.S.	33	Dis.	Dis.	Dis.	Dis.	Dis.
Doon P.S.	50	27	26	23	32	32
Driftwood Park P.S.	41	15	16	13	17	21
Edna Staebler P.S.	N.O.	16	18	18	26	27
Elgin Street P.S.	35	28	28	27	30	29
Elizabeth Ziegler P.S.	49	26	27	26	28	29
Empire P.S.	43	26	27	27	36	35
Floradale P.S.	37	20	22	22	29	34
Forest Glen P.S.	50	25	26	27	34	35
Forest Hill P.S.	57	33	32	34	30	33
Franklin P.S.	42	34	29	30	42	48
Glencairn P.S.	28	25	21	25	25	23
GrandView (Camb) P.S.	41	16	18	16	24	23
Grandview (NH) P.S.	36	26	28	28	36	37
Groh P.S.	N.O.	16	16	13	17	20
Hespeler P.S.	36	17	17	18	16	65

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION - FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL GREENHOUSE GAS EMISSION INTENSITY (kgCO₂e/m²)

ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Highland P.S.	59	29	29	26	41	35
Hillcrest P.S.	41	21	23	23	35	31
Hillside P.S.	38	22	24	20	21	39
Howard Robertson P.S.	74	43	42	41	48	45
J F Carmichael P.S.	39	22	25	25	37	41
J.W. Gerth P.S.	N.O.	17	16	15	24	25
Janet Metcalf P.S.	N.O.	N.O.	19	15	17	20
Jean Steckle P.S.	N.O.	10	11	11	18	19
John Darling P.S.	32	25	25	22	33	33
John Mahood P.S.	58	20	22	21	27	26
Keatsway P.S.	45	16	16	16	20	19
King Edward P.S.	108	37	32	32	34	40
Lackner Woods P.S.	34	26	23	21	27	22
Laurelwood P.S.	39	19	20	21	24	22
Laurentian P.S.	53	37	34	30	40	36
Lester B. Pearson P.S.	38	15	16	16	29	30
Lexington P.S.	55	33	33	33	35	37
Lincoln Avenue P.S.	52	Dis.	Dis.	Dis.	Dis.	Dis.
Lincoln Heights P.S.	54	31	30	32	37	37
Linwood P.S.	64	29	29	29	33	35
MacGregor Sr P.S.	36	28	31	33	31	30
MacKenzie King P.S.	53	30	29	30	33	36
Manchester P.S.	51	17	21	21	25	26
Margaret Avenue P.S.	41	35	34	35	41	44
Mary Johnston P.S.	31	20	20	21	26	29
McQuarrie Centre	98	44	42	47	38	36
Meadowlane P.S.	40	28	24	20	27	24
Millen Woods P.S.	N.O.	17	17	17	27	30
Moffat Creek P.S.	N.O.	14	9	12	11	22
N A MacEachern P.S.	58	23	9	25	38	40
New Dawn	75	22	57	56	43	49
New Dundee P.S.	34	29	30	29	33	33
Northlake Woods P.S.	56	23	27	24	24	25
Park Manor P.S.	61	53	53	34	29	34
Parkway P.S.	52	29	25	28	37	42
Pioneer Park P.S.	42	30	26	27	34	28
Preston P.S.	32	21	21	21	28	29
Prueter P.S.	30	31	30	34	40	62
Queen Elizabeth P.S.	40	37	36	34	32	33
Queensmount Sr P.S.	72	44	37	21	22	25

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION - FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL GREENHOUSE GAS EMISSION INTENSITY (kgCO₂e/m²)

ELEMENTARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Riverside P.S.	30	17	14	15	20	23
Riverside (old location)	N.O.	14	17	13	12	14
Rockway P.S.	48	45	48	35	39	37
Rosemount P.S.	44	48	Dis.	Dis.	Dis.	Dis.
Saginaw P.S.	44	26	25	24	38	35
Sandhills P.S.	42	24	22	22	37	35
Sandowne P.S.	51	22	21	23	25	29
Sheppard P.S.	40	37	34	30	37	40
Silverheights P.S.	41	14	14	15	22	23
Sir Adam Beck P.S.	N.O.	14	15	15	19	23
Smithson P.S.	39	37	34	35	39	33
Southridge P.S.	51	43	45	39	51	40
St Andrew's P.S.	44	22	22	23	27	27
St Jacobs P.S.	43	32	32	36	44	38
Stanley Park P.S.	54	37	42	37	45	38
Stewart Avenue P.S.	48	21	21	21	27	26
Suddaby P.S.	27	23	23	22	27	28
Sunnyside P.S.	41	27	30	27	28	36
Tait Street P.S.	41	23	23	24	31	31
Three Bridges P.S.	35	Dis.	Dis.	Dis.	Dis.	Dis.
Trillium P.S.	47	26	30	30	27	28
Vista Hills P.S.	N.O.	16	14	15	14	25
W.T. Townshend P.S.	28	15	16	16	23	25
Wellesley P.S.	44	29	28	27	29	32
Westheights P.S.	55	25	20	19	28	29
Westmount P.S.	43	15	14	11	21	23
Westvale P.S.	27	11	13	13	18	20
William G. Davis P.S.	56	40	33	38	34	Un.
Williamsburg P.S.	28	17	17	16	22	28
Wilson Avenue P.S.	40	22	25	25	28	28
Winston Churchill P.S.	39	23	24	23	26	28
Woodland Park P.S.	31	13	16	16	20	21
Wrigley's Corners O.E.C.	Un.	40	48	36	36	36
Average GHG Emission Intensity (kg CO₂e/m²)	46	26	26	25	30	30

