



ENVIROPOL

AN ISO 45001:2018 CERTIFIED

AIR POLLUTION CONTROL EXPERTS



OUR CONTRIBUTION TO THE MOTHER NATURE “REDUCED OVER”

**30+ Million
Tonnes**

Particulate
Emissions

**400+ Million
Tonnes**

Gaseous
Emissions

www.enviropolengineers.in

COMPANY INTRODUCTION

Enviropol is a group of Technocrats who are involved in Designing, Manufacturing, Supplying, Erection and Commissioning of **Air Pollution Control Devices** and **Biomass Drying** through Boiler Flue Gas. Started in the year 2003 we have come a long way with more than **400+ Installations** spread over **30+ Countries** and marking our presence in the broad spectrum of industries and applications.

What we have started few years back has now become a revolution. ENviropol stands with the Vision of India at COP 15 and Glasgow Conference 2021 in Contributing to the reduction of Carbon footprints across Industries. We are continually improving ourselves through a dedicated R&D team to meet the present Norms of CPCB and remain future ready to follow European Standards.

VISION



Creating Sustainable and Healthier Environment for future generations.

MISSION



To control the emissions from the Industries and to protect our "Mother Nature" for our future generations by deploying most advanced innovative technologies

OUR PRODUCTS



- WET SCRUBBERS
- WESP (WET-ESP)
- BAG FILTER
- DUST AND FUME EXTRACTION
- EGB (ELECTRIFIED GRAVEL BED)
- ESP (ELECTROSTATIC PRECIPITATOR)
- FGD (FLUE GAS DESULPHURIZATION)

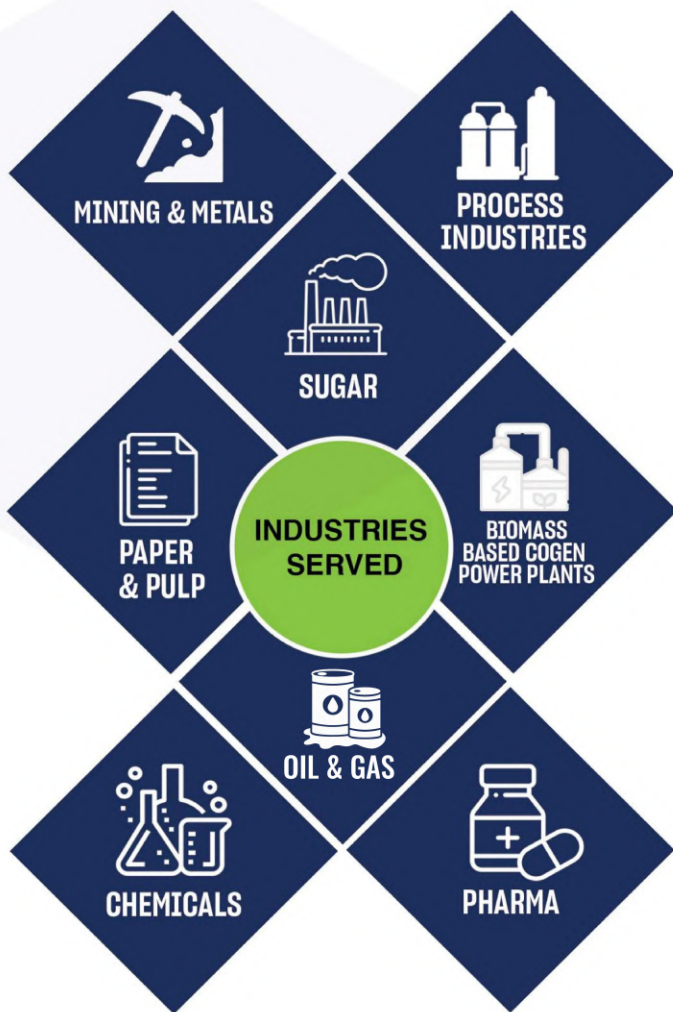


- BAGASSE / PITH / CHIPPER DRYER
- HYBRID DRYER
- BIOMASS DRYER
- CO-GEN POWER PROJECTS (EPC BASIS)
- WASTE TO ENERGY PLANT



