

THE ECOTUBE® SYSTEM

An innovative means of optimising combustion processes!

A technique that generates unique economic advantages in terms of improved performance, increased load, reduced emissions, and reduced operating costs.

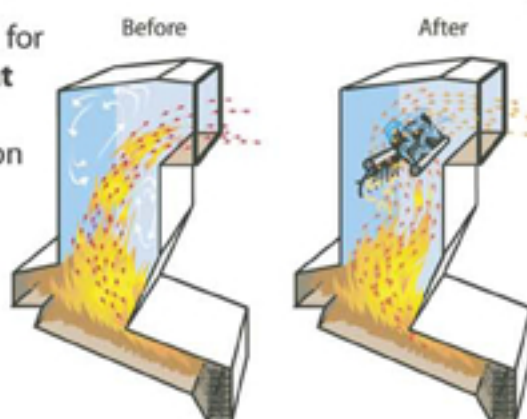


INCREASED WASTE THROUGHPUT

The Ecotubes Retractable lances equipped with nozzles are strategically positioned within the furnace enabling the injected agents to create a radically improved mixing of the combustion products, resulting in destruction of laminar gas columns and the formation of completely mixed turbulent flow patterns.

INCREASED THERMAL EFFICIENCY

ECOTUBE® – the Key Tool for
Increased Waste Throughput
and Overall Combustion
Improvement & NO_x Reduction
in WTE Units



ECOMB AB
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ECOTUBE® SYSTEM ADVANTAGES

- Engineered for retrofit applications
- Reduced NO_x, CO, SO_x, HCl and particles in the flue gas
- Increased load capacity
- Increased thermal efficiency
- Reduced boiler wall metal corrosion
- Reduced erosion of boiler convection surfaces
- Lower plant operating costs

Four unique basic packages designed for every application:

- A** Ecotube assemblies
- B** Control system
- C** Air supply system
- D** Cooling water system

A
Each Ecotube is fitted with:
Transmission drive to insert and retract the Ecotube.
Cleaning mechanism for automatic removal of furnace deposits from the Ecotube surface.

B
A plc based monitor and control system enables unmanned automatic operation which is relayed to the regular control room for alarm and monitor functions.

C
A dedicated high pressure process air system comprising skid mounted fan, ductwork and adjustable Ecotube distributed nozzles provides the increased flue gas turbulence and mixing within the furnace.

D
The cooling water system which enables the Ecotubes to operate continuously within the furnace comprises a pump, a heat exchanger and auxiliary equipment. Extracted energy can be utilised for various purposes within the plant energy system.

REFERENCE INSTALLATIONS

The Ecotube® system is installed within plants in the waste to energy, paper/pulp, and utility sectors in Sweden, France, UK and USA. The UK installations have been in operation since 2000.



QUALITY - ISO 9001

ENVIRONMENT - ISO 14001

SAFETY - OHSAS 18002



PO BOX 80 • CALDER VALE ROAD
WAKEFIELD • UK • WF1 5YS

TEL: +44 (0)1924 780000
FAX: +44 (0)1924 201901

sales@tei.co.uk
www.tei.co.uk

TEI's integrated management system, IMS, is certified by LRQA for all 3 standards.

"Not only do we provide superior quality services but your contract will be completed to the highest safety standards"