



ECOMEMBRANE
CASE HISTORY



you on a trip with us to see all four types of gasholders, including those patented by us, where technology meets innovation.

We have told you who we are and how we work. You have read what our customers say about us. You have seen hands on what materials we use to build our gasholders.

Now we would like to show you our projects.

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ENVIRONMENTAL TECHNOLOGY

With this PhotoBook we would like to take you on a trip with us to see all four types of gasholders, including those patented by us, where technology meets innovation.

We have installed them on different terrains and we have followed the particular needs of our customers. They are installed **across the entire globe**: from Minnesota to Russia, from South Korea to Italy, from Turkey to Malaysia. Some were built more than 10 years ago and are still operating perfectly.

Sometimes a picture says more than a thousand words, so....Bon voyage!

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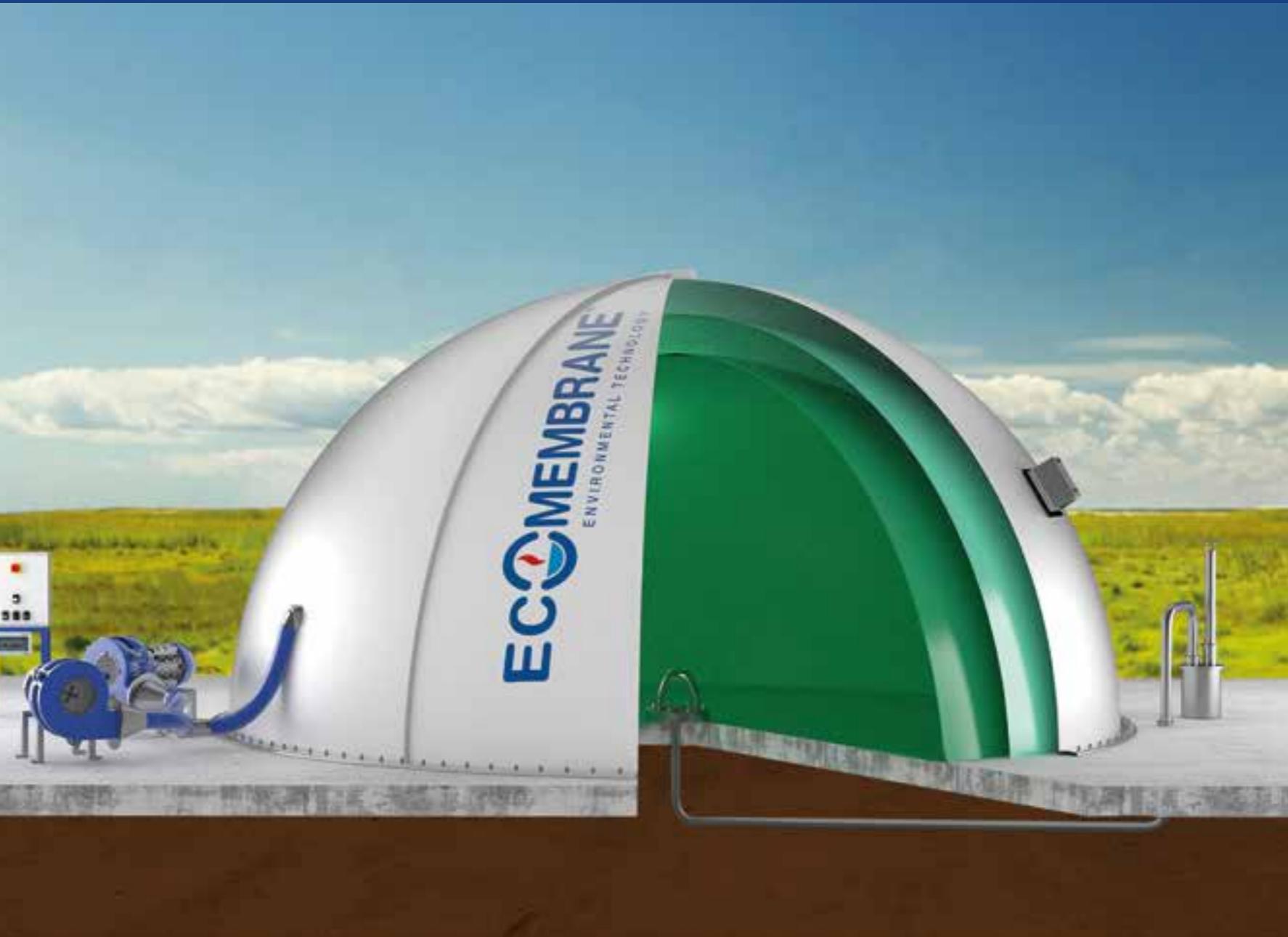
3MASTER GASHOLDERS

One of our **patents** with the aim of creating an even safer gasholder.

