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Water Innovation Award Confirms Power of Sewer Mining Concept

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Clean water harvested from sewage with Forward Osmosis technology supplied by Hydration Technology Innovations (HTI) wins AGV Award

ALBANY, Ore./SCOTTSDALE, Ariz. (July 1, 2010) – Hydration Technology Innovations, LLC (HTI) along with Netherland based groups, KWR Watercycle Research Institute, Delft University of Technology, Waternet, DELTA Triqua and Bareau Duurzame Technologie have won the prestigious 2010 AGV Water Innovation Award for their joint Forward Osmosis Sewer Mining Project.

The Water Board Amstel, Gooi and Vecht (AGV) of the Netherlands annually awards this esteemed prize for water quality and water safety innovation. The AGV jury found this project 'tremendous' and states that it is a good beginning of a new technique that really does appear to be a technological breakthrough.

The key benefits of the Forward Osmosis Sewer Mining project will be the ability to create decentralized industrial water from sewage so fresh groundwater is maintained exclusively for drinking water. In addition, local energy is recovered from the high pressure digestion process due to fermentation. Ultimately, the quality of the influent water entering the sewage treatment plants will be improved and the processes results will show large savings in reduced sewage capacity along with the ecological benefits of the reduced effluent discharge. The total scope of the joint project is to run through 2013 with a budget of 1,450,000 Euros. The project has already received an InnoWator subsidy from AgentshapNL.

HTI develops and supplies the Forward Osmosis (FO) membranes to the project that are necessary to filter the heavily polluted sewage to produce clean water. Osmosis is a natural process where two liquids separated by a special proprietary membrane seek equilibrium naturally pulling water through the membrane while rejecting organics, minerals and other solids. FO allows a high degree of separation to be achieved using relatively low energy consumption.

"HTI is the first and only company worldwide to supply commercial forward osmosis membranes needed for the Sewer Mining concept, and we are lucky to have them on

board to provide us with enthusiastic and prompt knowhow and support," said Emile Cornelissen, a Senior Scientific Researcher at KWR.

HTI's technology will be combined with high pressure digestion, which is necessary to recover the leftover salt after the FO process. The combination of both of these ground-breaking technologies is the basis for Sewer Mining.

About HTI's Forward Osmosis Technology
In state-of-the-art plant facilities located in Albany, Ore., HTI manufactures a proprietary forward osmosis membrane material that allows water to migrate through the membrane, powered only by a draw solution on the clean water side of the membrane, leaving behind virtually all contaminants.

For more information on HTI's Forward Osmosis technology and the various applications it can be applied to, please visit www.HTIwater.com