

1	Estimate Cost
2	Annual energy savings due to loss reduction
3	Cost of energy/unit
4	Cost of Annual energy savings due to loss reduction (2×3)
5	Proposed capacity
6	Load Growth
7	Life of the project
8	Interest rate
9	Discount factor
10	Present value of Annual Savings (due to loss reduction over a project period of 30 Years) = (4×9)
11	Savings in generated power in KW Units saved = 2 $\text{LLF} \times 8760 = 0.132 \times 8760$
12	Financial benefit due to savings in generated power at Rs.50000/KW at 12% interest P.A. $(11) \times 50000 \times 12$ 100
13	Additional Energy Available for sale
14	Financial benefit by sale of additional energy for 30 years
15	Benefit due to energy saved and savings in generation and sale of additional Energy ($10+12+14$)
16	Annual O&M charges @ 1% of the estimate cost
17	Present value of Annual O&M expenses over a projected period of 30 years (16×9)
18	Total investment + present value of O&M expenses ($+17$)
19	Pay - back-period = Estimated cost/Total benefit ($1/15$)
20	Benefit to cost ($15/18$)

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