



Media Kit

Company overview

Renewable Carbon Management, LLC (RCM) sells and licenses the NaturTech Composting System for converting organic materials into value added commodities. We also provide strategic partnerships and operating expertise for the lowest cost and highest environmental performance available. We can design systems for processing organics customized to our customer's budget and community standards. Our technologies manage organics from the municipal solid waste stream, agricultural residuals, food processing by-products, livestock manure, animal mortalities, and wastewater treatment biosolids (raw or digested). Our mission is to help communities convert underutilized organic resources into economic development and sustainable community opportunities.

Corporate name and address:

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Market overview

Organic residuals are generated in every community around the world and are a nuisance to dispose of. These feedstocks wastewater treatment biosolids, food residuals, animal manure, forest by-products, wood scrap and yard debris. Generators of these wastes pay "tipping fees" to landfill, incinerate, compost, stockpile or spread these materials on farmland. Contractors using the company's equipment are paid to process these raw materials who convert them into revenue generating products. Government regulations vary from state to state and country to country and waste disposal fees vary as well. If a composting company were to be profitable independent of these "tipping fees," it could be competitive by reducing its tipping fees in order to secure long term waste processing contracts. At around 700 million in revenues for tipping fees and 300 million in compost sales, the United States composting industry is estimated at one billion dollars per year, growing from an estimated 50 million per year in 1975.

At least, thirty-seven states have regulations banning yard trimmings from landfills and all organics are banned from landfills in most of Canada and the European Union. Leachate and pathogen regulations restrict disposal of biosolids in landfills and suitable land for spreading partially treated solids on farm land and are becoming less and less available. New laws are further reducing air emissions such as ammonia and fugitive methane from organic material stockpiling and low tech composting systems. The current clean air act has identified certain volatile organic compounds released from stockpiles as hazardous air particles (HAPS), paving the way low tech operations to be regulated as hazardous waste generators. Many states and communities have radically restricted the use of unstabilized nitrogen and unprocessed phosphorous on turfgrass, lawns and farmland.

Product overview

The NaturTech Composting System is an in-vessel, containerized composting process using modified 20 to 45 ton Intermodal containers for converting organic resources into valuable compost and soil conditioning products. The system is recognized as a leading technology in North America for handling a variety of difficult-to-manage waste materials including food scraps and other organics from municipal, industrial and agriculture waste streams as well as biosolids from wastewater treatment plants.

The containerized in-vessel composting system is the state of the art application of forced aeration with temperature control, recognized in various studies and regulatory best management practices (BMPs) as the most advanced composting technology available as measured by the rate of volatile solids reduction and

reduction of phytotoxicity effects. Over 10 facilities have been established with NaturTech system for handling municipal, industrial, and agricultural waste materials in USA and Canada.

The system was recently certified by the U.S. Navy to illustrate the advantages of invessel composting and to serve as a demonstration project for the entire U.S. military. A NaturTech system is currently under construction at the United States Department of Agriculture research station in Beltsville, Maryland processing cafeteria waste from the US Congress, USDA headquarters and the Smithsonian museum. Its 5 digester system in New Mexico has been expanded to a sixteen digester system. The US Navy facility at Whidbey Island, Washington has received Compost Facility of the Year awards from the Solid Waste Management Association of America (SWANA) and the US Composting Council. The Whidbey Island composting operation has received over eighteen additional awards for excellence and performance.

Management Team

Jim McNelly, Inventor and Founder

Jim has been a leading innovator and pioneer in the field of composting for over 35 years. He founded the U.S. Composting Council in 1989, has served as a trustee and member of the USCC Board of Directors, participated on the USDA Sustainable Agriculture Quality of Life Task Force and Alliance for Environmental Stewardship. He participated in the US Asian Environmental Partnership, and has provided his expertise and passion to many other local and regional environmental organizations and agencies.

Jim is the author of such publications as, States of Missouri and Michigan "Municipal and Residential Composting Guides", Gale Research's "Recycling Sourcebook", and "Research Needs in the Vermistabilization Field" for the National Science Foundation, "Finding a Home for Yard Waste" and the "Joy of Composting".

Through Jim's innovations, he designed the first U.S. composting operation collecting grass clippings and the first to use source separated organics for co-composting wastewater treatment biosolids, and developed the first commercial use of vermistabilization an organic solid waste management system.

Russ Johanson, Vice President of Engineering

With over 40 years conveyor and material handling design experience, composting and waste to energy facilities, Russ is responsible for overseeing all installations and on-site coordination.

Mary Macdonald, Marketing Director

Mary has over 25 years experience helping businesses implement effective marketing strategies and supporting programs with an emphasis on technical marketing. Mary is owner of Clear Focus Marketing a B2B technical marketing consulting and services company. She was also Sr. US Channel Marketing Manager for Autodesk, Inc., design software market leader, where she managed the development of field sales and marketing programs.