

PROJECT DESCRIPTION

Blow Heat Recovery System (BHRS)
EMCO
Pont-Rouge, QC

PROJECT SCOPE

The project consisted in blow heat recovery of waste steam coming from the chip refiners.

Mesar / Environair was mandated to provide engineering of the new BHRS at the EMCO mill at Pont Rouge, QC.

At Pont-Rouge mill, the waste steam source going to the BHRS was :

- low pressure vapor (LVP) from the chip refiners



The waste steam is transferred from the LVP stack to the new direct contact condenser to recover heat using the mill white water.

Other equipment like process white water pump and controls were specified to insure a safe system design.

RESULTS

The system was installed in summer 2003 as scheduled. Performance trials in the weeks after start-up showed that the BHRS system consistently operates, and the mill has decreased its energy requirement to reheat white water going to the paper mill.

The overall energy recovered is 14 MMBTU/h. Since the start-up, the BHRS system runs flawlessly.