

Municipal Biosolids (Sludge) PFAS Treatment Projects

Last Updated July 1, 2025

Project Name	Project Stage and Status	City	State/ Province	Project Site	Treatment Technology	Vendor
City of Montpelier Dryer and Advanced Treatment Final Design	Suspended due to funding	Montpelier	VT	Montpelier WRRF	Dryer and Advanced Thermal Treatment	To Be Determined
Aries Linden Biosolids Gasification	Full Scale Routinely Operational	Linden	NJ	Linden Roselle Sewage Authority	Gasification	Aries Clean Technologies
Aries Sanford Biosolids Gasification Facility	Full Scale Anticipated Operational 2027	Sanford	ME	Near Sanford Wastewater Treatment Plant	Gasification	Aries Clean Technologies
Aries Taunton Biosolids Gasification Facility	Full Scale Pre-permitting	Taunton	MA	Taunton Landfill	Gasification	Aries Clean Technologies
Lebanon Gasification Initiative	Full Scale Operating (2016)	Lebanon	TN	Lebanon WWTP	Gasification	Aries Clean Technologies
Biosolids/Agricultural Facility	Full Scale Operating (2025)	Bethel Township	PA	Bethel, Pennsylvania Facility	Gasification	Earthcare, LLC
Carbon Recovery Project	Full Scale Operating (2024)	Edmonds	WA	Edmonds Fluid Lift™ Gasification Project	Gasification	Ecoremedy LLC
Clearwater Road Wastewater Treatment Facility	Full Scale Anticipated Completion 2025 and Commissioning 2026	Hershey	PA	Derry Township Municipal Authority Clearwater Road WWTF	Gasification	Ecoremedy LLC
Morrisville Biosolids Gasification Project	Demonstration (Full-scale) Commissioned (2019) and Completed (2021)	Morrisville	PA	Morrisville Municipal Authority	Gasification	Ecoremedy LLC
Manchester-by-the-Sea Hydrothermal Carbonization	Pilot Project Unknown	Manchester-by-the-Sea	MA	Manchester By The Sea WRRF	Hydrothermal Carbonization	SoMax
Phoenixville New Energy Optimization Hydrothermal Carbonization Facility (PXVNEO HTC)	Full Scale Commissioning (March 2023)	Phoenixville Borough	PA	Borough of Phoenixville WWTP	Hydrothermal Carbonization	SoMax
Annacis Island Wastewater Treatment Plant (AIWWTP) Hydrothermal Processing Pilot	Pilot Project Anticipated Commissioning 2026	Delta	BC	Annacis Island WWTP	Hydrothermal Liquefaction	Genifuel Corporation
Miami-Dade Water and Sewer	Evaluation for Full Scale	Miami	FL	Central District Wastewater Treatment Plant	Hydrothermal Liquefaction	Genifuel Corporation Pacific Northwest National Laboratory
Rialto Bioenergy Facility	Full Scale Commissioned (2020), filed for bankruptcy (May 2023)	Rialto	CA	Regional Facility	Pyrolysis	Anaergia
Brentwood WWTP	Full Scale Anticipated Completion in 2025	Brentwood	CA	Clear Creek WWTP	Pyrolysis	Bioforcetech
Clear Creek WWTP	Full Scale Operating (2024)	Redding	CA	Clear Creek WWTP	Pyrolysis	Bioforcetech
Ephrata Borough Authority	Full Scale Startup 2025	Ephrata	PA	Ephrata Borough Authority WWTP #1	Pyrolysis	Bioforcetech
Silicon Valley Clean Water Authority, Bioforcetech	Demonstration (Full-scale) Operating (2017)	Redwood City	CA	Silicon Valley Clean Water Authority WRRF	Pyrolysis	Bioforcetech
Biowaste Pyrolysis Solutions Facility	Full Scale Commissioning on hold	Schenectady	NY	Schenectady Wastewater Treatment Plant	Pyrolysis	Biowaste Pyrolysis Solutions
Baltimore Back River Wastewater Treatment Plant	Pilot Project Demonstration May 6-9, 2025	Baltimore	MD	Back River WWTP	Pyrolysis	CHAR Tech
SoCalGas	Full Scale Operating (2021)	Los Angeles	CA	SoCalGas Los Angeles facility	Pyrolysis	KORE
Saratoga Biochar Solutions LLC, Carbon Fertilizer Manufacturing Facility	Full Scale Withdrawn	Moreau	NY	Regional biosolids processing facility	Pyrolysis	Saratoga Biochar Solutions
Nashua WWTP	Technology Evaluation	Nashua	NH	Nashua WWTP	Pyrolysis	To Be Determined

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Philadelphia Water Department	Pilot Scale Anticipated 2025 Start	Philadelphia	PA	Philadelphia Water Department Facility	Pyrolysis	To Be Determined
Breaking the PFAS Cycle with a Full-Scale Demonstration	Pilot Project Anticipated Work Plan completion September 2024, Project Completion June 2026	St. Cloud	MN	St. Cloud Nutrient, Energy and Water Recovery Facility	Super Critical Water Oxidation	374 Water
OC San and 374Water partnership	Demonstration Project Anticipated 2025	Fountain Valley	CA	Orange County Sanitation District WRRF	Super Critical Water Oxidation	374 Water
Orlando Water Reclamation Division (WRD)	Pilot Project Summer 2025	Orlando	FL	Iron Bridge Regional Water Reclamation Facility	Supercritical Water Oxidation	374 Water
York Sewer District	Pilot Project Anticipated 2026	York	ME	York Sewer District POTW	Supercritical Water Oxidation	Beyond the Dome
Buffalo Wastewater Treatment Plant	Full Scale Operating (2008)	Buffalo	MN	Buffalo WWTF	Thermal Oxidation	Veolia
City of Warren WRRF - Solids Management and Energy Recovery Improvement	Full Scale Seeking Funding	Warren	MI	Warren WRRF	Thermal Oxidation	Veolia
City of Cedar Rapids WPCF PFAS Source and Treatability Study	Pilot Project Engineering Procurement	Cedar Rapids	IA	City of Cedar Rapids WPCF	To Be Determined	To Be Determined
Portland Water District	Technology Evaluation	Portland	ME	Portland POTW	To Be Determined	To Be Determined
Portsmouth Biosolids	Technology Evaluation	Portsmouth	NH	Pierce Island WWTP	To Be Determined	To Be Determined
Heartland Technology Center - HelioStorm™ Gasifier	Full Scale (Feedstock Validation) Operating	Murfreesboro	TN	Commercial-Scale Gasifier	Ultra-High Temperature Ionic Gasification	Heartland Water Technology
Heartland Technology Center - HelioStorm™ Gasifier	Pilot Scale Planning	Madison	ME	Anson-Madison Sanitary District	Ultra-High Temperature Ionic Gasification	Heartland Water Technology