

## Chapter 8

### Conclusion and Suggestion

#### 8.1 Conclusion

8.1.1 The average consumed time of 191 report before implemented the standard format from 1996 to 1998 by the first reviewer was 4 days per one report, by the second reviewer was 7.4 days per one report, and total was 11 days

8.1.2 The mistake from the reviewing of the 50 energy audit reports in the past was collected and showed the frequency of the mistake in each part for doing the Pareto Analysis. From Pareto analysis of the mistake, the major mistakes had the frequency up to 32 marks. There were 9 major mistakes.

- Mistake number 18 and 26 was the wrong total cost of investment.
- Mistake number 25 was the wrong total saving calculation.
- Mistake number 59 was the wrong proportion of the energy in each system.
- Mistake number 122 and 124 was the wrong scope of the labor cost.
- Mistake number 123, 125, and 126 was the wrong scope of the material cost.

From fishbone diagram, it was found that the mistakes caused from human error and not enough or not clear of information. So put the correction concepts for major

mistake into the standard format of the energy audit report. It also included the correction concept for correcting the minor problem. Moreover used Microsoft Excel for preparing the energy conservation plan. The standard format was confirmed by Pugh Matrix that it is better than the report in the past.

8.1.3 The standard format was checked to the term of reference. It means that the standard format is set directly to the requirement. That is to say the main contents of the report are maintained.

8.1.5 The Energy Conservation Center of Thailand implemented the standard format of the energy audit report to 12 auditors who make the energy audit report. In the same time 6 revisers were used for reviewing the energy audit report from auditor. After the Energy Conservation Center of Thailand implements the standard format with checkpoint box to the 12 auditors, 70 building, and 6 reviewer. The consumed time for each report revision of each reviser was recorded. The average consumed time for first revising is 4.8 days. The average consumed time for second reviewing is 3.1 days. So the total average consumed time for report revising is 7.3 days.

8.1.6 Compared the consumed time for reviewing and mistakes before and after implementing the standard format. It showed that the time reduced from 11.0 days to 7.3 days and the mistakes at every part were reduced.

## 8.2 Suggestion

- The incomplete of the consumed time in the table 3-1 and table 7-1 both before and after implementing the standard format should be paid attention in the time.
- The Pareto analysis should be done continuously.
- All of standard format may be written in the computer language to make a software program for all parts of the report.