	SCHOOL DISTRICT 63 (SAANICH)
	FINANCE, FACILITIES & TECHNOLOGY COMMITTEE Report to the Board of October 26, 2022
Committee Members:	Trustee Vanwell, Chair Trustee Dunford Trustee McMurphy
Staff Support:	Jason Reid, Secretary-Treasurer Dave Eberwein, Superintendent of Schools Megan Cimaglia, Director of Finance Rob Lumb, Director of Facilities Cody Henschel, Director of Information Technology
Partner Representatives:	Don Peterson, STA – regrets Nola Welsh, CUPE David Mark, SAA Ashley Sonosky, COPACS
Other Attendees:	Trustee Silzer & Trustee Stelck

Committee Meeting

Tuesday, October 18, 2022

A. PRESENTATIONS AND QUESTIONS

1. Energy Plan Presentation The Committee agreed to refer to a future agenda to discuss advocacy and reducing energy consumption through behavioural change.

B. ITEMS DISCUSSED

No Items.

C. ITEMS FOR RECOMMENDATION

1. Final Enrolment & Funding

Motion:

The Committee recommends and I, Trustee VanWell move, That the Board approve the proposed budget changes as presented and allocation of residual net funding from growth to increase the contingency reserve.

Motion:

The Committee recommends and I, Trustee VanWell move, That the Chair, Vice Chair and Chair of Finance, Facilities & Technology seek a meeting with the Minister of Education to discuss the current and projected budget shortfalls in School District 63.

2. Parkland Track Update

Motion:

The Committee recommends and I, Trustee VanWell move, That the Secretary Treasurer approach Sidney and North Saanich to discuss funding the immediate completion of the track and sharing the cost of funding future renewal of the track surface.

D. ITEMS FOR INFORMATION

No Items.

E. FUTURE AGENDA ITEMS

1. Charitable Trust

Staff Recommendation:

That staff be directed to establish the Board of Directors as recommended with the Trustee representative to be appointed by the Chair of the Board.

Energy Sustainability Plan Update



October 18, 2022



Agenda

Rede



Baseline & Targets

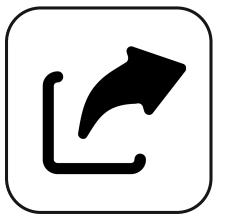


Buildings

900

Paper

Next Steps







Since 2008, Rede Energy Solutions has been helping schools and organizations to save money, energy, and headaches.



Targets & Baseline



Reduction Mandate

In March of 2021, CleanBC set a sector-specific target for **buildings and communities** of

59-64 % by 2030

https://news.gov.bc.ca/releases/2021ENV0022-000561



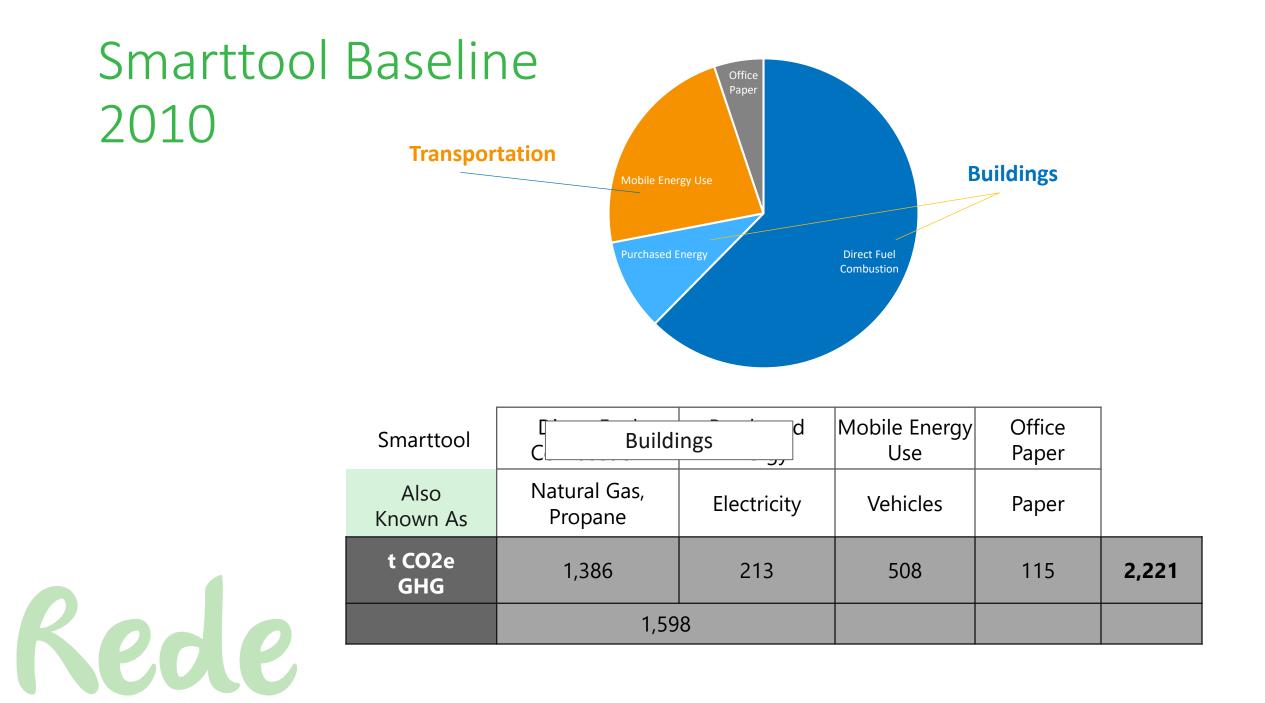
Reduction Mandate

In March of 2021, CleanBC set a sector-specific target for **transportation** of

27-32 % by 2030

https://news.gov.bc.ca/releases/2021ENV0022-000561





Apply the Targets

Smarttool	D Build	ings	Mobile Energy Use	Office Paper	
Also Known As	Natural Gas, Propane	Electricity	Vehicles	Paper	
t CO2e GHG	1,59	8	508	115	2,221



