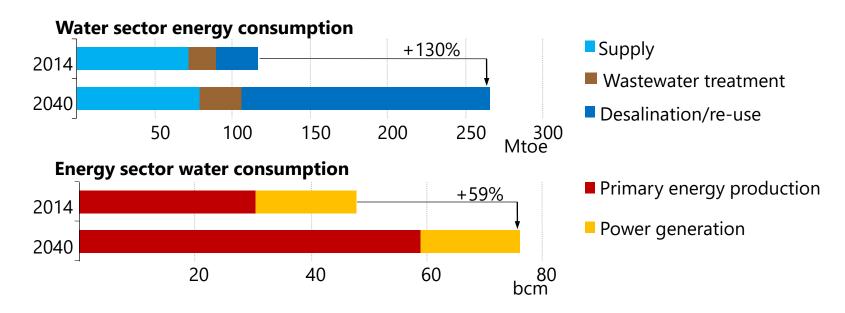


Outlook for the Water-Energy Nexus

Molly A. WALTON
UNESCO, 8 November, 2019

The linkages are intensifying

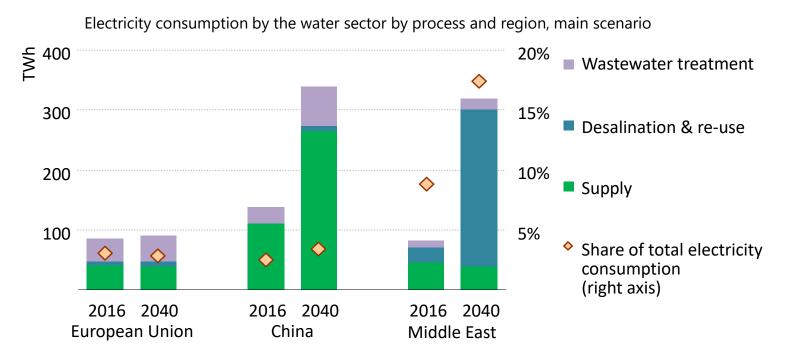
Global energy use in the water sector and water use in the energy sector, main scenario



Managing energy-water linkages is pivotal to the realization of a range of development, economic & energy transition goals



Water needs more energy & challenges vary by region

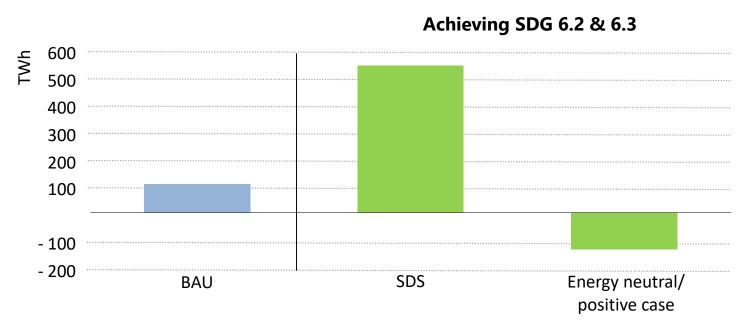


Water continues to account for around 4% of global electricity consumption in 2040, but large-scale water transfer in China & desalination in the Middle East increase their share



Meeting SDG 6 could increase energy demand

Global electricity consumption in urban municipal wastewater treatment facilities in 2030, Sustainable Development Scenario



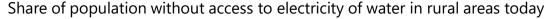
Impact on energy demand from meeting SDG 6 could be significant, but if right policies & technology are put in place the wastewater sector can become a net energy producer

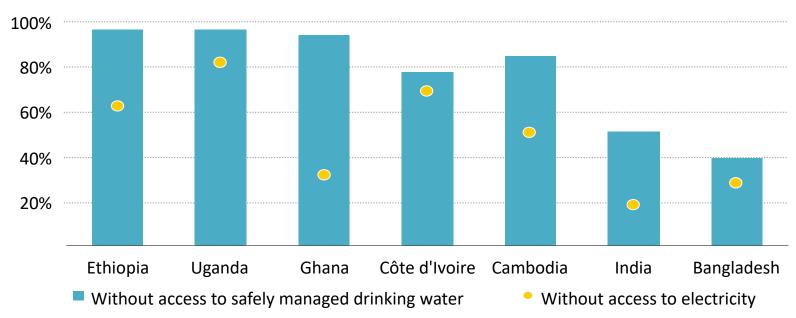




iea.org/weo/water

There are significant synergies between SDG 7 & 6





Two-thirds of those without access to clean drinking water in rural areas also lack access to electricity, opening opportunities to co-ordinate solutions