N.O. - Not Open Un. - Unavailable Dis. - Disposed

^ Markes break between 2008 and 2017/18

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

ENERGY UPDATE

ANNUAL GREENHOUSE GAS EMISSION INTENSITY (kg CO₂e/m²)

SECONDARY SCHOOLS

School	08	17/18	18/19	19/20	20/21	21/22
Bluevale C.I.	49	30	30	34	32	32
Cameron Heights C.I.	69	39	38	35	24	34
Eastwood C.I.	38	24	30	26	30	37
Elmira District S.S.	50	30	33	32	34	33
Forest Heights C.I.	59	44	43	35	37	42
Galt C.I.	46	32	35	36	33	31
Glenview Park S.S.	50	28	28	28	29	30
Grand River C.I.	44	29	30	33	29	30
Huron Heights S.S.	45	24	24	26	26	25
Jacob Hespeler S.S.	39	21	22	23	30	25
Kitchener-Waterloo C.&V.S.	52	31	32	28	29	34
Laurel Heights S.S.	44	21	20	22	29	31
Preston H.S.	47	37	35	36	35	33
Southwood S.S.	49	20	21	22	22	25
Waterloo C.I.	48	34	33	28	31	36
Waterloo-Oxford District S.S.	44	36	37	38	44	41
Average GHG Emission Intensity (kg CO₂e/m²)	48	30	31	30	31	33

Education Centre (kg CO₂e/m²)	45	21	20	22	24	27
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^VMarkes break between 2008 and 2017/18

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**ENERGY UPDATE
ENERGY BUDGET AND EXPENDITURES**

Commodity	2008/09	
	Budget	Actual
Electricity	\$ 4,616,900	\$ 5,755,988
Natural Gas	\$ 5,832,400	\$ 4,966,345
Total	\$ 10,449,300	\$ 10,722,333

Commodity	2017/18		2018/19	
	Budget	Actual	Budget	Actual
Electricity	\$ 10,303,000	\$ 8,510,009	\$ 10,182,000	\$ 7,956,894
Natural Gas	\$ 2,714,000	\$ 3,044,841	\$ 2,997,500	\$ 2,698,385
Total	\$ 13,017,000	\$ 11,554,850	\$ 13,179,500	\$ 10,655,278

Commodity	2019/20		2020/21	
	Budget	Actual	Budget	Actual
Electricity	\$ 9,380,000	\$ 7,364,388	\$ 8,854,500	\$ 7,325,544
Natural Gas	\$ 2,971,500	\$ 2,846,183	\$ 2,911,500	\$ 3,148,469
Total	\$ 12,351,500	\$ 10,210,571	\$ 11,766,000	\$ 10,474,013

Commodity	2021/22	
	Budget	Actual
Electricity	\$ 7,788,400	\$ 6,823,531
Natural Gas	\$ 3,344,500	\$ 3,893,276
Total	\$ 11,132,900	\$ 10,716,807

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**ENERGY UPDATE
ENERGY CONSERVATION ADDITIONAL REVENUE STREAMS**

PHOTOVOLTAIC GENERATION AND REVENUES (LIFETIME)*

	kWh Production	Revenue	
Blair Road P.S.	118,950	\$ 95,398	
Forest Glen P.S.	133,445	\$ 107,023	
Forest Heights C.I.	115,456	\$ 92,596	
Lincoln Heights P.S.	120,120	\$ 96,336	
Waterloo C.I.	141,555	\$ 113,527	
Total	629,526	\$ 504,880	

* Reports energy produced between November 2011 and August 2022.