Apply the Targets

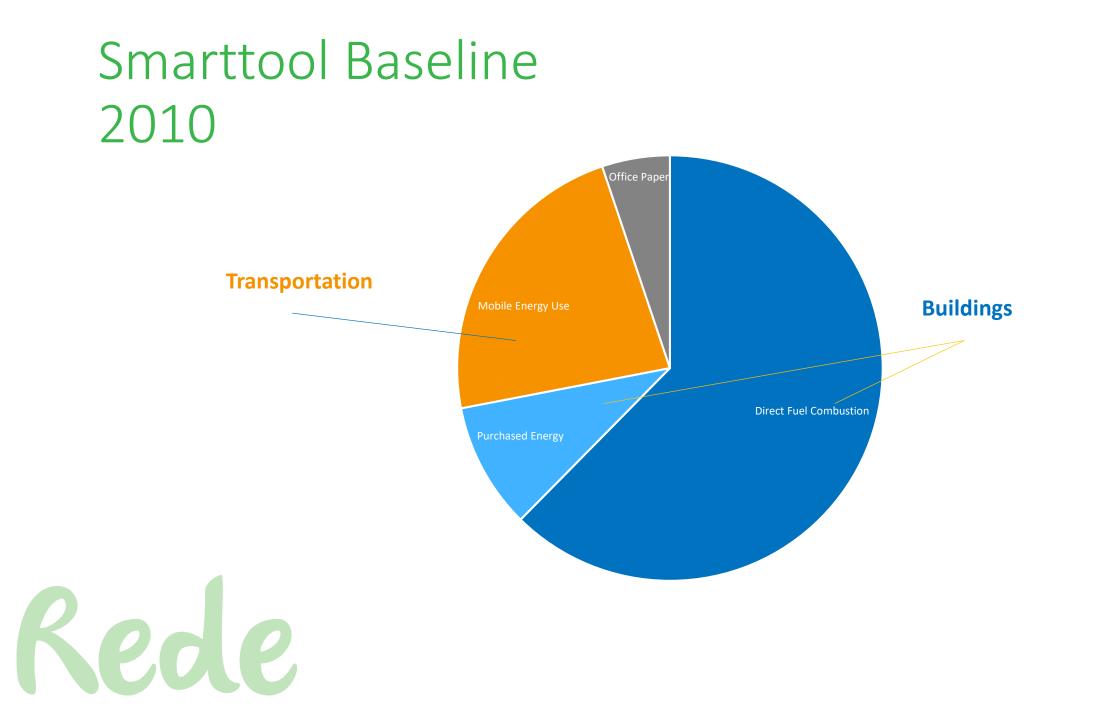
Smarttool	D Cd Build	ings	Mobile Energy Use	Office Paper	
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	59-64% Reduction		27-32% Reduction	59-64% Reduction	

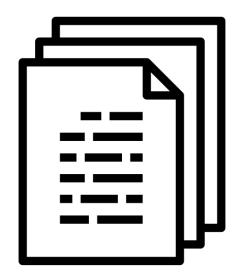


Apply the Targets

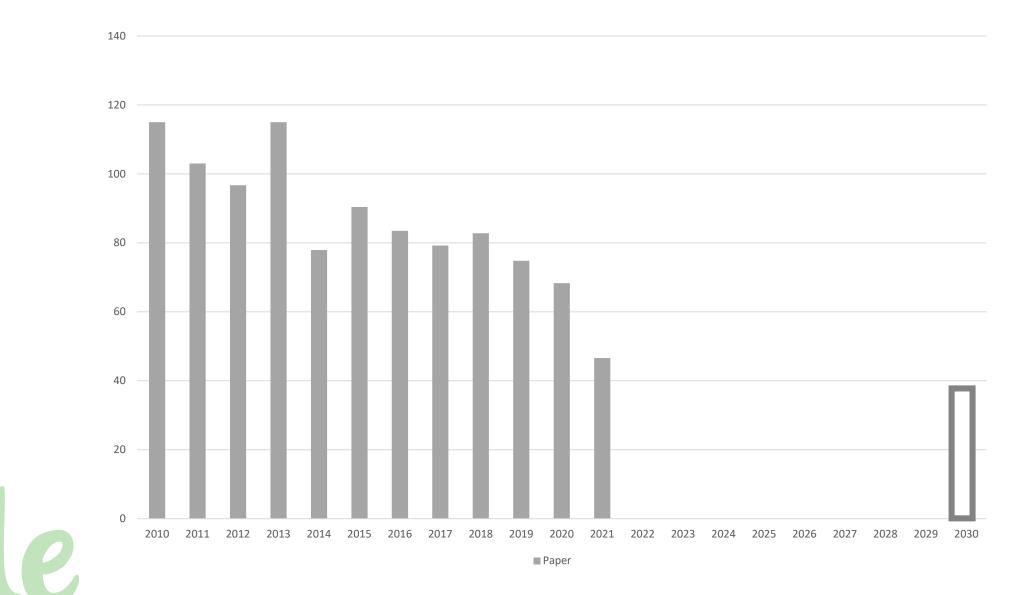
Smarttool	D Buildings		Mobile Energy Use	Office Paper	
Also Known As	Natural Gas, Propane	Electricity	Vehicles	Paper	
t CO2e GHG	1,59	1,598		115	2,221
	59-64% Reduction		27-32% Reduction	59-64% Reduction	
Reduction Needed	943 - 1023		137 - 163	68-73	
2030 Target	575-655		345 - 371	41-47	961 - 1073











