



## **THAI KRAFT PAPER INDUSTRY COMPANY LIMITED**

### **Repair or replace desuperheating station valves to reduce the amount of steam condensate discharged**

#### **SUMMARY OF THE OPTION**

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Thai Kraft Paper Industry Company Limited (TKIC) was founded in 1991, is located in Kanchanaburi in Thailand and produces more than 550,000 ton of paper per year.

It was observed that a high quantity of condensate was being discharged from steam traps into the main steam headers leaving the boiler area. The steam should be superheated and therefore, have minimal condensate discharge. This observation implied that desuperheating station valves must either be overhauled or replaced.

During the maintenance period following the energy assessment, staff fixed this problem by shutting down the boiler and replacing faulty valves. Investment costs were US\$ 400, but annual cost savings and a payback period were not provided. Calculated results showed that each year 104 tons of CO<sub>2</sub> are reduced, resulting from a reduction of 56 tons of coal and lignite.

#### **KEY WORDS**

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Pulp and paper, Thailand, Steam distribution and utilization, Superheated steam

#### **FOR MORE INFORMATION**

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