


APPLICATIONS & FEATURES

- Agricultural and Industrial applications
- Methane gas collection applications:
 - Heating fuel
 - Electricity generation
 - Carbon credits
 - Utility gas
- New prefabricated cover design
 - Unique cover weight system
 - Highly economical
 - Resistant to agricultural and industrial waste water
 - UV stabilized for long service
 - Quick and easy to install

GAS COLLECTION FLOATING COVERS

Layfield's prefabricated gas collection floating cover is your best choice for agricultural and waste water methane collection.

- Gas collection for both agricultural and industrial applications.
- Factory prefabricated with preinstalled weight tubes.
- Prefabrication limits field work.
- Prefabricated to avoid problems caused by strap-attached weight tubes.
- Designed to be installed on full ponds making retrofits much easier.

Layfield's prefabricated gas collection floating cover uses a unique weight system to stabilize the cover against wind damage. Using a unique prefabrication system, we preinstall the cover weights in the cover panels under controlled conditions in our factory. Once the cover is installed, these weights are filled with either a liquid or slurry weight. The use of prefabricated weights speeds installation and eliminates problems with broken weight straps common to other cover types.



This customer collects biogas to augment boiler fuel



A biogas fueled micro turbine makes electricity



Our prefabricated gas collection covers are made from a new fabric-supported polyolefin that has the strength and flexibility needed for gas collection.

Our new Enviro Liner 8000 is an excellent addition to our suite of floating cover products. Enviro Liner 8000 material is UV stable and highly resistant to the fats, oils and greases that can be found in many gas producing waste water treatment ponds.

BIOGAS APPLICATIONS

Gas collection covers are used to collect biogas from digesters and other waste water treatment ponds. The main component of the biogas being collected is methane. Methane is used in four basic ways.

The first use for biogas methane is to burn it to generate heat. Biogas from a gas collection cover can be used to augment the fuel delivered to boilers and other gas-fired devices. The use of waste water generated biogas for heating can significantly reduce heating gas requirements in some applications.

The second common use for biogas is to generate electricity through the use of a biogas powered generator. There are a number of lean-burn type generator sets available on the market that can be set up to burn biogas.

A third option for biogas collection is to flare the gas off. Covering a pond and flaring the gas is an effective odor control strategy; but, flaring methane gas can also be used to earn carbon

credits in certain jurisdictions. Burning the methane (a greenhouse gas) that would normally be released to the atmosphere has a significant positive effect on greenhouse gas emissions. Specialized carbon credit trading companies can provide carbon credits for flared biogas. Layfield works with these carbon credit companies to supply them with gas collection covers.

Finally, a developing option for biogas is the selling of methane to a gas utility. In this scenario, the biogas is cleaned and compressed prior to sending it to the utility. Typically this option is only suitable for larger projects or where there is a geographic concentration of biogas producers. Layfield works with the companies developing these types of systems to provide them with gas collection covers.

QUICK AND EASY INSTALLATION

Prefabricated gas collection covers are built as panels with weight tubes preinstalled into each panel. This means that the panels arrive at site ready to install. Field welding and cover detailing is significantly reduced leading to a much quicker installation time.

Prefabricated gas collection cover panels can be made as large as 4,000 lbs (1,800 kg). This means that on some smaller ponds the cover can be made in a single piece. On larger ponds the panels are welded together in the field during deployment.

For more information on Gas Collection Covers please contact Layfield