	PCR Content		Emission Factor (kg CO2e/	pkg)
	(%)	8.5" x 11"	8.5" x 14"	11" x 17"
Post	0	6.358	8.094	12.743
<u>P</u> ost	10	6.123	7.795	12.272
Consumer	20	5.888	7.496	11.802
	30	5.653	7.197	11.331
Recycled	40	5.418	6.898	10.860
ontent	50	5.184	6.599	10.390
Jontent	60	4.949	6.300	9.919
	70	4.714	6.001	9.449
	80	4.479	5.703	8.978
	90	4.244	5.404	8.508
	100	4.010	5.105	8.037
		•	•	•

Table 6: Office Paper

Note: emission factors for office paper are based on a 500-sheet package of 20-pound bond paper weighing 2.27, 2.89 and 4.55 kg, respectively, for the three paper sizes.



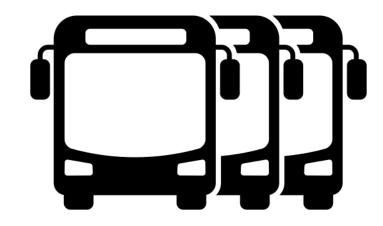
Fall 2021 Recommendation

Implement purchasing policy

Spring 2022 Action

Schools and departments advised to use Monk-recommended "sugar sheet" paper. Counts as 100% post-consumer recycled.





Fleet

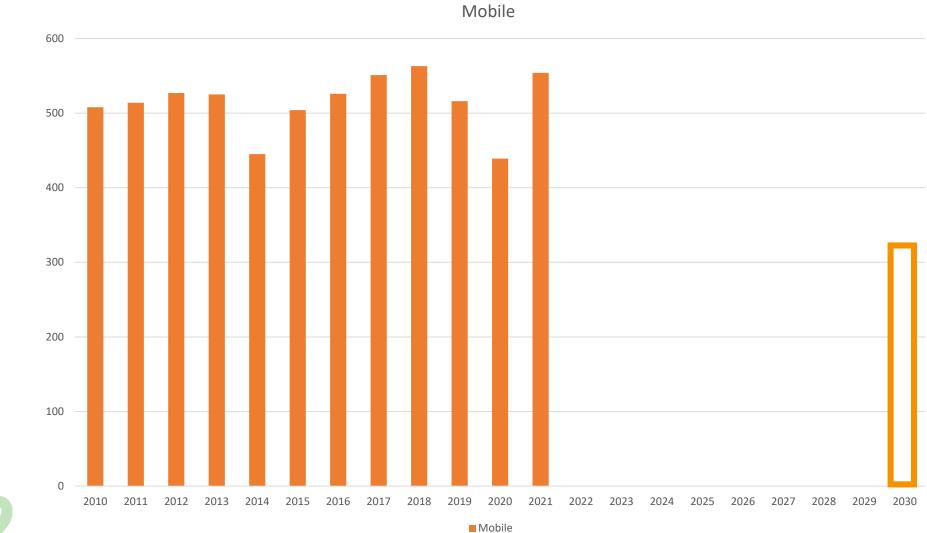


Fleet GHG Reduction

Smarttool	D Buildings		Mobile Energy Use	Office Paper	
Also Known As	Natural Gas, Propane	Electricity	Vehicles	Paper	
t CO2e GHG	1,598		508	115	2,221
	59-64% Reduction		27-32% Reduction	59-64% Reduction	
Reduction Needed	943 - 1023		137 - 163	68-73	
2030 Target	575-655		345 - 371	41-47	961 - 1073



Target - Fleet



Rede

Fleet - Inventory

	Diesel L	Diesel L Gasoline L Total L		
White Fleet	18,561	55,216	73,777	34%
Yellow Fleet	141,982	844	142,826	66%
			216,603	

White Fleet = 34 trucks etc. Yellow Fleet = 27 buses % Electric = 0



Fleet – Electrification

White Fleet Replacement

- No suitable market-ready EV options
 - Trucks
 - Cube Vans
- Consider hybrids where possible

Yellow Fleet Replacement

- [~13 t GHG per bus]
- 11 buses replaced = 143 t
- 13 buses replaced = 169 t

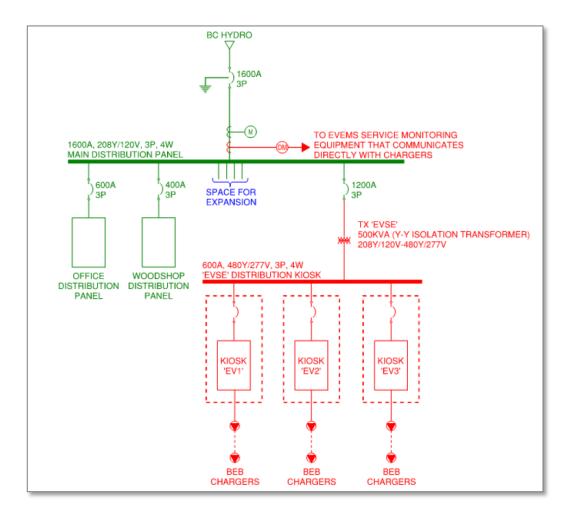


Fleet – EV Charging

- ✓ Service Upgrade Complete (Summer 2022)
- EV Charging Design (Fall 2022)

2 EV Chargers Installed (Fall/Winter 2022/23)

P.







