SUMMER NEWSLETTER

GLOBE PERFORMANCE SOLUTIONS



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Korea-Canada Co-Verification Initiative

August 15, 2014 — GLOBE Performance Solutions (GPS) and the Canadian ETV Program are pleased to announce the forthcoming completion of Canada's first international environmental technology coverification with Korea. Under this project, GPS is working in close collaboration with our GPS-Consortium member and Verification Expert, the Edmonton Waste Management Centre of Excellence (EWMCE). The EWMCE is a leader in the development of state-of-theart knowledge, technology and facilities for wastewater treatment and



solid waste management using process streams from full-scale municipal operations. Completion of the Canada-Korea Co-Verification project for EnbioCons "System for Sludge Advanced Fuel and Energy" (SAFE) technology is expected by early September 2014.

EnbioCons Co., Ltd. of Seoul, Korea, is a recognized leader in the Korean organic waste management industry, well known for construction and operation of large-scale sewage sludge treatment facilities in the Seoul and Busan metropolitan areas. The company's SAFE technology is employed for sewage sludge drying, using a two-axis rotary type disintegrator in a hot air kiln dryer. The resulting end-product is a dried, pellet-like material that can be used as a dry fuel source.



This marks an important milestone in technological collaboration between Canada and Korea and paves the way for future co-operation between GLOBE Performance Solutions and the Korea Environmental Industry & Technology

<u>Institute (KEITI)</u>, which delivers the Korean ETV Program. Moreover, this initiative opens the doors to Canadian technology companies seeking to establish greater market presence in Korea, particularly in light of the recently concluded <u>Free Trade Agreement between Canada and Korea</u>.







Poland-Canada Co-Verification

July 28th, 2014 — GLOBE Performance Solutions has entered into discussions with the Institute of Technology and Life Sciences in Falenty Branch Poznań (Poland) to explore opportunities for Canada-Poland co-verifications, through collaboration between the Canadian ETV Program and the EU ETV Program. This cooperative initiative, known as the "Canada-Poland Co-verification Training Pilot Project," will provide a framework for verifying the performance of



ASKET BIOMASSER® technology which uses straw and hay to produce heating fuel briquettes, while also incorporating training on

technology performance verification to support other future co-verifications. As Canada and the European Union move forward to finalize a Comprehensive Economic Trade Agreement in the coming weeks, this pilot project will lay the groundwork for future co-verifications of Canadian and European technologies in Canada and throughout the EU.







Green Mining Initiative

July 17, 2014 — GLOBE Performance Solutions (GPS) is pleased to work with Natural Resources Canada (NRCan) CanmetMINING and Environment Canada on the Green Mining Initiative (GMI) Technology Performance Verification Pilot Project. This initiative aims to demonstrate the growing importance and value of environmentally sustainable technology in the mining industry and the benefits of independent technology performance verification through the Canadian Environmental Technology Verification (ETV) Program.

GPS will collaborate closely with our Consortium member and Verification Expert, the Prairie Agricultural

Machinery Institute (PAMI), to complete technology performance verification for the NRG1-ECO® Ventilation Control System, developed by BESTECH of Sudbury, Ontario, Canada. BESTECH's technology performance claim is that installation of the NRG1-ECO® Ventilation Control System enables an underground mine to reduce the energy consumed by its ventilation fans by at least 20%, while maintaining a safe working environment for the underground workers. Greater efficiencies in mining ventilation not only allow mine operators to realize higher energy savings, but also reduce greenhouse gas emissions.



Performance testing and data collection at the Vale Coleman Mine in Sudbury, Ontario are currently underway, and expected to be completed by early September 2014.









