

CASE STUDY

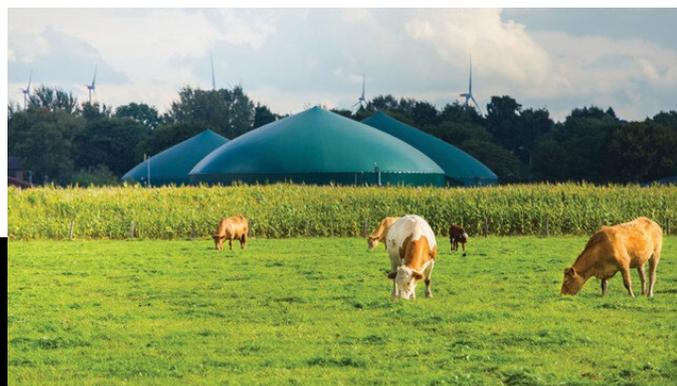
Biogas

Dairy Biogas Plant,
California



THE PROBLEM

A dairy biogas facility in California was undergoing needed upgrades and expansions. Biogas is produced through the anaerobic fermentation of organic matter, typically derived from bovine waste. The facility serves an essential function by decomposing organic materials and generating renewable energy for the surrounding community. During this process, emissions primarily consist of methane, hydrogen sulfide (H_2S), and carbon dioxide, which contribute to odor issues and greenhouse gas impacts.



THE SOLUTION

PureAir provided the facility with Sulphasorb Fe™ chemisorbant media. The customer was originally using an iron sponge to purify the air. PureAir's media alone provided twice the capacity and allowed the facility to reduce its equipment size by half.

Originally, the facility was producing H_2S levels of 7,000 ppm. After PureAir's media was installed, H_2S levels dropped to below 1 ppm. Once used, the media can be disposed of through land application as a soil amendment, remaining non-hazardous while contributing to regenerative agriculture practices.