Its main characteristic is the addition of a third intermediate membrane, which protects the gas membrane, avoiding any gas leaks from escaping into the air chamber.

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Two other characteristics make this product special: **low energy consumption**, thanks to the pump control unit with pressostatic control, and the **long service life**, due to its resistance to atmospheric agents.



3MASTER GASHOLDERS

MAABJERG, HOLSTEBRO INDUSTRIAL PLANT

1/2 sphere - Base Diameter: 27 m

Volume: 5.000m³ each

Gas flow rate: 1.500 m³/h each

Year: 2011



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3MASTER GASHOLDERS

SUDOKWON LANDFILL, SEUL

$\frac{3}{4}$ sphere – Base Diameter: 18m

Volume: 4.000m³ each

Gas flow rate: 1.680 m³/h each

Year: 2017



South Korea

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3MASTER GASHOLDERS

SUEZ, NAPOLI

$\frac{3}{4}$ sphere - Base Diameter: 26 m

Volume: 7.500m³

Gas flow rate up to 800m³/h

Year: 2020



Italy

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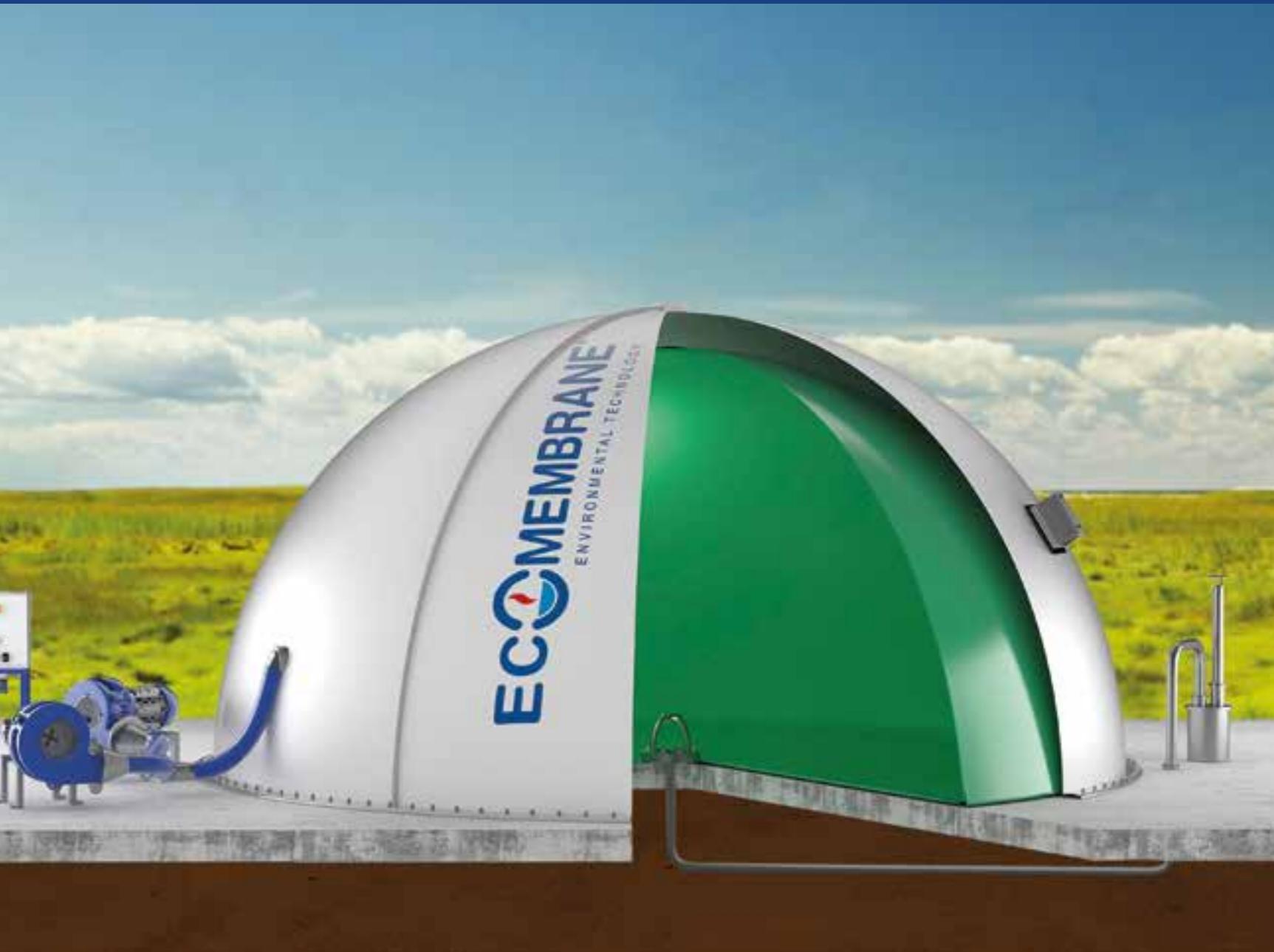
2MASTER GASHOLDERS

The classic pressurised gasholder for **high storage volume**, which can reach up to 3000 m³.

