



Guild
Associates, Inc.

Case Study: Replacing Iron Sponge with BSR-050 H₂S Media

A landfill in Texas simultaneously reduces H₂S removal costs and increases feed flow and revenue with BSR-050



BSR-050® from Guild Associates is a high-capacity granular media for the removal of hydrogen sulfide from landfill gas. Engineered for direct replacement of Iron Sponge and Activated Carbon in systems with lead-lag vessel configuration, BSR-050 is field-proven to treat landfill gas for power generation or Renewable Natural Gas (RNG).

BEFORE BSR-050

A Texas landfill with a gas flow of 6,500 scfm (800-1,000 ppm H₂S) had an existing lead-lag system to remove H₂S from landfill gas. The 110,000 lbs of media in the vessel could not clean all of the gas without H₂S breakthrough, so only 5,600 scfm was processed. The additional 900 scfm was flared. The media would last just 3 weeks before changeout, and would typically brick into large pieces, requiring 4-5 days for removal and replacement.

AFTER BSR-050

Without changes to the vessels, the existing media was replaced with 33,000 lbs of BSR-050. Since BSR-050 is the highest capacity media on the market, the operator was able to process the full 6,500 scfm without H₂S breakthrough. The changeout interval was increased to an amazing 15 weeks and since the BSR-050 media is non-bricking, the time for the media removal and replacement was reduced to less than two days.

THE ECONOMIC IMPACT

Now being able to process the entire gas flow, the landfill's revenue increased by 15%. The total cost of hydrogen sulfide removal was decreased by an astounding 80%, as the longer time between changeouts and shorter time for executing the changeout significantly decreased the overall operational expenses.

Properly applying BSR-050 to your site involves understanding all aspects of the H₂S removal process. Contact Guild Associates for a full expert evaluation of your existing process, or have us provide a complete solution including vessels, media, and controls.

BSR-050® is a registered trademark of Guild Associates, Inc.



About Guild Associates

Guild Associates is a manufacturer of biogas processing equipment and BSR-050 Hydrogen Sulfide Removal Media. Guild Associates manufactures the patented BSR-050 media at a facility in Delaware OH.

Contact us for more information:

5750 Shier-Rings Rd
Dublin OH, 43016
614-798-8215
H2S@guildassociates.com
www.guildassociates.com