

USD 47,700 saved annually through a condensate heat recovery system for a confectionery MNC



Thailand



Food

Problem

A confectionery MNC in Bangkok, Thailand was facing losses due to draining of high temperature condensate. As the plant was purchasing steam from outside instead of generating it in-house, they were unable to find use for the hot condensate. Hence, while they were recovering condensate to the boiler house (which is no longer in use) it was then drained. This draining of 118 Tonnes (260K Pounds) per day of high-temperature condensate was resulting in losses.

Solution

Forbes Marshall conducted an audit and engineered the steam system design for the entire plant. Recommendations were implemented in phases. To stop the draining of high-temperature condensate, Forbes Marshall recommended and implemented a Condensate Heat Recovery System (CHRS) for preheating the makeup water to the hot water system.



Benefits delivered

Heat savings

270,000 Kcal (1 million BTU) per hour

Steam savings

530 Kilograms (1,168 Pounds) per hour

Annual monetary savings

USD 47,700 (~THB 1,528,880 *converted based on exchange rate)

