



Biogas Purification: State-of-the-Art Membrane Technologies

The most efficient, scalable path to high-purity RNG



Air Liquide's biogas purification systems leverage over 35 years of gas separation expertise to deliver robust, "RNG-ready" solutions. By combining Air Liquide's proprietary system design with 100% American-made hollow fiber membranes, we provide a reliable path to high-purity biomethane backed by decades of engineering success.

The Air Liquide advantage: A legacy of performance

Our technology is refined through extensive field experience across a global portfolio of successful installations, ensuring that every system we deliver is optimized for real-world excellence.

- **Global leadership:** benefit from over 17 years of biogas upgrading experience and a proven track record of 250+ units installed worldwide.
- **Guaranteed quality:** we offer industry-leading performance guarantees for both product purity and methane recovery rates reaching up to 99%.
- **Maximum reliability:** simple, economical systems designed for a consistent runtime above 98%, maximizing your operational window.
- **Locally manufactured:** our membranes are 100% manufactured in the U.S.



Flexible solutions for every project

Our systems are engineered to handle raw biogas flows ranging from **50 to 15,000+ SCFM**, featuring customizable configurations for feed and product compression to meet your specific site requirements.

Application type	Standard skid flow ranges (SCFM)
Small scale	200 – 800
Medium scale	800 – 3,500
Large scale	3,500 – 10,000+

Comprehensive lifecycle support

Choosing Air Liquide means partnering with a team dedicated to your project's long-term success, from initial development through years of steady-state operation.

- **Rapid field response:** our specialized team provides onsite start-up, repair, and preventive maintenance tailored to your specific facility.
- **Operational optimization:** we provide expert inspections and system adjustments to help reduce operating costs and maximize your RNG production.
- **24/7 technical assistance:** access year-round hotline support with onsite service response capabilities within 4 hours where required.
- **Safety & skills training:** we offer specialized training sessions to ensure your staff is fully equipped for safe and efficient routine operations.

Contact us

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