



## CASE STUDY

Biodigester Tank Floating Cover System - Prefabricated LLDPE-R Geomembrane



- ▼ **LOCATION:** Lake Norden, South Dakota
- ▼ **PROJECT TYPE:** Product Supply & Installation
- ▼ **PRODUCT USED:** LLDPE-R Prefabricated Geomembrane

### ▼ **PROBLEM:**

A dairy processing plant needed a new gas collecting floating cover for a concrete biodigester tank. The floating cover had failed due to unsuitable material and poor installation method.

### ▼ **THE TITAN SOLUTION:**

Responding to the need for a more robust and durable cover system, Titan supplied and installed a cover system which consisted of prefabricated LLDPE-R geomembrane with a modular 4" thick foam insulation layer. LLDPE-R was the best solution for this system due to its outstanding flexibility and resistance to low temperatures and ultraviolet exposure.

The failing cover was removed to make way for installation of the new system. Following this, the new cover was mechanically fastened around the perimeter of the tank to create a gas-tight seal. This creates a barrier preventing the release of biogas into the atmosphere. This gas is then collected and used to produce heat.

The project was successfully completed with high attention to installation quality.



Contact us for more information:

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### ▼ **ACHIEVEMENT:**

The Cover and insulation layer were custom fabricated for easy installation in the field without any on-site cover welding required.

A total of 234 sections of foam that are 4" thick by 48" wide by 108" long were used to make up the cover.

We pre-connected them into sections of 6, 5, and 3 floats to send out to the field to be assembled into the larger cover.

Our fabrication team uses the latest seaming technology and follows the highest quality assurance standards in the industry to deliver top-notch products.

Titan provided a turn-key solution that was both durable and cost-effective, while our highly trained technicians installed the system with quality precision despite the record-breaking heat conditions.



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