

WHO WE ARE

Solving Complex Organic Waste Issues by Creating
Renewable Energy & Clean Water



dynamicgrp.us

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Who We Are

Dynamic was founded in 2011 and is a full-service company that provides leading-edge waste recovery solutions for both the Agricultural and Food Processing Industries.

Our founding owners are involved with the daily operations of the business. They are the driving force of the company by integrating Dynamic's technology and design into the following areas: landfill diversion, anaerobic digestion, nutrient concentration, and water treatment.

Dynamic adds a unique value in the field by being experienced, and knowledgeable in the finance, design, development, operation, and management of customized world-class infrastructure assets. These turnkey renewable energy and clean water solutions dispose of organic waste to impact the economy in environmentally friendly ways.

Dynamic Core Beliefs:

Dynamic has a service-oriented philosophy. Our goal is to build long-term client relationships by combining strong core values with a culture of success.

Dynamic Core Values:

Dynamic's values are an important part of the work culture. The values we feel strongly about are; honesty, the value of hard work, strive for excellence, integrity, and service-oriented.

Dynamic Culture for Success:

Dynamic hires quality people that share the same values as the company. Time is invested to mentor employees to maintain a strong Dynamic Team.

Dynamic Client Relationships:

Dynamic's client relationships are the foundation of the business. Keeping them informed in decisions and putting the needs of the clients first is Dynamic's priority.

Services Offered by Dynamic

-  Consulting Expertise
-  Equipment & Parts Experts
-  Feasibility Studies
-  Feedstock Evaluation & Procurement

-  Financial Analysis
-  Operations & Management
-  Organic Waste Analysis
-  Project Development
-  Technology Evaluation

Why Choose Dynamic

What Sets Dynamic Apart from Other Developers in the Marketplace

Dynamic brings a unique and valuable viewpoint to the industry with our proprietary technology and supplier independence with sourcing anaerobic equipment and parts. Dynamic stays abreast of emerging technologies and recognizing their possible applicability to clients. Members of Dynamic's team have successfully designed, engineered, constructed, and operated over a dozen facilities in the United States.

Reasons Dynamic was Founded

The organic waste-to-energy marketplace lacked developers applying a proven business model. Before 2011, Dynamic's owners worked together. The efforts of everyone alongside one another had proven to be successful, which resulted in their established partnership. This was the natural next step in building what is now known as Dynamic.

Dynamic's Impact on the Environment

Dynamic's state-of-the-art proprietary process utilizes a combination of proven technologies. The technologies will include anaerobic digestion, as it can solve three very problems. It will solve our growing worldwide organic waste disposal, filling our landfills, and taxing wastewater treatment facilities. As well as escalate worldwide energy usage, climate change, and the need for renewable energy.

Lastly, water usage and wastewater will be a result as a part of animal agriculture.

What Makes a Good Business Model in the Industry

- An understanding and economic impact of all aspects of the project, from the capital to operational costs, from feedstock procurement thru nutrient end-use
- Designed, built, and operated with proven technologies, able to be maintained by trained local operators
- A team with the ability to control project development through plant operations
- Dedicated and professionally operated to provide high up times and maintain the highest levels of safety at the facility
- Creates an economically viable solution that meets owner expectations

Subsidiaries of Dynamic

BC ORGANICS

BC Organics is the newest project to be built and owned by Dynamic. Wisconsin awarded a grant to Dynamic to develop an Anaerobic Digester Facility in Greenleaf, Wisconsin. BC Organics will be one of the first commercial biorefinery facilities that will provide farms with more sustainable manure management practices.

DYNAMIC CONCEPTS

Dynamic Concepts focuses on technological design, consulting services, project development, feasibility, and financial studies. In addition, this subsidiary handles the building portion of Dynamic Projects.

DYNAMIC SYSTEMS MANAGEMENT

Dynamic Systems Management provides facility maintenance, management, and labor operations to the digester facilities.