Needed by 2030



2022 Budget – Arrive 2024



2021 Budget – Arrive 2023

Fleet – Electrification

Fleet – Costs & Incentives

<u>1 Bus</u>

2 Buses

Type D Electric Bus

\$455,120	\$910,240	Base Price
\$8,805	\$17,610	Options
\$37,114	\$74.228	Tax (PST plus net GST is approx. 8%)
\$501,039	\$1,002,078	Total Cost
-\$204,215	-\$408,430	Core BUS Funding via EDUC (Diesel)
-\$30,000	-\$60,000	Supplementary BUS Funding via EDUC
-\$150,000	-\$300,000	CleanBC Funding
-\$50,000	-\$50,000	CNCP Funding (one time funding per SD)
-\$434,215	-\$818,430	Available Funding
- •	- •	

\$66,824 \$183,648 Canada Infrastructure Bank Loan



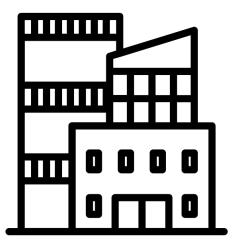
Fleet – Funding Gap

Yellow Fleet Replacement

- 11 13 buses
- \$500K per bus
- Total Cost \$5.5 M \$6.5M
- Basic Funding \$205K per bus
- Total Funding \$2,255,000 \$2,665,000

• Funding Gap = \$3.2M - \$3.8M

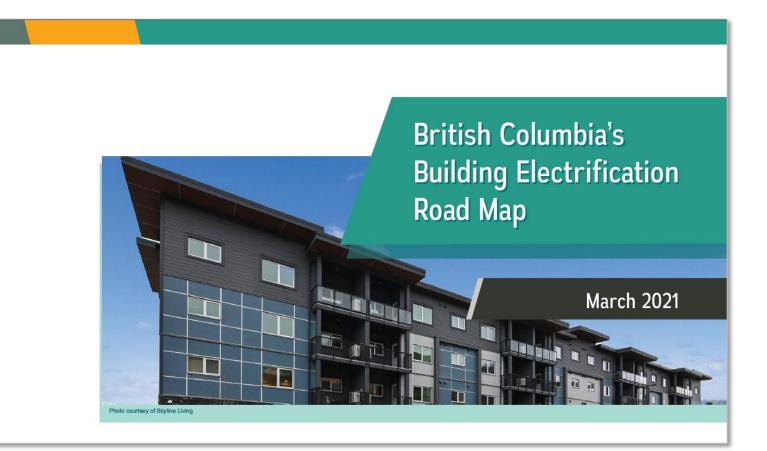
- Possible Clean BC Funding
- Possible CIB Loans



Buildings



How do we de-carbonize?





How do we de-carbonize?

- "Fuel Switching"
- "Electrification"
- Heat Pumps



Technology	Ground- oriented Residential	Apartment Style Residential	Small to Medium Commercial	Larger Commercial 8 Institutional
Air Source Heat Pumps	•	•	•	•
Hydronic Space & Water Heating	•	•	•	•
Cold Climate ("Low-Ambient") Heat Pumps	•	•	•	•
Rooftop Air Source Heat Pump	N/A	•	•	•
Variable Refrigerant Flow (VRF)	•	•	•	•
Ground Source Heat Pumps	•	•	•	٠
Heat Pump Water Heater (240V)	•	•	•	N/A
Heat Pump Water Heater (120V)	•	•	N/A	N/A
Central Heat Pump Water Heater	N/A	•	•	•
Commercial Heat Pump Water Heater	N/A	N/A	•	•
Ground Source Heat Pump with Desuperheater	N/A	N/A	N/A	•
	Air Source Heat PumpsHydronic Space & Water HeatingCold Climate ("Low-Ambient") Heat PumpsRooftop Air Source Heat PumpVariable Refrigerant Flow (VRF)Ground Source Heat PumpsHeat Pump Water Heater (240V)Heat Pump Water Heater (120V)Central Heat Pump Water HeaterCommercial Heat Pump Water Heater	Iechnologyoriented ResidentialAir Source Heat Pumps●Hydronic Space & Water Heating●Cold Climate ("Low-Ambient") Heat Pumps●Rooftop Air Source Heat PumpN/AVariable Refrigerant Flow (VRF)●Ground Source Heat Pumps●Heat Pump Water Heater (240V)●Heat Pump Water Heater (120V)●Central Heat Pump Water HeaterN/ACommercial Heat Pump Water HeaterN/A	Iechnologyoriented ResidentialStyle ResidentialAir Source Heat Pumps●●Hydronic Space & Water Heating●●Cold Climate ("Low-Ambient") Heat Pumps●●Rooftop Air Source Heat PumpN/A●Variable Refrigerant Flow (VRF)●●Ground Source Heat Pumps●●Heat Pump Water Heater (240V)●●Heat Pump Water Heater (120V)●●Central Heat Pump Water HeaterN/A●Commercial Heat Pump Water HeaterN/AN/A	Iechnologyoriented ResidentialStyle ResidentialMedium CommercialAir Source Heat Pumps●●●Hydronic Space & Water Heating●●●Cold Climate ("Low-Ambient") Heat Pumps●●●Rooftop Air Source Heat PumpN/A●●Variable Refrigerant Flow (VRF)●●●Ground Source Heat Pumps●●●Heat Pump Water Heater (240V)●●●Heat Pump Water Heater (120V)●●N/ACentral Heat Pump Water HeaterN/A●●Commercial Heat Pump Water HeaterN/AN/A●Commercial Heat Pump Water HeaterN/AN/A●Commercial Heat Pump Water HeaterN/AN/A●

Market ready with multiple models available
 Market evolving. Limited models available