Links to websites are as follows:

Blair Road P.S.	http://www.cachelan.com/green/solarVuLive.php?ac=blairrdps&dr=dakon
Forest Glen P.S.	http://www.cachelan.com/green/solarVu.php?ac=forestglenps
Forest Heights C.I.	http://www.foresthtsc.solarvu.net/green/solarVu.php?ac=foresthtsc
Lincoln Heights P.S.	http://lincolnhgtsp.solarvu.net/green/solarVuLive.php?ac=lincolnhgtsp
Waterloo C.I.	http://www.waterlooci.solarvu.net/green/solarVu.php?ac=waterlooci

2021/22 Utility Rebates Reinvestments (\$51,000)

BCI, Clemens Mills, GRCI, and 8 others	Electrical sub-metering for chillers
Blue Heron and Cedar Creek	Recommissioning of building controls
Margaret Ave, Breslau	Water conservation inspection
EDSS, Franklin, and 4 others	Water monitoring equipment
Alpine, Parkway, HHSS	LED interior lighting in portables
Blair OED	Energy saving boiler loop additive trial

2021/22 Capital Funded Energy Efficiency Upgrades (\$200,000)

Brigadoon, ECI, EDSS and 30 others	LED interior lighting in 110 portables
Courtland Ave, GCI, and 5 others	LED exterior lighting upgrade
Stewart Ave, Chalmers St, Hespeler PS	LED lighting upgrades
CHCI	Upgrade to low flush Water closets

Technical Background and Methodology

The unit equivalent kilowatt-hours (ekWh) allows electricity, normally measured in kWh, and natural gas and propane, normally measured in cubic meters and liters, respectively, to be added together. Natural gas and propane use are highly weather dependent as it is mostly used for space heating, so heating degree days are used to weather normalize the figures, removing the impact of weather which allows for a fair comparison between years. Electricity is not weather normalized, as the majority of its use is not weather dependent. The total energy consumption is divided by the total floor area of the board's asset portfolio so that the effect of additional building area from new schools and school additions is removed from the comparison. This results in the metric Energy Use Intensity, measured in ekWh per square meter. These figures include portables and port-a-packs. Leased facilities such as 151 Weber are excluded.

Unlike 2019/20, data for 2020/21 was not adjusted for the impact of COVID-19 due to the complexity of these impacts in 2020/21. In 2020/21, ventilation measures (increased outdoor air, improved filters, HEPA units, etc.) increased energy consumption from pre-COVID behaviour, while school shutdowns in the second half of the year decreased it. The ventilation measures are estimated to have increased natural gas usage by 13 percent. The school closures reduced energy use over these periods by approximately 10 percent. As COVID-19 and the ventilation adaptations are likely to continue to impact energy data, and there are long-term ways WRDSB can mitigate the energy impact of these adaptations, this report will no longer adjust the data for these impacts.

GHG emissions are calculated using the emission factors reported in Environment Canada's National Inventory Report to the UN Framework Convention on Climate Change. Emissions are reported in units of kilograms of carbon dioxide equivalent (kg CO₂e).



Report to Committee of the Whole

June 7, 2023

Subject: 2023-2024 Pupil Accommodation Grant – School Renewal Allocation

Recommendation

That the Waterloo Region District School Board approve the 2023-2024 Pupil Accommodation Grant expenditures for the year September 1, 2023 to August 31, 2024, not to exceed the level of grant received from the Ministry of Education for School Renewal Allocation, as established in the budget of the report entitled, 2023-2024 Pupil Accommodation Grant – School Renewal Allocation, dated June 7, 2023.

Status

The funds available are divided between major maintenance items and program needs.

Business Services establishes the spending priorities for major maintenance programs through condition assessments performed by Facility Services staff and/or outside consultants. These items are placed in the long-range capital forecast and are scheduled as funding permits.

Renovations for program purposes that have been requested by school Principals are prioritized through consultation with the Elementary Accommodation Committee (EAC) and the Secondary Accommodation Committee (SAC). Both Committees meet approximately six times per year to discuss the needs identified and prioritize projects within the system. The memberships of the Committees are listed in Appendix A. School Renewal funds related to program improvements are allocated based on priorities recommended by these Committees and are further prioritized at the Accommodation Steering Committee (ASC), see Appendix A (i).

Major maintenance and program improvements proposed in this budget have been prioritized with the intent to bring older schools up to current standards. Many prioritized projects for both major maintenance and program improvements cannot be funded from the amount available in the anticipated allocation.

Appendix B presents the proposed budget by category for school renewal. Appendix C illustrates the projects prioritized by Facility Services staff for the 2023-2024 School Renewal Allocation and Appendix D illustrates a summary of 2022-2023 projects.

Background

As per Ministry of Education Memorandum 2023:B07 memorandum dated April 17, 2023, the Ministry is continuing its investment with \$375M in funding allocated across 72 school boards towards the School Renewal Allocation Grant.

The School Renewal Allocation is provided by the Ministry of Education to address the cost of repairing and renovating schools and infrastructure. This funding has typically allowed major maintenance programs such as roof replacements, mechanical upgrades and school

renovations to be completed. Renovations have included program improvements such as those made to science, libraries, special education, athletic facility upgrades and administrative areas as prioritized through Elementary and Secondary Accommodation Committees.

