



## ***MEDIA RELEASE***

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### **Xogen closer to going global with wastewater treatment pilot plant**

***Test plant that needs less room, lowers operating costs and reduces emissions expects to impress***

***Orangeville, ON*** – Xogen Technologies is expecting its new wastewater treatment pilot plant will generate a flood of interest.

Now operational within the Town of Orangeville's Water Pollution Control Plant, this pilot plant currently treats between 20 and 30 litres of raw wastewater per minute from the town – up to 1,800 litres per hour.

It represents a huge step towards the Orangeville-based company taking its patented wastewater treatment technology to the global market for municipal, commercial and industrial wastewater treatment customers.

“Xogen's new revolutionary wastewater treatment technology has the potential to radically change how wastewater is treated, and this pilot plant is ready to demonstrate that,” said Xogen CEO Angella Hughes, who noted that since 1998, the company has invested \$13 million in developing its technology which is protected by 34 patents worldwide.

The plant, measuring a little over 1,600 square feet (about the size of a large garage) not only treats municipal wastewater to regulated requirements, it also removes pharmaceuticals and personal care products present in wastewater to below detectable levels.

The company's patented technology treats raw wastewater using an electrolytic process that eliminates biosolids and also requires a much smaller footprint than conventional treatment methods. That translates into greatly reduced capital costs. As a by-product, the process also produces a mixture of hydrogen and oxygen gas that can be used to generate energy through combustion or a fuel cell – energy that can be sold back to the grid or re-used to help further reduce costs.

Xogen has put together its own mixture of partners and collaborators, assembling a multi-disciplinary team of leading researchers and specialized technology companies to help design, build and test the plant, including the University of Toronto, the Town of Orangeville, Orangeville Hydro and Linde Canada Limited, a company that will monitor and assess the value of the plant's hydrogen and oxygen gas by-product.

Over the next year, the plant will undergo extensive testing and validation. Researchers will assess the plant's ability to meet municipal wastewater treatment regulations, as well as its ability to reduce air, soil and water emissions.

The plant will also undergo Environmental Technology Verification (ETV) to validate the technology's effectiveness at removing suspended solids, phosphorous, pathogens and other contaminants from wastewater. The ETV will be performed by the Ontario Centre for Environmental Technology Advancement (OCETA) in Canada and by the US-based National Sanitation Federation (NSF). These two bodies will work together to verify Xogen's technology for potential use in both Canadian and international markets.

Eager to show media, government and potential clients just how well this technology works, Xogen is arranging private tours of the plant. One of the first to take this tour was Orangeville Mayor, Rob Adams, who toured the plant on Tuesday **April 12<sup>th</sup>**.

"The Town of Orangeville is pleased to host the Xogen pilot plant at our Water Pollution Control Plant" said Mayor Adams. "Being part of the development of a new and innovative technology is a tremendous opportunity for Orangeville."

"We couldn't be more excited about this pilot plant becoming operational," said Hughes. "Instead of reports, papers and experiments, people can now see first-hand how wastewater can be safely treated with less environmental impact and for less money. This plant is the culmination of years of hard work, research, testing, and planning as well as support from the federal and provincial government."

This funding comes from Sustainable Development Technology Canada (SDTC), an arm's-length, not-for-profit corporation created by the Government of Canada, the Natural Sciences and Engineering Research Council of Canada (NSERC), the Ontario Ministry of Research and Innovation (MRI) and Ontario Centres of Excellence (OCE).

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### **About Xogen Technologies Inc.**

*Based in Orangeville, Ontario, Xogen Technologies Inc. (www.xogen.ca) is a privately held developer of pioneering wastewater treatment and renewable energy technology. The patented Xogen technology treats wastewater using an electrolytic process that also produces a mixture of hydrogen and oxygen gas. The hydrogen oxygen gas may be used to generate energy through combustion or a fuel cell – energy that can be sold back to the grid or re-used to help further reduce costs. At the heart of Xogen's technology is a patented reactor that is able to rapidly treat raw wastewater in fewer steps, thereby eliminating many unit processes used with conventional approaches. The resulting treatment train requires a much smaller footprint, thereby lowering capital costs. Together with the ability to reuse the by-product oxygen hydrogen gas, the Xogen process improves significantly on the overall economics of wastewater treatment.*