

Particulate Removal **Systems** Dry Electrostatic Precipitator

Global Leader in Green Technology

- People & Technology keeping our planet sustainable...

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For decades we provide State-of-the-Art Technologies in Electrostatic Precipitation Equipments for the power generation, oil & gas and heavy industries. KC Cottrell Electrostatic Precipitators are designed to meet with high reliability and the

highest standards for the more and more stringent environmental regulations.





Process

- The gasses pass through an ionized zone created by DC high voltage applied to the discharge electrodes.
- The particles present in the gas are electrically charged and migrate towards the collecting plates.
- Collected particles agglomerate on the collecting plates and are dislodged by efficient rapping system.
- The particles are finally collected in the hoppers.

Advantages

- Optimum design for power generation, cement, steel, petrochemical and heavy industry
- More than 600 references
- Collecting Electrode providing ideal gas flow to minimize re-entrainment
- Discharge Electrode with high durability and high efficient electrical characteristics
- Electromagnetic (Magnetic Impulse) and Mechanical (Hammer) rapping system
- State-of-the-Art energization systems

Part Name

- 1. Support Structure
- 2. Casing
- 3. Inlet Nozzle
- 4. Outlet Nozzle
- 5. Hopper
- 6. Access Walkway

- 7. Collecting Electrode(C.E)
- 8. Discharge Electrode(D.E)
- **9**. Perforated Plate
- 10. C.E Rapper 11. D.E Rapper
- 12. Hot Roof

- 13. Penthouse Roof
- 14. Transformer Rectifier 15. Purge Air System
- **16**. Monorail Hoist
- 17. Insulation & Lagging

References : Power Generation

- Dangjin Thermal Power Plant No.9~10 1,000MW X 2, Korea (2016)
- Samcheok Green Thermal Power Plant No.1~2 1,000MW X 2, Korea (2017)
- Pagbilao Thermal Power Plant No.3 420MW X 1, Philippines (2018)
- NTPC Meja Thermal Power Plant 660MW X2, India (2019)
- Long Phu 1 Thermal Power Plant 600MW X 2, Vietnam (2019)
- Shinseocheon Thermal Power Plant No.1~2 1,000MW X 1, Korea (2019)



Dangjin Thermal Power Plant



Samcheok Green Thermal Power Plant



NTPC Meja Thermal Power Plant



Taean Thermal Power Plant

Iron & Steel

- SNNC Gwangyang Fe-Ni Plant No.2, Korea (2006)
- POSCO Gwangyang Steel Mill, Steel Making No.4, Korea (2013)
- POSCO Gwangyang Steel Mill, Sinter Plant No.2, Korea (2015)





SNNC Gwangyang Fe-Ni Plant



• Yeongwol Plant Units 3, 5, Ssangyong Cement, Korea (2008)

UHV RFCCU Plant

Other Industries

• PT. Petrokimia Gresik, Indonesia (2010)

