Press Release

Dürr provides biogas purification system to Wisconsin anaerobic digester facility

**Brown County Organics relies on Dürr’s Sorpt.X SB technology to create pure biogas**

**De Pere, Wisconsin, November 16, 2022 – Dürr’s Sorpt.X biogas purification system was recently installed at Brown County (BC) Organics, a grant-funded anaerobic digester facility owned by Dynamic Renewables. The facility, which held a ribbon cutting ceremony on November 10, is located in Greenleaf, Wisconsin and is the first commercial biorefinery of its kind in the United States. It will utilize 16 digesters to produce renewable natural gas (RNG), fiber bedding and clean water. Start-up will take place in early 2023.**

Dürr designed, manufactured and commissioned the Sorpt**.X** SB system installed at BC Organics. It has a capacity of 2,400 square cubic feet per minute (SCFM) with hydrogen sulfide (H2S) removal and post compression. The system will produce about 1,630 million British thermal units (MMBtu) of renewable natural gas each day.

“The system takes the 60% methane, 40% carbon dioxide (CO2) gas mixture produced by anaerobic digestion of manure and upgrades it to 98% pure methane for injection into the Guardian pipeline, which is a small natural gas pipeline that brings gas from northern Illinois into Wisconsin,” said Tim Golden, Director of Alternative Fuels at Dürr’s Clean Technology Systems division. “There it will be used to create compressed natural gas for vehicles, replacing more than 11,000 gallons of diesel fuel each day and decreasing dependency on fossil fuels.”

Eleven local dairy and beef farms will provide more than 900,000 gallons of manure to the anaerobic digester facility each day using a hub and spoke system. In addition to creating renewable natural gas, the project aims to protect natural resources by reducing potential greenhouse gas emissions and decreasing the amount of manure applied to the land.

After the manure has been digested, the solids will be dried and separated to create more than 135 tons of fiber bedding for cows each day. The remainder will be sold to the horticultural market for use in boxing mixes and as a replacement for peat moss. This process will significantly reduce the amount of phosphorus released into the Lower Fox River watershed in Wisconsin as well.

BC Organics will also produce more than 400,000 gallons of clean, dischargeable water per day using ultrafiltration and a forward/reverse osmosis system. Each participating farm will receive clean water in exchange for its manure, resulting in a reduced need for local ground water. As an added benefit to the local communities, the anaerobic digestion process will also reduce odor by more than 90%.

“BC Organics is providing a more sustainable manure management option for the farms it will serve,” said Golden. “When coupled with the ability to make renewable energy and recycle resources, it’s a clear win for the community and environment.”

For more information about Dürr’s Sorpt**.X** SB biogas purification technology, visit our [website](https://www.durr.com/en/products/environmental-technology/exhaust-gas-and-air-pollution-control/sorpt-x-sorptive-processes/sorpt-x-sb). For additional details about Dynamic renewables visit [www.dynamic-renewables.com](http://www.dynamic-renewables.com).

**Pictures**

A picture containing grass, outdoor

Description automatically generated

**Picture 1:** BC Organics is the first commercial biorefinery of its kind in the United States. It will utilize 16 digesters to produce renewable natural gas, fiber bedding and clean water.

A group of men standing on a boat

Description automatically generated with low confidence

**Picture 2:** Dürr designed, manufactured, and commissioned the Sorpt**.X** SB system installed at BC Organics. The Dürr team pictured from left to right: Tim Golden, Director of Alternative Fuels; Rod Schwartz, Vice President Clean Technology Systems Americas; and Justin Peterson, Technical Sales Engineer.

A picture containing sky, outdoor, building, factory

Description automatically generated

**Picture 3:** The stripper column, flash tank and scrubber column, pictured left to right, are involved in removing carbon dioxide (CO2) from the biogas and water. In addition, the system includes compression equipment and systems to remove H2S, CO2, trace contaminants and moisture.

The Dürr Group has been established in the United States since 1970 and currently employs approximately 1,400 people. From the Campus with a state-of-art validation, testing, and training center in Southfield, MI, Dürr USA represents four of the five divisions. Paint and Final Assembly Systems offers equipment for painting and assembly processes, while Application Technology provides paint, sealants and adhesives application systems. Dürr’s Clean Technology Systems division is leading in air pollution control, noise abatement systems, and battery electrode coating lines. Dürr has three locations in the US: Dürr Systems, Inc. in Southfield, MI, and De Pere, WI; Durr Universal, Inc. in Stoughton, WI. The subsidiary Schenck USA Corp., with headquarters in Deer Park, NY, and additional locations in Hudson, MA, and Southfield, MI, offers balancing machines, vibration and condition monitoring systems, spin testing and services for the aerospace, automotive and general industry. The customers of Dürr USA include automotive and commercial vehicle manufacturers, as well as their suppliers, and a diverse group of other industries like the chemical or wood industry. HOMAG Machinery North America operates the production facilities for HOMAG Group in Grand Rapids, MI, which is also the base for the sales and service company Stiles Machinery Inc. The HOMAG Group produces machinery and equipment for the woodworking industry.

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation and digitalization/Industry 4.0. Its products, systems and services enable highly efficient and resource-saving manufacturing processes in different industries. The Dürr Group supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical, medical technology and woodworking industries. It generated sales of € 3.54 billion in 2021. The company has around 18,400 employees and 120 business locations in 33 countries. The Dürr Group operates in the market with the brands Dürr, Schenck and HOMAG and with five divisions:

* **Paint and Final Assembly Systems:** paint shops as well as final assembly, testing and filling technology for the automotive industry, assembly and test systems for medical devices
* **Application Technology:** robot technologies for the automated application of paint, sealants and adhesives
* **Clean Technology Systems:** air pollution control, noise abatement systems and coating systems for battery electrodes
* **Measuring and Process Systems:** balancing equipment and diagnostic technology
* **Woodworking Machinery and Systems:** machinery and equipment for the woodworking industry

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