Financial implications

As per Ministry of Education Memorandum 2023:B07 dated April 17, 2023, the Ministry's allocation to the Waterloo Region District School Board towards the School Renewal Grant for the 2023-2024 fiscal year is projected to be \$10,428,611.

Money received in this allocation must be spent on renewal projects.

Communications

Once the Waterloo Region District School Board approves the Pupil Accommodation Grant, resources will be assigned, and school Principals will be advised of upcoming activities to detail the scope of projects and coordinate proposed projects.

Prepared by: Graham Shantz, Associate Director, Business Services
Nick Landry, Superintendent Business Services and Treasurer of the Board
Ron Dallan, Manager of Capital Projects
in consultation with Coordinating Council

APPENDIX A

WATERLOO REGION DISTRICT SCHOOL BOARD BUSINESS SERVICES DIVISION FACILITY SERVICES DEPARTMENT

PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION 2022-2023 ACCOMMODATION COMMITTEES COMMITTEE MEMBERSHIP

ELEMENTARY ACCOMMODATION COMMITTEE

<i>Jason Stere, Chair</i>	Principal, Silverheights P.S.
TBD	Controller, Facility Services
Joe Bell	System Administrator, Learning Services
Ron Dallan	Manager of Capital Projects
Lauren Agar	Manager of Planning
Andrea Michelutti	Family of Schools #5 - Principal, Jean Steckle P.S.
Afrim Ficic	Family of Schools #8 - Principal, A.R. Kaufman P.S.
Rebecca Rouse	Elementary Consultant, ITS/JK-8
Mark Kovrig	Facility Manager - Facility Services Area 1
Alex Ramirez	Facility Manager - Facility Services Area 2
Mike Colvin	Facility Manager - Facility Services Area 3
Amber Martz	Facility Manager - Facility Services Area 4
Sarah Galliher	Senior Planner
Emily Bumbaco (LOA)	Senior Planner
Brandon Coveney	Senior Planner

SECONDARY ACCOMMODATION COMMITTEE

<i>Dave Wilson, Chair</i>	Principal, Glenview Park S.S.
Joe Bell	System Administrator, Learning Services
TBD	Controller, Facility Services
Ron Dallan	Manager of Capital Projects
Lauren Agar	Manager of Planning
Paula Bender	Family of Schools #3 & #4 - Principal, Preston High S.S.
Deb Tyrrell	Family of Schools #5 & #6 - Principal, Bluevale C.I.
Ryan Hume	Family of Schools #2 & #8 - Principal, Eastwood C.I.
Craig McLeman	Family of Schools #3 - V-Principal, Glenview Park S.S.
Dave Williamson	Family of Schools #5 - V-Principal, Waterloo Oxford District S.S.
James Shantz	Family of Schools #7 - V-Principal, Forest Heights C.I.
Daniel Ballantyne	Family of Schools #2 - V-Principal, Grand River C.I.
Jane Mitchinson	Secondary Consultant, ITS
Mark Kovrig	Facility Manager - Facility Services Area 1

Alex Ramirez	Facility Manager - Facility Services Area 2
Mike Colvin	Facility Manager - Facility Services Area 3
Amber Martz	Facility Manager - Facility Services Area 4
Lou Lima	Manager, Mechanical/Electrical/Environmental Services
Sarah Galliher	Senior Planner
Emily Bumbaco (LOA)	Senior Planner
Brandon Coveney	Senior Planner

APPENDIX A(i)

WATERLOO REGION DISTRICT SCHOOL BOARD BUSINESS SERVICES DIVISION FACILITY SERVICES DEPARTMENT

PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION 2022-2023 ACCOMMODATION STEERING COMMITTEE COMMITTEE MEMBERSHIP

ACCOMMODATION STEERING COMMITTEE

<i>Lauren Agar, Chair</i>	Manager of Planning
Nick Landry	Superintendent, Business Services & Treasurer of the Board
Scott Miller	Superintendent, Student Achievement & Well-Being
Ivana Maclsaac	Senior Manager of ITS
TBD	Controller, Financial Services
Eusis Dougan-McKenzie	Chief Communication Officer
Ron Dallan	Manager of Capital Projects
Dave Wilson	Principal (Chair, SAC)
Jason Stere	Principal (Chair, EAC)
Sarah Galliher	Senior Planner
Emily Bumbaco (LOA)	Senior Planner
Brandon Coveney	Senior Planner