ENVIROPOL'S JOURNEY





AWARDS

**INDUSTRY
EXCELLENCE
FOR 2020.**

**INNOVATIVE
PRODUCT OF
THE YEAR 2021.**



**“HYBRID BIOMASS DRYER”
CII AWARDED**

*“MOST INNOVATIVE ENERGY SAVING
PRODUCT”*

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WET SCRUBBER

HIGHLY ADVANCED, INNOVATIVE AND EFFICIENT TECHNOLOGY

MANUFACTURING RANGE

- ✓ Fixed Vane Scrubber
- ✓ High Energy Venturi Scrubber
- ✓ Packed Bed Scrubber
- ✓ Multi Jet Spray Scrubber
- ✓ Dynamic Scrubber
- ✓ Fluidized Bed Nye Tray
- ✓ Wet Scrubber Internals

GET EMISSION BELOW
50 mg/Nm³

APPLICATIONS

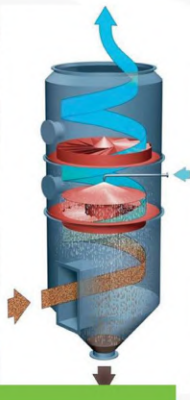
- ✓ Biomass Fired Boilers
- ✓ Chemical Applications
- ✓ Coal Fired Boilers
- ✓ Inorganic Fumes
- ✓ Volatile Organic Compounds
- ✓ Particulate Matter Control



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"Pollutants Are Inevitable But Pollution is Not"

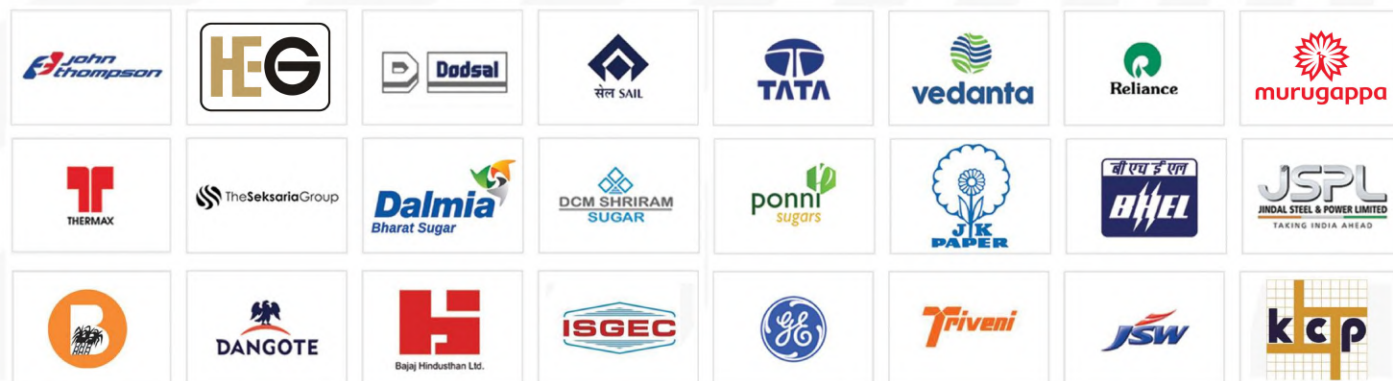




OUR USP

- ✓ Experience on Most Variants
- ✓ 350+ Installations Across India
- ✓ Upgradability To Remain Future Ready
- ✓ Installation on Largest Boiler Capacity 220TPH
- ✓ Hybrid Technologies for Better Efficiency $<50\text{mg}/\text{Nm}^3$
- ✓ Widest Spectrum of Wet Scrubbers
- ✓ Introduced FVS in India for the 1st time, which can run on high TSS

CLIENTELE



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A-50, Sector- 65 Industrial Area,
Phase-III NOIDA- 201307 (U.P.) INDIA



