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**Kaber
Village
Hall**

A discussion on apparent heating costs

We have, over the last few weeks, been monitoring our electricity usage and given the data in the attached spreadsheet we can draw some initial conclusions about heating costs for the hall – and from this suggest an approach (and apparent costs) to running the Hall.

Current Situation

We have three forms of heaters in the hall (but not all are working, as we know).

Tubular Heaters in the Loos

These are just to prevent freezing and damage to the pipework. We have three temporarily in place of (40W, 60W and 120W). These need to be properly fitted (with fixed wiring and guards) to comply with building regulations. They have thermostats fitted and are currently set in “frost-stat mode”.

They appear to cost around £15/week if they ran non-stop, but our best guess from the numbers is that they actually have been on about 30% (about £5/week). This cost will go up and down depending on the weather.

We probably need to consider putting something similar in the Kitchen, we may not need to hardwire these in – a question for the spark.

Storage Heaters

These are probably best used to just “keep the chill off the building” and to reduce the damp. They run on Economy 7 (unless you turn up the “boost” when they start using full price electricity – not a good plan).

We have run them for a week at “full blast” (5 on the input control) and they seem to use about £100/week.

We have run them at low (2 on the input control) at this level they “keep the chill off” and seem to sustain the building at about 9-degrees. Set this way they seem to use about £15/week.

The Gas Heater

This is designed to quite quickly bring the temperature up in the hall for a meeting or event. This is disconnected. Looking at the documentation this is equivalent to 3 or 4 3Kw fan heaters.

Based on the idea that we replace the gas tank with portable 47Kg bottles these will cost about £1:80/hr while it is working (so about £5:50 for an evening or £7:50 for an afternoon). (based on £100/bottle).

We estimate that a 47Kg bottle would last 55hrs (100hrs for a switched pair.)

Other costs

- We will need to pay to have the old gas tank removed and small bottles installed - £200+VAT
- We might want to install a steel cage around the bottles – we can make this (say £100 max)
- The electricity has a standing charge of £43:59 a month. (think £10/week or £1:50/day)

Typical Net Event Costs

- We have a base operating cost for heating and lighting the hall of about £30 a week (£10 standing charge + £15 storage heaters + £5 loo heaters)
- An evening event (7pm – 9:30pm + 30mins pre-heating) would cost around £5:50 with gas
- A similar evening event using fan heaters and turning the storage heaters up for one night would cost about £28.
- One might feel that on an average of one-event-per-week, we should add £10 to these charges to cover the standing charge making a charge out price of **£15:50 a night** when we have gas or **£38:00 a night** while we are using electrical heating.

Other stuff

- We should replace the incandescent bulbs with LED ones.
- We need to think about heating in the kitchen (or leave the door open)
- Curtains in the kitchen, and thicker ones in the hall might be good
- ALL THE SUMS ARE SUBJECT TO SOME ERRORS!!!