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION
BUDGET BY CATEGORY
SEPTEMBER 1, 2023 TO AUGUST 31, 2024**

<i>Program Needs Description</i>	<i>Budget</i>	<i>Major Maintenance Description</i>	<i>Budget</i>
Renovations/Alterations Secondary Program	\$ 1,500,000	Building Envelope (roof, doors, walls, windows)	\$ 700,000
Renovations/Alterations Elementary Program	\$ 1,500,000	Interior Finishes (ceilings, floors, paint, lockers, hardware)	\$ 1,000,000
Renovations/Alterations Special Education	\$ 275,000	Site Improvements (paving, concrete, masonry, grounds)	\$ 750,000
Sustainability	\$ 200,000	Mechanical, Electrical Upgrades	\$ 700,000
Exterior Grounds Enhancements to promote Outdoor Education and Community Use Schematic Design Briefs (Elem)	\$ 250,000	Energy Conservation	\$ 750,000

Health & Safety & Security	\$ 100,000	Building Code, Fire Code, OHSA Upgrades, Consulting Fees, Studies	\$ 128,611
Accessibility	\$ 2,000,000	Temporary Accomodation Repairs	\$ 75,000
		Environmental	\$ 500,000
Program Subtotal	<u>\$ 5,825,000</u>	Maintenance Subtotal	<u>\$ 4,603,611</u>
		Estimated Total	<u><u>\$ 10,428,611</u></u>
	56%		44%

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT
PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION
PROJECT PRIORITIES BY CATEGORY
SEPTEMBER 1, 2023 TO AUGUST 31, 2024**

A	Sustainability		Allocation:	\$	200,000
	REGION-WIDE	Projects contributing to Natural Environment and Infrastructure Preservation through Land and Habitat Stewardship, Water Conservation, Transportation			
B	Exterior Grounds Enhancements to promote Outdoor Education and Community Use		Allocation:	\$	250,000
	REGION-WIDE	Adding naturalized areas into schoolyards, different types of comfort features such as shade and seating, creative play and well-being, and providing more learning opportunities in schools' exterior grounds.			
C	Environmental		Allocation:	\$	500,000
	REGION-WIDE	Site assessment and data development for asbestos regulations, testing and abatement			
	REGION-WIDE	Environmental Projects			
D	Renovations/Alterations Secondary Program		Allocation:	\$	1,500,000
	REGION-WIDE	Renovations/alterations to secondary facilities for projects to improve school programs: priorities are established in consultation with the Secondary Accommodation Committee			
E	Renovations/Alterations Elementary Program		Allocation:	\$	1,500,000
	REGION-WIDE	Renovations/alterations to elementary facilities for projects to improve school programs: priorities are established in consultation with the Elementary Accommodation Committee			
F	Renovations/Alterations Special Education		Allocation:	\$	275,000
	REGION-WIDE	Renovations/alterations for Special Education programs brought forward throughout the school year identified by Special Education staff			
G	Building Code, Fire Code, OHSA, Consultant Fees, Studies		Allocation:	\$	128,611
	REGION-WIDE	Consulting fees for studies relating to building infrastructure, OH&SA compliance, Building code and Fire code compliance			
H	Energy Conservation		Allocation:	\$	750,000
	REGION-WIDE	Projects and Studies relating to Energy Conservation			

I	Temporary Accomodation Repairs	Allocation:	\$	75,000
	REGION-WIDE Repair and upgrades to single portable classrooms and Porta-Paks			
J	Interior Finishes	Allocation:	\$	1,000,000
	REGION-WIDE Ceiling replacements and repairs			
	REGION-WIDE Flooring replacements			
	REGION-WIDE Locker replacements			
	REGION-WIDE Interior painting			
K	Mechanical and Electrical	Allocation:	\$	700,000
	REGION-WIDE Upgrade service panels and light fixtures			
	REGION-WIDE Heating ventillation and air conditioning improvements			
	REGION-WIDE Backflow prevention implementation			
L	Building Envelope	Allocation:	\$	700,000
	REGION-WIDE Roof and window replacements			
	REGION-WIDE Exterior walls			
	REGION-WIDE Replacement of exterior doors			
M	Accessibility	Allocation:	\$	2,000,000
	REGION-WIDE Renovations/alterations for school accessibility brought forward by Accessibility Committee			
N	Site Improvements	Allocation:	\$	750,000
	REGION-WIDE Paving repairs and new parking			
	REGION-WIDE Field drainage improvements			
	REGION-WIDE Repair/replacement of fields,walkways, steps and retaining walls			
O	Health and Safety and Security	Allocation:	\$	100,000
	REGION-WIDE Upgrades to CCTV, Access Card Readers, Security Cameras, Defibulator Installs			
		Estimated Total	\$	10,428,611

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION
PROJECT PRIORITIES BY CATEGORY
SEPTEMBER 1, 2022 TO AUGUST 31, 2023**