WET-ESP

WET ELECTROSTATIC PRECIPITATOR

ADVANCED TECHNOLOGY FOR ULTRA CLEAN GAS

MANUFACTURING RANGE

- ✓ Square Construction
- ✓ Round Construction
- ✓ Honeycomb/Circular/Concentric Electrodes

APPLICATIONS

- ✓ Sticky Dust
- ✓ Incinerators
- ✓ TAR Removal
- ✓ Flammable Dust
- ✓ Recovery Boilers
- ✓ Industrial Boilers
- ✓ High Resistivity Dust
- ✓ Blue Haze Abatement
- ✓ Ultra Fine Gas Cleaning
- ✓ Condensed Acid Aerosols
- ✓ Rice Husk and Solid fuel Fired Boilers

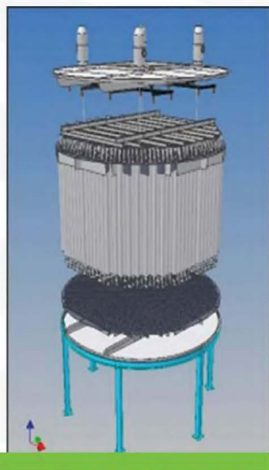
GET EMISSION BELOW
5 mg/Nm³



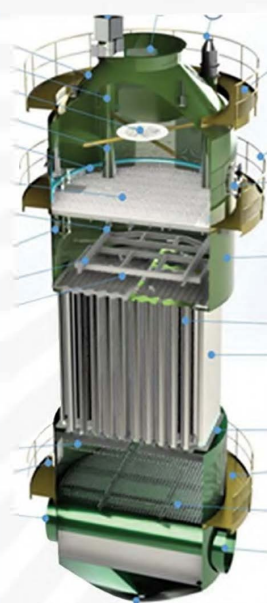
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1st
**Installation in
the World on
Chemical Recovery
Boiler in
Pulp & Paper Plant
< 10 mg/Nm³
Outlet Emission**



OUR USP

- ✓ Emissions Achieved <5mg/Nm³
- ✓ Good Experience in Smelters/Coke Ovens/Fe & Non Fe
- ✓ Technology Tie up with Swedish Company
- ✓ Competitive Pricing >90% Manufacturing in India
- ✓ World's 1st Installation in the Sugar Industry/Pioneered
- ✓ World 1st Installation on Chemical Recovery Boiler (Pulp & Paper) with Emission < 10 mg/Nm³

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BAG FILTER

FOR EFFECIENT DRY SEPARATION

MANUFACTURING RANGE

- ✓ Online Cleaning Bag Filter
- ✓ Offline Cleaning Bag Filter
- ✓ Cyclo Bag Filter (Cyclone+Bag Filter)

GET EMISSION BELOW
30 mg/Nm³

APPLICATIONS

- ✓ Dust Extractions
- ✓ Fume Extractions
- ✓ Spentwash Fired Boilers
- ✓ Product Recovery

ADVANTAGES

- ✓ Trouble Free Operation
- ✓ High Collection Efficiency
- ✓ Can Capture Ultra Fine Particulate
- ✓ Mechanized Down Stream
- ✓ Low Compressed Air Requirement



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ESP

ELECTROSTATIC PRECIPITATOR

MANUFACTURING RANGE

- ✓ VEP - Vertical ESP
- ✓ DRY & WET ESP

GET EMISSION BELOW
50 mg/Nm³

APPLICATIONS

- ✓ Dust Extractions
- ✓ Fume Extractions
- ✓ Spentwash Fired Boilers
- ✓ Process Industries

ADVANTAGES

- ✓ Highly Durable
- ✓ Less Pressure Drop
- ✓ Low Operating Cost
- ✓ Advance Rapping System
- ✓ Can Handle Large Volume of Gases



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EGB

ELECTRIFIED GRAVEL BED PRECIPITATOR
BEST SUITED TECHNOLOGY FOR STICKY AND
HYGROSCOPIC SUB-MICRONIC PARTICULATE MATTERS

MANUFACTURING RANGE

- ✓ Stand alone EGB
- ✓ MEPA (ESP+EGB)
- ✓ Cyclo EGB (Cyclone+EGB)

