

WEFTEC 2008 BOOTH #23208
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**BORD NA MÓNA STRENGTHENS AMERICAN MARKET
COMMITMENT WITH INTRODUCTION OF NEW “GREEN”
WASTEWATER AND ODOR CONTROL TREATMENT
SOLUTIONS AT WEFTEC 2008**

New PuraM® Membrane Bioreactor, PuraMAX® Moving Bed Biological Reactor, and PuraSAF® Submerged Aerated Filter wastewater treatment solutions and MÓNASHELL® Enhanced Biofiltration odor control technology are now available in the North American market.

CHICAGO, ILLINOIS, October 19, 2008 — Bord na Móna Environmental Products U.S. Inc., the American market subsidiary of the \$550-million Bord na Móna group based in Dublin, Ireland, today formally introduced three new wastewater treatment solutions and new odor/VOC control technologies at WEFTEC 2008 in Chicago, Illinois. In doing so, the company said it was significantly expanding its commitment to the United States market through the ongoing development of environmentally focused products that reduce energy and chemical demand, incorporate recycled materials and provide water reuse solutions.

“It’s time to forge a new contract with nature,” today said Shane Keaney, President of Bord na Móna Environmental Products U.S. Inc., based in Greensboro, North Carolina. “All of us have a responsibility to protect the environment we live in. The solutions being introduced today reflect our global commitment to offer sustainable thinking about wastewater pollution, water conservation, and clean air technologies that translates directly into high performance, cost effective treatment solutions for municipalities, communities, and homeowners.”

Three New Wastewater Treatment Solutions Lead The Way:

Customers looking for a system that achieves high quality effluent that meets water reuse and stringent Total Nitrogen standards within a greatly reduced overall footprint should consider Bord na Mona's new **PuraM® Membrane Bio-Reactor (MBR) system**. A proven product developed from extensive R&D, the PuraM MBR is engineered specifically for the decentralized municipal, community and commercial wastewater treatment market with an emphasis on reliability, reduced operational input, ease of maintenance and less complexity than comparable systems.

PuraM is based on flat plate ultra-filtration membrane technology assembled into stainless steel membrane cassettes. The cassette consists of a unique integral dedicated air diffuser assembly that eliminates the need for back-pulsing or frequent chemical cleaning. The system does not require permeate pumps or any site installed chemical dosing system while achieving a typical time between recovery cleans of approximately 12 months, significantly better than comparable systems. PuraM pre-engineered plants are specifically designed for small flow applications providing the reduced complexity and reduced operational input that these decentralized systems require.

The new **PuraMAX® Moving-Bed Biological Reactor (MBBR)** is designed to achieve a high quality effluent at low cost, all within a small overall footprint. The PuraMAX system is engineered specifically for municipal, decentralized or on-site community and commercial wastewater treatment applications, where simple, reliable operation and maintenance are required. The PuraMAX is also ideal for high strength and pre-treatment applications.

PuraMAX is an attached growth activated sludge process. Following a septic/primary tank, the aeration stage consists of recycled plastic media that provide an extended surface contact area for bacteria to attach. An aeration grid located at the bottom of the reactor supplies oxygen to the biofilm, along with the mixing energy required to keep the plastic bio-carriers suspended and completely mixed ensuring good contact between the bacteria and wastewater. The biosolids are naturally sloughed off the media, which along with the treated wastewater flows by gravity to a clarifier for the separation of solids. Excess solids can be either returned to the septic tank or pumped to a sludge holding tank. Total nitrogen reduction can be achieved with recirculation to an anoxic tank or with a post-anoxic stage with carbon addition.

The new **PuraSAF® Submerged Aerated Filter** is an attached growth activated

sludge process that provides a cost effective, low energy pre-engineered wastewater treatment solution that is simple to operate and maintain. Specially designed, recycled plastic media act as biomass carriers and provide a large surface area for bacteria to attach. This allows the PuraSAF to have a much smaller footprint and better oxygen transfer efficiency than traditional activated-sludge processes, saving capital and operating costs through lower process air requirements. The filter normally operates in an upflow packed bed configuration that is readily fluidized for cleaning and desludging. In aerobic mode, PuraSAF offers a small footprint, low headloss solution for BOD, Nitrification and Denitrification. The PuraSAF can also be used in an unaerated mode as a low-cost tertiary filter that approaches sand filter quality.

The PuraSAF has a wide range of applications including as a pre-engineered package system that provides effluent to secondary treatment standards, for tertiary treatment reducing ammonia on existing works or lagoon effluent, a temporary solution during planned refurbishment, as an emergency solution to works failing to meet their permit standards and as a low cost solids tertiary filter. Lease / rental options provide significant flexibility to clients.

A New Chemical Free, Low Operating Cost Odor Control Solution:

The new **MÓNASHELL® Biofiltration System** is a sustainable, low operating cost alternative to traditional carbon adsorption or chemical scrubbing. The reuse of waste shells as media maintains a neutral pH, allowing for highly effective biological treatment of odorous sulfur compounds in wastewater and industrial airstreams without the use of chemicals. The MÓNASHELL system is designed to deliver significant, environmentally responsible benefits for wastewater pumping stations, wastewater treatment works, sludge-handling and treatment processors, municipal solid waste and composting centers, as well as various industrial facilities.

MÓNASHELL is very effective for treating a broad range of compounds and high levels of H₂S and Organic Sulfides. MÓNASHELL uses a smaller footprint than conventional biofilters and its offsite or onsite modular construction allows ease of installation. With over 15 years experience, Bord na Móna has built up a wealth of expertise and knowledge in the field of air pollution with over 500 installations worldwide.

Bord na Móna Environmental Products U.S Inc. are proud to showcase their extensive range of wastewater treatment and odor control solutions at WEFTEC

2008 and will have working models of each system on the booth to help demonstrate the technologies.

New Thinking For A New Era:

“Our aim is to provide environmentally responsible treatment solutions to our clients that are sustainable and can reduce carbon footprint while being cost effective,” Keaney asserted today. “We at Bord na Móna are dedicated to developing state-of-the-art 21st Century treatment solutions that are fundamentally green by nature. The solutions being introduced at WEFTEC 2008 reflect this commitment, but they are just the beginning of a new chapter that will see the introduction of many more solutions over the next two years.”

Headquartered in Dublin Ireland, Bord na Móna is a multi-national \$550-million full line provider of products and services in the environmental, energy, fuels, and horticulture markets. The company’s state-of-the-art, environmentally responsible wastewater, water reuse and air pollution treatment solutions deliver significant environmental benefits for homeowners, communities, and municipalities. The company is dedicated to forging a new contract with nature through the development of innovative solutions focused on water conservation, re-use, material recycling, and energy and chemical reduction. Bord na Móna Environmental Products U.S. Inc. (www.bnm-us.com) is headquartered in Greensboro, North Carolina.

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