

Eastern Region, Day Two, Group D, Needs

Agriculture

- Biotech solution—5-10% water savings (USDA)
- Water use as % of total predicted to go down

Infrastructure

- Need improvement in
 - Water storage
 - Piping replacement/upgrade
 - Leak detection

Water treatment

- Need R&D on membranes
 - Lower energy use
 - Concentrate disposal
 - Lower pressure
 - Fouling
- UV/ozone disinfection
 - Lower energy use

Incentive—both regulatory and non-regulatory

- Producers
 - Encourage reduction in energy/water use
- Consumers
 - Need education program backed by cost-effective technologies
 - Marketing
 - Recognize different needs/regions

EPA water reuse guidelines—CA, FL, TX

- NRC—80,000 chemical trace amounts
- Need for analytic tools
 - EDCs/PhACs, ppt

Need remote, continuous, low-cost water quality/quantity monitoring

- Wastewater treatment
- Chemical/industrial plants

Need predictive capabilities for water supply

- Quality, quantity, timing
- Horizon ...

Need to match water with application

- Water required for waste assimilation
- NPDES—stream flow

- Increase energy use
 - Secondary treatment and plant