NATIONAL ORGANICS

National Organics focuses on feedstock evaluation, procurement, and management of manufactured organic food waste.

US BIOGAS

US Biogas specializes in the supply and integration of biogas plant equipment and parts. Drawing from over a decade of experience designing, building, and operating various equipment from around the country.

Current Projects



Ash Grove Dairy

Located in Lake Benton, Minnesota

This is a farm with 2,000 cows and will have 1 digester built.



BC Organics

Located in Greenleaf, Wisconsin

This is the newest project to be built and owned by Dynamic.



Drumgoon Dairy

Located in Lake Norden, South Dakota

This is a farm with 6,500 cows and will have 3 digesters built.



Global Dairy

Located in Estelline, South Dakota

This is a farm with 2,500 cows and will have 1 digester built.

Current Projects Continued



Marshall Ridge Farms

Located in State Center, Iowa

This is a farm with 8,000 cows and will have 3 digesters built.



Tri-Cross Dairy

Located in Viborg, South Dakota

This is a farm with 5,500 cows and will have 2 digesters built.



Van Winkle Dairy

Located in Canistota, South Dakota

This is a farm with 4,000 cows and will have 2 digesters built.



Victory Farms

Located in Reville, South Dakota

This is a farm with 5,000 cows and will have 2 digesters built.

[Learn More](#)

Past Projects

Crave Brothers Farm



Located in Waterloo, Wisconsin

Dynamic completed this in phases:

Phase 1: 2006 | **Phase 2:** 2008 | **Phase 3:** 2017 | **Phase 4:** 2006-Present

Phase 1: In 2006, Dan Nemke, and Karl Crave developed and constructed an anaerobic digester at the Crave Brothers Dairy in Waterloo, WI.

Phase 2: After 2 years of operation and maintenance success, the project was expanded doubling the size of the facility and tripling the electrical production. Utilizing the lessons learned from the construction of the first plant, numerous process upgrades were also installed based on the recent experience from operating and maintaining the plant.

Phase 3: In 2017, Crave Brothers Dairy contracted with Dynamic to perform a facility upgrade at Crave Brothers Dairy digester. The system had successfully operated since its last expansion in 2009 and the biogas engine has exceeded its life expectancy and accumulated over 65,000 operating hours. The upgrade included a complete retrofit of the solids separation system and included the installation of a new state-of-the-art fiber bedding drying system that would use renewable biogas as a fuel.

Phase 4: Ongoing Management Consulting

Services included:

- Project design and engineering
- Upgraded gas handling system
- Continuous operational technical support
- Replacement of new GE Jenbacher CHP system
- Install new solids dual fuel fiber bedding gas dryer system
- Updated controls system, digester cleaning, and other site upgrades

The Crave Brother Dairy digester process dairy manure and a small amount of other organic waste including whey from Crave Brothers Cheese, the farm cheese-making facility, to produce biogas and electricity.



[Learn More](#)

Dane County Community Digester



Located in Waunakee, Wisconsin

Dynamic completed this project in phases.

Phase 1: 2008 | **Phase 2:** 2009 | **Phase 3:** 2010-2011

The principals of Dynamic developed and installed a centralized community anaerobic digester system to process manure waste from three dairy farms; Endres Dairy, Ripp's Dairy Valley, and White Gold Dairy located near the City of Waunakee in Dane County, Wisconsin. The dairies are located within one mile of each other and have a total of 2,500 cows combined.

The waste stream is supplemented by waste fats, oils, and grease substrates. Manure and food waste create biogas for use in the on-site generation of renewable power. The fiber material is separated through centrifugal force. Then the fiber is sold as a soil amendment in the landscaping and horticultural markets, and the Project's SPV revenue is returned through the sale of renewable power and fiber.

