Gas
Treatment
System

Wet Flue Gas Desulfurization

Global Leader
in Green Technology
- People & Technology keeping our planet sustainable...

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KC Cottrell

Flue Gas Desulfurization(FGD) uses a wet scrubber where reactions between sorbents and sulfur oxides occur. KC Cottrell can provide various solutions of FGD system for customers' various requests. Our optimized design and project management also guarantee minimum investment and operating costs based on the wealth of experience we have accumulated so far.

Advantages

A wealth of experience
across various fuels & applications

High SOx removal efficiency
≥ 99%

Low operating cost
due to optimized engineering & compact design

References

Wet Limestone-Gypsum Process: Limestone is the most widely applied sorbent in the world. This process shows high de-SOx efficiency and its by-product can be supplied as a resource to other industries.

- Hadong Thermal Power Plant No.7~8 500MWx2, Korea (2009)
- Recycle Facilities, GRM Danyang Plant, Korea (2010)
- Hsinta Thermal Power Plant No.1~2 500MWx2, Taiwan (2012)
- Tufanbeyli Thermal Power Plant No.1~3 150MWx3, Turkey (2013)
- Ma'aden Steel Mill, Saudi Arabia (2014)
- Youngheoung Thermal Power Plant No.5~6 860MWx2, Korea (2014)
- Seyitomer Thermal Power Plant No.1~4 150MWx4, Turkey (2019)


Hsinta Thermal Power Plant


Tufanbeyli Thermal Power Plant


Yoengheoung Thermal Power Plant


Jeju Internal Combustion Plant

Wet Mg-Na FGD Process: We also utilize magnesium hydroxide and sodium hydroxide for sorbents depending on customers' situations. The system in this case is compact and therefore it is relatively easy to operate and maintain

- Jeju Internal Combustion Plant No.1~2, Korea (2005, 2010)
- BLCP Thermal Power Plant, Thailand (2005)


Daegu Dyeing Complex Cogeneration Power Plant

FGD Using Alkaline Waste Water: Alkaline waste water can be used to reduce operating costs as well. Utilization of waste from another process saves expenses for chemicals and energy.

- Daegu Dyeing Complex Cogeneration Power Plant, Korea (2017)

Sea Water FGD: When the power plant is located near the sea, Sea Water FGD(SWFGD) can be an appropriate solution. This is a very competitive process because it uses seawater as a sorbent. The by-product of SWFGD, sulfates, can be found naturally, and therefore returned to the sea.

- Duyen Hai Sea Water FGD No.3, Vietnam (2018)

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