Typically designed as a 1/2-sphere or 3/4-sphere, if space is an issue, this gasholder can even be designed with a rectangular base.

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An external and internal membrane **reduce the total cost** of the product.



2MASTER GASHOLDERS

OVIVO, MINNESOTA ORGANIC WASTE PLANT

½ sphere - diameter: 33m

Volume: 9.000m³ each

Gas flow rate: 2.000 m³/h each

Year: 2012



USA

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2MASTER GASHOLDERS

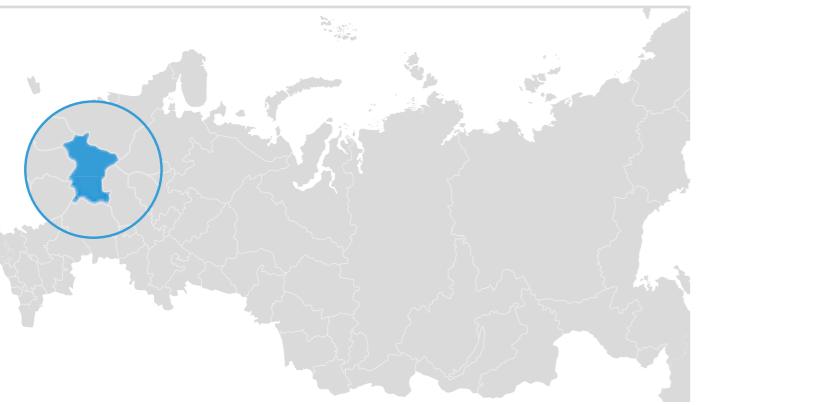
POLIGON TIMOKHOVO, BIOGAS PLANT

$\frac{3}{4}$ sphere – Base Diameter: 16 m

Volume: 3.000m³ each

Gas flow rate: 2.000 m³/h each

Year: 2020



Russia

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2MASTER GASHOLDERS

IMPIANTO DI DEPURAZIONE DI PERO (MI)

¾ sphere – Base Diameter: 17 m

Volume: 3.000m³

Gas flow rate: 300 m³/h

Year: 2015



Italy

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2MASTER GASHOLDERS

ITC, ANKARA LANDFILL

½ sphere - diameter: 41m

n. 1 2MASTER 4.000m³ - Gas flow: 2.500 m³/h

n. 2 2MASTER 16.700m³ each

Gas flow: 4.000 m³/h each

Year: 2009



Turkey



CUPOLA M3 HEAT SHIELD

An Ecomembrane **patent**, with the objective of **reducing** the digester's **heat loss** to the **maximum** (50% less). 3 membranes that allow the use of a **fan with reduced electric consumption**.

The **danger of explosion is nil** thanks to the Heat Shield intermediate isolating membrane in turn composed of 3 ultra-shielded layers.

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CUPOLA M3 HEAT SHIELD

**SOC. AGR. SPERANZA,
CANDIOLO (TO)**

1/4 sphere - Diameter: 22m
Volume: 1.100m³ each
Gas flow rate: 500 m³/h
Year: 2010



Italy

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CUPOLA M3

This is designed to **recover and accumulate biogas directly above the anaerobic digesters.**

This **patent** of ours involves **mechanical anchoring on the edge of the tank**, and an electronic device signals the filling status.

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CUPOLA M3 can also replace the old metal domes on purification plants.



CUPOLA M3

DEPURATORE BARI OVEST

1/4 sphere - Diameter: 17m

Volume: 500m³Gas flow rate: < 500 m³/h

Year: 2015



Italy



CUPOLA M3

DEPURATORE RIETI

1/2 sphere - Diameter: 17m

Volume: 1.200m³Gas flow rate: 500m³/h

Year: 2018



Italy

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CUPOLA M3

DEPURATORE DI CANOVE DI GOVONE (CN)

