



Paul S. Greene

GreeneTec, LLC – <https://greene-tec.com>
Greene.tec.llc@gmail.com
518 951 5766

Mr. Greene has over 35 years of experience in the biogas, water, wastewater, energy, and environmental services industries. Practice areas include technology supply, design, engineering, construction, project finance, ownership, and operations. He has been successful in offering business models to clients that include design, design/build, DBOO, supply of equipment, project development, asset acquisition and operations. Mr. Greene has process technology expertise in anaerobic digestion, renewable natural gas upgrading and RIN valuation, ultrapure water, waste to energy, digestate processing, manure handling, membrane bioreactors, physical chemical water treatment, membrane water treatment (MF, UF, RO), organic waste recycling, and boiler feedwater treatment.

Mr. Greene is a recognized national leader in the US biogas industry having served as the first founding member and first elected Chairman of the American Biogas Council the industry's leading trade group. He now leads his own advisory practice.

Education

BS Chemical Engineering with Honors

Lafayette College, Pennsylvania 1984

Professional Experience

Principal	GreeneTec, LLC	Current
Director Project Development	Montrose Environmental Group, Inc.	2019-2022
Senior Technical Advisor	CDM Smith	2016-2019
Vice President of Project Development	Natural Systems Utilities	2014-2016
Vice President Industrial and Food & Bev Market	Ramboll	2007-2014
Director – Food & Beverage Market	Siemens Water Technology/ Veolia/US Filter	1989-2007



Project Experience

- **Bennett Environmental – Commercial development of leading-edge digester technology – 1/23** – New AMBR process is showing signs of being able to eclipse covered lagoon for flush dairy digesters. Mr Greene’s efforts included evaluating, de-risking and providing a commercial roll out strategy.
- **C2NC Project Warsaw, NC for Equity Investor – 12/22** - This project is arguably the largest food waste RNG project in the country. As of 1/2023 it is 80% built. Mr. Greene worked for new equity investor in a project diligence mode to study overall technical and economic viability and to look for any project gaps or material issues to support equity investors objectives.
- **Alberta Food Waste Digester – 12/22** Mr. Greene provided project diligence services to equity investor in this \$60M food waste digester RNG project. System includes leading edge thermal hydrolysis pretreatment technology to enable safe processing of protein processing residuals in Central Canada.
- **Quantum Biopower – Fall 2022** Southington, CT – Mr. Greene was project advisor to help client determine new ownership model and is assisting in recapitalization efforts and technology upgrade optimization.
- **Pacific Ag – 12/22** Hermiston, OR – Mr. Greene is providing project advisory services to \$140 Million community-based Ag digester where he is assisting in analyzing local fertilizer opportunities and markets for project nutrient from this 800,000 mmbtu per year RNG project. He also selected and specified technology for the RNG gas upgrading portion of the project.
- **Del-Rio Renewable Energy – Spring 2022** - Friona, TX – Mr. Greene served as initial Program Director for this \$25 Million dairy digester RNG project. Manure from 9000 milking cows. 140,000 mmbtu per year. System included two large CSTR digesters, covered lagoon digester, and membrane gas upgrader. Contract methodology was full EPC wrap.
- **Sevana Bioenergy – 2021** - Cedar Ridge ID Projects – Mr. Greene directed the execution of a FEL 3 engineering design and cost estimating effort. Project included conversion from a CHP energy project to RNG gas upgrading.
- **Sunoma Renewable Energy Project - 2021** – Gila Bend, AZ – Mr. Greene served as initial Program Director for this 180,000 mmbtu per year project for 14,000 cows. System included three CSTR digesters, covered lagoon digester and membrane gas upgrader. Contracting methodology was as EPCM construction.
- **Recent farm-based digester project feasibility studies conducted.**

Alberta Canada Digester	AB	Deep technical /operational review - equity investor
Allen Farms	NY	Early-stage development
Biotown Reynolds	IN	Third party technical risk review for equity investor
Burley Farm Cluster	ID	Preliminary designs for 8 dairies
Columbus Area Dairy	OH	Early stage development - Cluster of 6 farms



