

## Biosolids

**UZELAC**  
INDUSTRIES INC.  
DRYING SYSTEMS



Biosolids are nutrient-rich organic materials produced when sludge from either industrial or municipal wastewater treatment facilities are properly treated and processed. After treatment and processing, these residuals can be recycled and applied as fertilizer to improve and maintain productive soils and stimulate plant growth.

In some wastewater treatment applications such as DAF (Dissolved Air Flotation), anaerobic digestion, and traditional municipal wastewater, a Uzelac dryer is used for the final drying of the sludge or digestate. The dewatered solids are conveyed to the Uzelac dryer's inlet, where the drying process begins with a heated airflow coming in contact with the sludge. The airflow carries the product from the dryer into a collection system, where the air and dried product are separated. The product is then conveyed to the storage area. Where desired, other operations such as screening and sorting may take place as well.

Drying biosolids in this way help ensure that useful materials are recycled on land and harmful materials are not released to bodies of water.

### Examples of Biosolids dried by Uzelac:

- Digestate
- Municipal Biosolids
- DAF solids
- Various manures
- Industrial sludge

## Ecoremedy

**UZELAC**  
INDUSTRIES INC.  
DRYING SYSTEMS

<b>Project Location:</b> Morrisville, Pennsylvania	<b>Project Completion Date:</b> March of 2019	<b>System Size:</b> SPD-4000	<b>Finished Product:</b> Biosolids
---	--	---------------------------------	---------------------------------------

### INDUSTRIAL-SCALE BIOSOLIDS GASIFICATION SERVING THE HOST MUNICIPALITY AND THE GREATER PHILADELPHIA REGION

Within twelve months, Ecoremedy® engineered, financed, permitted, and constructed the facility under an innovative BOOM (Build/Own/Operate/Manage) model.

The Morrisville Municipal Authority provided a quarter-acre parcel adjacent to the dewatering building and a biosolids supply contract for a fixed-fee per ton to Ecoremedy.

Beginning in 2020, the project will process all biosolids generated on-site. An additional 21,000 wet tons per year of capacity is available as a regional merchant facility.

The activated biochar is under development as an alternative powdered activated carbon for filtration and adsorption applications.

*"Uzelac was responsive and easy to work with.  
They really stood behind their product."*

*- Dave Mooney President and CEO, Ecoremedy LLC.*

