

Pyrolysis heat
recovery can
make dryers
energy neutral

Anaerobically Digested Biosolids

Dried Biosolids

Pyrolyzed Biosolids

PyroSys™ Pyrolysis System

Comprehensive Biosolids Management Closes the Loop
on Resource Recovery

KEY BENEFITS

- Convert dewatered sludge into marketable carbon- and nutrient-rich Class A-EQ* pyrolyzed biosolids
- Reduce biosolids volumes and associated handling cost
- Eliminate contaminants of emerging concern (CECs) from output solids, including PFAS/PFOA
- Fully automated system
- Flexible delivery as supply, service, or P3

* Dependent on incoming solids' heavy metal content



Anaergia's Rialto Bioenergy Facility, California



ANAERGIA SOLUTION

Anaergia's Pyrolysis System (PyroSys) delivers more effective biosolids management and resource recovery, reducing operational costs and generating greater value

- Up to 10x reduction in dewatered biosolids volume
- Customizable unit throughputs for systems >150 tons per day of wet solids
- Precision control adapts to changes in incoming feedstock and ensures high-quality pyrolyzed biosolids
- Integrated heat recovery for energy-neutral drying process
- Designed to meet the most stringent global air emissions limits



APPLICATIONS

- Enhance biosolids handling in municipal wastewater treatment facilities
- Easily integrate and offset thermal demand of existing dryers, new dryers, or other thermal loads on site
- Process variable feedstocks, including digestate, waste activated sludge (WAS), primary sludge, and co-digested organic waste
- Produce Class A-EQ* pyrolyzed biosolids
- Proven destruction of PFAS, microplastics, and pharmaceuticals in biosolids to non-detectable levels
- Delivery as capital sale, as-a-service, and/or biosolids management and offtake marketing

**Dependent on incoming solids' heavy metal content*

PyroSys Simplified Diagram

