

Title: Accelerating Circular Economy Solutions to Support and Achieve UN SDG 6

Abstract: Water, an essential natural resource, has the potential to endanger both human life and the quality of life. At its core, the United Nations 2030 Agenda for Sustainable Development Goals depends on the successful implementation of Sustainable Development Goal 6 (Clean Water and Sanitation) and its water-related targets to be fully realized. However, there is a lot of pressure and difficulty in maintaining sustainable water and sanitation management. The pressure is growing on the world's surface and groundwater resources as a result of the growing disparity between water supply and demand, anthropogenic water pollution, and the effects of climate change. This talk will emphasize the opportunities and challenges of the circular economy to promote the use of treated water and sustainable use of water resources to achieve a number of goals, including safe drinking water and an efficient sanitation system, among others. This presentation will highlight the necessity of switching from a "use and discharge approach" to a "use, treat, and reuse approach" to work in harmony with the sustainable consumption approach of SDG 12 (Responsible Consumption and Production). The presentation would offer suggestions on how to transition to a circular water economy with positive steps from public-private partnerships to improve water use efficiency and increase investment in wastewater management systems in addition to water supply infrastructure.