			16-May-22
A	Sustainability		Allocation: \$200,000
	REGION-WIDE	Projects contributing to Natural Environment and Infrastructure Preservation through Land and Habitat Stewardship, Water Conservation, Transportation	
	REGION-WIDE	EV Charging Stations - 5 more sites , Energy monitoring software	
B	Schematic Design Briefs		Allocation: \$100,000
	REGION-WIDE	Schematic Designs for future projects (EAC,SAC,Mech/Elect,Building Env.) to gain accurate costing and timing	
C	Environmental		Allocation: \$500,000
	WODSS	Abatement at WODSS associated with ventilation project	
	CHCI	Abatement of firespray material around VAV Zone dampers	
	REGION-WIDE	Site assessment and data development for asbestos regulations, testing and abatement	
	REGION-WIDE	Environmental Projects	
D	Renovations/Alterations Secondary Program		Allocation: \$1,500,000
	REGION-WIDE	Renovations/alterations to secondary facilities for projects to improve school programs - priorities are established in consultation with the Secondary Accommodation Committee	
	WCI	Update the main office to current standards and provide a suitable space for all administrators. (SAC#89)	
	WCI	To update the Family Studies room to current standards and provide a suitable space for students (SAC#88)	
	WODSS	Renovate Room to Family Studies new standards (SAC#79)	
	HHSS	Family Studies Program - Convert/Renovate a classroom (SAC#107)	
	LHSS	Convert 2 PODs into Regular Classrooms (SAC#93)	
E	Renovations/Alterations Elementary Program		Allocation: \$1,500,000
	REGION-WIDE	Renovations/alterations to elementary facilities for projects to improve school programs - priorities are established in consultation with the Elementary Accommodation Committee	
	Baden	Remove old millwork from computer lab in library, build wall, adjust HVAC (EAC#99) - sensory room upgrade.	
	Crestview	Remove library office, add new circulation desk, create work area with proper storage and update flooring (EAC#91) -	
	Silverheights	Renovate Library to create better flow, add circulation desk, remove walls, close off A/V space. (EAC#77)	
	Suddaby	Renovate Existing Library plus millwork, circ desk, A/C and New Carpet (EAC#106)	
F	Renovations/Alterations Special Education		Allocation: \$250,000
	REGION-WIDE	Renovations/alterations for Special Education programs brought forward throughout the school year as identified by Special Education staff	
	Smithson	Creating a universal washroom to accommodate special needs students - (together with SCI)	
	SSS	Creating a universal washroom to accommodate ACE students at SSS - (together with SCI)	
	Crestview	Creating a universal washroom to accommodate a student now in SK- (together with SCI)	
G	Building Code, Fire Code, OHSA,		Allocation: \$116,306
	REGION-WIDE	Consulting fees for studies relating to building infrastructure, OH&SA compliance, Building code and Fire code compliance	
	REGION-WIDE	Playground Equipment Repairs	
	REGION-WIDE	Ministry of Labour Guarding in Tech Shops	
	REGION-WIDE	Natural Gas Line Inspections	
	REGION-WIDE	Fire Panel Inspections	
	REGION-WIDE	Lifting Equipment Repairs Over \$2,500	
	REGION-WIDE	Electrical Panel Inspections - Thermography	

Estimated Total \$4,166,306

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**PUPIL ACCOMMODATION GRANT - SCHOOL RENEWAL ALLOCATION
PROJECT PRIORITIES BY CATEGORY
SEPTEMBER 1, 2022 TO AUGUST 31, 2023**

