



They are used to remove the heat of T_{in} in a process called heat recovery through air preheaters. In a similar way, the air supplied to the boiler for use in combustion must be preheated in the heat recovery air preheaters.

Heat recovery

The heat recovery air preheaters in the coal-fired power plants convert the heat of the exhaust gases from the boiler into preheating the combustion air entering the boiler to increase efficiency.



Pressure



All 2004 generators failed because:

Exp. Pressure (Fracture Material)
Pressure (tube burst)

- Fractured on full pressure of stability
- Fractured when tube rupture will not withstand full pressure load