



**For Immediate Release**

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## **Atlantium Provides Chemical-free Disinfection & Dechlorination Solution to Support Cottonseed Processing Facility**

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[Archer Daniels Midland Company](#) (ADM) has purchased and installed the Hydro-Optic™ (HOD) ultraviolet (UV) technology from [Atlantium Technologies Ltd.](#), to provide chemical-free disinfection and dechlorination of RO feedwater to the boiler which supports their cottonseed processing facility in Lubbock, Texas.

A package boiler supplies the steam required to facilitate cottonseed processing at ADM Lubbock. The boiler relies on reverse osmosis (RO) membrane filtration to provide high purity feed water for the boiler. The presence of biofouling can result in frequent membrane maintenance and replacement.

A HOD UV system with a flow rate capacity of 30 gpm (6.8 m<sup>3</sup>/hr) was installed to disinfect and dechlorinate water prior to entering the plant's newly commissioned RO system in order to protect the membrane elements from biological fouling and oxidation from chlorine. Municipal water with 4 ppm of chloramines is used as the source water for the packaged power plant.

“The HOD UV technology is unique in its ability to disinfect and dechlorinate in a single, chemical-free process,” said Mark Carroll, Water Resource Engineer, Archer Daniels Midland. “The HOD system decomposes free chlorine and significantly reduces combined chlorine oxidants in process water to protect RO membranes. Additionally, the HOD technology provides disinfection to reduce the membrane biofouling potential by eliminating anaerobic and aerobic bacterial growth. The combination helps us to maintain high uptime on the RO and, in turn, the integrity of the boiler feedwater.”

To access the latest information about Atlantium Technologies Ltd., visit our [News Room](#).

**About Atlantium**

[Atlantium Technologies Ltd.](#), founded in 2003, is a global leader in ultraviolet (UV) treatment solutions for municipal and industrial applications. Atlantium's Hydro-Optic™ system is field proven and validated to the highest regulatory standards including EPA and FDA. The Hydro-Optic UV system is unique in its ability to consistently monitor water quality, UV intensity and adjust the UV dose rate accordingly to meet application specific needs. Facilities looking to achieve chemical-free disinfection, dechlorination, or oxidation will benefit from the use of the Hydro-Optic technology.

**About ADM**

For more than a century, the people of [Archer Daniels Midland Company \(NYSE: ADM\)](#) have transformed crops into products that serve the vital needs of a growing world. Today, we're one of the world's largest agricultural processors and food ingredient providers, with more than 32,300 employees serving customers in more than 160 countries. With a global value chain that includes 428 crop procurement locations, 280 ingredient manufacturing facilities, 39 innovation centers and the world's premier crop transportation network, we connect the harvest to the home, making products for food, animal feed, industrial and energy uses.

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