Dairy Farm Cluster	ME	Cluster of 8 farms in Maine for gas utility
Flint Dairy	CA	Owner's Engineer for debt lender
Fond du Lac Cluster	WI	Concept design and capex opex preparation
Georgia Dairy Farms	GA	Level 1 review capex and opex and CI for Equity Investor
GreenBay Farms 1 and 2	WI	Early stage development Capex Opex preparation
Kaukauna Dairy Farm	WI	Preliminary design for developer
Lost Creek Dairy	CO	Early stage development
Michigan Project Cluster	MI	Integrated preliminary design for dairy digester RNG
Net Lease Capital	WI	Site review and recommendations for lender
Northwest Naturals	OR	Three Mile Canyon Farm Review as Owner Engineer
Rochester Farm Cluster	NY	Early stage development of 6 farms and injection point
S&S Dairy	WI	Owner Engineer site review for farmer
Saratoga Farm Cluster	NY	Early stage development
Sevana - Project Crescent	ID	30% Engineering Package
Shenandoah Dairy	FL	Early stage development
Tonopah Dairy	AZ	Level 1 review capex and opex and CI
Wil-Roc Farm	NY	Digester and gas upgrading technical package design
Yuma, CO	CO	Owner Engineer for Investor

- **Cargill – Blair, NE** – Mr. Greene served as Senior Technical Advisor on this complex upgrade to existing Sequencing Batch Reactor wastewater system design. Project included new jet aeration system and belt press dewatering.
- **Coca Cola Company, Ohio-WWTP Upgrades:** Mr. Greene served as client service leader for a project with Coca-Cola. The scope of services included design, equipment supply and construction services to Coca-Cola North America for a membrane bioreactor upgrade at the Columbus, Ohio syrup plant.
- **Leprino Foods, California-Zero Liquid Discharge Facility Preliminary Design:** Mr. Greene lead all aspects of this industry leading water reuse project. The system involved the use of reverse osmosis technology to treat 3 MG of dairy wastewater to potable reuse standards. This is an industry leading project for the US dairy industry.
- **Rhode Island Resource Recovery Corporation, Rhode Island-Design build Landfill Leachate Project:** Mr. Greene served as technical director and provided project leadership for this \$28M design-build landfill leachate treatment project. Goals included 99% total nitrogen removal for this 3 MG project which is the largest landfill leachate treatment project in the US.
- **Water Pollution Control Authority, Connecticut-Client Service Leadership:** Mr. Greene provided overall project client service leadership on this 750 KW co-digester receiving municipal biosolids and source separated organics for technology provider in Public-Private-Partnership.
- **Linwood Management, New York-Technical Oversight Services:** Mr. Greene provided technical oversight

services and process support for this 1000 head dairy farm 500 KW manure digester with mixed organic substrates. Guided client to his final installation of advanced German technology.

- **Aikan, Denmark-Technology Importation:** Mr. Greene provided project oversight for the importation of dry anaerobic digestion technology from Denmark. With O'Brien & Gere developed a standard design based on US building codes and construction standards for patented proprietary process technology. He was also responsible for identifying an ideal US sourcing agent for all of the major facility components.
- **Purpose Energy, Vermont-Biogas Evaluation:** Mr. Greene provided project leadership for a client building its first-of-a-kind digestion system using innovative, patented anaerobic technology at a brewery in Vermont. This system takes high solids organic waste material that was previously hauled off-site and digests it onsite as feed for a cogeneration system to provide heat and electricity to power the brewery's processes. Mr Greene drove project evaluation and diligence services to support investor acquisition opportunity.
- **Spectrum BioEnergy, New York-Digester & CHP Study:** Mr. Greene provided project oversight for a feasibility study investigating the use of source separated organics (SSO); food waste; and fats, oils, and greases (FOG) to boost gas yield at a large municipal wastewater treatment facility while co-digesting with biosolids. The project objective was to make renewable energy from organics to offset purchased, non-renewable fuel.

Presentations and/or Publications/ Awards

- Award – Biogas Visionary Award - 2013



- January 2023 – American Biogas Council – RNG Business School – Moderated panel discussion on the art of Financing biogas digester projects. Topics included maximizing opportunities under the Inflation Reduction Act for Tax Credits and latest strategy for RNG project structuring.