GET EMISSION BELOW
20 mg/Nm³

APPLICATIONS

- ✓ Incineration Boilers
- ✓ Wood Based Boilers
- ✓ Wood Fired Boilers
- ✓ Mustard Husk Fired Boilers
- ✓ Spentwash Fired Boilers
- ✓ Chemical Recovery Boilers
- ✓ Husk Fired Boilers
- ✓ Agro Waste Fired Boiler
- ✓ ESP Upgradation



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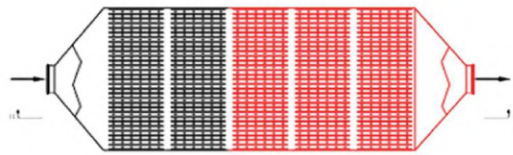
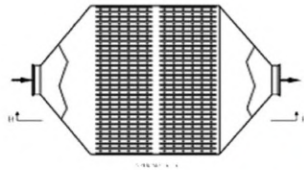
MEPA (ESP+EGB)

Maximum Efficiency Particulate Abatement

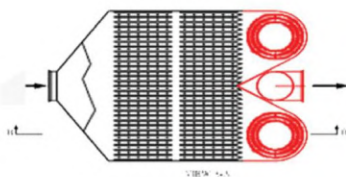


Upgrade Your Existing ESP/Cyclone with EGB

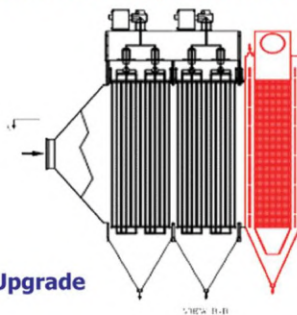
EGB can be integrated with Existing ESP/Cyclone to Capture Escaping Ultra-Fine Particulates



Option-1 : Conventional Upgradation of ESP



Option 2 : EGB Filter Upgrade



← SMALLER FOOTPRINTS

OUR USP

- ✓ Suitability with Agro Based Fuel Fired Boilers
- ✓ Enviropol Patented Technology for MEPA
- ✓ Collaboration with the US Innovator
- ✓ Worlds 1st Installation on Spent Wash Fired Boiler
- ✓ Manufacturing >95% within India
- ✓ Upgradability and Smaller foot print



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**THE MOST
INNOVATIVE
ENERGY SAVING
PRODUCT OF 2021**

Awarded By-



Confederation of Indian Industry

HYBRID BIOMASS DRYER

ENVIRO-FRIENDLY ENERGY SOLUTION FOR CAPTIVE POWER PLANTS

The Mill Biomass is used as dry scrubbing agent in the pre-dust collector to absorb the dust particulates. The partially cleaned flue gas is then made to pass through a top entry Wet ESP which can handle the moist gases (unlike Conventional Dry ESP) as a polishing filter to bring down the emissions well below 30mg/Nm³.

During the process of pre-dust collection, the waste heat from the Boiler flue Gas is recovered to evaporate moisture from the Biomass thereby increasing the GCV of Biomass by over 20%. This increases the Boiler efficiency and save

"Gaining While Greening"

GET EMISSION BELOW
30 mg/Nm³

MANUFACTURING RANGE

- ✓ Hybrid Model-A : Biomass Dryer+ WESP
- ✓ Hybrid Model-B : Biomass Dryer + WSS

APPLICATIONS

- ✓ Biomass Drying
- ✓ Cogen Power Plants



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BIOMASS DRYER

BIOMASS DRYING WITH WASTE HEAT RECOVERY FROM FLUE GAS

Particulars	Improvement(%)
Begasse Moisture Reduction	20-27
BAGASSE SAVING	06-10
Excess Air Reduction	20-30
Increase in Burnt Bagasse GCV	18-24
Increase in Thermal efficiency	09-12
Reduction in CO Concentration	80-90
Reduction in Particulate Matter	90-95

CLIENTELE



**Moisture
Reduction of
10-13 Units**

**ROI within
200-280
Working Days**



ADVANTAGES

- ✓ Waste Heat Recovery
- ✓ Enhanced Steam Generation
- ✓ Improved Boiler Efficiency
- ✓ Simplified Fly Ash Management