1/2 sphere - Diameter: 15m

Volume: 1200m³

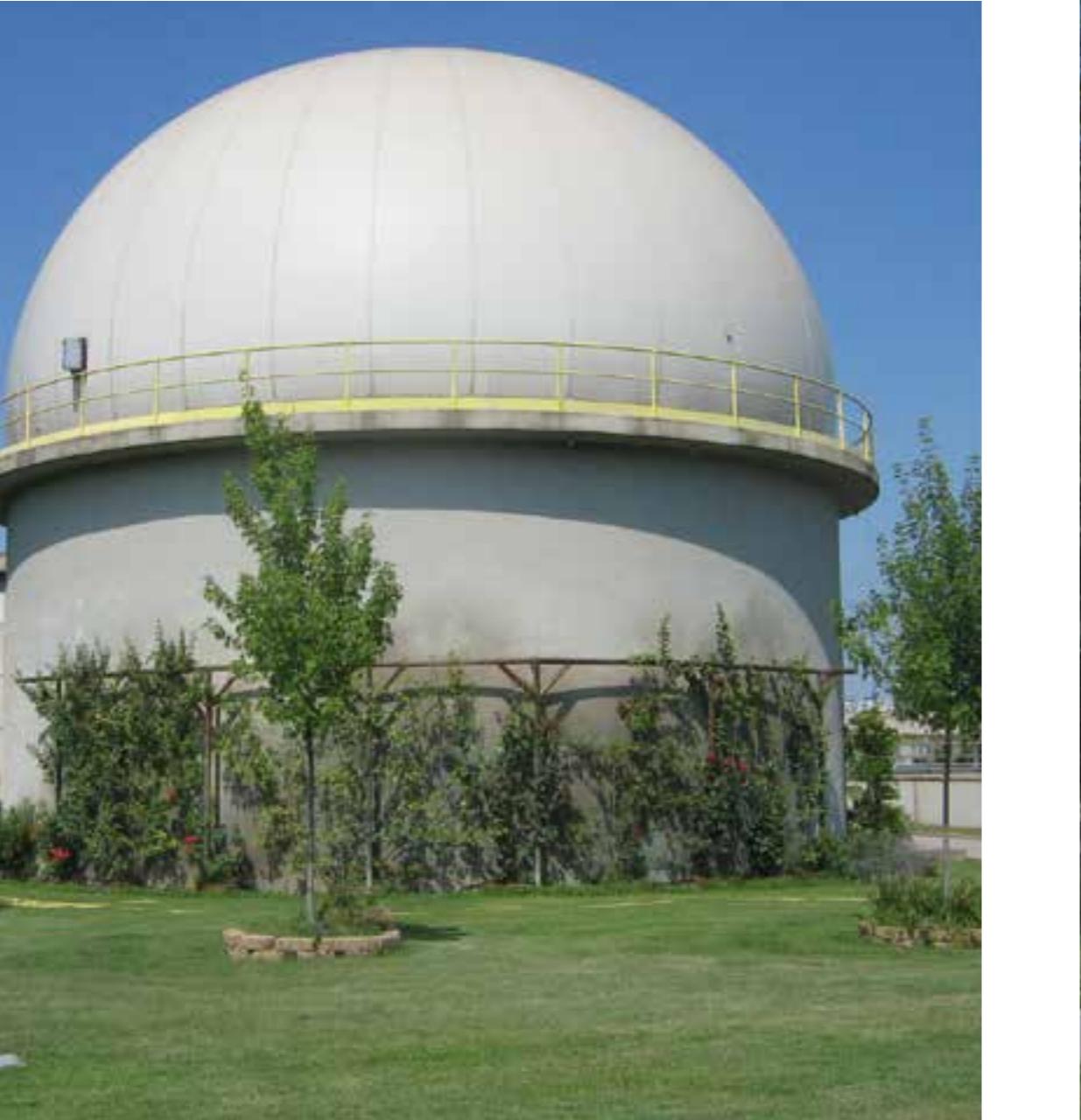
Gas flow rate: 130 m³/h

Year: 2015



Italy

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CUPOLA M2

Designed to be **used on municipal, industrial, and agricultural plants**, they can be installed quickly. They can be **customised with different materials and shapes**: reinforced membranes and sealing is used for high pressure covers.

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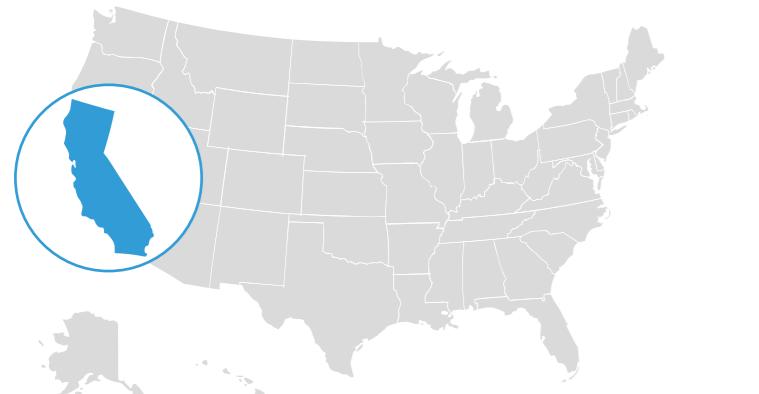
A **support system** composed of strips and mesh with a central pole prevents direct contact between the sludge and membrane.



