* Water = Energy
* “Our decisions are clearly not made with our descendants in mind.” – Steve Weinberg
* Top problems for humanity in the next 50 years
  + Energy
  + Water
  + Food
  + Environment
  + Poverty
  + Terrorism and War
  + Disease
  + Education
  + Democracy
  + Population
* Unlimited energy and water would solve like half our brain cancer
* Use energy to get water like…
  + Collection
  + Treatment
  + Distribution
  + Desalination
  + Heating !!! largest amount of energy use ~80%
  + Wastewater treatment
* Surface water is cheapest, then ground water, brackish ground water, and then seawater
* Most energy usage in house is for heating space then heating water
* The most irrigated crop in the USA is the lawn
* Water withdrawals are dominated by thermoelectric power plants ~40%
* Water consumption is dominated by agriculture