

Issue # 18

Lot of Companies/ manufacturers are carrying out R & D activities to develop new technology on energy saving for different equipments. While adopting these technology, one should carefully, review all technical aspects along with the commercial viability, before implementing in their plants.

One company 'X' plans to introduce a technology called "CHX".

The new technology CHX is used for recovering heat from the waste flue gases. The claim is that this is a proven technology in the United States for over 2 decades.

CHX is basically a device in the form of shell and tube exchanger to recover latent and sensible heat below the dew point temperature. This is an extraordinary energy conservation equipment which is not manufactured in India.

CHX employs a specially extruded **TEFLON** covering over the tubes as well as on the interior of the shell which prevents corrosion when the hot gases condense below the dew point temperature during heat transfer process.

The most common application for a CHX condensing heat exchangers is the recovery of waste heat to preheat boiler make-up water. Preheating make-up water can increase boiler efficiency by 35% or more. The heat recovered by a CHX condensing heat exchanger can offset much of the extraction steam required by a low-pressure feedwater heater or deaerator. This offset will reduce fuel consumption while maintaining a fixed net steam output, or when required, it can increase the net steam output by maintaining the same fixed fuel consumption.

To read more details about this technology and application ([click here](#))

We are asking our readers about the following:

1. [Is this technology feasible to implement in India, if yes, how can we use this](#)
2. [Do you already know about this technology and have some practical experience on this?](#)

Send your recommendations, about this technology, including risk factors, pricing, Indian conditions influencing the project (temperature, fuel) and technical practicality of the project in India.