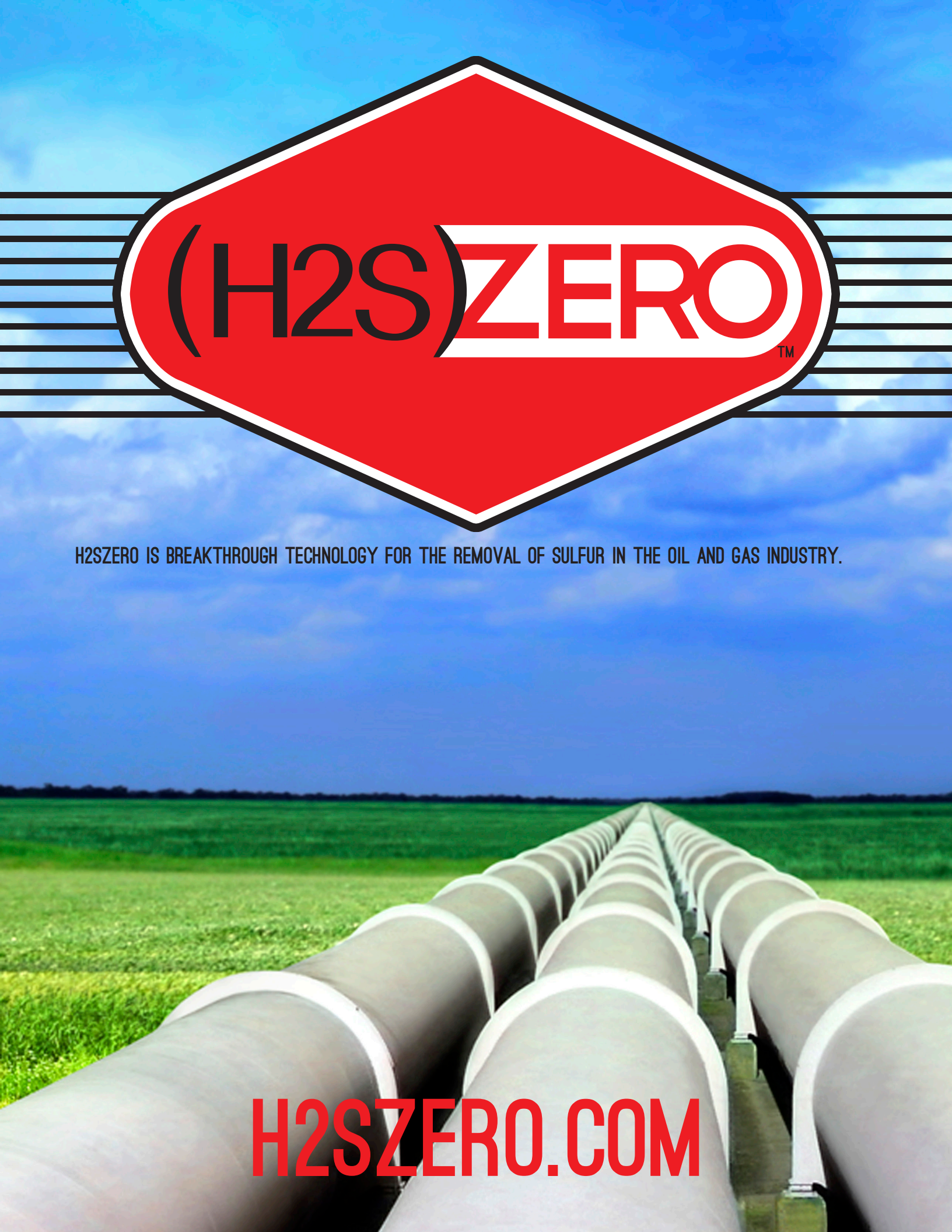

(H2S)ZERO™
H2SZERO IS BREAKTHROUGH TECHNOLOGY FOR THE REMOVAL OF SULFUR IN THE OIL AND GAS INDUSTRY.
H2SZERO.COM

INTRODUCTION

Sweetening natural gas has long been a challenging and ongoing requirement for producers, not only for the safety and wellbeing of those around it, but also as a sales prerequisite. The next frontier in oil field technology has arrived. Introducing H2SZERO; a monumental leap forward in the H2S abatement landscape.

Traditional solutions for H2S abatement have been either solid scavenger systems or liquid (Triazine) systems. While both methods pose unique advantages, **H2SZERO is the first technology to merge the best attributes of dry media products into a single solution**, while simultaneously offering never before available performance characteristics.

OBSTACLES WITH CURRENT TECHNOLOGY

SOLID

Common perspectives about solid scavenger technologies are that they can be difficult to remove from inside the contact tower once the media has been spent. While the clean out issue may be a negative one, positive attributes of solid scavenger systems are operational simplicity and having the lowest cost per treated mcf.

LIQUID (TRIAZINE)

Common perspectives about liquid (Triazine) scavenger technologies are that they can produce solids that precipitate and cause plugging downstream, and they have some of the highest treated cost per mcf. While spent liquid (Triazine) scavenger becomes hazardous, liquid systems are the most cost effective systems to initially set up, provided the system is a direct injection system. This characteristic becomes nullified if the liquid (Triazine) system is a bubble tower or Ultrafab unit.

H2SZERO is a dry, iron oxide based scavenger for use in solid abatement systems. Iron oxide has long been the “go to” technology for solid scavenger abatement systems. What makes the H2SZERO patented technology unique is twofold:

1. The chemical compounds involved.
2. The process by which the compounds are synthesized into the final product.

These two attributes give H2SZERO a strategic advantage against the current competitive landscape.

