

MINUTES

Trustee Meeting – Strategic Priorities Fund 12:00 pm April 7, 2022 SSID storage shed

Present:

Trustee Chair Bryan Miles, Trustee John Revitt, Trustee Emer Dubois, administrator Janine Reimer, and consultant Neil McLean.

Neil said that a solar installation needed to provide 100 percent of SSID's power use would be a very large, but that a smaller system of 24 panels would provide more than 60 percent of power requirements in the peak month of July, which currently requires about 8 hours of generator runtime, or 40kWh for the 5HP pumps. August requires about 5-6 hours. The battery installment would be a 48-volt system costing less than \$8000, for 2 lithium batteries, with a longer life than lead-acid batteries, and chargeable/dischargeable to full capacity.

Neil said some alder trees would have to be removed. There was discussion of the surrounding alders in regard to their health, appeal, danger, and exchange for solar energy (carbon offset).

Neil said that the solar panels could be mounted on the storage shed roof if the roof were strengthened, and would require that the area be longer than the roof is now by 6 feet.

It was discussed that some aspects of the new structure might or might not be covered by the grant fund, so if necessary would be covered by SSID reserves.

Neil summarized his rough budget as batteries \$5,000, inverter \$5,000, controllers \$1,000 each x 2. All components including the solar panels and labour would be about \$45,000. Neil said the interior components would take up a small amount of interior space, which would need to be insulated and vapor-barriered.

There was discussion as to how the solar system would engage with the existing Thomson panel. Neil said there wouldn't have to be any significant changes. The inverter would produce 3-phase output to pumps as needed.

It was discussed that perhaps there should be consideration of over-subscribing the solar power, for unforeseen additional power needs.

There was also suggestion that the tank farm be the solar location, rather than the well lot, due to the amount of sunlight at the tank farm. Neil said that the infrastructure costs would be higher, and the buried wiring from that lot to the well lot would be vulnerable to damage.

There was discussion of the optimum incline of the roof for capturing sunlight. Neil said he would supply calculations of roof pitch affect on solar gain. He said that cloudy days in winter will provide zero power, so the generators will have to run during the 4 darkest months. Even so, SSID's savings per year with solar would be up to \$5,000, if diesel remains at \$2 per litre.

Additional potential costs were mentioned, including an electrical budget for the structure, a bathroom, a meeting space, and enough room to house all the current equipment and supplies in the storage shed, assuming the old storage shed would be deconstructed.

Neil suggested that the per-square-foot rate might be closer to \$500 after all things considered, such as engineering or design fees, as examples.

There was discussion of assigning electricians for the work. Neil said SSID should assemble a comprehensive list of what we want, so that we can engage the appropriate person(s).

The a	Related expenses
The a	Division of labour
	s discussed that the solar project should be incorporated into the asset management plan to its viabilityadministrator to provide asset management scenario for solar system
8(a) I THAT	Motions Motion T SSID pursue a Strategic Priorities Fund grant for the purpose of procuring a solar system Moved E.Dubois, 2nd J.Revitt. Carried.
THÁT a sola	Motion If the Trustees engage Neil McLean to provide budget figures for the components and labour of ar system appropriate to SSID's energy needs, for consideration at the Trustee Meeting 10am Apr 25
Chair	B.Miles Miles showed the group the space possibly suitable to a new structure that would provide ort to the solar panels. Discussion.
10. N	Next Meetings Admin/Finance on April 19; Operations on April 21; Finance on April 25.
11. <i>F</i>	AdjournmentMoved B.Miles.