An Overview of the Electric Utility's Water Research Center

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Abstract. This presentation provides an overview and status update of the Water Research Center (WRC) at Georgia Power's Plant Bowen. In partnership with the Electric Power Research Institute (EPRI) and the Southern Research Institute (SRI), Georgia Power announced the \$12 million WRC in 2011. The WRC was designed to focus on current and anticipated future regulations to the power industry, such as the new EPA Effluent Limitation Guidelines. In addition, the facility focuses on 7 key areas of the Water Energy Nexus: overall power plant water management, wastewater treatment, Zero Liquid Discharge (ZLD) systems, solid landfill management issues created by water technologies, advanced and hybrid cooling systems, moisture recovery, and water issues associated with Carbon Capture and Storage (CCS.) The WRC began testing in 2012 and this presentation outlines how the facility was designed and provides details on what technologies are currently being tested or that will soon be tested at the facility.