



VIET TRI PAPER COMPANY

Repair Leaks and Maintain Steam Traps

SUMMARY OF THE OPTION

Viet Tri Paper Company was established in 1961 with the assistance of the Chinese government. It is located in Phu Tho province, Vietnam. The company has six boilers for its two production lines: three coal-fired boilers (chain grade boilers) and three oil-fired boilers, with a total design capacity of 48 tons per hour (TPH). The three coal-fired boilers were manufactured in the 60s, with a design capacity of 12 TPH. They provide the steam necessary for the older production line of the company.

The assessment revealed important energy losses in the old production line. Besides the loss of fuel due to the low thermal efficiency of the coal boilers (45%), the steam leaks and malfunctioning steam traps in steam piping are a significant source of wasted energy. It was observed that almost all steam traps were not functioning and needed to be replaced or repaired. As with steam traps, the distribution pipes themselves often had leaks. The Team also identified leakage of steam from some of the valves and inefficient use of steam. A total of nine steam leaks were found out in the steam pipelines. In an effort to conserve steam energy, the Team recommended fixing steam leaks and replacing steam traps. An initial investment of US \$ 718 was spent on these measures. The remaining traps will be replaced gradually in the future. The exact savings are unknown. However, the Team estimated a payback of less than one year for these options.

KEY WORDS

Pulp and Paper, Vietnam, Steam distribution and utilization, Steam traps, Leaks

FOR MORE INFORMATION

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