N/A Technology is not applicable for this building type

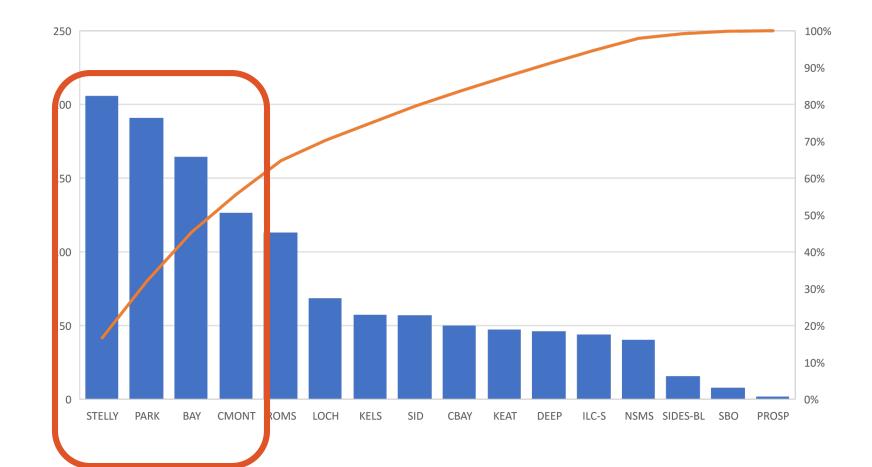
Building GHG Reduction

Smarttool	Direct Fuel Combustion	Purchased Energy	I ⁄lobile Energy Use	Office Paper	
Also Known As	Natural Gas, Propane	Electricity	Vehicles	Paper	
t CO2e GHG	1,598		508	115	2,221
	59-64% Reduction		27-32%	59-64%	
			Reduction	Reduction	
Reduction Needed		tion			
	Reduct	tion 023	Reduction	Reduction	961 - 1073



Strategic Priorities

4 largest consumers = 55% of gas GHGs



2020 GHGs from fuels, tCO₂e

Strategic Priorities

Failing/Poor Systems in need of replacement



2020 GHGs from fuels, tCO₂e

Cost to Complete

Rede

	Central	GHG		GHG	Total
Facility	Plant Costs	Savings (t)	Zone Costs	Savings (t)	GHGs
Bayside Middle School	1,485,000	118		46	164
Claremont Secondary	1,235,000	80		44	124
Cordova Bay Elementary	155,000	14		32	46
Deep Cove Elementary	940,000	29		16	45
ILC - Saanichton	675,000	30		13	43
Keating Elementary & DRC	605,000	33		13	46
Kelset Elementary	750,000	36		23	59
Lochside Elementary	625,000	43		23	66
North Saanich Middle School	405,000	40			40.1
Parkland Secondary	1,225,000	119		66	185
Royal Oak Middle School	435,000	110			110
School Board Office	60,000	7			7
Sidney Elementary	565,000	54		2	56
SIDES - Beaver Lake	810,000	15			15
Stelly's Secondary	1,135,000	114		85	199
	\$11,105,000	842	\$10-\$20M	363	1,205

Completed by SMCN

Buildings – Funding Gap

- \$1.5M AFG funding
- \$1M SEP funding
- \$500k CNCP funding

~1205 t reduction
Need \$21 - \$31 M
Expecting \$4 M (\$500k x 8 years)
Funding Gap = \$17M - \$27M



Other Funding Options

Provincial Government

CleanBC Custom Incentives

- Max \$200,000 per project
- Max \$750,000 per customer

Federal Government

Low Carbon Economy Fund



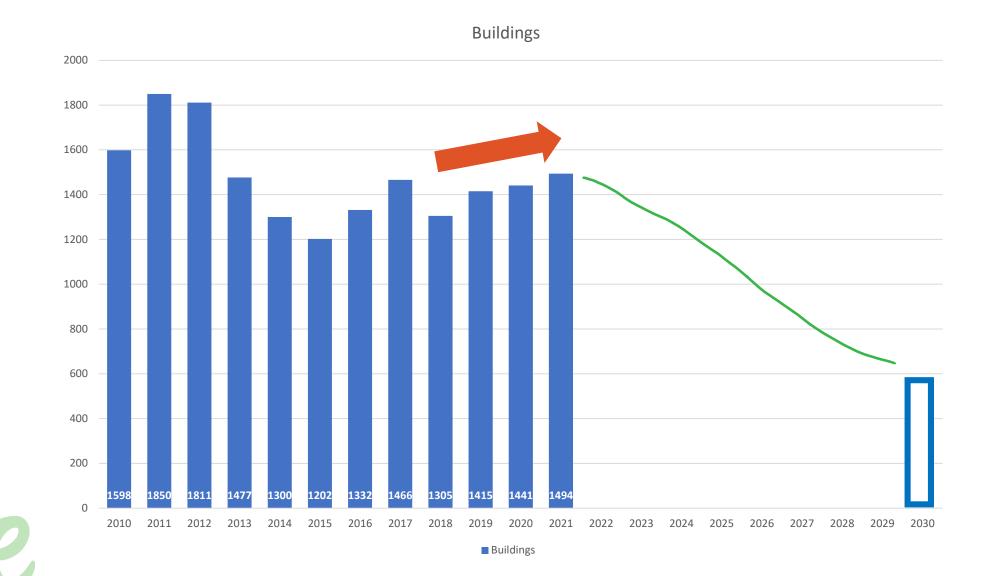
- Min \$1M per application
- Max \$25M per application
- 50% cost sharing