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FGD

FLUE GAS DESULFURIZATION

MOST WIDELY USED TECHNOLOGY FOR SOX CONTROL

MANUFACTURING RANGE

- ✓ Dry FGD
- ✓ Semi-Dry FGD
- ✓ Wet FGD (Lime/Caustic/Sea Water)

ADVANTAGES

- ✓ High SO_x Removal Efficiency (Over 95%)
- ✓ Multi-Pollutants Emission Control
- ✓ Upgradable To Meet Future Emission Norms
- ✓ Low Power Consumption
- ✓ Optimum Cost Of Operation



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FLUE GAS DESULFURIZATION

Dry and semi-dry flue gas desulfurization equipment includes a range of technologies in which SO_x reacts with limestone particles in a humid environment to form sulphite.

Broadly, dry and semi-dry FGD processes include furnace/duct sorbent injection using sodium/calcium-based reagent and the spray drier absorber (SDA) technology using slaked lime or limestone as reagent.



OUR USP

- ✓ In collaboration with Internationally acclaimed provider
- ✓ Focus on CPP up to 100MW
- ✓ Project experience for dual alkali based FGD
- ✓ Experience of over 5+ Projects
- ✓ Plastic waste incineration low cost solution for emission control

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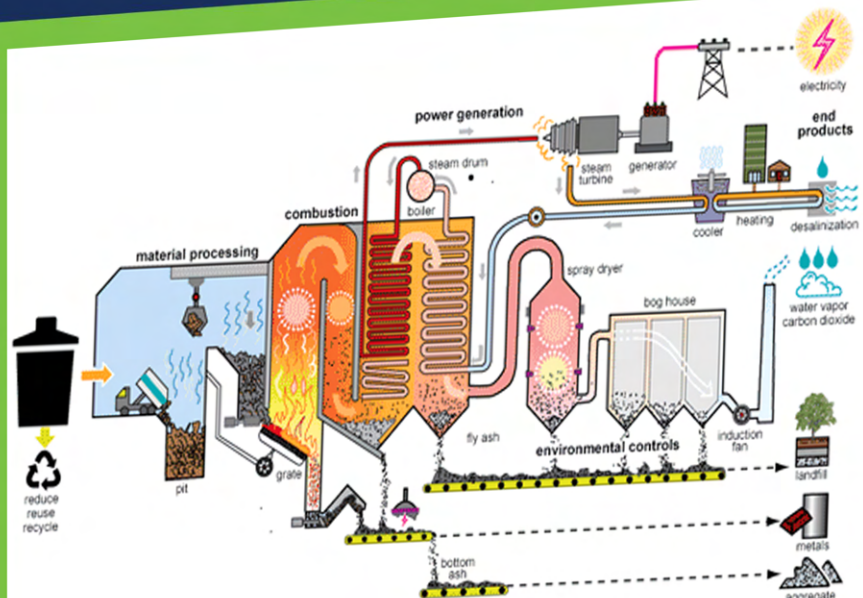
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WASTE TO ENERGY

(Flue gas treatment for Waste Incineration)

MANUFACTURING RANGE

- ✓ Dry & Semi Dry FGD
- ✓ Dry & Wet ESP
- ✓ Wet Scrubber

APPLICATIONS

- ✓ Dedusting
- ✓ Decarbonisation
- ✓ DeNox, DeSox, VOC
- ✓ Food Waste Treatment
- ✓ Hazardous Waste Furnace

ADVANTAGES

- ✓ Ultra clean gases
- ✓ GHG reduction
- ✓ Flexible customized and optimized solution for different working conditions
- ✓ Achieve the best efficiency through optimal design

