



## **Energy-Water Connections**



- Energy sector accounts for 8% of worldwide fresh water withdrawals
  - 40% of withdrawals in developed countries
  - 27% of non-agricultural fresh water consumption in the US <u>could triple by 2030</u> from electricity, biofuels, and gas shale demands
- Energy sector contributes to water quality issues
  - Oil and gas produced water; biofuels, oil sands, oil shales, gas shales, mine water drainage; power plant emissions and impact on surface water quality
- Water and waste water sector energy use is expected to grow substantially
  - Growth in water treatment, desalination, disinfection technologies, increased water transportation will increase energy intensity
  - Water and waste water sector energy use could triple by 2030

ENERGY and WATER