CUPOLA M2

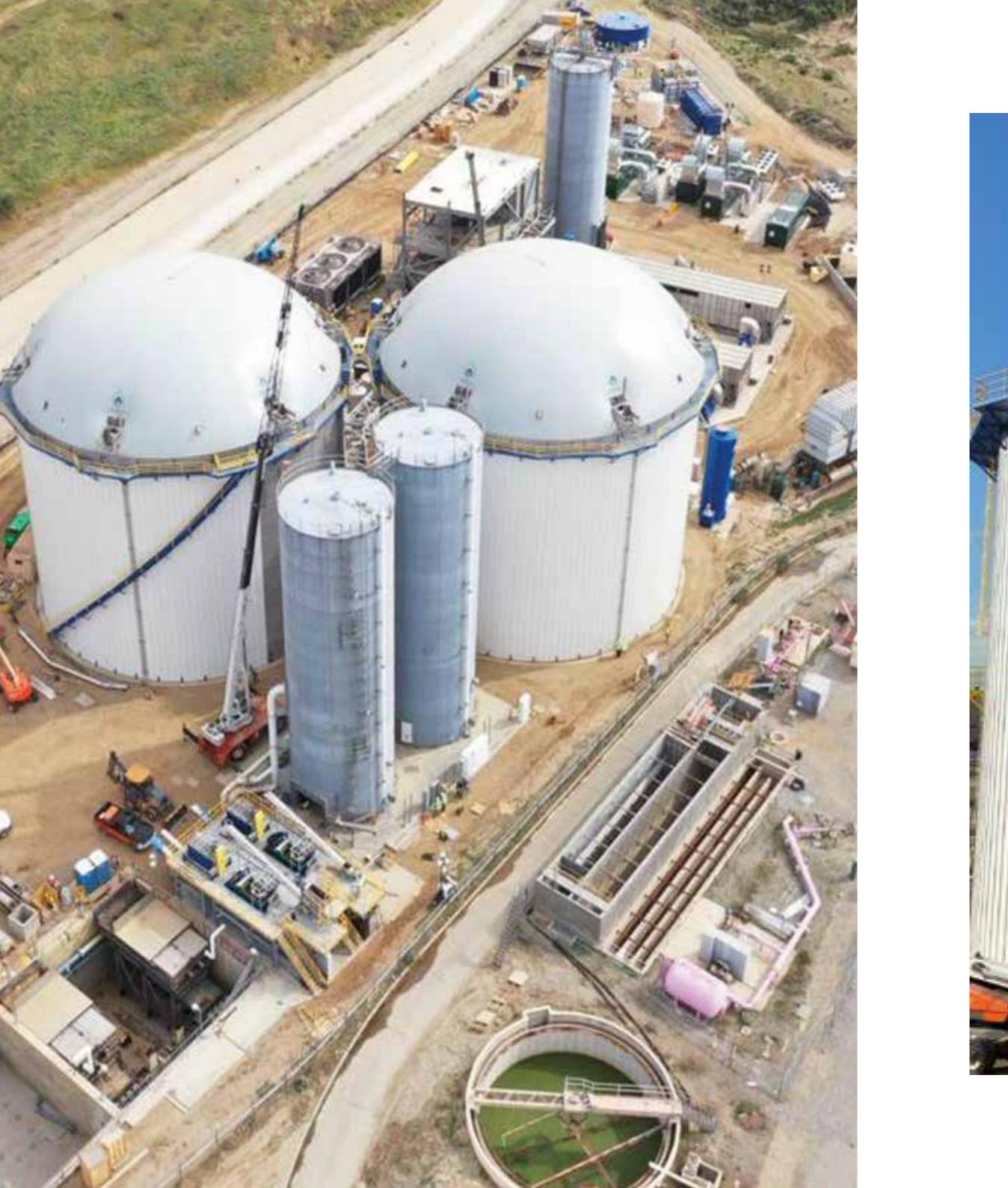
ANAERGIA, RIALTO
BIOENERGY FACILITY,
BLOOMINGTON

½ sphere - Diameter: 29m
Volume: 2.420m³ each
Gas flow rate: 1.610 m³/h each
Year: 2020



 California - USA

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CUPOLA M2

**SOC. AGR. ALLEVAMENTI
CASCONE, BURANA
DI BONDENO (FE)**

1/4 sphere – Diameter: 28m
Volume: 2.500m³ each
Year: 2010



 Italy

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CUPOLA M2

DOLPHIN, TENAGA SULPOM SDN BHD, DENKIL

1/4 sphere - Diameter: 28m

Volume: 2.422m³ each

Gas flow rate: 400 m³/h each

Year: 2019



Selangor - Malaysia

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CUPOLA M2

KRANJI WRP

½ sphere - Diameter: 21m
Volume: 2.326m³ each
Gas flow rate: 920 m³/h each
Year: 2019/2020



