

Class B Disinfection 100% Energized by Solar

BENEFITS: SOLAR CleanB[®] SOLUTION



Zero electrical costs for Class B disinfection, deodorization and stabilization



Low capital costs required



Potential to process as a not energy producer / sell electricity back to the grid



No increase in standard footprint - solar attached to roof of conex or building



All inclusive package equipped with high-efficiency solar panels, LiFePO4 battery, controller, inverter and converter. 3,500+ cycles.

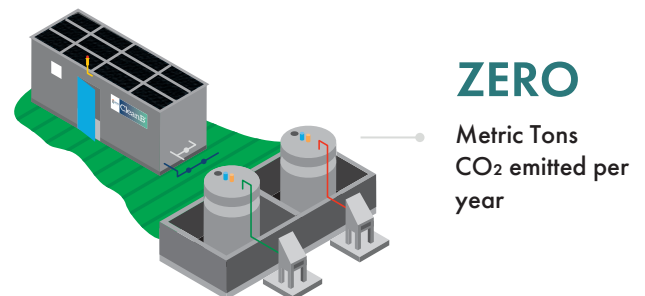
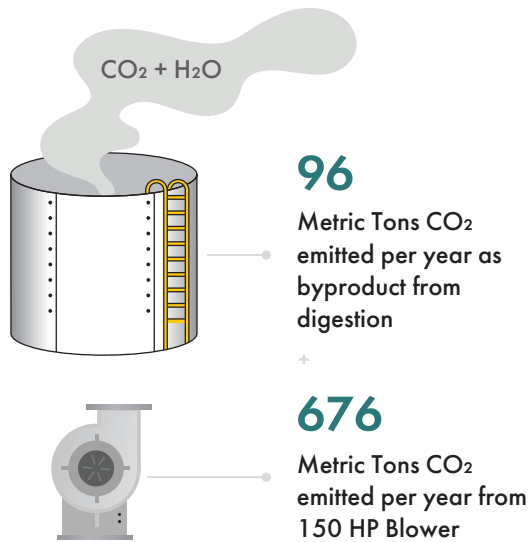


Equipped with 1,400 - 2,800W fast charging solar panels (sized according to location and operating hours)















SOLAR CleanB[®] EMISSIONS COMPARED TO AEROBIC DIGESTION

CleanB[®] : ZERO emmisions compared to **>770 Metric Tons of CO₂** emmisions from aerobic digestion (assuming 5 MGD facility with 150 HP blower)

















Source: Sources of Greenhouse Gas Emissions | US EPA

Replacing one 5 MGD Aerobic Digester with a CleanB® equates to the following EPA GHG Equivalency annual savings:

 184 gasoline-powered passenger vehicles driven for one year	 1,974,442 miles driven by an average gasoline-powered passenger vehicle
 86,868 gallons of gasoline consumed	 75,835 gallons of diesel consumed
 850,803 pounds of coal burned	 10.2 tanker trucks' worth of gasoline
 101 homes' energy use for one year	 152 homes' electricity use for one year
 4.2 railcars' worth of coal burned	 1,787 barrels of oil consumed
 35,465 propane cylinders used for home barbecues	 0.0002 coal-fired power plants in one year

CLEANB® SOLUTION BENEFIT SUMMARY

 EPA approval as an equivalent PSRP process in 2015;	 Average of 90-95% dewatering capture rates for Total Nitrogen, Total Phosphorus and Carbon – limited solubilization;
 Improve regulatory compliance: Class B disinfection in ten minutes and VAR compliance utilizing incorporation or the SOUR test;	 Reduces BOD loading by >50% via the filtrate (compared to digestion)
 Enhanced dewaterability / decreased hauling costs (average 20%);	 Decreases GHG emissions by up to 99% compared to digestion;
 100% Reduction in energy consumption	 Simplify operations; One-button Start-up/Shutdown;
 Reduction in polymer (average 20%);	 Minimal maintenance and labor demands; Only 8 moving parts (5 MOVs, 1 air compressor, and 2 chemical pumps);
 Reduction of odor;	 Treats facility sizes between 0.5 and 20 MGD;
 Small footprint - Eliminates space requirements for digesters and other equipment;	 Premium end-product readily suitable for Class B land application;

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