

TECON biogas storage system

biosolids treatment

- STATE-OF-THE-ART TECHNOLOGY
- ECONOMICAL
- CUSTOM-DESIGNED SOLUTIONS
- RELIABLE AND PROVEN TECHNOLOGY

double membrane biogas storage
for wastewater treatment plants
and energy recovery facilities

ready for the resource revolution



custom-made biogas storage for wastewater treatment plants

The **TECON** double membrane gasholder is used for any application that needs gas storage such as municipal wastewater treatment plants with anaerobic digestion, landfills with biogas usage, industrial wastewater treatment plants, agricultural energy recovery facilities, etc. The TECON gasholder may be mounted on the ground typically in the form of a $\frac{3}{4}$ sphere, or mounted on the top of an anaerobic digester or tank functioning as a durable tank cover and storage vessel.

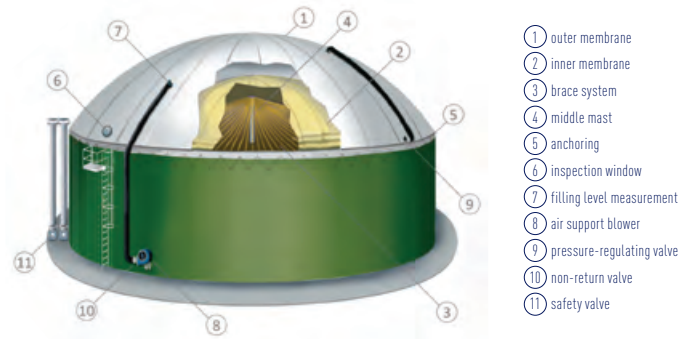
The double membrane gasholder consists of an outer and inner membrane. The outer membrane is the protection layer and is always under a pressure to withstand wind and snow loads, no matter climate extremes. The inner membrane expands and contracts beneath the outer membrane according to gas generation and usage. If the gasholder is ground-mounted on a concrete foundation, there is a third, bottom membrane which seals the gas storage to the foundation. Every gas holder is designed in conformance with the strictest European and U.S. standards (e.g. materials of construction, structural design, storage capacity, snow load, wind load, operating pressure, fire resistance). Also all membrane gasholders are custom designed and manufactured in accordance with the specific project requirements for size, configuration (e.g. dome, rectangular, square, donut, $\frac{3}{4}$ sphere) and strength using high-quality PVC coated polyester fabrics. Product design and manufacturing principles place a priority on system safety, reliability and control simplicity.

The engineering that goes into each gasholder design is customized according individual project needs and incorporates TECON's unparalleled knowledge of external and internal forces on membrane gasholders and proper materials of construction for long life. The proof is over 1,700 successfully operating membrane gasholders globally — a claim that no other gasholder can come close to matching.

We provide a creative, cost-effective and durable solution for any of your challenges.



A partnership with Tecon-
Textile Constructions GmbH



advantages

- **ECONOMICAL**
 - + lower investment costs
- **INTEGRATED GAS VOLUME MEASUREMENT**
 - + biogas micromanagement is possible
- **FLEXIBLE DESIGN**
 - + design/built for any size, configurations and strength
 - + safety, reliability and simplicity inherent in unique system design
- **QUICK INSTALLATION**
 - + most installations are completed in 3 days
- **350-500,000 FT³ STORAGE CAPACITY**
- **OPERATING PRESSURE**
 - + 2 – 20 inch water column
- **EASY MAINTENANCE**
- **A PROVEN TECHNOLOGY**
 - + more than 1,700 references worldwide

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