Officials in Anderson County, Tennessee were looking for innovative, sustainable measures to reduce their energy and water consumption while continuing to provide residents with a high quality of service. Water Management, Inc. (WMI) partnered with Johnson Controls to provide the County with a comprehensive water and energy project which would not only increase operational efficiency and sustainability, but also have a minimal payback period. Following an investment grade audit of 7 county buildings which included the County Jail, Health Department, and Courthouse, WMI was confident significant water and energy savings were attainable, while simultaneously improving facility functionality.

In order to decrease the use of potable city water for non-consumptive purposes, 2 rainwater harvesting systems were proposed at the EMS Station and County Jail. These systems eliminated the need of city water for vehicle washing purposes and included a 2000 and four, 2600 gallon above ground cisterns and associated pumps, filter housing, UV purifiers, carbon cartridges, and 5 micron Polypropylene filters. This saved approximately 108,000 gallons of water annually.

Inclusive of the standard domestic and non-domestic measures, the total combined comprehensive water and energy project had a combined payback of 4.1 years and saved approximately $25,000 annually.