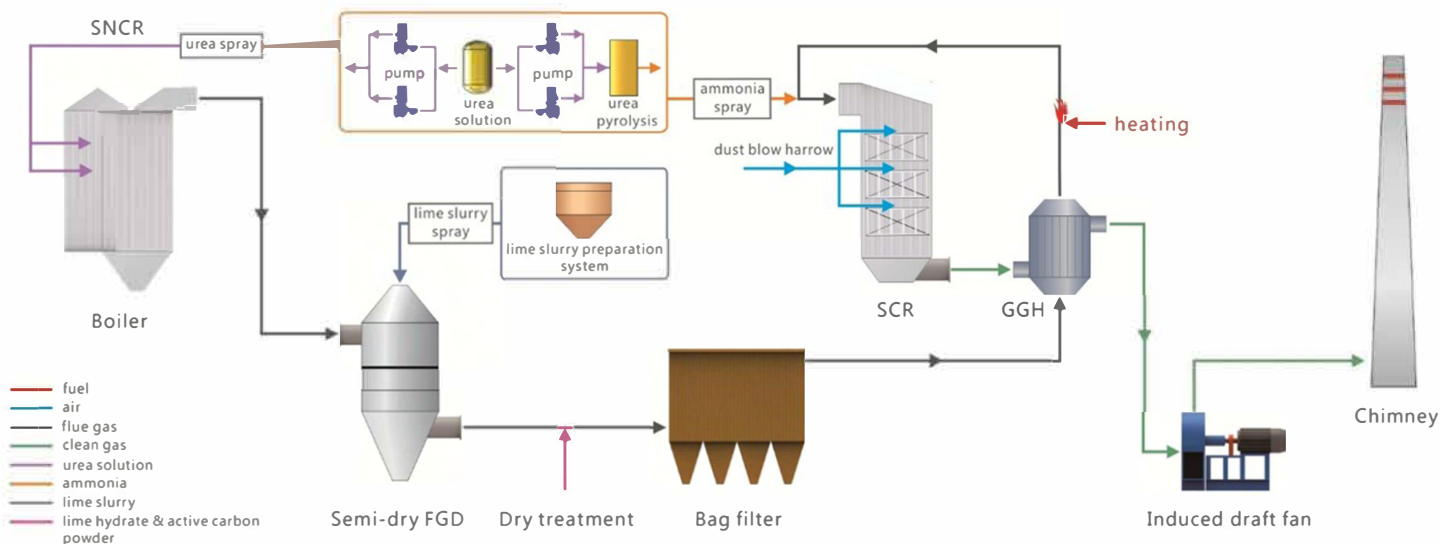


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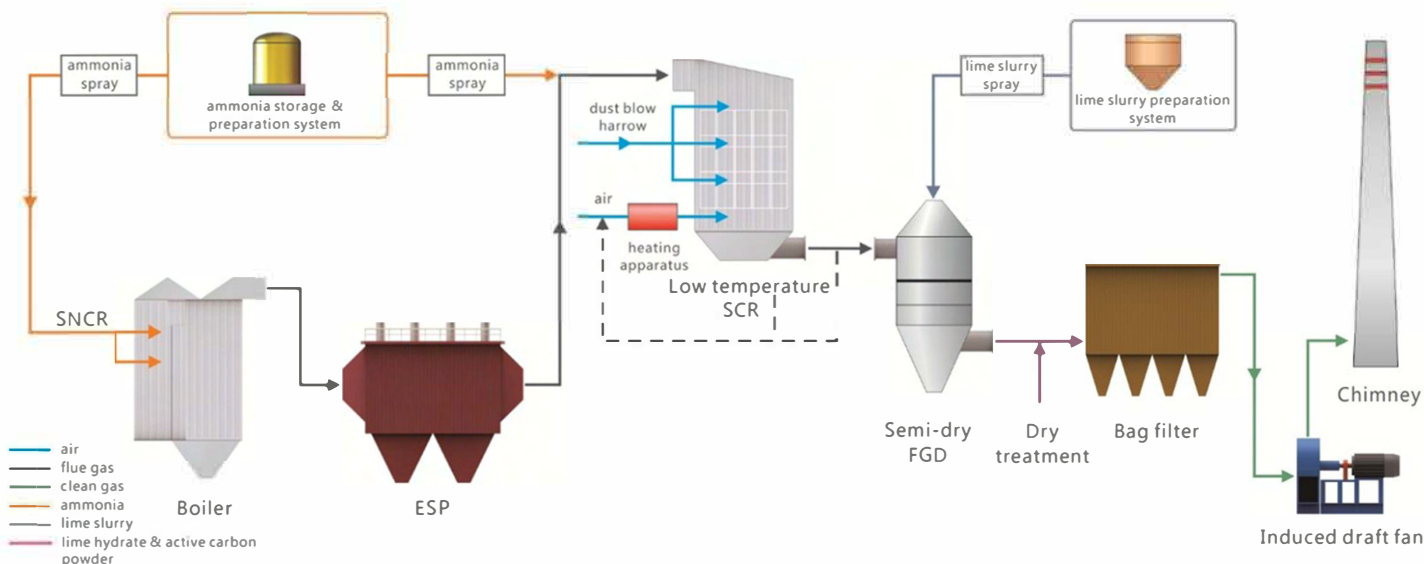
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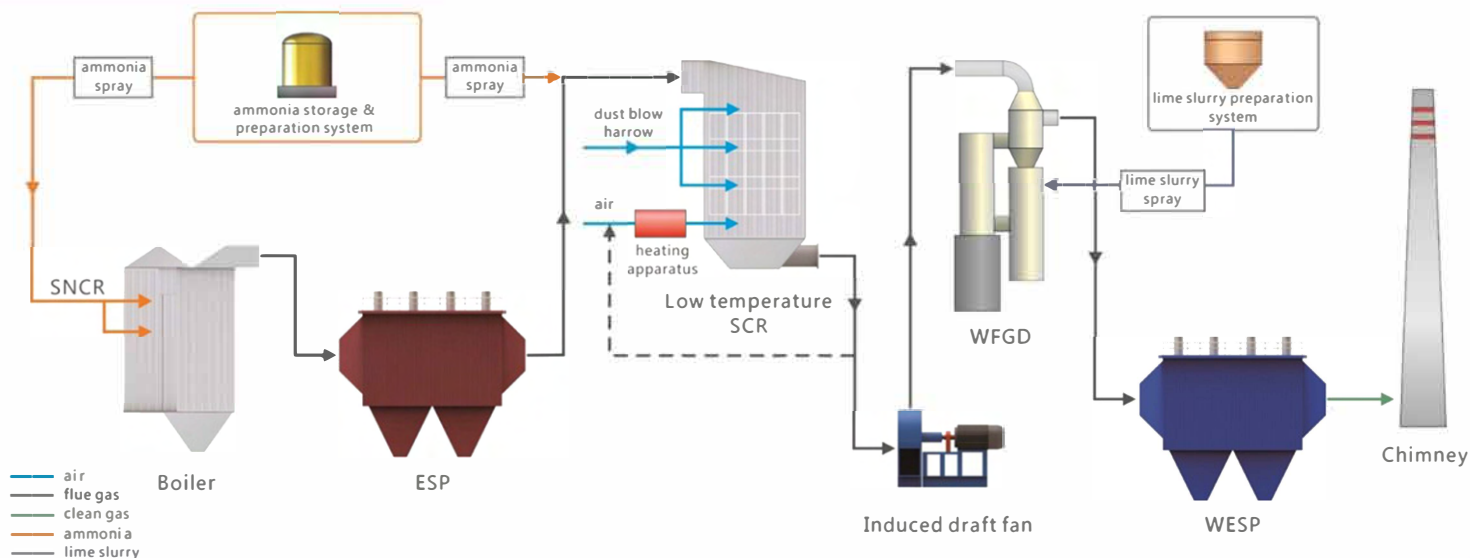
SBS PROCESS



ESSB PROCESS



ESWW PROCESS



FEW OF OUR CLIENT'S



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OUR GLOBAL PRESENCE



.....& many more

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MANUFACTURING WORKS

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UNIT II

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IN 2003



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PROMOTED GROUP



TOTAL TEAM
STRENGTH 150+



GLOBAL PRESENCE
IN 25+ COUNTRIES



MORE THAN
400+ INSTALLATION