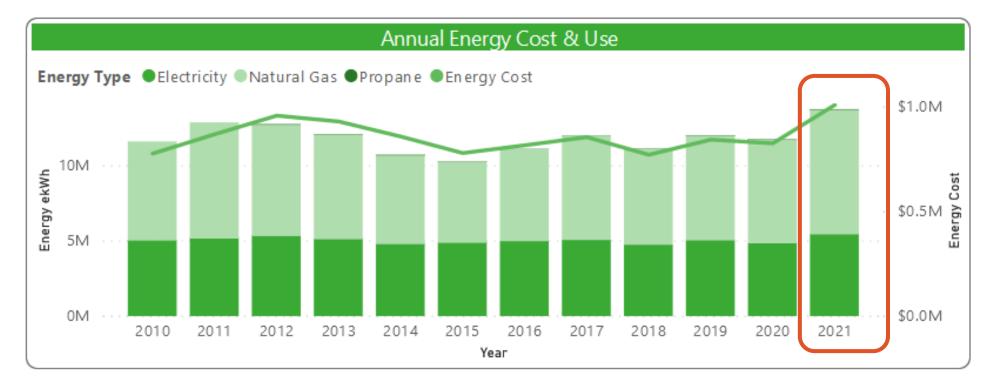


Low Carbon Economy Fund



Target - Buildings





(Annual Energy Cost & Use								
	Energy Type	Electricity		Natural Gas		Propane		Total	
	Year	Energy Cost	En ergy ek Wh	En ergy Cost	Energy ekWh	En ergy Cost	En ergy ek Wh	Energy Cost	Energy ekWh
	2018	\$569,604	4,750,538	\$195,392	6,345,626	\$4,110	22,013	\$769,106	11,118,177
	2019	\$602,717	5,052,305	\$234,961	6,940,854	\$3,774	21,254	\$841,453	12,014,413
	2020	\$571,545	4,856,813	\$246,163	6,852,031	\$6,120	38,940	\$823,829	11,747,784
	2021	\$640,304	5,447,111	\$358,386	8,252,817	\$8,838	48,504	\$1,007,528	13,748,432
Redi	2	-							

Causes of Increase

1. Covid

Increased ventilation

Increased gas use





Rede saw an increase of 15 – 20% across multiple clients.

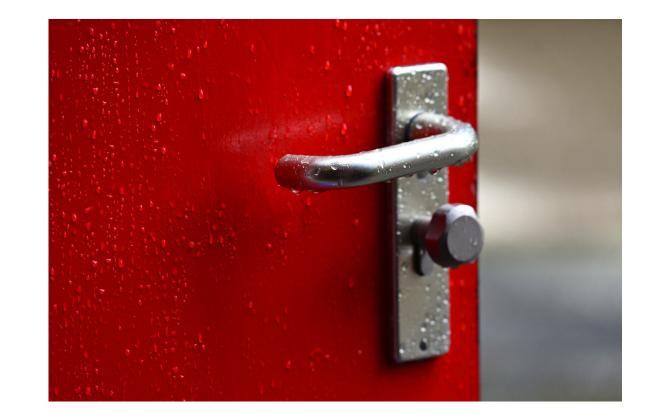
Causes of Increase

2. Occupant Behaviour

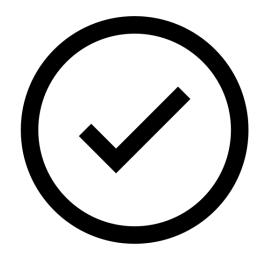
Open doors and windows

Action Needed:

- New Systems
- Enforcement







Other Initiatives

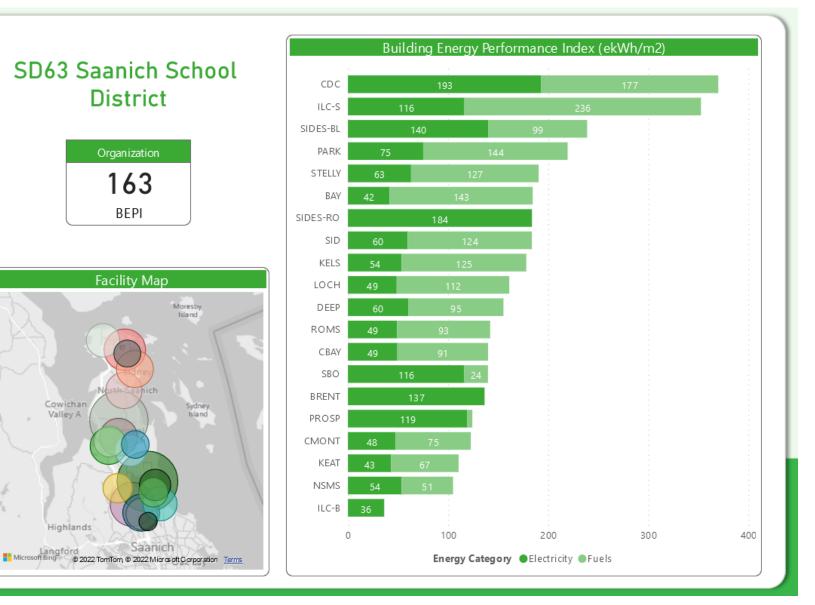


Energy Management





Utility Reporting



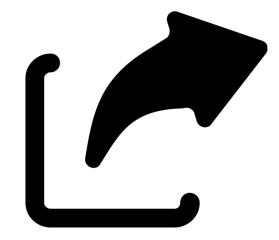
Rede

BC Hydro Continuous Optimization



Keating Elementary Lochside Elementary North Saanich Middle School Brentwood Elementary Cordova Bay Elementary Kelset Elementary Sidney Elementary





