

Water Technology 1 of 2

- 💧 priority of water quality / public health >> energy or Carbon footprint
- 💧 deep knowledge
 - 💧 manifests application in unexpected or new systems;
 - 💧 interconnectedness of knowledge
 - 💧 search for P accumulating / sulphate reducing micro-organisms
- 💧 shortage skilled people
 - 💧 need failsafe systems (need deep knowledge)
 - 💧 not simple to design
- 💧 many benefits of source separation of urine
- 💧 water scarcity leads to increased concentrations of complex pollutants
 - 💧 need deeper knowledge to understand, identify and quantify
 - 💧 advanced removal / treatment processes
- 💧 direct use of seawater / saline water for sanitation prior to desalination for potable water



Water Technology 2 of 2

- 💧 membrane use starting to be mainstreamed for
 - 💧 not end of pipe
 - 💧 sewage
 - 💧 toilet to tap
 - 💧 seawater desalination
 - 💧 mine water
- 💧 membrane use is emerging for
 - 💧 industrial effluents
 - 💧 potable water
- 💧 Nanotechnology
 - 💧 watching brief – keep researchers interested in water issues (and vice versa)
 - 💧 can not predict where new applications will arise
- 💧 Irrigation – increased electricity price
 - 💧 leads to increased water demand management
 - 💧 demand for accessible crop efficiency tools
- 💧 irrigation water quality issues cascade from sewage treatment
 - 💧 need to coordinate the entire water value chain (potable water – sewage treatment - irrigation)