LEADERSHIP

MIKE CALLAWAY
FOUNDER, CEO - H2SZERO, LLC

“THERE MUST BE A BETTER H2S SOLUTION THAN WHAT IS AVAILABLE RIGHT NOW.”

THAT INITIAL THOUGHT IN THE LABORATORY GREW INTO A PASSION FOR FOUNDER AND CEO MIKE CALLAWAY 11 YEARS AGO. A DESIRE TO PROVIDE A SUPERIOR SOLUTION FOR CUSTOMERS CHALLENGED WITH (H2S) ABATEMENT CATALYZED THE CREATION OF H2SZERO, LLC.

“THERE IS ONLY ONE THING THAT COMES FIRST - OUR CUSTOMERS.”

(H2S)ZERO

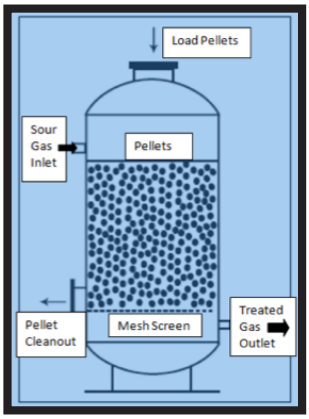
EASE OF USE

Product delivery occurs per customer specific needs, be it to the customers' warehouse location or the customers' actual well site location. Standard product packaging is approximately a 2,000 lb. super sack, on 4-way pallets.

Foam pads are also available to be included with shipment, should the customer require them. Once the customer is ready for H2SZERO installation, contact tower change out begins.

The contact tower clean out begins by terminating gas flow to the contact tower and depressurizing the contact tower. At this juncture, cleanout ports can be opened and waste washing/flushing of spent scavenger can commence. This process usually requires a pump truck and roll off box.

Another advantage of the H2SZERO technology is the ease of contact tower cleanout. Because of the patented H2SZERO technology, H2SZERO fluidizes for the most efficient clean out process available, which minimizes labor expenditures.



WATCH OUR CLEAN OUT VIDEO

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The disposal of the H2SZERO material is non-hazardous and passes TCLP testing. This means that spent H2SZERO media can be placed in a landfill and also does not require special handling or permits for delivery or installation. The customer is able to capture these cost savings reflected in their operational costs.

Once the contact tower is ready for new H2SZERO and a new foam pad, a crane truck will lift the super sacks from the ground to the top of the contact tower. There, a roustabout will open the funnel at the bottom of the sack, enabling H2SZERO to flow effortlessly into the contact tower.

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UNPARALLELED PERFORMANCE

Perhaps the most exciting strategic advantage of the H2SZERO technology is the unparalleled performance results achievable with H2SZERO:

1. **Longer run times** – H2SZERO has been proven to perform, up to 3-5 times longer than any other competitive solid H2S scavenger material under ideal circumstances. This means more gas sold, and fewer contact tower clean out events.

2. **0 ppm** – H2SZERO lasts longer, and removes 100% sulfides (0 ppm outlet gas) for the vast majority of its run time.

These two performance traits revolutionize production and financial models. 0 ppm outlet gas for 3- 5 times longer performance:

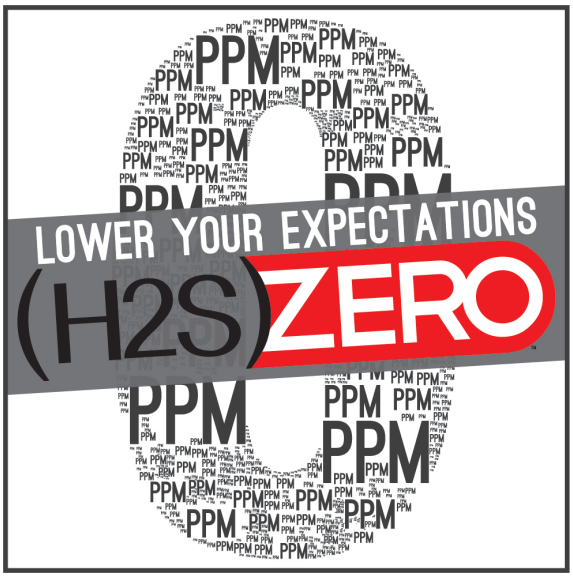
- Allows for blending of gas streams for economies of scale.
- Results in lowest cost per treated mcf.
- Allows liquid (Triazine) scavenger users to convert to the simplicity of a solid scavenging system.
- Allows producers to capture higher efficiencies for existing infrastructure.
- Allows reallocation of unused assets to other locations, reducing the need to acquire additional new assets and infrastructure.

CONCLUSION

H2SZERO is the most cost effective H2S scavenger on the market today. H2SZERO's patented technology allows producers to experience for themselves strategic advantages, such as:

- Ease of use; efficient contact tower clean out.
- Non-hazardous at every step; no special handling or permits required.
- Run times; up to 3-5 times longer vs. competitors under ideal circumstances.
- 0 ppm outlet gas.

These attributes allow the producer to capture increased efficiencies and economies of scale. Perhaps the most important attribute is that H2SZERO delivers the lowest cost per treated mcf, offering greater profitability to the producer.



ABOUT H2SZERO

H2SZERO, LLC was founded in 2005 as a research and development firm conducting research on techniques to enhance H2S abatement through improved methodologies and approaches. Today that research has proven quite successful with national installations of H2SZERO , both onshore and offshore.

H2SZERO, LLC is a "customer centric" based firm, where partnering with the customer to help solve customers' problems is H2SZERO's foremost concern. Because of H2SZEROS's vast and robust industry knowledge and expertise, creative problem solving is a core competency that is foundational to H2SZERO. It is this core competency, along with others, that make customer collaboration a fundamental element of the H2SZERO customer experience.

WWW.H2SZERO.COM