

W2E - Flue Gas Treatment and Distribution

Flue gas is produced with the incineration or exposure of hot gases. These gases consist of sulphur, carbon, nitrogen and other pollutants. Flue gas treatment is done to remove sulphur and other heavy materials. The flue gas when recycled can be helpful in producing thermal energy. **Pollution control** Worldwide carbon emissions is the prime issue to resolve. Over exposure of flue gas can cause air pollution. We believe in maintaining a sustainable balance between the reuse and systematic discarding processes. The high air filtration systems do refine impaction, diffusion, straining and electrostatics. **Flue Gas Treatment** The processes here are generally done to eliminate the harmful gases and to discard the clean gases in the environment and striking a balance to use the resources with the optimum usage. There are two types of process to discard the hazardous waste like merchant plants which are specific for disposing various kinds of waste and dedicated incinerators that specialize in handling various kinds of waste. We take extra efforts of reinventing the innovative methods like dry or wet scrubber and flue gas desulphurization and invoking the usage of the same in the industrial areas and manufacturing units. Efficient implications of hydrated lime and sodium bicarbonate can easily eradicate heavy particles. Thermal combustion is well known and experiential processes. This method is scientifically proven and gives more open space for combustion as per the industrial standard, this methodology is followed from many years. We strive to deliver analytical products which can keep a healthy check on limit of the flue gas emissions at very feasible cost. **Flue gas distribution** Though vivid channels argue the deficiency of the flue gas, but in the recent study in Europe it is being found the systematic usage of flue gas can be the great source of water. The sources could effectively provide water to millions of households and industries. We believe in potentially recovering the water from the flue gas for reuse and recycle. The processes are done with the hollow fibrous membranes and numerous tubes in the gas stream which have the efficacy of sucking the water molecules. The other innovation of mixing the algae bio crude with other fuels can help in power generation and creation of biodiesel. **Ash Handling** The leftover of solid fuel combustion which reinstates the processes of collection and conveying is known as ash handling. There are various types of ash like ash clinkers, bed ash, bottom ash etc. For removing the bottom ash the processes like slurry disposal, bottom ash hoppers are occupied. For dry ash processes like water cooled screw conveyor are implied. In the clinker grinders the bottom ash is finely crushed before being transported to the ash conveying systems. In the upcoming years the need of systematic discarding and efficiently using the flue gas will boom rapidly. These processes will minimize the risk of pollution and will make the living better for every citizen. Over the years the reuse of the flue gas will be in demand as its proper storage and usage will help in generating thermal energy.

