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## Emission Control Gas Cleaning for the Iron and Steel Industry

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## Technologies



### Coking plant

- Detarring of process gas by means of wet type electrostatic precipitators

### Ore beneficiation

- Cleaning of process and secondary gas from sintering, pelletizing and by using electrostatic precipitators e.g. with moving electrodes, scrubbers, fabric filters or cyclones.

### Pig iron production

- Coarse material collection with dust catchers or cyclones. Fine dust separation in Bischoff annular gap scrubbers.
- Energy recovery by using top gas expansion turbines.
- Cast- and Stockhouse dedusting by means of low pressure pulse jet filters.
- Gas cleaning for iron ore reduction plants



### Oxygen steel making

- Dry cleaning of converter process gas by means of cylindrical electrostatic precipitators according to the efficient Lurgi-Thyssen steel-gas process. The precipitated dust can be recycled to the converter process. Wet cleaning of the converter process gas by using annular gap scrubbers. If requested wet electrostatic precipitator in gas holder aerea.
- Exhaust systems with a minimum pressure loss for the collection of secondary emissions and cleaning in electrostatic precipitators or in low pressure pulse jet filters.



### Rolling mill

- Dedusting of waste gases produced during scarfing generally by using wet electrostatic precipitators.

### Cogeneration

- Final gas cleaning of mixed coke oven-, blast furnace- and/or converter-off gas with wet electrostatic precipitators.

### Electric arc furnace

- Dust separation and gas cleaning mainly with fabric filters.

