



Williams Lake Curling Club



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November 15th, 2019

To Darron Campbell – CRD

From: Kristi Denby – Williams Lake Curling Club

Dear Darren,

First off, I want to thank you for your patience with the Williams Lake Curling Club and for your continued support of our club and more specifically in our efforts to make our club more energy efficient and/or environmentally friendly. Below, is a list of projects that we have in our 5-year Capital/Replacement plan that addresses the initiatives mentioned above. In the table below we have listed the projects along with a projected savings both in power consumption, where applicable, and in actual dollars saved per year. Not all projects can be quantified in the manners above, but we are confident that they will make a difference in the club's ability to be as "green" as possible with utility savings and with the use of environmentally friendly materials.

Project Name	Description	Estimated Energy Savings	% Efficiency Saving	Estimated Dollar Savings	Estimated Project Cost
Lighting Upgrade	Installation of LED fixtures and lights in the lower lobby and upper lounge areas. LED lights are far more energy efficient, and last much longer, than other conventional lights. Short and long term savings.	6.4 KW 7500 kwh/yr	Up to 80% electrical savings. Bulbs last 25 times longer.	\$1900.00 PER YEAR	\$9,399.00
Rink Heater	Replace 2 old unit heaters with a more energy efficient model. One has reached its end of life and must be replaced this season.	2.1KW 2500 kwh/yr	Newer model is 10 - 15% more efficient.	\$710.00 PER YEAR	\$6,800.00
Refrigeration & Mechanical Room Heaters	Replace electric space heaters and electric pipe tape with energy efficient gas radiant heating units. More efficient heating is needed to avoid pipes and machinery freezing in cold weather.	2.3 KW 2700 kwh/yr	Gas radiant heaters are 30 – 40% more efficient than electric.	\$475.00 PER YEAR	\$3,500.00 for each room = \$7000 total.

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Refrigerant Replace-ment	The ice making refrigerant is currently R22 and needs to be upgraded as R22 is not environmentally friendly. While no quote for this is currently available, we have been told this will be somewhere between \$3000 - \$5000.	N/A		N/A	\$5,000.00
Replace Hot Water Tank	Replacing the current 40-gallon hot water tank with an “on-demand” system that is much more energy efficient. Very little hot water is needed for ice maintenance so constantly heating 40 gallons throughout the season is not an efficient way of heating the water needed.	1.5 KW 1800 kwh/yr	30 – 35% more efficient than current system	\$260.00 PER YEAR	\$2,200.00
Wall construction & insulation	The metal walls of the rink were insulated with straw batts when the rink was built in 1957. These straw batts are beginning to deteriorate and no longer provide the insulation and structural value they were originally designed for. The club is looking to replace these over a 5-year period. The price is for one of the long walls in the rink proper, but 3 of the 4 rink walls will need to be completed.		Energy savings of over 20% should be attainable.	\$1,100.00 PER YEAR	\$71,000 for the south-west wall.

If you have any questions regarding the info and/or projects above, please don't hesitate to contact me. I will do everything possible to obtain the required information in a timely manner.

Sincerely,

Kristi

Kristi Denby
Williams Lake Curling Club
Grant Writer

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