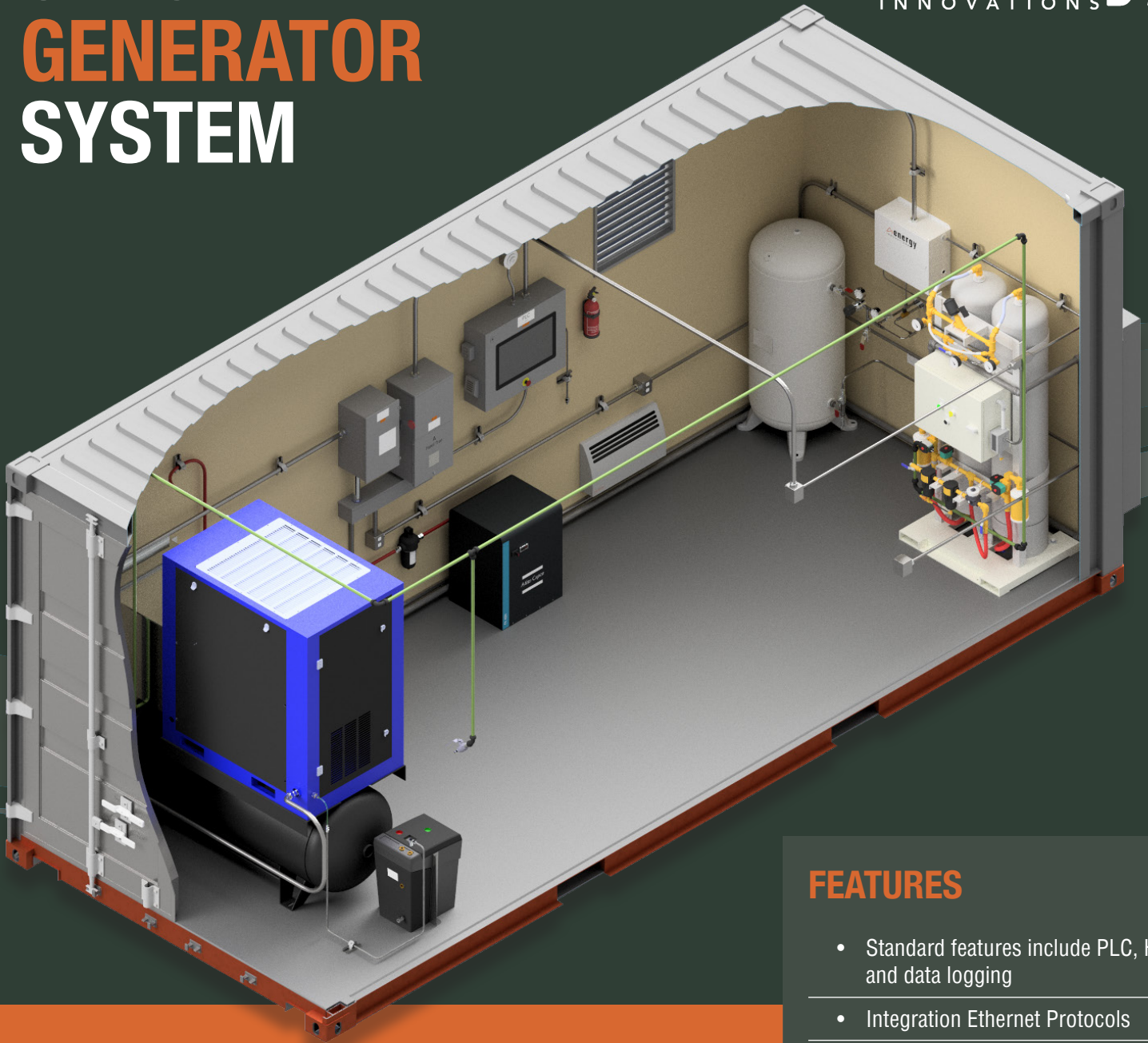
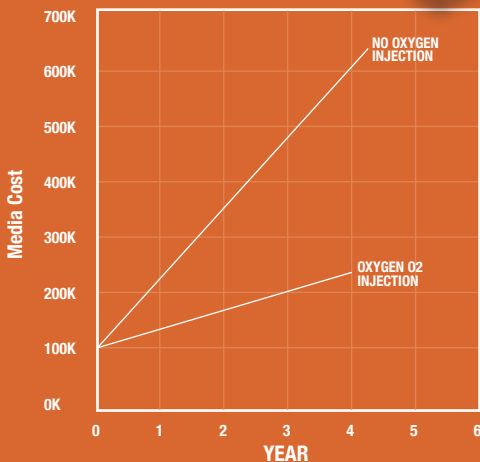


OXYGEN GENERATOR SYSTEM



FEATURES

- Standard features include PLC, HMI, and data logging
- Integration Ethernet Protocols
- Integrated Mass Flow Controller
- Zero-loss O2 Purity Sensor gives continuous real time data
- Fully tested plug and play design
- Rapid installation time
- Low operation and maintenance costs
- Smoke alarm and O2 detector come standard
- Interior/exterior lighting
- On-site compressed air connection



The traditional method of mitigating H2S using a scrubber with frequent media replacements is costly. Our innovative solution based on field testing shows that injecting small amounts of oxygen under the digester cover can create a favorable microaerobic environment that eliminates 25-75% of H2S significantly extending the life of the downstream H2S removal media by up to 400%. By reducing the need for frequent media replacements, our clients have reported paying off their systems within the first year.

TECHNICAL SPECIFICATIONS

GENERAL	Connection Requirements	480V-3Ph. <80amps Oxygen Out Condensate Drain Communications E-stop
	SCFM & SCFH	3, 5, 9, 13+ SCFM systems
	Oxygen Purity	Up to 95%
	Outlet Pressures	0-45 PSI
	Operating Temperatures	35F to 110F Warm weather Package -4F to 110F Cold Weather Package
	Maintenance	Weekly Visual Checks Quarterly maintenance cycles
PHYSICAL	Dimensions	2.0E (Enclosed) 8'Wx20'Lx8.5'H 2.00A (Open Air) 3'Wx16Lx8''H
	Weight	2.0E Approximately 12,000 lbs 2.00A Approximately 6,800lbs
	Platform	Integration through Ethernet protocols supported with Codesys. Examples: Ethernet/IP, Modbus TCP, and Direct Tag Integration



WHY THE OXYGEN GENERATOR SYSTEM?

We understand that achieving the right balance of Oxygen can be challenging, as too much Oxygen can be detrimental to the digester. That's why we've developed a robust Mass Flow Controller and controls package, providing maximum turn-down and control tailored to your specific digester needs, to seamlessly integrate with downstream analyzers. This integration ensures that you stay safely within pipeline requirements while maximizing digester health and H₂S recovery processes. Our knowledgeable team can guide you through the controls integration and assist with the physical system's operation and optimization.

ABOUT US

Energy Innovations (EI) has been a pioneer in the Biogas Industry for over 10 years. Our commitment is to build systems that are efficient and effective. With design, electrical, automation, and fabrication departments in over a 20,000 ft² sq facility, we create easy to install packages that can deploy anywhere, on any size project.

CONTACT US



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