



PORTABLE

AUTONOMOUS

SCALABLE

AFFORDABLE

# Concentrating the Power of 300 Suns for Sustainable Remediation

## REVOLUTIONARY DAIRY AND CAFO WASTE TREATMENT DISPOSAL SOLUTION

### BENEFITS

- Uses sun to clean up agricultural runoff and ponded effluent.
- Kills up to 99% of *E. coli*.
- Reduces total coliform to discharge permit limits.
- Sterilizes bacteria.
- Begins urea conversion.
- Reduces COD and BOD.
- Allows for the collection of methane.
- Minimal power. No in-ground infrastructure.
- Verified by an independent environmental laboratory and Oregon State University
- Depreciable as capital equipment and lease financeable.



Ray® Generation 2



SCALABLE SYSTEM FOR HIGHER THROUGHPUT

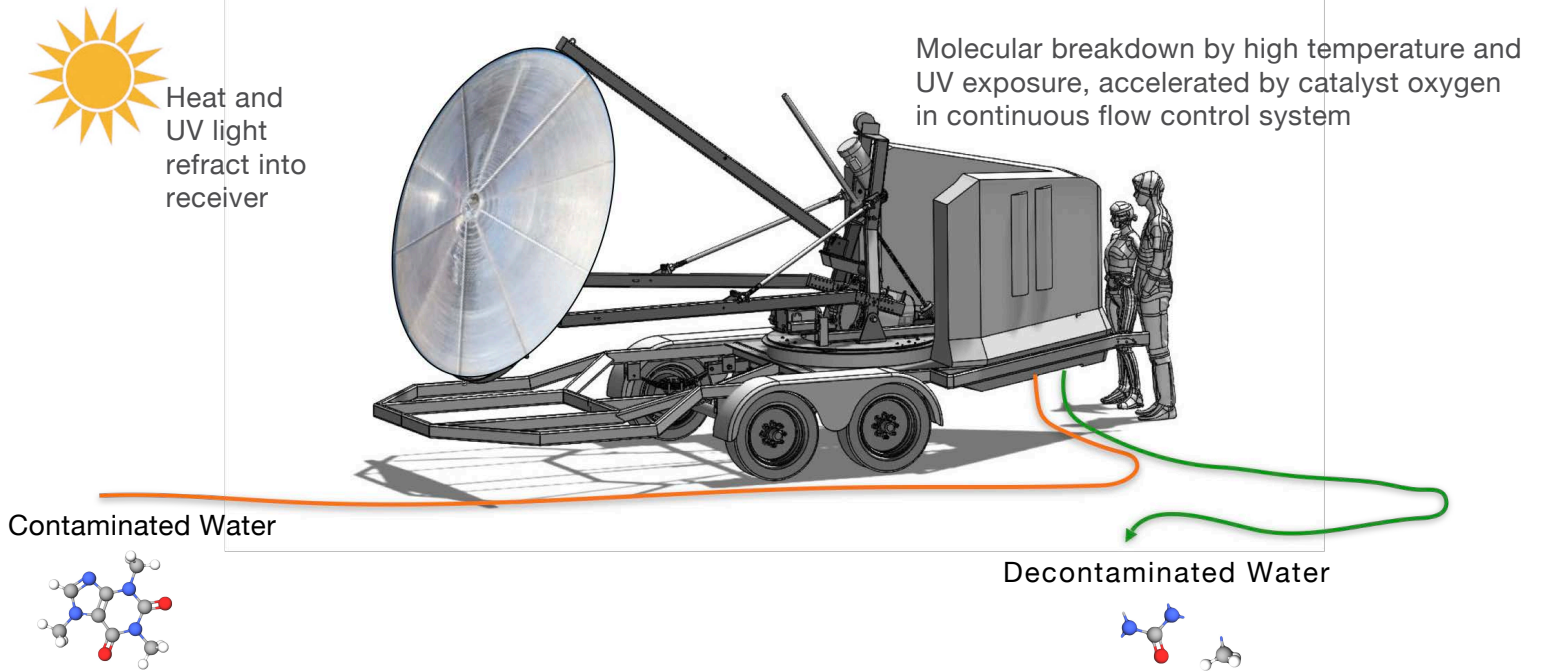


For a video and more information about Ray and our company visit us at [www.focaltechnologies.us](http://www.focaltechnologies.us)

## HOW Ray® WORKS

Ray uses solar tracking technology to automatically align with the sun. Ray then feeds fluids or solids into the reaction chamber where molecular breakdown occurs due to intense UV exposure, catalyst agents, and high heat solar concentration from Ray's lens.

### Solar Photocatalytic Process



### SYSTEM SPECIFICATIONS: 8-40'

**THROUGHPUT** 5 - to above 300 gpm when fully scaled. Variable, based on size and conditions.

**RECEIVER** Temperature controlled at 170 °F. Stainless with quartz cover, acid resistant fittings and seals.

**REFRACTOR** Lightweight durable acrylic, repairable, hail resistance. Variable sizes.

**CONFIGURATION** Free standing with retractable wheels and hitch for easy deployment.

**POWER** Can be customized for individual site requirements, PV options available.

**DESIGN** Engineered to withstand 90 mph wind loads. Crafted with stainless steel, there is a 10 year minimum life on the refractor and 20 years on most components.

**FINANCING** Leasable and depreciable. Eligible for USDA Rural Development Grants.

**ALTERNATE APPLICATIONS** Also tested on glycols, coliform, and high BOD content effluent including food processing waste. Applicable to pesticides and COD.

**FOCAL TECHNOLOGIES, INC. IS A  
PROUD MEMBER OF THE OREGON  
DAIRY FARMERS ASSOCIATION**



To speak with a representative about pricing and other inquiries contact us @ 503.804.0143 or 800.710.8131