

Barriers for energy Efficiency

Title:

Failure of suggestions due to lack of expertise while implementation

Category:

Implementation assistance

Summary:

Failure of the suggestion due to lack of expertise in implementation will leave a bad remark on auditors where implementation was carried out the external expertise.

Back ground:

In detailed energy audit report when a suggestion is given, there will be hints or precautions to be taken by the plant while implementing such measures. In actual practice the plant personnel will go little ahead and does the implementation without knowing the consequences.

In one process plant there was one pump operating at the 70-80% of the rated capacity. In order to obtain the required flow the valves were throttled. During the field study of the audit it was found that there is potential in energy saving by trimming the impeller according to the requirement since there was no variation in the flow.

The consultants gave the required diameter after evaluation accordingly the impeller was trimmed and plant has seen the saving of 10%. They were exited.

In the same plant there was one more pump operating at 50% of the rated capacity. In this case consultant suggested that to go for a new pump. But the plant personnel trimmed this impeller according to the ratio of the diameter. After the reinstalling, neither there was required head nor the flow. Immediately the plant had to replace the pump itself since the pump company is not manufacturing the earlier impeller.

During the replacement plant has gone for original sizing (Instead of resizing suggested by the consultant) with the fear it the pump fails again, they may get the bad remark,

Message learnt:

In most of the contracts of energy audit services the role of energy efficiency consultant will end up with the suggestion of measure but not involves him during the implementation stages. This non-involvement in some of the cases resulting in failures of measures due to many reasons. These failures could have been avoided if the consultant was associated during the implementation stage of the measures.