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#### Standards & Labelling Programme-Electricity Saving Potential Priority

I have the following points for consideration :

1. I feel that in the calculation for agricultural pumps, hours of operations taken as 1500 hrs is too high. 2-3 years ago, we had carried out some work for PCRA , related to agricultural pump-sets, and had recorded operational hours varying from 600 Hrs to 1200 Hrs per year only.
2. The potential efficiency improvement shown for agricultural pump-sets perhaps includes improvements in system design like foot valve, location of pump, suction and delivery pipe diameters and material of pipes etc. The improvement in efficiency of pumps and motors alone will not be more than 15 to 20 %
3. Television is missing from the list. However ,as per the “Census of India 2001”, Series –1 , a total of 60,649,623 i.e. 31.6 % households in India were having television. TV is one of the most frequently used items in households. Assuming average yearly consumption of 100 kWh per household, annual electricity consumption by TVs works out to about 6000 GWh. for the whole country. Thus it is important that TV are also considered for Labelling purposes.
4. Quoting again from the “Census of India 2001”, Series –1 , a total of 107,209,054 i.e. 55.8 % households were electrified in India. Also, based on my last 10 years of field experience in promoting solar water heaters and also verified by many manufacturers of solar water heaters, there were about 30 million electric geysers in use in India. Out of these, about 1 million geysers have been replaced with

solar water heaters (or avoided use of electric geysers).The estimated electricity consumption by these geysers is about 29,000 GWh. ( Figure under column 2 )

5. “Census of India 2001”, Series –1 , gives figures of nos of households by number of dwelling rooms as per the following :

-	Total number of households .....	191,963,935 ( 100 %)
-	No exclusive rooms .....	5,972,416 (3.1%)
-	One room .....	73,856,117 (38.5%)
-	Two rooms .....	57,571,314 (30.0%)
-	Three rooms .....	27,541,899 (7.5.5%)
-	Five rooms .....	5,565,687 (2.9 %)
-	Six rooms and above .....	7,094,545 (3.7 %)

The above data is also given for individual states. This can be used in combination with other relevant data given in the Census Reports to estimate the no of ceiling fans and tube lights etc and then electricity consumption can be estimated separately for each state and added.

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