

Barriers for energy Efficiency

Title:

Use of thumb rules, short cuts, assumptions and approximation in analysis and report preparation

Category:

Analysis and report preparation

Summary:

Many audit consultants prefer to thumb rules, short cuts, assumptions and approximations during the analysis and findings of energy audit report preparation will lead to inappropriate estimation energy savings.

Back ground:

The detailed analysis of any energy audit requires thorough analysis and application of detailed evaluation using appropriate techniques. This will result in effective exploration of hidden opportunities for energy savings.

For example: Efficiency evaluation of boiler. The evaluation carried out under the guidelines of PTC test codes / BIS standards have huge variation when the efficiency evaluated by direct method. Evaluation under PTC/BIS methods is very accurate and gives the actual boiler efficiency. While the direct method of efficiency evaluation is a very approximate method.

It is not only in the boiler case, there are thousands of the examples where short cuts and thumb rules, and assumptions are used very frequently during the analysis and findings. This is resulting in very poor analysis of the data and there by results in very poor out put in terms of identifying the energy conservation proposals and subjecting those for techno-economic evaluation. In many times these have resulted in evolving of inappropriate measures

Message learnt:

These short cuts /thumb rules are useful for during the preliminary energy audit report preparation where the objective is to see the possibility for detailed study.