



ASIAN CHEMICAL COMPANY LIMITED

Steam Leak Survey and Repair of Leaking Joints and Pipes

SUMMARY OF THE OPTION

Asian Chemical Co Ltd is located in Bangpakong in Thailand and produces 6,000 tons per year of various copper solution products, namely copper sulfate, copper oxide, copper chloride and etching solution.

The company uses steam as the source of heat in the whole process. The Team found three major leakages in the pipeline/equipment connections in the steam distribution system. Total losses from such leakages were estimated at about 2.5 kg steam per hour via plume's lengths.

The costs of spare parts and installation of new three joints/pipelines amounted to US\$ 33. The annual fuel cost saving (i.e. excluding maintenance and operating cost) was US\$ 271 (1,353 liters fuel oil @ US\$ 0.02/l) with a 44 days payback period.

The environmental benefits include:

- Annual steam savings: 21.6 ton steam (0.0025 ton steam loss per hour X 8640 hours/yr)
- Fuel oil savings were 1,353 liters per year {(135 liters fuel oil consumer per hour / 2.155 tons steam generated per hour) X 21.6 ton steam}
- GHG emission reduction was more than 4 tCO₂ per year (1,353 liter fuel oil X 0.003 tCO₂/l)

KEY WORDS

Chemicals, Thailand, Steam Distribution & Utilization, Leaks

FOR MORE INFORMATION

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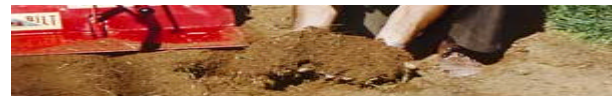
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