Next Steps



Mind the Gap

Paper	Fleet	Buildings		
	Funding Gap \$3.2M - \$3.8M	Funding Gap \$17M - \$27M		





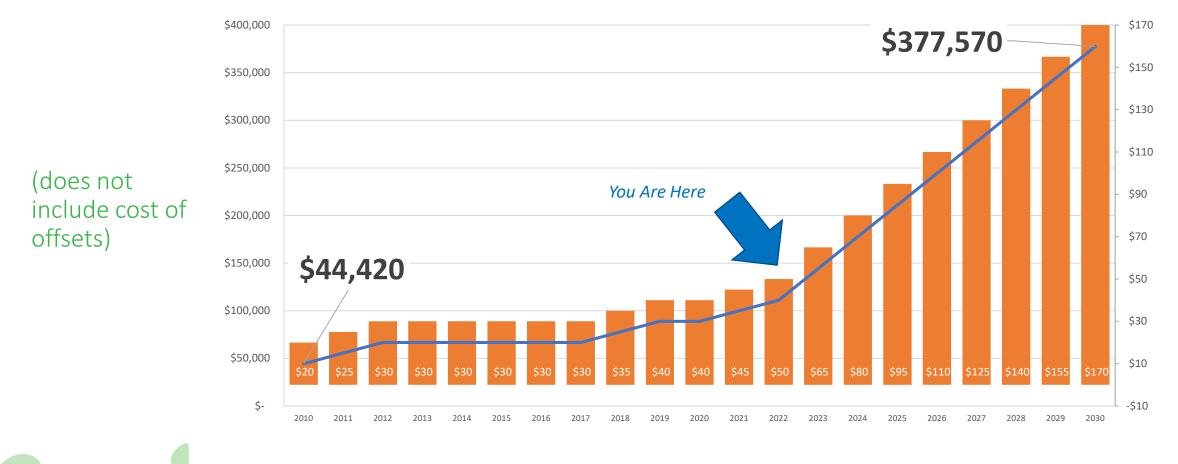
Category	Action	Next Step
Paper	Purchasing Policy	Monitor efficacy
Fleet	EV Charging Funding	 Installation - Phase 1 Ongoing incentive applications
Buildings	Funding	LCEF Notification ???



What if we don't meet the targets?



Carbon Tax Escalation



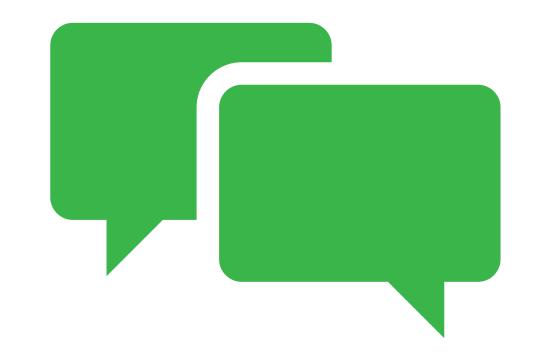
Price Per Ton BC Carbon Tax Cost

Projection assuming no change in GHG emissions from 2010 Baseline



Advocacy for additional funding Action on Behaviour change









SCHOOL DISTRICT 63 (SAANICH)

BRIEFING NOTE

2125 Keating Cross Road, Saanichton, BC Canada V8M 2A5 Phone: (250) 652-7300 Fax: (250) 652-6421 saanichschools.ca

To: Finance, Facilities & Technology Committee	Prepared By: Jason Reid Secretary Treasurer
Subject: Final Enrolment and Funding	Date: October 14, 2022

Purpose

The purpose of this briefing note is to inform the Committee and Board of final fall enrolment and related funding, and to recommend for the Board's approval allocation of additional funding available in forming the district's 2022/23 Amended Annual Budget.

Background

Each year the Board of Education approves a preliminary budget before the beginning of the July 1st to June 30th fiscal year. An amended annual budget is then adopted during the year (before the end of February) reflecting changes that result from:

- analysis of prior year financial results and confirmation of available accumulated operating surplus;
- confirmation of fall enrolment and resulting funding and staffing costs; and,
- other circumstances that have arisen subsequent to adoption of the preliminary budget.

Prior Year (2021/22) Financial Results

For the year ended June 30, 2022 the district's expenses exceeded its revenue resulting in an annual deficit of \$3,498,631 (2021 result was a small surplus of \$345,534). This was comprised of the combined financial results of the operating fund and the capital fund as follows:

Annual Surplus (Deficit)	June 30, 2022	June 30, 2021		
Operating Fund	(2,921,751)	238,630		
Capital Fund	(576,880)	106,904		
Combined	(3,498,631)	345,534		

In the operating fund, the annual deficit of \$2,921,751 resulted in accumulated operating surplus decreasing from \$6,916,708 at the beginning of the year to \$3,994,957 as of June 30, 2022. Significant factors increasing fiscal pressure in 2021/22 were increased staff replacement costs attributable to the Omicron COVID-19 variant, actual employee benefit costs being much closer to budget than in previous years, and general cost inflation in service and supplies.



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As the Board appropriated \$2,530,968 in accumulated surplus (June 2022) to balance the preliminary 2022/23 budget and \$996,516 to fund non-discretionary multi-year activities, only \$476,473 remained to be allocated to the contingency reserve in September 2022.

	2021/22 Financial Statements	2021/22 Amended Budget	2020/21 Financial Statements
District Activities (multi-year funding)	592,584	984,527	984,527
School Activities (multi-year funding)	403,932	694,213	694,213
Learning Impacts of Pandemic	-	234,849	234,849
Appropriated for Budget in following year	2,530,968	2,418,503	2,757,247
Total Internally Restricted	3,527,484	4,332,092	4,670,836
Contingency Reserve (Unappropriated Surplus)	467,473	2,584,616	723,702
Unrestricted Surplus	-	-	1,522,170
Total Accumulated Surplus	3,994,957	6,916,708	6,916,708

The increased trajectory of expenditures relative to budget during 2021/22 is concerning as many of the drivers of this cost escalation are expected to continue, and the budget reductions/changes made in the 2022/23 preliminary budget only offset additional forecasted unfunded inflationary pressures (and not this additional experienced financial pressure during 2021/22). With depletion of the contingency reserve, if we experience further decline in accumulated surplus the district will face significant budget pressure in 2023/24.

