SYZYGY PLASMONICS' UNIT SETS NEW STANDARD FOR SUSTAINABLE AVIATION FUEL PRODUCTION EFFICIENCY

News / Manufacturer

Syzygy Plasmonics successfully completed performance testing of the world's largest all-electric GHG e-Reforming demonstration unit in Houston. After over 3000 hours of rigorous trials in Houston and Ulsan, South Korea with its cutting-edge Rigel Reactor, the unit demonstrates a critical breakthrough in low-cost, high-yield sustainable aviation fuel production.

Current approaches to SAF require expensive credits or a high price to cover production costs. Syzygy's novel approach uses inexpensive biogas that would otherwise be flared or sold at commodity prices into reasonably priced SAF. This monetizes stranded, valuable feedstock assets, fulfilling critical demand for low carbon aviation fuels. Biogas projects require expensive technologies to produce renewable natural gas via CO2 separation. Syzygy's novel approach uses biogas directly from an anaerobic digester or landfills with minimal preparation to produce syngas for SAF or other industry standard renewable transportation fuels.

Syzygy's biogas-to-SAF method is unlocking new possibilities. Its modular design monetizes valuable biogas sources from dairy farms, landfills, and wastewater sites into valuable biogas sources, without the need for pipelines or costly infrastructure.

Trevor Best, CEO of Syzygy Plasmonics commented: "Syzygy's groundbreaking biogas-to-SAF technology is reshaping sustainable aviation fuel production. This demonstration plant achieves Syzygy's first major step in our mission to expand SAF production and transform energy. We will build on this milestone by continuing to enhance performance in Houston while developing biogas to SAF projects built around our technology globally."

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