DON’T LET THAT WASTE GO TO WASTE.

Rethink how you dispose.

- Eliminate disposal costs
- Produce pellet fertilizer
- Make some Mooolala!

VULCAN DRYING SYSTEMS
vulcandryingsystems.com | 660-263-7474
BENEFITS

Benefits of Manure Derived Fertilizer
Manure is an expected by-product of the livestock industry. If left untreated, manure is just that... manure. When properly processed manure becomes a value added marketable commodity, also known as fertilizer.

The composition of nitrogen, phosphorous, potassium and other nutrients makes treated manure an excellent fertilizer. The organic matter also helps to improve soil structure, aeration, water infiltration and soil moisture holding volume.

A dry fertilizer product has many advantages over wet waste applications including less potential for run off, an increase in the number of days available for application, as well as an exponential increase in available sites for application.

With uses in agriculture, horticulture, landscaping, and other industries, the potential markets for revenue generation are numerous.

Problems created by manure:
• Pressure from government regulations to use alternative management practices.
• Risk of serious environmental issues.
• Costly disposal fees.
• Fines if not disposed of correctly.
• Hauling and storage challenges.

Solutions by drying in a Vulcan Drying System:
• Disposal cost in many cases can be reduced or completely eliminated.
• Drying and other conversion technologies we provide, drastically reduce the volume of manure, adding value in the process.
• Manure odors are reduced, and odor producers, such as ammonia, are able to be sequestered from the vent gas.
• Produce a marketable dry pellet fertilizer or biochar, generating revenue from what was waste.

We know our customers expect not only a good product, but a company and service that stands behind its work and its word. Each system is supplied complete with all the equipment and infrastructure components you need to quickly get up and running. Our installation, commissioning, and training services are included in each system sold. At Vulcan Drying Systems, we know our success is measured by your success.
Poultry, Bovine, and... your animal manure into a marketable commodity. Contact Vulcan® Systems, and let us help you turn regulations have been introduced. Evolution caused by manures, new and more stringent amid the conflicts over who is responsible for pollution. Recent evidence shows that manure contributes significantly to greenhouse gas emissions and can be a source of water pollution. The need for more efficient methods of manure management is becoming increasingly urgent. The organic matter also helps to improve soil structure, and the composition of nitrogen, phosphorus, and potassium in manure makes it a valuable natural fertilizer. If left untreated, manure is just that... manure, while properly processed manure becomes a value-added product.

Base System
All of the components necessary to feed and dry material to a granular end product, including air pollution control equipment, make up the base system. For a low cost quick solution, the base system is all you need.

Feed Conditioning System (Optional)
Often referred to as the debris removal system, the feed conditioning system is used to separate manure from unwanted products. After the material is fed into a feed hopper, the material travels up a conveyor and enters a trommel. The trommel does all the heavy lifting by sorting the valuable manure from unwanted debris. The debris will make its way to a bin for disposal.

Weight Monitoring Feed Hoppers (Optional)
Additional feed hoppers can be added to the beginning of the process, which include weight cells and constant feed weight monitoring. This addition allows for streamlined control and highly accurate recordkeeping of feed processing rates.

Dry Storage Silo and Elevator Conveyor (Optional)
The elevator conveyor brings off-spec granules from the screen shaker to be stored in the dry storage silo. The silo allows material, that does not meet required sizing specifications, to be stored and then recirculated back into the feed as seed material to produce the specified granules.

Fertilizer Additive Dosing System
Customer specified additives are stored in the dosing equipment above the mixer. Doses release precise amounts of each into the mixer where it will be combined with the wet feed material before it is conveyed into the dryer. Any number of fertilizer ingredients can be added to meet the requirements of various end-product specifications.

End Product Sizing System (Optional)
After exiting the dual knife gate valve at the end of the rotary drum, all dry manure material enters a screen shaker to separate the dried end product according to size. VDS has the ability to meet our clients’ needs and size the material according to their specifications.

Discharge Valve
Overs Out

Dry Storage Silo

BeneFitS by Drying

Markets for revenue generation are numerous. A dry fertilizer product has many advantages over wet waste applications including less application, little if any field drying, reduced or completely eliminated fines if not disposed of correctly, and pressure from government regulations to use alternative management practices.

Ammonia Scrubber (Optional)
By utilizing the second stage ammonia scrubber, ammonia is extracted from the vapor stream and ammonium sulfate is recovered for use as a liquid fertilizer.

Frac Water Tank with Mixer (Optional)
The frac water tank serves as a storage solution for those without a lagoon or other source of water. The water can be stored for a period of time before being discharged in a field as a liquid fertilizer.

Base System
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Feeder Bins

Manure Feed

Cyclone

Aircraft Dryer

End Product Sizing System (Optional)

Discharge Valve

Overs Out

Exhaust to Atmosphere

Ammonia Scrubber (Optional)

Frac Water Tank with Mixer (Optional)

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See why we are a leading technology provider for animal manure nutrient recovery.

Why Vulcan Drying Systems?

Vulcan Drying Systems is a leader in custom-designed thermal systems. Our thermal technology has assisted clients from a host of industries to reduce operating, storage and transportation costs, meet environmental regulations, find renewable energy sources and process what was once considered waste for beneficial reuse.

Servicing accounts on six continents and in over 80 countries is a testament to our ability to handle any size thermal project and provide our clients with an economical solution.

Contact Vulcan Drying Systems today to learn more about our innovative manure processing technology.