			16-May-22
H	Energy Conservation		Allocation: \$750,000
	REGION-WIDE	Projects and Studies relating to Energy Conservation	
	REGION-WIDE	Real Time Energy Monitoring	
	REGION-WIDE	LED lighting upgrades	
	REGION-WIDE	Occupancy Sensors	
I	Temporary Accomodation Repairs		Allocation: \$75,000
	REGION-WIDE	Repair and upgrades to portable classrooms and Porta-Paks	
J	Interior Finishes		Allocation: \$1,000,000
	REGIONWIDE	Gym Floors - Crestview, Smithson, Lester B. Pearson	
	REGIONWIDE	Washroom renovations - Smithson(FDK), Suddaby	
	REGIONWIDE	Lockers/Locker faces - JHSS,Hespeler,Woodland Park,Doon,BCI	
	REGIONWIDE	Interior Refresh and Finishes (eg. Paint,Ceilings,Flooring)	
K	Mechanical and Electrical		Allocation: \$725,000
	REGIONWIDE	Mechanical / Electrical Upgrades	
	HHSS	Replace water cooled Chiller with Air cooled Chiller (Together with SCI)	
	WODSS, MacGregor, Stewart Ave., Smithson, Suddaby	Mechanical Ventilation Upgrades (HVAC) contract admin - WODSS, MacGregor,Stewart Ave, Smithson,Suddaby , (Together with \$6.8M SCI for construction - 35 classrooms)	
	JHSS,ECI,SSS, Cedarbrae	Air Conditioning / Cooling Upgrades Designs - (Together with SCI - for construction) Boiler Plant Upgrade (Together with SCI)	
L	Building Envelope		Allocation: \$725,000
	REGION-WIDE	Roofing Replacements (together with SCI)	
	REGION-WIDE	Window Replacements (together with CVRIS and SCI)	
	REGION-WIDE	Brick Repair/Replace (together with SCI)	
	REGION-WIDE	Exterior Doors	
M	Accessibility		Allocation: \$2,000,000
	REGION-WIDE	Renovations/alterations for school accessibility brought forward by Accessibility Committee	
	PHS	Add Elevator (in conjunction with SCI) - Finishing	
	King Edward	Elevator - Design / Beginning construction Spring 2023	
	Central	Elevator - Design / construction Feb 2023	
	REGION-WIDE	In Design - Elizabeth Ziegler, Suddaby, Sheppard, St. Andrews, St Jacobs, Conestoga	
	REGION-WIDE	BF Washrooms - Together with SCI funding (Centennial (C) , SSS, Crestview, GPSS,King Edward,Central)	
O	Site Improvements		Allocation: \$800,000
	REGION-WIDE	Paving replacement and new parking - Hespeler, Moffat Creek, Stanley Park,Trillium,Silverheights,Glencairn (Together with SCI),	
	REGION-WIDE	Site Drainage and erosion repairs/improvements	
	REGION-WIDE	Repair/replacement of fields,walkways, steps and retaining walls	
P	Health and Safety		Allocation: \$100,000
	REGION-WIDE	Upgrades to CCTV, Access Card Readers, Security Cameras and improvements for health and safety	

Estimated Total \$10,341,306



Report to Committee of the Whole

June 7, 2023

Subject: 2023-2024 School Condition Improvement Grant

Recommendation

This report is for the information of the Board.

Status

Each year several projects for major maintenance are prioritized and funded from the annual Pupil Accommodation Grant – School Renewal but not all prioritized projects can be completed due to the limited amount of funding available. This additional School Condition Improvement (SCI) Grant will allow for the completion of backlogged prioritized projects in the 2023-2024 school year. The intent of these prioritized projects is to bring older schools up to current standards.

Appendix A illustrates the types of projects for 2023-2024 that will be considered for the SCI Grant.

Background

As per the Ministry of Education Memorandum 2023:B07 memorandum dated April 17, 2023, the Ministry is investing \$1070M in funding allocated across 72 school boards towards the SCI Grant. This grant is in response to data collected from the Ministry's School Condition Assessment Program (SCAP), which completed a five-year cycle of facility audits in 2020. The ministry plans to relaunch the SCAP cycle starting this year and be over a five-year period, with approximately 900 facilities assessed per year. The assessments will be conducted by VFA Canada Corporation ("VFA") and the ministry will continue to leverage the VFA Facility database

Renewal needs for school facilities that are five years of age or less or are not assets of the Board (i.e., short-term leases) have not been audited. Under this revised methodology, the Ministry will also ensure that most of the SCI Grant is targeted towards identified major renewal needs, while still providing boards with the flexibility to direct some of the SCI Grant to address other locally identified facility renewal needs.

The Ministry requires that at least seventy percent (restricted) of the SCI Grant is to be spent on major building components and systems, and at most thirty percent (unrestricted) on building interiors, site, and other components considered non-critical.

The SCI Grant can only be used on depreciable renewal expenditures in schools that are expected to remain open and to address the facility renewal priorities of the Board.

The Ministry has arranged with the Ministry's Condition Assessment Program Administrator, VFA, Inc. (VFA) to support boards with their capital planning and management needs through its VFA Facility Asset Management database. The school renewal expenditures funded through the SCI Grant must be reported in the VFA Facility Asset Management database.

Financial implications

As per Ministry of Education Memorandum 2023:B07 dated April 17, 2023, the Ministry's allocation to the WRDSB through the SCI Grant for 2023–2024 is projected to be \$32,937,607.

Communications

Once the SCI Grant projects are finalized, resources will be assigned, and school Principals will be advised of upcoming activities to detail the scope of projects and coordinate scheduled activities.