Confirmation of Fall Enrolment and Funding

School Age Enrolment reported to the Ministry for funding is presented below in the "2022/23 Actual" column. At this stage, overall enrolment has declined by 21.4 FTE relative for forecast ("2022/23 Preliminary"); however, enrolment will likely decline further in the coming weeks as duplicate enrolments are resolved between secondary schools. Last fall secondary enrolment declined by 26.5 FTE for duplicate resolution following the reporting of enrolment to the Ministry.

	2019/20	2020/21	2021/22	2022/23	2022/23	Variance	
	Actual	Actual	Actual	Preliminary	Actual	Increase /	
						(Decrease)	
School Age Enrolment							
Elementary	2,813.0	2,783.0	2,907.0	2,963.0	2,964.0	1.0	
Middle	1,580.0	1,479.0	1,535.0	1,492.0	1,532.0	40.0	
Secondary	2,237.0	2,150.0	2,154.0	2,162.0	2,176.7	14.7	*
Continuing Education	23.0	12.0	16.0	15.0	11.4	-3.6	
Alternate Programs (ILC)	182.0	182.0	178.0	185.0	197.9	12.9	*
Online Learning (SIDES)	287.0	800.0	573.0	450.0	363.6	-86.4	
Total School Age Enrolment	7,122.0	7,406.0	7,363.0	7,267.0	7,245.6	-21.4	
* Secondary Enrolment will dec	line following (dunlicate er	violment va	lidation			

Secondary Enrolment will decline following duplicate enrolment validation.



SCHOOL DISTRICT 63 (SAANICH)

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Elementary enrolment is close to forecast, and Middle School enrolment is 40 FTE above forecast. Enrolment at Secondary/CE/ILC is 24 FTE above forecast; however, we expect final enrolment may decline closer to forecast as duplicate enrolments are resolved. Forecasting the impact of the pandemic on SIDES enrolment has been challenging, and this fall actual enrolment is below forecast by 86 FTE.

The district has experienced modest overall growth in funding because designations for unique needs have exceeded forecast. The district will also receive an estimated \$172,733 in supplemental funding for enrolment decline; however, this figure will change as enrolment declines further with duplicate validation. Note that supplemental funding for enrolment decline should not fund continuing programs, as it is one-time funding. The combined impact of actual enrolment and unique needs designations relative to forecast is presented in attachment 1.

Attachment 1 also includes the following proposed budget changes in response to both enrolment/designation changes and new information:

- Inclusive Education increase by \$400,000 for increased unique needs
- Enrolling Teacher reduce by \$159,450 (1.5 FTE) for enrolment decline
- WorkSafe Premiums \$70,000 increase to fund 2023 premium rate growth (rate increase was announced after the preliminary budget was adopted)
- Transportation \$75,000 for fuel and parts inflationary cost beyond preliminary budget estimate¹

Net funding from growth (after reflecting the above proposed budget changes) is \$383,571; however, this figure will change following duplicate resolution.

Given our concerns over inflationary cost pressures and contingency reserve depletion, my recommendation is that available net funding from growth be allocated to increase the contingency reserve.

Following approval of the allocation of funding from net growth, these changes will be reflected in the 2022/23 Amended Budget to be adopted by the Board in February 2023.

¹ Note that inflationary costs for services and supplies are being absorbed into most budgets reducing purchasing power. However, it is not possible to absorb transportation inflationary costs without reducing service levels.



SCHOOL DISTRICT 63 (SAANICH)

BRIEFING NOTE

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Staff Recommendations

That the Board approve the proposed budget changes as presented and allocation of residual net funding from growth to increase the contingency reserve.

With Respect,

Jason Reid Secretary Treasurer

JR/klg

Attachments: 1 - Net Funding Growth and Final Allocations for Amended Budget

Attachment 1: Net Funding Growth and Final Allocations for Amended Budget

	2022/23 Forecasted	2022/23 Actual Enrolment (validation			Incremental		
	Enrolment	(validation pending)	Difference	Rate	Funding		
Basic Allocation	6,817.00	6,881.9375	64.94	\$7,885	512,032		
Basic Allocation - Online Learning	450.00	363.6250	-86.38	\$6,360	-549,345		
Homeschool	15.00	14.0000	-1.00	\$250	-250		
Unique Needs - Level 1	8.00	10.0000	2.00	\$44,850	89,700		
Unique Needs - Level 2	315.00	351.0000	36.00	\$21,280	766,080		
Unique Needs - Level 3	230.00	251.0000	21.00	\$10,750	225,750		
English Language Learning	525.00	519.0000	-6.00	\$1,585	-9,510		
Indigenous Education	620.00	601.0000	-19.00	\$1,565	-29,735		
Non-Graduated Adults	30.00	27.1250	-2.88	\$5,030	-14,461		
Changes in other enrolment based supplements					-5,668		
Increased one-time funding for enrolment decline (fro	om \$88,205 to \$	172,733)			84,528		
Decreased Graduated Adult Enrolment					-85,000		
Estimated Funding Reduction from Duplicate Enrolment Resolution							
Enrolment Revenue growth relative to preliminary budget							
Proposed Budget Changes - Enrolment Based Increase - Inclusive Education Decrease - 1.5 FTE Enrolling Teacher Increased Staffing Budget					400,000 <u>-159,450</u> 240,550		
Proposed Budget Changes - OtherIncreased Worksafe BC Rate effective January 20237Transportation - Fuel/Parts Inflation7Total Expenditure Growth38							
Growth of Revenue net of Expenditures					383,571		