CAP 2016 029 'New Zero' Energy Status Update- Appendix B

2016-2017 - Summary of TCDSB Energy Savings Initiatives to Date						
	Description of Work (Scope of Work and Rationale for the work)	Number of Projects- Elementary (2017-2018)	Number of Projects- Secondary 2017-2018)	Total Capital Investment for These Projects	Estimated 'Pay-Back' Period (Years)	Projected Energy Savings (ekWh)
LED lighting retrofits	Replacement of all existing fluorescent lights (T12 and T8) with LED bulbs to reduce electricity cost. LED build gives more light per unit of electrcial energy (Watt) and has a longer life compared to florescent bulbs. Therefore, retrofitting florescent bulbs with LED bulbs help the board to reduce the electricity cost and the cost of maintainace	5	12	\$2,120,000	4	1,652,952
Boiler Replacement/B AS improvements	Replace old boilers with energy efficient boilers and replace outdated BAS /controls	10	1	\$7,525,000	6*	2,345,951
Buidling doors/Windows	Replace doors/windows to reduce air infteration and heat loss	10	3	\$1,910,000	over 10 years	2,526,255
Building Roof replacement	Full roof replacement (reduce heat loss)	7	4	\$7,815,000	Over 10 years	2,345,951
Voltage Harmonizer	Volatge Harmonizers regulate incoming high volatge to reduce energy use in schools		6	\$427,787	4	607,939