

# CLEANFIRE

A GAS CLEANING SOLUTION FOR ALL RENEWABLE NATURAL GAS APPLICATIONS



Developed by CHAR Technologies, **SulfaCHAR™** is a cost-effective, convenient, zero-waste targeted gas cleaning solution for hydrogen sulfide in the renewable natural gas industry. **SulfaCHAR™** efficiently filters hydrogen sulfide out, drastically reducing maintenance costs.

## COST-EFFECTIVE

- The most cost-effective H<sub>2</sub>S removal product based on cost per kilogram of H<sub>2</sub>S removed
- A simple system requiring little capital infrastructure and low operator attendance at any scale

## CONVENIENT

- Higher capacity than similar systems, **SulfaCHAR™** lasts longer and requires fewer change-outs
- Non-toxic and does not solidify into large pieces, making it easier to change out
- Minimal monitoring required

## ZERO-WASTE

- Made from organic material, such as anaerobic digestate
- Converting hydrogen sulfide to elemental sulfur and sulfates, spent **SulfaCHAR™** material is a sulfur rich biochar

## ◀ Passive FRP SulfaCHAR™ Vessel

## TARGETED GAS CLEANING SOLUTIONS

Simple and easy to operate, these passive systems direct untreated gas through a vessel containing **SulfaCHAR™** media that adsorbs H<sub>2</sub>S onto its surface as clean gas exits the system, ready for use.

### BIOGAS

- An ideal solution for on-farm anaerobic digesters of any scale
- Low capital cost of installation
- Low operational burdens with reduced downtime and maintenance
- No need to store or handle toxic chemicals
- Non-toxic spent material is easily reusable as a soil amendment

### LANDFILL GAS

- 30% by weight sulfide removal capacity prevents engine corrosion from hydrogen sulfide
- Reduced siloxanes in LFG avoid the formation of abrasive microcrystalline silica in engines
- The **SulfaCHAR™** system is easy to implement and has a small environmental footprint
- It is non-toxic with simple change-out and end-of-life processes

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