Prepared by: Graham Shantz, Associate Director
Nick Landry, Superintendent Business Services & Treasurer of the Board
Ron Dallan, Manager of Capital Projects
in consultation with Coordinating Council

**WATERLOO REGION DISTRICT SCHOOL BOARD
BUSINESS SERVICES DIVISION
FACILITY SERVICES DEPARTMENT**

**SCHOOL CONDITION IMPROVEMENT GRANT - SCHOOL RENEWAL
PROJECTS COMPLETED or PLANNED
SEPTEMBER 1, 2023 TO AUGUST 31, 2024**

SCI Grant 2023-24

Key Building Components and Systems (Restricted - 70%)

\$23,056,325

REGION-WIDE	Heating Ventillation and Air Conditioning (HVAC) Improvements
REGION-WIDE	Shell/Superstructure - Roofs, Exterior Walls, Windows
REGION-WIDE	Plumbing Improvements
REGION-WIDE	Fire Protection
REGION-WIDE	Electrical Improvements
REGION-WIDE	Substructure - Foundations, Basement Walls

Locally Identified Needs (Unrestricted - 30%)

\$9,881,282

REGION-WIDE	Improve Interiors - Stairs, Floor Finishes, Ceilings
REGION-WIDE	Equipment and Furnishings (eg. fixed items only)
REGION-WIDE	Special Construction (e.g. Hazardous Waste Removal)
REGION-WIDE	Demolition
REGION-WIDE	Building Sitework - Parking Lots, Site Lighting, Pavements, Site Utilities

TOTAL

\$32,937,607



Report to Committee of the Whole

June 07, 2023

Subject: Major Capital Projects Quarterly Update Report

Recommendation

This report is for the information of the Board.

Status

Current capital projects with budgets greater than \$2.5M are outlined in Appendix A and are presented with dashboard symbols to indicate the project status relative to the schedule, budget and scope. Significant milestones, along with basic project statistics, are also presented. All projects are proceeding through their stages with the following comments.

During the design phase of each project, in consultation with architects, we continue to see construction cost escalations for the majority of our projects. These cost estimates exceed benchmark funding provided by the Ministry of Education. Once we reach 80 percent design for each project, we will finalize third-party Cost Consultant Reports and submit an approval to proceed (ATP) to the Ministry. We will tender the project once the Ministry approves the additional funding allocations.

These cost escalations are attributable to global commodity price increases for fuel and construction materials used to build our schools.

SE Cambridge - JUC

For the new school in SE Cambridge Joint Use Campus with the WCDSB, we have now received a 3rd party cost consultants report and have submitted individual ATP requests to the Ministry indicating how much each board requires above their originally granted benchmark funding. The cost consultant report indicates a total estimated construction cost for our portion of the Joint Use Campus including Childcare of \$23,503,378. When we add the associated soft costs such as architect fees, furniture, permits etc. the project cost for our school exceeds previously approved 2016 Benchmark funding by approximately \$11.9M. Both boards will require additional Ministry approval (funding via the ATP request) before we can move forward on this project.

Laurelwood Addition

For the Laurelwood addition, we have now received the additional funding and can proceed to tender the project.

Background

The major capital projects listed in Appendix A have been funded by the Ministry and approved by the Board of Trustees.

Financial implications

The major capital projects listed in Appendix A have all received Ministry funding approval. As we progress through the design and construction phases of each project, additional funding may be required due to price escalations for both supplies and services; staff will continue to submit requests to the Ministry for additional funding as required.

Communications

Facility Services staff have consulted with the Ministry of Education, administration, contractors, architects, Financial Services, municipalities, various internal committees and the Board of Trustees regarding the stages of approval, design, construction and budget approvals.




Prepared by: Graham Shantz, Associate Director
Nick Landry, Superintendent Business Services and Treasurer of the Board
Ron Dallan, Manager of Capital Projects
Fabiana Frasher, Budget Officer, Financial Services
in consultation with Leadership Council

Major Capital Projects
Quarterly Update Report
June 7 2023

Project	Stage	Scope	Board Approval	Ministry Approval	Site Acquisition Complete	Site Encumbrances	Architect	Site Plan Approval	Bldg Permit	Tender Awarded	Project Budget	Classes Begin
P.S. Breslau-Hopewell Crossing (new)	Design	New School	16-Sep-19	23-Nov-21	Yes	No	K+ Architects	No	No	No	\$16,552,917	TBA
P.S. in South Kitchener (new)	ATP Submitted to Ministry	New School	16-Sep-19	31-Mar-20	Yes	No	Walter Fedy Partnership	No	No	No	\$14,425,653	TBA
P.S. in South East Cambridge (new)	ATP Submitted to Ministry	New School	9-May-16	21-Nov-16	Yes	No	JP Thomson Architects	No	No	No	\$13,503,269	TBA
Laurelwood P.S. (addition)	Ready to Tender	Addition	16-Sep-19	20-Oct-20	NA	No	Hossack and Assoc.	No	No	No	\$6,421,759	TBA

Major Capital Projects are those greater than \$2.5M total project cost.

Dashboard Definitions

	On schedule, on budget, within scope.
	Schedule, budget or scope concerns.
	Schedule delays, budget creep, or quality concerns.