Singapore

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CUPOLA M2

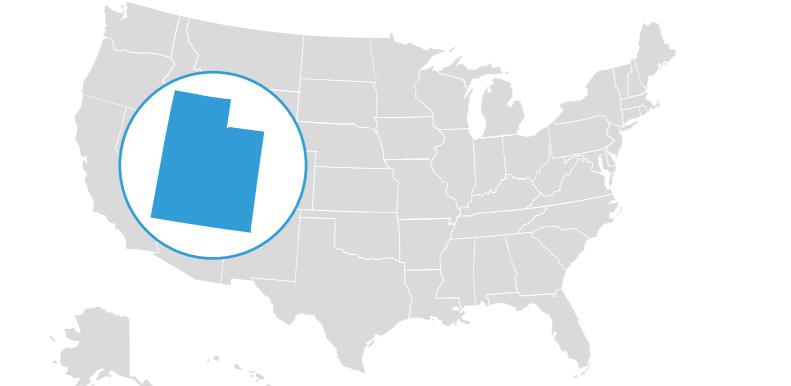
WASATCH, SALT LAKE CITY, UT

½ sphere - Diameter: 33m

Volume: 3.680m³ each

Gas flow rate: 2.550 m³/h each

Year: 2019



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ECONTAINER

An actual **gasholder in a container**, easy to transport and can be installed in the planned place without any special overhauls.

Inside a PVC **fabric membrane** becomes the gas storage chamber and on the outside the container is sealed as per standard, **certified**

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for sea transport and watertight.
It allows the **serial** or parallel **connection** of multiple units.



ECONTAINER

HEDVIGA, PYROLYSIS UNIT, PREROV

Volume: 20m³ each

Year: 2018



Czech Republic

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M1 CONE ODOR CONTROL COVERS

Odor control covers perfect for **pre- and final tanks**. Recognizable by their **conical shape**, which protects the tanks and their content against strong atmospheric agents.

The central supporting pole in fact creates the conical shape, therefore, a pitched roof which offers **wind resistance** and helps **support the snow load**.



M1 CONE ODOR CONTROL COVERS

**GRONGAS,
BIOGAS PLANT, VRA**

Conic shape - Diameter: 36m
Year: 2014



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M1 CONE ODOR CONTROL COVERS

SOC. AGR. SAN MICHELE, ROCCABIANCA (PR)

Conic shape - Diameter: 28m

Year: 2021



Italy

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M1 CONE ODOR CONTROL COVERS

ZOOAGRI, CURTATONE (MN)

Conic shape - Diameter: 23m

Year: 2020



Italy

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FLC ODOR CONTROL COVER

The **floating odor control cover** is made-to-measure to reduce pollution caused by gas fumes to a minimum and to avoid the evaporation and spreading effect caused by the wind.

Its characteristic is that of remaining **constantly stretched over the surface** of the sludge

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regardless of its change in variation. This is made possible by the **flexible PE foam slabs** that it is composed of.



FLC ODOR CONTROL COVER

AZ. AGR. ROBINIE,
CASALETTO CEREDANO
(CR)

- 1 FLC Odor Control Cover 28m x 27m
- 2 FLC Odor Control Cover 28m x 42m

Year: 2020



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FLC ODOR CONTROL COVER

AZ. AGR. S.MARTA,
SONCINO (CR)

- 1 N.1 FLC Odor Control Cover 56m x 75m
- 2 N.2 FLC Odor Control Cover 50m x 50m