Phase 1: Identified Project & Obtained Project Exclusivity

Phase 2: Extensive Project Evaluation & Business Plan Development

Phase 3: Construction

Services Provided:

- Commissioning
- Project feasibility
- Project engineering
- Supply agreements
- Offtake agreements
- Project development
- Re-zoning and permitting
- Construction management

This project was performed in close coordination with the County Government of Dane County. Dane County awarded a \$3.3 million grant for the removal of phosphorus in the watershed. The project has been continuously operational since the initial commissioning and continues to make renewable energy and remove phosphorous from the watershed.



[Learn More](#)

GL Dairy Biogas



Located in Middleton, Wisconsin

Dynamic was completed in phases:

Phase 1: 2011 | **Phase 2:** 2011 | **Phase 3:** 2012 | **Phase 4:** 2013-2017

Dynamic (project, proposed under US Biogas) developed a turnkey Biogas & Nutrient Recovery System for GL Dairy Biogas known today as (Middleton Dairy Digester) in Middleton, WI. We broke the development up into two phases. Phase I was the initial development to ensure no fatal flaws with financial projections for the project. Phase II starts with the permitting work, electrical interconnect, and preliminary design of the project. Then the Phases move into construction before the final phase of operations and management.

Phase 1: Initial Project Development

Phase 2: Due Diligence of Documentation

Phase 3: Construction

Phase 4: Operations and Management

Services Provided:

- Operator training
- Facility commissioning
- Detailed financial analysis
- Total project cost estimate
- Digester equipment furnishing
- Total system design and engineering
- Substrate agreements for off-farm wastes
- Currently providing operational consulting services
- Interconnection agreement and power purchase with NIPSCO
- Led engineering, procurement, and construction management of the project
- Obtained all necessary permit and zoning requirements for placement, construction, and operation of the project



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Sunnyside Biogas



Located in Sun Prairie, Wisconsin

Dynamic was completed in phases:

Phase 1: 2011 | **Phase 2:** 2013 | **Phase 3:** 2012 | **Phase 4:** 2013-2017

Dynamic provided the engineering and construction management services for the Sunny Side Digester project. This system processes the manure from a 1,200-cow dairy and utilizes off-farm substrates to power a 633 kW Combined Heat and Power unit to produce renewable electricity. It also includes a solids separation system to create a bedding product for the dairy. The separation system consisted of a slope screen and modified screw press with an air-conveyance blower system to provide moisture reduction.

Phase 1: Initial Project Development

Phase 2: Due Diligence of Documentation

Phase 3: Construction

Phase 4: Operations and Management

Services Provided:

- Total system design
- Detailed financial analysis
- Total project cost estimate
- Substrate agreement(s) with all applicable parties
- Feedstock and land lease agreements with dairy farm
- Provided management and operations of the facility (2013-2017)
- Interconnection and power purchase agreement with Alliant Energy
- Led engineering, procurement, and construction management of the project
- Obtained all necessary permit and zoning requirements for placement, construction, and operation of the project



[Learn More](#)

Waste No Energy



Located in Monticello, Indiana

Dynamic was completed in phases:

Phase 1: 2011 | **Phase 2:** 2012 | **Phase 3:** 2013

Dynamic (project, proposed under US Biogas) developed a turnkey Biogas & Nutrient Recovery System for RAKR Farms known as Waste No Energy in Monticello, Indiana. We broke the development into two Phases. Phase I was the initial development to ensure no fatal flaws with financial projections for the project. Phase II begins the permitting work, electrical interconnect, and preliminary design of the project. Phase III was the start of construction for the project.

Phase 1: Initial Project Development

Phase 2: Due Diligence of Documentation

Phase 3: Construction

Services Provided:

- Operator training
- Facility commissioning
- Detailed financial analysis
- Total project cost estimate
- Digester equipment furnishing
- Total system design and engineering
- Substrate agreements for off-farm wastes
- Currently providing operational consulting services
- Interconnection agreement and power purchase with NIPSCO
- Led engineering, procurement, and construction management of the project
- Obtained all necessary permit and zoning requirements for placement, construction, and operation of the project



Springfield Clean Water



Located in Middleton, Wisconsin

Dynamic completed this project in phases.