- December 2022 – American Biogas Council - RNG Business School – Co Hosted and taught the session on proper selection of gas upgrading technologies
- October 2022 – Biogas Americas – American Biogas Council - Panel Chairman – Breakout session on the Voluntary RNG market and investor opportunities.
- October 2022 – Launched [Biogas TV](#) the newest leading platform for telling the great story of RNG Biogas.
- October 2022 – RNG Investor Summit – Organized and carried out a conference for of 35 of the RNG Industry top thought leaders in Des Moines, IA.
- May 2022 – Biogas Americas – Las Vegas, NV – Management of Nitrogen in digestates
- 2021-International Biomass Conference – Project Contracting Methodology for Bioenergy facilities
- March 2019 – [Biocycle Article on LCFS](#)
- February 2019 – Swanapalooza – Boston, MA – Organic wastes to RNG lessons learned
- March 2018 – Biocycle article on [Basics of biogas upgrading](#)
- Jan 2018 – [101 for RINs](#) – Industry article on the RFS. Of note, JG press/ Biocycle magazine indicates the three articles of mine mentioned above are some of the most popular pages on their entire magazine archive.
- May 2016 – Clifton Park, NY – NYWEA – Conduct professional training sessions for attendees PDH credits on optimization of anaerobic digesters at wastewater treatment plants.
- January 2016 – Anaerobic Digestion and Biogas – American Biogas Council – Publish the industry’s leading technical manual on AD and Biogas.
- October 2015 – Danvers, MA – BioCycle Conference – Fundamentals of Generating Renewable Natural Gas – Presentation on making RNG from digester biogas.
- April 2014 - Marlborough, MA - MassRecycle Conference - Organics Preprocessing Techniques - Technical presentation on various techniques to separate organic fraction from contaminated wastes.
- October 2013 - Columbus, OH - REFOR13 BioCycle Energy Conference - The Impact of Contracting Methodology on Project Costs – Technical presentation on various contracting approach for digesters.
- June 2013 - Scotia, NY - WICE (Women in Communications and Energy) - Potential for renewable energy from Anaerobic Digestion and Biogas – Annual Spring Conference: Energy & the Environment – Renewables.
- May 2013 - Watkins Glen, NY - New York Water Environment Federation – Energy Opportunities from



Anaerobic Digestion in the US and New York.

- May 2013 - San Francisco, CA - Anaerobic Digestion and Biogas 2013 – Case study in implementing small digesters for converting food waste into renewable energy.
- Jan 2013 - Biogas 101 - A Primer on the Benefits of Anaerobic Digestion for making energy from green waste - Waste Advantage Magazine
- Greene, P.S. 2012. Journey to Sustainability Excellence... Governance. Food Engineering Magazine. Webinar presentation. November 15, 2012 <http://www.foodengineeringmag.com/events/610-journey-to-sustainability-excellencegovernance>.
- Greene, P.S. 2012. Bright Future: Overview of U.S. Anaerobic Digestion Market. BioCycle Renewable Energy Conference, October 29, 2012, St Louis, MO.
- Greene, P.S. 2012. Anaerobic Digestion Regulatory Update. Biogas East / Midwest. Greene Power Conferences, June 2012, Chicago, IL.
- Greene, P.S. 2012. Digester Basics (aka Biogas 101). Digester Day. American Biogas Council. Sponsored by U.S. EPA Region 1 and the Massachusetts Department of Environmental Protection, May 8, 2012, Methuen, MA.
- Greene, P.S. 2012. Anaerobic Digestion Market Update. Biogas West, May 2012, San Francisco, CA.
- Greene, P.S. 2011. Distinguished Guest - Trends in the U.S. Anaerobic Digestion and Biogas Market. 2nd China International Gas Energy Summit, November 10, 2011, Anyang, Hunan Province, China.
- Greene, P.S. and S.E. Martin. 2010. Feasibility of Waste to Energy in the Food and Beverage Market. BioCycle West Coast Conference, November 2010, San Diego, CA.
- Greene, P.S. and S.E. Martin. 2010. High Solids Digestion in the Food and Beverage Industry. BioCycle, 51(5): 49.



GREENETEC, LLC

Providing products and services to the digester biogas, RNG, low carbon fuel and organics waste recovery markets. Helping to drive the circular economy.

Advisory Services:

- Project feasibility consultancy
- Project design consultancy
- Teaming arrangements
- Project risk mitigation
- Project transaction advisory
- Project best practices review
- Project contracting and subcontracting strategy
- Feedstock review
- Offtake partnering
- Project feasibility analysis
- Owner's engineer review*
- Project business model review
- Case study preparation
- Project development support

(*Non PE Stamped)

Manufacturer's Representation:

- Digesters
 - Ag waste digesters
 - Food waste digesters
 - High solids digesters
- Gas upgrading equipment
- Organic fertilizer production and nutrient recovery
- Digestate Treatment/ Pyrolysis

Paul Greene

518 951 5766

Greene.tec.llc@gmail.com