Year: 2020



Italy



1



2

FLC ODOR CONTROL COVER

**AZ. AGR. ALLEVAMENTI
CASCONI, BURANA
DI BONDENO (FE)**

Diameter: 35m

Year: 2017



Italy

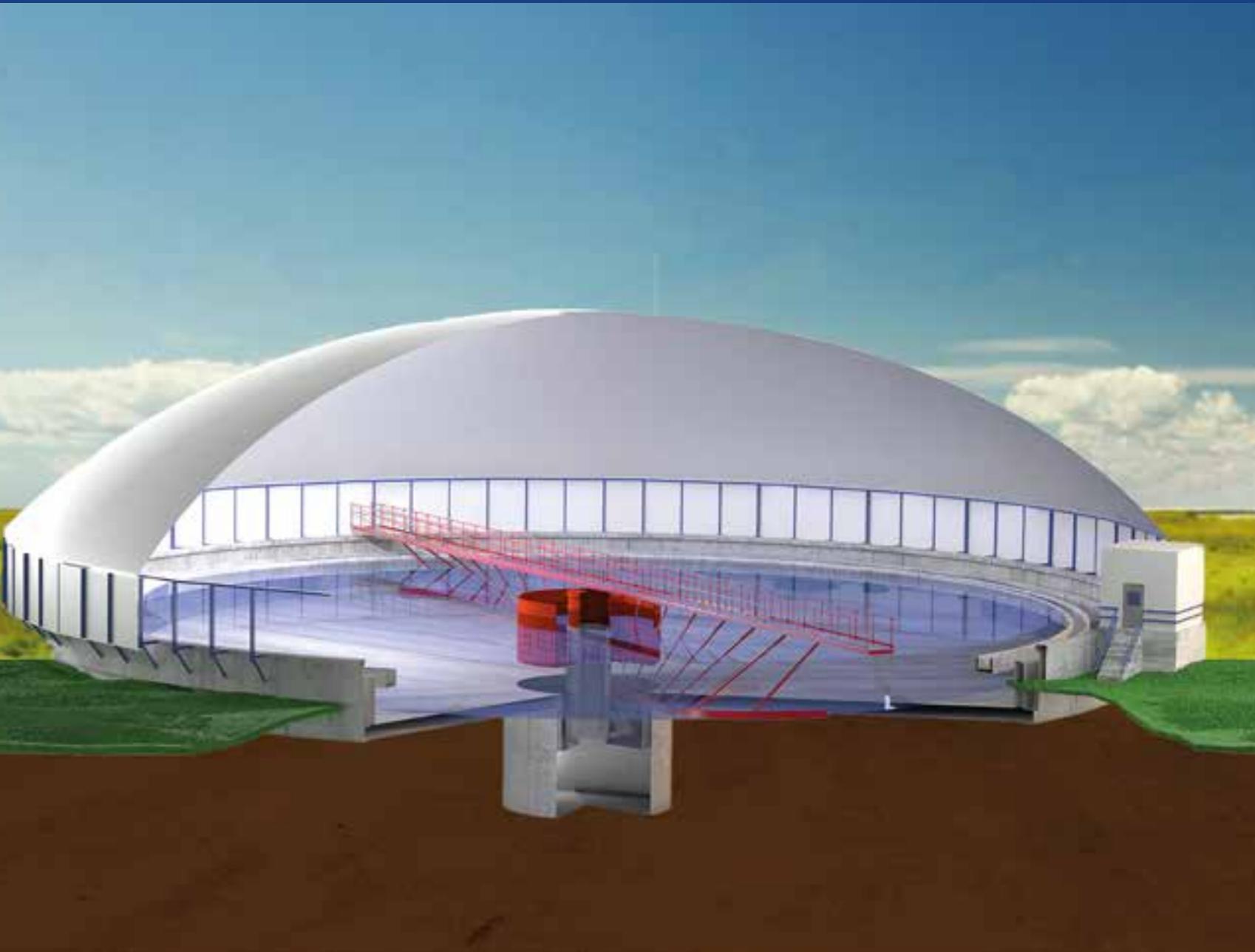




CLARICOVER

An Ecomembrane **patent**, this is our unique and absolutely innovative solution that makes it possible to cover the decanting tanks of water treatment plants. In comparison to currently used solutions, it has a greatly lower investment cost and allows for quick installation (just a few weeks).

It allows direct access to maintenance personnel and can cover tanks of up to 60 m.



CLARICOVER

MASERATI ENERGIE, SARMATO (PC)

Diameter: 23,65m

Working pressure: 4mbar

Year: 2019



Italy

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CLARICOVER

GECO S.R.L. , ATELLA (PZ)

