

Nitrogen Removal Treatment System

World Water Works, Inc., announces the availability of the DEMON® treatment system for removal of nitrogen from wastewater. The system is suitable for food



and beverage processing facilities that have wastewater streams with high ammonia concentrations and can also play an important role in wastewater treatment energy self-sufficiency. The system features ammonia oxidizing bacteria (AOB), which convert half the ammonia to nitrite. A second anaerobic biological process uses Anammox bacteria to convert the combination of nitrite and remaining ammonia directly into nitrogen gas. This process reduces energy requirements by 60 percent, eliminates the need for all chemicals, and produces 90 percent less sludge. It also features a low carbon footprint because the anaerobic process actually consumes carbon dioxide. The key to the process success is the patented control strategy and biomass separation device, which enriches the slowly growing biomass and enhances process robustness and treatment capacity.

World Water Works, Inc.

www.WorldWaterWorks.com [1]

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