

Spartan Energy's Dry Sorbent Injection is a process of injecting a sorbent into a waste gas stream to remove pollutants.

Spartan Energy

| Dry Sorbent Injection (DSI)

Service Overview

Spartan Energy has adapted a process for the reduction of Sulfur Dioxide (SO₂) emissions in oil and gas facilities with amine units:

- The process uses injected sorbent to remove pollution prior to it reaching the atmosphere.
- The DSI process reduces SO₂ emissions from the facility, keeping it within permitted levels.
- It is cost competitive with traditional scavengers while reducing contamination issues in the process gas stream.
- Process is Patent Pending

Advantages - Operational

- Reduced pollution—lowers emissions to easily permitted levels; enables higher gas production.
- Simple, proven process
- Removes almost all H₂S from process gas stream eliminating fouling and scavenger residue build up.
- Quick to install and remove—1-2 week setup—on new or existing amine facilities.
- Uses widely available media for SO₂ extraction.

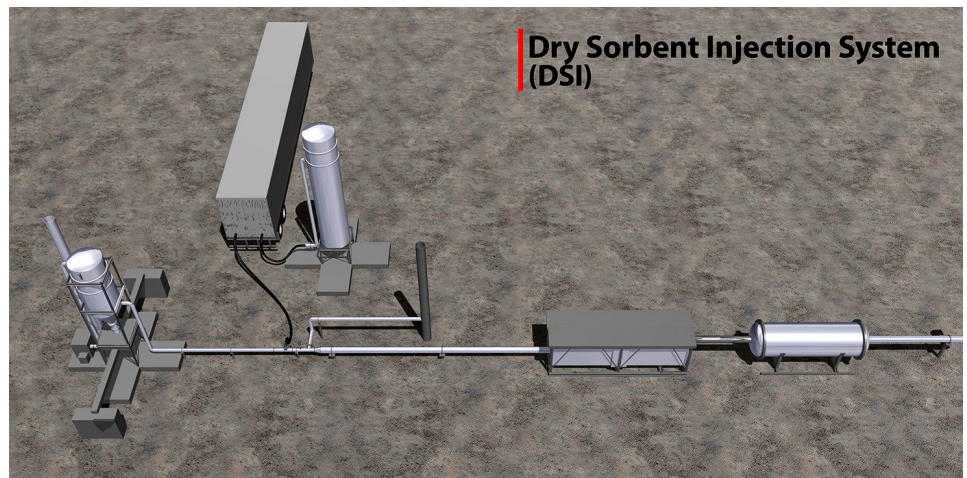
Advantages - Economic

- Economical solution for applications ranging from 500-4000 lbs./day of sulfur, particularly when amine treating is required as well.
- Limited up front capital cost.
- Cost competitive vs. traditional chemical scavengers

Spartan Energy also offers technical assistance for the installation and the maintenance of the DSI services. Contact us today for more information and let Spartan go to work for you.

Process Description

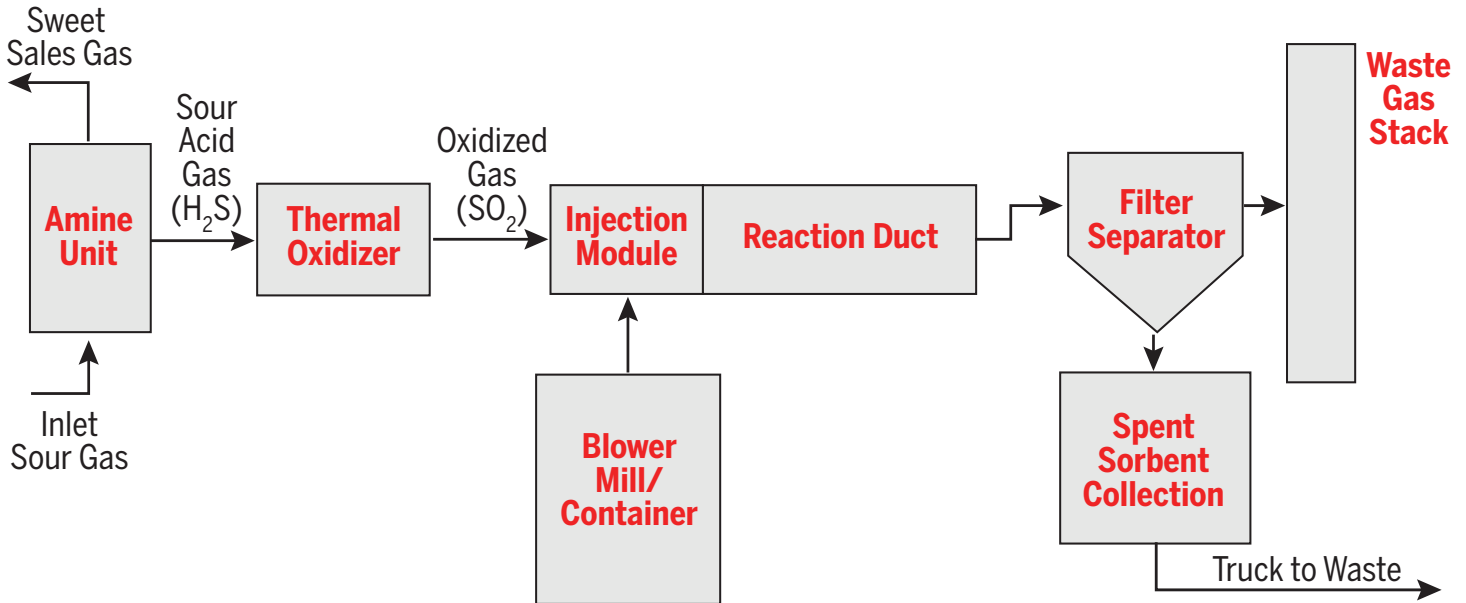
- Direct injection of a media into a gas stream to remove pollution or contaminants.
- Developed in the late 1980's to reduce Sulfur Dioxide (SO₂) emissions (and other pollutants) from power plant emissions.
- Can reduce SO₂ emissions by 90%
- Widely used in power plants, industrial boilers, and manufacturing facilities worldwide.



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DSI Layout



The Spartan Advantage

Spartan exists to partner with oil & gas producers, gatherers, and transporters in getting hydrocarbons to market. Our guiding principal—in everything we do—centers around creating success for our customers. When our customers win, we win. We commit to provide unparalleled levels of responsiveness and service.

Inquiry Form

Please fill out the information and fax 281-466-3320 or scan (inquiry@spartanep.com) to us, so we can provide a service proposal.

Customer _____ Location _____
 Contact _____ County/City _____
 Address _____ State _____ Zip Code _____
 Phone _____ Email _____

Parameters

In addition to this information, Gas Composition Analysis is needed for us to generate performance runs. Please scan or fax and submit with this document.

Inlet Gas Flowrate (Mmcfd) _____ Outlet Requirements _____
 Inlet Gas Pressure (PSIG) _____ Sales Line Pressure (PSIG) _____
 Inlet Gas Temperature (F°) _____ Pipeline Specifications for Hydrocarbon Dew Point _____



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The Spartan Advantage: A Higher Standard in Gas Services