CLARICOVER

Diameter: 26 m

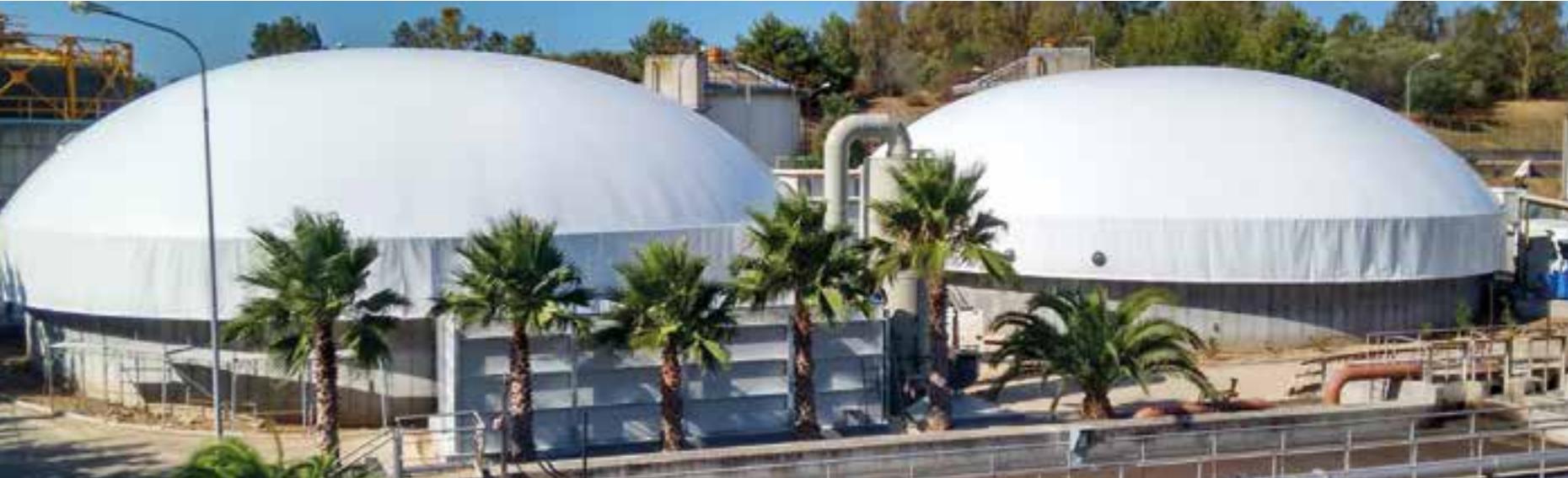
Working pressure: 4mbar

Year: 2016



Italy

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LAGOON COVER

The **right cover for large lagoons**. It minimizes all polluting fumes and avoids the evaporation and spreading effect. It is assembled by joining parallel strips of material with seamless thermal-bonded joints.

It is suitable for **lagoons of any size** and can also be **walked on**. It is also possible to integrate the structure with a **rain water recovery system**.

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LAGOON COVER

**GUY AND WRIGHT LTD,
ARKADIUSZ LAGOON - HERTS**

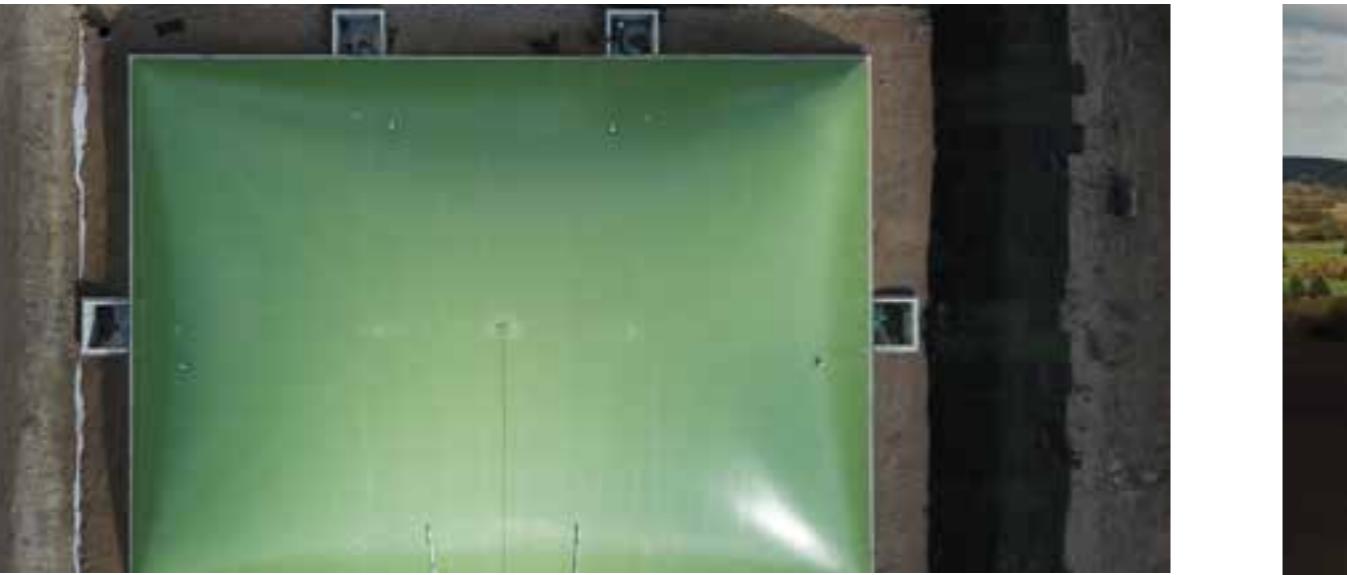
Rectangular shape: 37m X 51m

Volume: 7.060m³Gas flow rate: m³/h 200-400

Year: 2017



UK

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**ADD A LEG TO OUR TRIP.
JOIN THE WORLD OF ECOMEMBRANE!**

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