Dane County partnered with Dynamic and Springfield Clean Water to evaluate and install a feasible economical solution for a nutrient concentration system. By managing the nutrient concentration system, we can capture additional phosphorus at the GL Dairy Biogas facility. The installation would “remove water” from the centrate produced by the current separation system. Removing over half of the volume as clean water allows the strategic management of nutrients because of the improved economic feasibility of hauling further distances.

Phase 1: Feasibility Study

Phase 2: Request for response development

Phase 3: Review request for responses

Phase 4: Create Business Plan

Phase 5: Permitting

Phase 6: Project Design

Phase 7: Construction monitoring

Dynamic worked closely with Dane County officials and the Wisconsin Department of Natural resources to successfully develop a program and has been issued a discharge permit to discharge clean water produced by the system into a nearby stream.

Services Provided:

- Feasibility study
- Project development
- Vendor equipment selection
- Financial and economic viability
- Coordinated the engineering of the project
- Managed the interfaces between GL Dairy Biogas, Dane County and Springfield Clean Water, negotiated commercial agreements with all parties.
- Secured the required permits for the project, including a Wisconsin Pollutant Discharge Elimination System (WPDES) permit allowing the discharge of the clean water into the Pheasant Branch Creek.



[Learn More](#)

Generate Fremont Digester



Located in Fremont, Wisconsin

Dynamic completed this project in phases:

Phase 1: 2015 | **Phase 2:** 2016 | **Phase 3:** 2017 | **Phase 4:** 2017-2020

Dynamic teamed up with a 3rd party equity partner to acquire, upgrade, and operate the idled 3 (MW) megawatt digester facility in Fremont, Michigan. Dynamic completed a facility upgrade including mechanical, electrical, controls upgrade, and the construction of storage lagoons. Dynamic provided asset management of the facility included turnkey operations. Fremont Regional Digester processes a variety of organic waste products ranging from solids, liquids, and packaged wastes into renewable biogas (methane). This facility generates approximately 3 MW of renewable electricity. Then the power is sold to Consumers Energy under a long-term contract.

Phase 1: Identified Project & Obtained Project Exclusivity

Phase 2: Extensive Project Evaluation & Business Plan Development

Phase 3: Construction

Phase 4: Operations & Management

Facility Service Provided:

- Inventory management
- Construction management
- Total day to day operations
- Permit reporting and compliance
- Biological AD system management
- Project business plan development
- SCADA system redesign and installation
- Facilities upgrade development and design
- Decommission and recommissioning services
- Substrate waste procurement and management
- Preventative and corrective maintenance programs



Central Ohio BioEnergy



Located in Columbus, Ohio

Dynamic completed this project in 2018.

Dynamic provided management oversight during the ownership transition period of an operating facility in Columbus, OH. The facility's anaerobic digesters process food waste and biosolids into renewable natural gas for vehicle fuel. Dynamic had a senior team member on-site at least five days per week, managing the operations during the transition period. The duration of the project Dynamic ensured the facility would operate with consistency and best practices according to the industry standards. Dynamic also assisted in evaluating and inspecting the status of the system to facilitate the process.

Services Provided:

- In-depth equipment evaluation
- Independent engineering review
- Provide transition and operation management services
- Developed expansion and upgrade plan for a prospective new owner



Jockvalley Farms



Located in Ashton, Ontario

Dynamic completed this project in 2019.

Jockvalley Farms contracted Dynamic to troubleshoot their issues of a damaged roof on their anaerobic digester. We specialized in replacement parts and had them expedited. Local labor workers in the community finished the work to complete the contracted project. As part of the corrective action plan to assure safe operation in the future, we added additional instrumentation and controls.

Services Provided:

- Investigated issues and provided a written report including root cause analysis
- Evaluated multiple options for replacement parts with time frame being critical
- Coordinated on site activities and confirmed a safe worksite
- Provided updated instrumentation and control logic to prevent issue from happening again
- Provided recommissioning and startup procedures

