

Solar Pump proposal Burrandong, Bowl, Outback.

Follow up to community meeting:

There seems to be general agreement that we should go ahead with a solar pump. There are approximately 26 users of the communal water supply. Cost of the system would be about \$50 each.

In order to proceed with this I suggest that we ask for an advance of \$1500 from the board of directors. I think that is within the rules of the community since the water supply affects so many people and has been causing some annoyance and disputes.

The \$50 would hopefully be recovered by voluntary payment from the majority of users.

I have selected what I believe is a good choice of equipment to do the job.

If anyone wishes to propose a different set-up then please submit that for consideration within the next 7 days otherwise we will probably go ahead with the proposed system.

Please note that the reason I have chosen a diaphragm pump over a centrifugal pump is that it is more efficient at pumping water uphill and it cuts off automatically when the float valve on the tank rises. A centrifugal pump would require wiring from a tank level switch back to the pump which is an added complication.

I have an electronic flowmeter that I can put in the line up to the tank to assess how well it is performing

In the unlikely event that I have made the wrong choice of equipment then it can be resold to a community member for their own use or else listed on ebay.

Kevin has suggested that we use 2 inch water pipe instead of 1 inch.

Although I believe that 1 inch would be perfectly adequate for the "slow and steady" flow of a solar pump nonetheless the 2 inch is more robust and would future proof the system.

This system would on average half fill the tank each day.

More solar pumps of similar style can be added in parallel if this is still not keeping up with demand.

Also a petrol pump could be used on the same line in case of emergency.

Because not everybody is a regular visitor to the Goolawah website I have asked for this letter together with the technical details to be sent out to all water users.

Please feel free to comment on the website or to send me an email directly

Thanks

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