



KEEPING THE POULTRY INDUSTRY PRODUCTIVE AND PROSPEROUS

With RAISE Reclaim and MLC technology



INDUSTRY FACTS

- United States is the worldwide leader in chicken production
- Chicken is the number one meat processed in America
- The meat and poultry industry is the largest segment of U.S. agriculture
- The poultry industry processed 9 billion chickens in 2017
- Chicken is the most popular amongst protein in the US
- (2020) the US poultry industry provided:
 - 2.1 million jobs
 - \$121.1 billion in wages
 - \$41.9 billion in government revenue
 - \$576.6 billion in economic activity

CHALLENGES

- Excess application of manure and nutrient-rich fertilizer to soils
- Algae bloom from runoff
- Impaired rivers, streams, and lakes
- High use of freshwater
- Ammonia emissions
- Other greenhouse gas emissions
- Lawsuits / negative attention from environmentalists and ESG requirements

TYPICAL POLLUTANTS FOUND IN THE AIR SURROUNDING CAFOs

CAFO Emissions	Source	Traits	Health Risks
Ammonia	Formed when microbes decompose undigested organic nitrogen compounds in manure	Colorless, sharp pungent odor	Respiratory irritant, chemical burns to the respiratory tract, skin, and eyes, severe cough, chronic lung disease
Hydrogen Sulfide	Anaerobic bacterial decomposition of protein and other sulfur containing organic matter	Odor of rotten eggs	Inflammation of the moist membranes of eye and respiratory tract, olfactory neuron loss, death
Methane	Microbial degradation of organic matter under anaerobic conditions	Colorless, odorless, highly flammable	No health risks. Is a greenhouse gas and contributes to climate change.
Particulate Matter	Feed, bedding materials, dry manure, unpaved soil surfaces, animal dander, poultry feathers	Comprised of fecal matter, feed materials, pollen, bacteria, fungi, skin cells, silicates	Chronic bronchitis, chronic respiratory symptoms, declines in lung function, organic dust toxic syndrome



THE RAISE RECLAIM AND MLC POULTRY PRO SOLUTION

Advanced Proven Technology is available to tackle all challenges with animal feeding operations to continue their prosperity as well as settle agreements in cleaning up the waste generated.

- No significant changes to existing animal feeding operation plants
- No wasted animal manure or discarded biosolids
- Eliminates the primary cause of gaseous emissions
- Generates clean pure water from sludge which can be reused
- Elimination of potential lawsuits for damaging water quality/Air quality

Our systems would process 100% of the total material from the processing plant with zero solid waste and zero wastewater produced within the plant area. The output would be liquid and or gas fuel and clean energy.

We make sure that the waste is not returned to the local communities or dumped into sea, river, or landfills and processed to produce energy, water, fuels, and other high-value products that create many benefits to the total area.

By adopting our new processing technologies and business modeling, we can grow the agriculture sector, clean up the past environmental degradation, and resolve air, ground, and water pollution with long-term material processing agreements.



FEATURES

- **Highly Customizable Solution**
 - Can process anywhere from 6 to 6,000 tons per day
 - Can process anywhere from 150,000 gallons to 8.6 million gallons of water per day
- Creates 700 kilowatts of electricity per ton processed
- Zero Water Pollution
- Creates PURE water
- Zero Land Pollution
- Zero Waste
- Zero Carbon footprint -> Reduces footprint from other activities
- Faster ROI and more reliable than renewable and traditional energy sources
 - Solar
 - Wind
 - Nuclear
 - Coal
 - Natural Gas
- Uses all types of waste and discarded material
- Can be used for the production of electricity or green biofuels
- Can create an organic fertilizer
- Cleans up past waste streams

THE BUSINESS MODEL ADVANTAGE FOR POULTRY FEEDING AND PROCESSING OPERATIONS

- All of the waste material handlings fall within regulatory compliance and all waste would be handled on-site.
- Eliminates manure containing contaminants (eliminates lawsuits), and can turn that manure into a variety of useful byproducts.
- All of the energy for the feeding operation will be generated on-site and any surplus energy will be sold privately or to the state, county, and national grids as waste to energy and clean sustainable energy classification.
- Property value in surrounding areas is affected by the AFOs because of smell, air quality, water quality, etc. The closer the property, the lower its value is. (We raise Property value)
- We have a good number of installations across the globe that are custom-made according to local requirements. A few of the installations are:
 - A small plant in Pendale, Randvaal, South Africa
 - An abattoir in Kroonstad, South Africa
 - A medical waste plant in Rhode Island USA
 - A plastics to low sulfur diesel plant in the USA
 - A MSW plant in Emalahleni, Mpumalanga, South Africa
 - A medical waste plant in Ireland



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