



Gas-tight tank
covers for
biogas and
biomethane



An aerial photograph of a biogas plant at sunset. The plant features several large, circular digesters with white conical roofs and dark green cylindrical bodies. A yellow excavator is visible in the foreground on the left. The background shows a vast, flat landscape with a line of trees under a golden sky.

Alfa Ingenious Coverage

Alfa Ingenious Coverage: Over 48 years of innovation in technical PVC coverage.

With over 48 years' experience in the engineered processing of PVC, Alfa Ingenious Coverage is now a leading player in the development of double-membrane systems for the renewable energy sector.

By using cutting-edge technology and high-performance materials, we design and manufacture double-membrane covering systems for digesters in modern biogas and biomethane plants. Our technical know-how also enables us to develop advanced solutions for weather protection and emissions control, suitable for circular slurry storage tanks with diameters of up to 46 metres.

Every project managed by Alfa Ingenious Coverage commercial and technical team is designed to translate construction excellence into long lasting reliability, meeting our clients' most complex operational requirements with absolute precision.

Alfa Ingenious Coverage: The global partner for biogas and biomethane



Alfa Ingenious Coverage is one of the main technology partners for the world's leading biogas and biomethane plant manufacturers. We design reliable, safe and durable covering systems, carefully selecting every single component to ensure maximum operational efficiency:

AISI 316 stainless steel fixings: all small parts and anchoring systems are made of stainless steel, ensuring absolute and long-lasting resistance to gas corrosion.

ATEX safety and efficiency: we use ATEX-certified and energy-efficient blowers, designed to operate in complete safety by potentially explosive atmospheres.

Advanced monitoring: precision measurement systems for continuous, real-time monitoring of gas volumes.

Pressure management: installation, on request, of calibrated safety valves in order to compensate automatically the excess of overpressure and under-pressure.



High-strength structures and special belts

The Alfa Ingenious Coverage roofing system is engineered to withstand the most severe environmental and chemical stresses. In order to ensure superior mechanical integrity, the structure is anchored and tensioned using special straps that have undergone specific treatments to resist the corrosive effects, typical of biogas. This construction method eliminates the risk of material degradation, ensuring long-term structural stability and safety.



Via Emilia, 2
31038 Padernello di Paese (TV)
Tel. +39 0422 951037
info@alfatelsoni.it
www.alfingenious.it

Technical support and plant revamping.
Uninterrupted efficiency

Our after-sales support and maintenance department ensures rapid and effective service to maximise the lifespan of the systems. We work with highly specialised teams, both on covering projects we undertake ourselves or modernisation projects involving structures built by third parties. Our aim is clear: to restore and optimise the operational performances of your plant, eliminating downtime and ensuring the highest standards of safety and environmental compliance.