

# SOLVAir QuickFacts

## **Excited About Cheap FGD? Go with DSI!**



- **What's Dry Sorbent Injection (DSI)?**

A Dry Sorbent Injection system blows a sodium sorbent (trona or sodium bicarbonate) into a chamber or duct containing acid gases. The acid gases react with the sorbent to form non-corrosive byproducts. Byproducts and any excess sorbent are removed from the air stream normally using an ESP or a bag filter. Clean air is discharged into the atmosphere through the exhaust stack.

- **Is it the perfect fit for a small plant's footprint?**

If your plant is relatively small but SO<sub>2</sub>, SO<sub>3</sub> or HCl problems loom large, a DSI system may be exactly what you need. Here's why: DSI offers small installation, ease of operation, and flexibility to fuel changes. Trona and sodium bicarbonate are the most effective and quick-reacting sorbents you can use, but, where higher SO<sub>2</sub> removal rates are desired and the amount of generated fly ash needs to be minimized, sodium bicarbonate is an excellent alternative.

- **So – how is “FGD” cheaper when used in a DSI system?**

Less equipment is needed, for one. The DSI process requires no slurry equipment or reactor vessel because the sorbent is stored and injected dry into the flue duct where it reacts with the acid gas. The spent sorbent is collected dry through a baghouse or electrostatic precipitator (ESP), or collected through an existing wet scrubber vessel. Trona is often used as the main sodium sorbent due to its relatively low price.

### **Need more in-depth answers to your questions?**

Call Marilyn Treacy, Commercial Manager, at 303.489.9183, or go to our website: [www.solvair.us](http://www.solvair.us).



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