

SUNTAT Appendix 4

Energy monitoring framework - (A) Recording

Adapted from Spenceley, A., Relly, P., Keyser, H., Warneant, P., McKenzie, M., Mataboge, A., Norton, P., Mahlangu, S., and Seif, J. (2002) Responsible Tourism Manual for South Africa, Department for Environmental Affairs and Tourism

NOTE: Amounts here are presented in Rands currency - adapt the currency as relevant to the country in which the enterprise is situated, or utilise \$, £ or Euros where international comparisons are required.

KEY

	Recorded energy information (from electricity bills, meters etc)
	Enterprise information (no. beds, occupancies, no. lights etc)
	Benchmarks (calculated figures)

ENERGY RECORDING

Example 1: Electricity bills for the enterprise						Select which benchmarks you want to use for your enterprise - which is easy for you to understand					
Date	Location	Electricity cost (From bill)	Monthly consumption (from bill) in kWh	Monthly no. bed nights for enterprise	Monthly occupancy recorded	Monthly consumption per bed	Monthly electricity cost per bed	Monthly consumption per bednight available	Monthly electricity cost per bed night available	Consumption per occupied bednight	Monthly cost per occupied bednight
		A	B	C	D	Benchmark 1	Benchmark 2	Benchmark 3	Benchmark 4	Benchmark 5	Benchmark 6
						<i>Assuming: R0.3344 cost per kWh - number may vary, but will be denoted on bills</i>					
1-Dec-00	Honey Badger Lodge	R 8,828.16	26400	= 24 beds x 31 days = 744	82%	= B / 24 beds 26400 / 24 1100 kWh	= A / 24 beds = R8828.16 / 24 = R367.84	= B / C = 26400 / 744 = 35.4 kWh	= A / C = R8828.16 / 744 = R11.87	= B / (C x D) = 26400 / (744 x 82%) = 43.3 kWh	= A / (C x D) = R8828.15 / (744 x 82%) = R14.47
1-Jan-01	Honey Badger Lodge	R 8,789.70	26285	672	80%	1095.2	R 366.24	39.1	R 13.08	48.9	R 16.35
1-Feb-01	Honey Badger Lodge	R 8,744.56	26150	744	75%	1089.6	R 364.36	35.1	R 11.75	46.9	R 15.67
1-Mar-01	Honey Badger Lodge	R 8,644.24	25850	720	73%	1077.1	R 360.18	35.9	R 12.01	49.2	R 16.45
1-Apr-01	Honey Badger Lodge	R 8,594.08	25700	744	70%	1070.8	R 358.09	34.5	R 11.55	49.3	R 16.50
1-May-01	Honey Badger Lodge	R 8,360.00	25000	720	65%	1041.7	R 348.33	34.7	R 11.61	53.4	R 17.86
1-Jun-01	Honey Badger Lodge	R 8,293.12	24800	744	62%	1033.3	R 345.55	33.3	R 11.15	53.8	R 17.98
1-Jul-01	Honey Badger Lodge	R 8,410.16	25150	744	64%	1047.9	R 350.42	33.8	R 11.30	52.8	R 17.66
1-Aug-01	Honey Badger Lodge	R 8,677.68	25950	720	70%	1081.3	R 361.57	36.0	R 12.05	51.5	R 17.22
1-Sep-01	Honey Badger Lodge	R 8,694.40	26000	744	71%	1083.3	R 362.27	34.9	R 11.69	49.2	R 16.46
1-Oct-01	Honey Badger Lodge	R 8,744.56	26150	720	76%	1089.6	R 364.36	36.3	R 12.15	47.8	R 15.98
1-Nov-01	Honey Badger Lodge	R 8,794.72	26300	744	80%	1095.8	R 366.45	35.3	R 11.82	44.2	R 14.78
1-Dec-01	Honey Badger Lodge	R 8,844.88	26450	744	82%	1102.1	R 368.54	35.6	R 11.89	43.4	R 14.50

* Remember to take care when using Watts and kiloWatts. 1 kiloWatt = 1000 Watts

** If you have more than one point of billing, complete this table for each one or to simplify, summarise all readings to one table