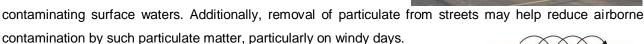
Spotlight on the Canadian ETV Program

TYMCO, Inc. / Street Sweeper Technology

On July 16, 2014 GLOBE Performance Solutions completed the renewal of two TYMCO Street Sweeper Technologies:

- 1) TYMCO Model DST-4 Dustless Regenerative Air Street Sweeper
- 2) TYMCO Model DST-6 Dustless Regenerative Air Street Sweeper

TYMCO Regenerative Air Dustless Sweeping Technology (DST) is designed to thoroughly clean roads and streets while minimizing the release of dust into the air. The street sweeper can have a positive environmental effect by reducing the amount of materials entering the storm sewers which may otherwise end up







For more information please refer to: http://www.tymco.com/

Greenland Corporation / Greenplus Hydraulic Fluid ES Technology

On July 3, 2014 GLOBE Performance Solutions completed the renewal of:

• Greenplus Hydraulic Fluid ES technology.



Greenplus Hydraulic Fluid ES is used in all standard and many specialty hydraulic fluid applications. It is used preferentially by environmentally responsible hydraulic equipment operators working in food processing and in environmentally sensitive locations such as watershed areas, waterways, parks and other recreational areas, as well as in general construction and other specialized applications.

For more information please refer to: www.greenpluslubes.com



<u>Stormwater Management Filtration Devices – Funding for Test</u> Procedure

July 7, 2014 – Following the successful launch of our online <u>Stormwater Management Stakeholder Forum</u> and the completion of the <u>Procedure for Laboratory Testing of Oil-Grit Separators</u> in September 2013, GLOBE Performance Solutions (GPS) has continued



to seek greater input and dialogue to support the development of additional <u>procedures and protocols</u> in the stormwater sector.

In collaboration with the Toronto and Region Conservation Authority (TRCA), GPS has prepared a draft proposal for the "Development of a Performance Test Procedure for Filtration Devices in Stormwater Management Applications." The timing for this proposal coincides with the ever increasing need for a

Canadian testing and verification procedure for filtration devices that will help guide the demonstration and deployment of effective stormwater management



technologies and solutions. Development of the proposed procedure aligns with collaborative, evidence-based approaches to build vendor credibility and buyer confidence by providing assurance that technology performance claims are valid, credible and supported by high quality, independent test data and information.

GLOBE Performance Solutions is currently in the process of identifying and contacting stakeholders at the local municipal government level, who may be able to commit funding to support the development of this test procedure.

Clean Energy Dialogue

June 9, 2014 – GLOBE Performance Solutions organized a one-day workshop in March 2014 on Advancing Community Biogas Technologies. The main purpose of the workshop was to promote efforts under the US-Canada Clean Energy Dialogue (CED) to advance clean energy technologies and reduce greenhouse (GHG) emissions. The workshop served to:



 Encourage dialogue amongst Canadian and US stakeholders in industry, academia and government who have an interest in the development and application of community-based biogas technologies;



- Identify the technology performance expectations and verification needs of key stakeholders; and
- Identify barriers to the advancement and widespread deployment of community-based biogastechnologies, such as gaps in knowledge, insufficient research and development (R&D) investment, market acceptance, capital and operating costs, technology risk, etc.

An initial draft report summarizing participants' inputs and workshop conclusions was completed by GPS and submitted to Environment Canada at the end of March. Environment Canada has since requested further elaboration of the report to include specific industry recommendations and proposed actions. A revised version of the final report is expected to be completed by mid- to late-August 2014.

<u>Industrial Research Assistance Program (IRAP) – Pacific Region</u> <u>Clean-Tech Company Mentorship Program</u>

May 7, 2014 — GLOBE Performance Solutions has provided mentorship advice to three companies under the GLOBE-IRAP CleanTech Company Mentorship Program for British Columbia companies. The three companies are:

- ATD Waste Solutions Inc. Porcine waste treatment and conversion into water and pelleted fertilizer
- <u>Environment Depot for Wastewater to Energy Ltd. (EDWE)</u> Municipal and agricultural bio wastewater treatment and sludge removal, through Acti-Zyme's bio-augmentation technology.
- Waterwall Turbine Inc. Harvesting of Potential and Kinetic Energy in Water Currents





