

MYR 59,643 (~USD 14,130) saved through condensate and flash steam recovery for a palm oil refinery



Malaysia



Oleochemical



Food

Problem

A palm oil refinery in Johor, Malaysia, was facing the following issues with its condensate and steam system in the Refinery Complex:

- Condensate was being released to the monsoon drain.
- Flash steam was being vented.
- Feedwater temperature was low.

Solution

Forbes Marshall recommended and implemented the following thermal energy conservation solutions for the refinery complex:

- A FlashJet™ Pump (FJP) was installed to recover condensate and flash steam to the feedwater tank.
- A deaerator head was installed on the feedwater tank to enable the proper mixing of condensate, flash steam and makeup water.

Before



After



Benefits delivered

Condensate recovery	increased from 0 to 422 Kilograms/hour (930.3 Pounds/hour)
Flash steam recovery	increased from 0 to 27 Kilograms/hour (59.5 Pounds/hour)
Annual monetary savings	MYR 59,643 (~USD 14,135 *converted based on exchange rate)

